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NOCCHI CATALOGUE ELECTRIC PUMPS AND BOOSTERS

50Hz

LEADER IN WATER TECHNOLOGY

The Pentair Group is one of the world leaders in the design and manufacture of innovative products and systems used worldwide for the treatment, transport and storage of water. The Group bases its activity and success on values such as constant improvement, ongoing developments of new products, high performance, expertise, company ethics and market leadership. The staff at Pentair share personal values such as professionalism, a deep respect for people and the environment and a practical and correct work approach. Solid relations with the clients and high quality standards enable Pentair to be ranked among the top manufacturers of technologies and instrumentation for water treatment.



ELECTRIC PUMPS

Vertical and horizontal centrifugal pumps; submersible pumps for domestic, commercial, agricultural and industrial applications; pumps for clear and waste water drainage; booster sets and fire-fighting units, pumps for central heating and air conditioning systems.



FILTRATION

Filtration systems for industrial, residential and commercial sectors; filter cartridges, components for drinking water filtration, pumps for camper vans and boats, pumps and accessories for industrial and food sector applications

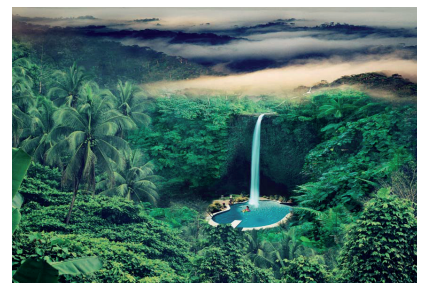
SAFE, CLEAN WATER

The supply of clean and safe water to an increasing portion of the population is the mission of Pentair: a highly professional organization that works to serve its clients in the most effective way possible, through production facilities located all over the world and highly specialized sales and marketing departments.



WATER TREATMENT

Valves for the control of water treatment in domestic, commercial and industrial applications; pressure tanks and expansion vessels in glass fiber; water storage tanks.



SWIMMING POOLS

A complete range of equipment and accessories for swimming pools: filters, pumps, heating and lighting systems, cleaning accessories; dispensers and control systems, products and accessories for fountains and ponds.

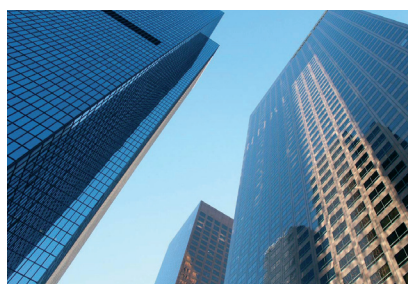


WATER ENERGY

DIAMO ENERGIA ALLA VOSTRA ACQUA

Founded in 1977, Nocchi is now part of the Pentair Group.

For over 30 years now we have worked in the design and manufacture of pumps for water handling, providing our clients with quality products and practical solutions to meet all types of demand. The wide range of Nocchi products offers design studios and specialist distributors of hydraulic and sanitary/heating fittings all the products and systems to meet the needs of water supply and pressure booster systems for residential, public, irrigation and industrial applications.



FIRE FIGHTING AND PRESSURE BOOSTER SYSTEMS

Vertical and horizontal centrifugal pumps. Complete systems for the transfer and pressurization of water. Fire fighting units.



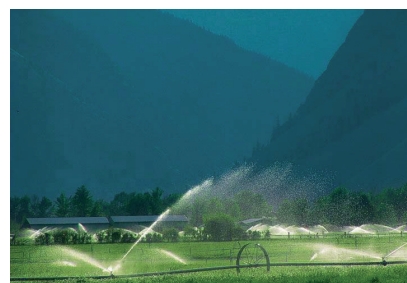
ELECTRIC PUMPS FOR RESIDENTIAL USE

Submersible pumps, self-priming pumps, multi-stage centrifugal pumps and compact pumping systems for water supply to private homes, garden irrigation and rainwater collection systems.



ELECTRIC PUMPS FOR DRAINAGE

Pumps for the transfer of clear water, waste water, sewage water and sludge. Pumps designed for numerous applications (basin water, cistern water, pumping stations, etc.).



ELECTRIC PUMPS FOR OPEN AND DRILLED WELLS

Submersible pumps for irrigation and underground water pumping.

PENTAIR WATER ITALY: THE PISA FACILITIES BECOME 100% GREEN.



Thanks to the installation of a sophisticated photovoltaic system installed on the roof of the building, the Pisa facilities have now become the first green Pentair site, able to

produce **100% of the energy required for production needs.**

4100 solar panels are installed on a surface area of 11,000 m², capable of generating up to **1,280,000 kWh** per year.

Among the main advantages is a reduction in CO₂ emissions of **678,400 kg.**

Our clients now have the guarantee that Pentair products from the Pisa facilities are produced entirely using renewable energy.

The significant results achieved from the installation of these solar panels can be seen in real time, on the various displays fitted on the premises.

In fact, each activity performed in the Pisa facilities is constantly improved in

light of the maximum energy savings and minimal environmental impact on this site.

In view of the initiatives taken and future projects, we can now without a doubt affirm that Pentair is an authentic leader in production management, with the objectives of:

- Maximum respect for the environment
- Maximum energy savings
- Increased safety for personnel
- Maximum respect for health

INDEX 1/3

PRODUCT	DESCRIPTION	PAGE
JET INOX	SELF-PRIMING PUMPS IN STAINLESS STEEL	7
JET	SELF-PRIMING PUMPS IN CAST IRON	9
MULTINOX-XC	MULTI-CELL CENTRIFUGAL PUMPS	13
MCX	MULTI-CELL CENTRIFUGAL PUMPS	15
MAX	MULTI-CELL SELF-PRIMING CENTRIFUGAL PUMPS	17
MULTINOX-A	MULTI-CELL SELF-PRIMING CENTRIFUGAL PUMPS	19
MULTINOX-VE	VERTICAL MULTI-CELL CENTRIFUGAL PUMPS	21
CM	HORIZONTAL CENTRIFUGAL PUMPS	24
CB	TWIN IMPELLER CENTRIFUGAL PUMPS	27
WATERPRESS	PRESSURE BOOSTERS WITH 24-LITER HORIZONTAL EXPANSION TANK	29
WATERPRESS INOX	PRESSURE BOOSTERS WITH 24-LITER HORIZONTAL EXPANSION TANK	31
WATERPRESS INOX 50 L	PRESSURE BOOSTERS WITH 50-LITER HORIZONTAL EXPANSION TANK	33
WATERPRESS SUPERINOX	PRESSURE BOOSTERS WITH 24-LITER HORIZONTAL EXPANSION TANK	35
AUTOJET	PRESSURE BOOSTERS WITH ELECTRONIC CONTROL DEVICE AND PUMP PROTECTION	37
AUTOMAX	PRESSURE BOOSTERS WITH ELECTRONIC CONTROL DEVICE AND PUMP PROTECTION	39
CPS10	ELECTRONIC FREQUENCY CONVERTER	41
CPS3-10	THREE-PHASE ELECTRONIC FREQUENCY CONVERTER	47
SWIMMEY	SELF-PRIMING PUMPS FOR SWIMMING POOLS WITH PRE-FILTER	50
MCP	MULTI-CELL CENTRIFUGAL PUMPS FOR SWIMMING POOLS	52
P.G.A. - DELTA OIL	SELF-PRIMING PUMPS WITH SPECIAL LIQUID CIRCUIT FOR DIESEL TRANSFER	54

INDEX 2/3

PRODUCT	DESCRIPTION	PAGE
PRATIKA	SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR CLEAR WATER	56
DOMINATOR 4" NEW	SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR CLEAR WATER Ø 4"	58
DOMINATOR 5"	SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR CLEAR WATER	61
SCM 4 Plus	SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR	63
SCM 4 HF 400	SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR	72
SA	SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 6" COMPLETE WITH MOTOR	75
MOTORS 4" - 6"	ELECTRIC MOTORS Ø 4" - 6" FOR SUBMERSIBLE PUMPS	80
DP	SUBMERSIBLE PUMP FOR CLEAR WATER DRAINAGE	82
DPC	SUBMERSIBLE PUMP FOR CLEAR WATER DRAINAGE	84
DRENOX	SUBMERSIBLE PUMP FOR CLEAR WATER DRAINAGE	86
DPV	SUBMERSIBLE PUMP FOR WASTE WATER DRAINAGE	89
OMNIA	SUBMERSIBLE PUMPS FOR CLEAR WATER	91
BIOX XS	SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS	93
PRIOX	SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS	95
MINIVORT P	SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS	97
MINIVORT PP	SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS	99
VACUSYSTEM	COLLECTION STATIONS AND WASTE WATER LIFTING	101
VERSAILLES	SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES	107
EXPANSION TANKS	STAINLESS STEEL	110
FLUSSCONTROL	ELECTRONIC PRESSURE REGULATOR FOR SINGLE PHASE PUMPS	112
QES PLUS	SINGLE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE PUMP WITH DIRECT STARTING	113
AT	THREE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE OR SURFACE PUMP WITH DIRECT STARTING	114
ADRM	SINGLE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS	115
ADRD	THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS	116
ADRY	THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS WITH STAR/DELTA STARTING	117
DHR	MULTI-CELL CENTRIFUGAL PUMPS	118
A-DHR	PRESSURE BOOSTERS WITH ELECTRONIC CONTROL DEVICE AND PUMP PROTECTION	123
DHI	ELECTRIC MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL	125
VLR/VLRI/VLRX	VERTICAL MULTI-CELL CENTRIFUGAL PUMPS	128
VLR	VERTICAL MULTI-CELL CENTRIFUGAL PUMPS	131
VLRI/X	VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL	151
VLR/VLRI/VLRX ACCESSORIES	JOINTS AND FLANGES	173
CPS10	ELECTRONIC FREQUENCY CONVERTER	175
CPS3-10	THREE-PHASE ELECTRONIC FREQUENCY CONVERTER	180
SSCX	MONOBLOC SINGLE IMPELLER CENTRIFUGAL PUMPS WITH AXIAL SUCTION AND RADIAL DELIVERY	187
NRM	STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)	189
NRB	STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)	206
A2L - A4L	MONOBLOC "IN LINE" PUMP	221
A2LD - A4LD	TWIN "IN LINE" MONOBLOC PUMPS	231
ACCESSORIES NEW	GUIDE TO THE SELECTION OF PORTS AND COUNTERFLANGES	239
EASYBOOST	RESIDENTIAL - PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL	240

INDEX 3/3

PRODUCT	DESCRIPTION	PAGE
PRESSOMAT	INDUSTRIAL - PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL	260
SENSORMAT	PRESSURE BOOSTERS WITH TRANSDUCER CONTROL	273
FREQUENCY CHANGER	VARIABLE SPEED PRESSURE BOOSTERS	283
CPS20	VARIABLE SPEED PRESSURE BOOSTERS WITH TWO PUMPS	296
CPS3-20	THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO PUMPS	302
CPS3-30 NEW	THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH THREE PUMPS	308
EXPANSION TANKS	STAINLESS STEEL	313
QES PLUS	SINGLE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE PUMP WITH DIRECT STARTING	315
AT	THREE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE OR SURFACE PUMP WITH DIRECT STARTING	316
ADRM	SINGLE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS	317
ADRD	THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS	318
ADRY	THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS WITH STAR/DELTA STARTING	319
ACCESSORIES	ELECTRICAL PANELS	320
PRESSURE BOOSTERS	GUIDE TO SELECTION	324

NOCCHI JETINOX SELF-PRIMING PUMPS IN STAINLESS STEEL

SELF-PRIMING, HIGH SUCTION CAPACITY

The self-priming pumps in the JETINOX range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps, as well as quality performance. The Venturi pipe system on these pumps guarantees optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Lifting and distribution of water in domestic systems, with continuous or intermittent duty.
- Pressure booster systems.
- Washing, irrigation of vegetable gardens, supply to fountains, transfers.
- Lifting from wells or cisterns.

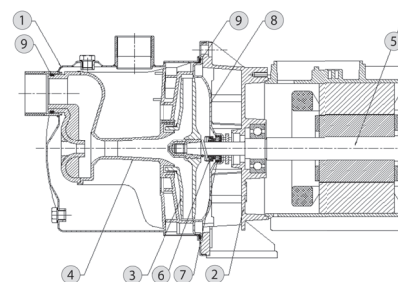
APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 8 m with foot valve.
- Maximum operating pressure: 6 bar.



TABLE OF MATERIALS

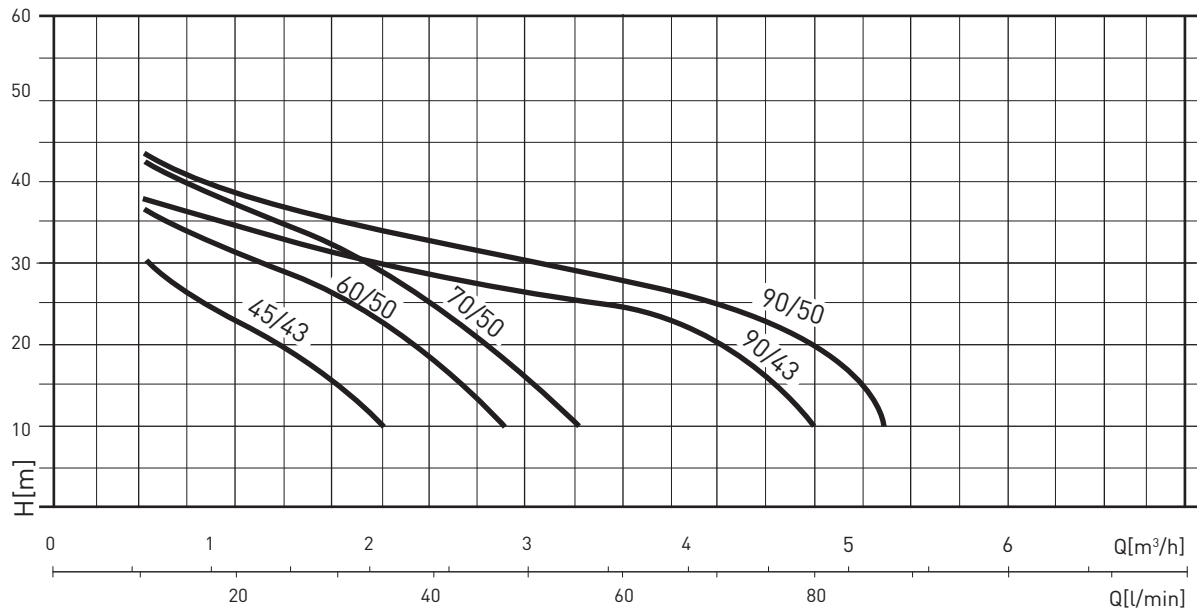
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Motor bracket	Die cast aluminum
3	Impeller	Technopolymer with shim ring in stainless steel
4	Freestanding diffuser unit Venturi pipe nozzle	Technopolymer
5	Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Gasket backing plate	Technopolymer (series 45-60-70) Stainless steel X5 CrNi 1810 (AISI 304) series 90
9	Seals	NBR 70 Shore



NOCCHI JETINOX

ELECTRIC SELF-PRIMING PUMPS IN STAINLESS STEEL

HYDRAULIC PERFORMANCE

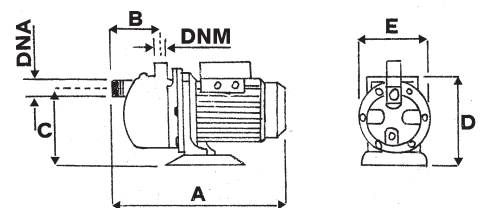


PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/ min	0	10	20	30	40	50	60	70	80
	HP	kW	HP	kW					m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
JETINOX 45/43 M	0.5	0.37	0.8	0.6	1 ~ 220-240 V	3	8	m.c.a. / m.w.c.		43	30	23	16	1				
JETINOX 60/50 M	0.75	0.55	1.1	0.8	1 ~ 220-240 V	4	12.5			46	36	31	26	18	6			
JETINOX 70/50 M	0.95	0.7	1.36	1.0	1 ~ 220-240 V	4.5	16			48	42.5	37.5	32	25	16.5	7		
JETINOX 90/43 M	1.0	0.75	1.8	1.3	1 ~ 220-240 V	6.5	20			43	38	34	32	29	27	25	21	10
JETINOX 90/50 M	1.2	0.9	2	1.5	1 ~ 220-240 V	7	25			50	42	39	37	33	30	27	25	20
JETINOX 60/50 C	0.75	0.55	1.10	0.8	1 ~ 230-240 V	4	12.5			46	36	31	26	18	6			
JETINOX 70/50 C	0.95	0.7	1.36	1.0	1 ~ 230-240 V	4.5	16			48	42.5	37.5	32	25	16.5	7		
JETINOX 90/43 C	1.0	0.75	1.80	1.3	1 ~ 230-240 V	6.5	20			43	38	34	32	29	27	25	21	10

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
JETINOX 45/43	351	93	140	190	178	1" F	1" F	4.7
JETINOX 60/50	374	93	140	190	178	1" F	1" F	8.2
JETINOX 70/50	351	76	144	196	180	1" F	1" F	9.5
JETINOX 90/43	397	98	168	220	235	1" 1/4 M	1" F	11
JETINOX 90/50	430	98	168	260	235	1" 1/4 M	1" F	13



NOCCHI JET

ELECTRIC SELF-PRIMING PUMPS IN CAST IRON

RUGGED AND RESISTANT, SELF-PRIMING, HIGH SUCTION CAPACITY

The self-priming pumps in the JET range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps. The Venturi pipe system on these pumps guarantees optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Lifting and distribution of water in domestic systems, with continuous or intermittent duty.
- Pressure booster systems.
- Washing, irrigation of vegetable gardens, supply to fountains, transfers.
- Lifting from wells or cisterns.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 8 m with foot valve.
- Maximum operating pressure: 6 bar. (10 bar for mod. 100 - 160)



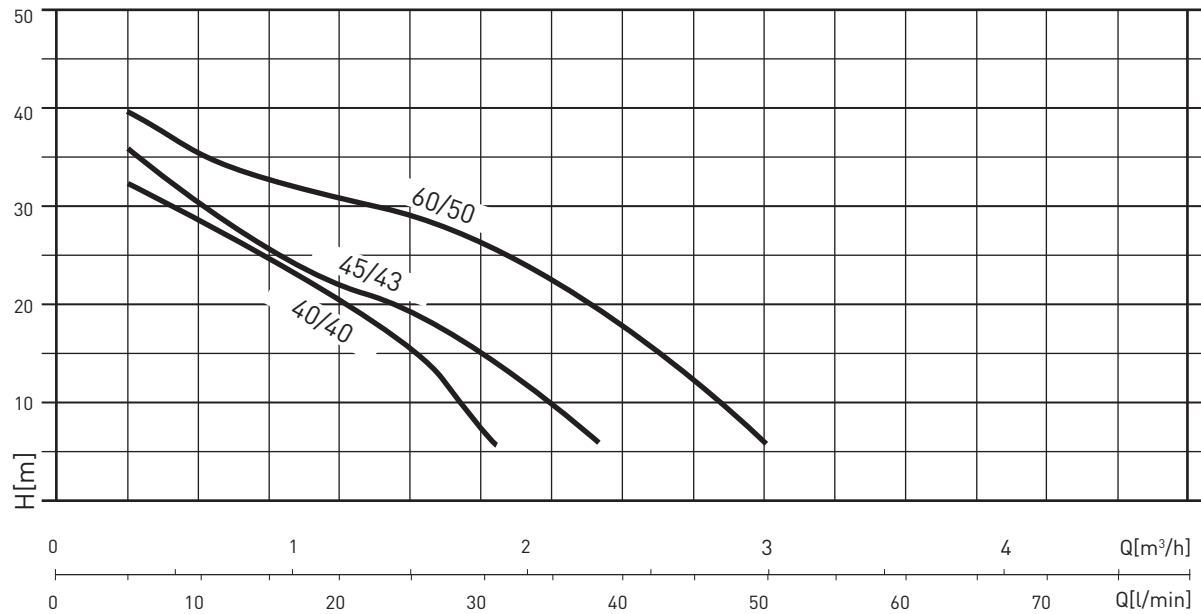
TABLE OF MATERIALS

Component		Material	
		NEW JET	JET
1	Pump body	Cast iron EN GJL 200 (ex G20)	Cast iron EN GJL 200 (ex G20)
2	Motor bracket	Aluminum	Cast iron EN GJL 200 (ex G20)
3	Impellers	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (AISI 304)	Technopolymer models 600-800-1000
			Molded brass alloy models 100-160-800-1000
4	Diffuser-Venturi pipe nozzle	Monobloc unit Technopolymer	Technopolymer
5	Motor shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	Stainless steel X 12 CrNiS 1809(AISI 416)
6	Mechanical gasket	Graphite	Graphite
7	Counterface	Ceramic	Ceramic
8	Seals	NBR 70 shore	NBR 70 shore

NOCCHI JET

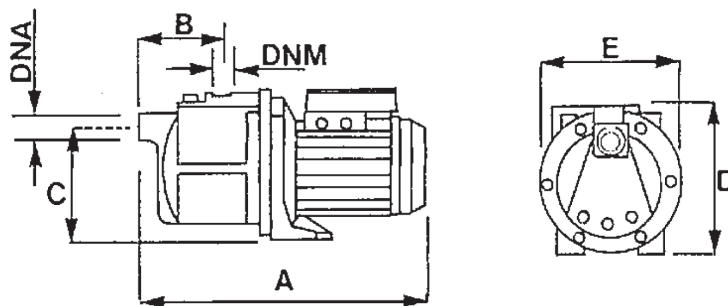
SELF-PRIMING PUMPS IN CAST IRON

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min	0	10	20	30	40	50
	HP	kW	HP	kW					m³/h	0	0.6	1.2	1.8	2.4	3
NEWJET 40/40 M	0.5	0.37	0.8	0.6	1 ~ 220 - 240 V	3	6	m.c.a. / m.w.c.	41	28	21	8			
NEWJET 45/43 M	0.5	0.37	0.8	0.6	1 ~ 220 - 240 V	3	8		43	30	23	16	1		
NEWJET 60/50 M	0.75	0.35	1.1	0.8	1 ~ 220 - 240 V	4	12.5		43	36	31	26	18	6	



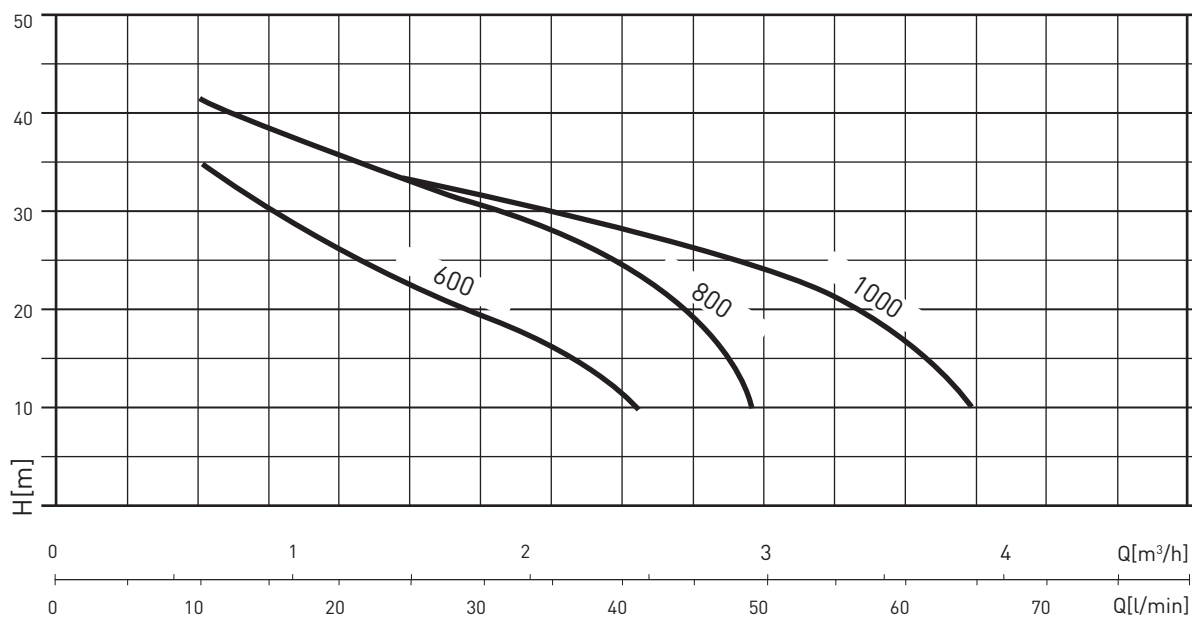
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
NEWJET 40/40	351	93	130	180	174	1"	1"	8.2
NEWJET 45/43	351	93	130	180	174	1"	1"	8.2
NEWJET 60/50	351	93	130	180	174	1"	1"	9

NOCCHI JET

SELF-PRIMING PUMPS IN CAST IRON

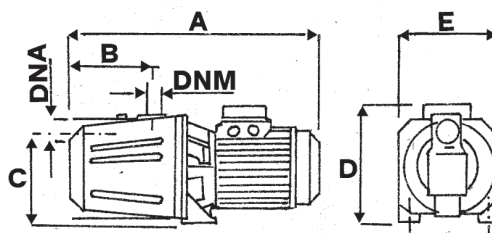
HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min	5	20	30	40	50	60	70
	HP	kW	HP	kW					m³/h	0.3	1.2	1.8	2.4	3	3.6	4.2
JET 600 M JET 600 T	0.8	0.6	0.9	0.7	1 ~ 220 - 240 V 3 ~ 230 - 400 V	3.2 1.9-1.1	8	m.c.a./m.w.c.	38	25	20	11				
JET 800 M JET 800 T	1	0.75	1.3	1	1 ~ 220 - 240 V 3 ~ 230 - 400 V	4.5 3.6-2.1	12.5		44	36	31	27	7			
JET 800 M O * JET 800 T O *	1	0.75	1.3	1	1 ~ 220 - 240 V 3 ~ 230 - 400 V	4.5 3.6-2.1	12.5		44	36	31	27	7			
JET 1000 M JET 1000 T	1.36	1	1.5	1.1	1 ~ 220 - 240 V 3 ~ 230 - 400 V	5 3.8-2.2	16		45	36	32	28	25	15	3	
JET 1000 M O * JET 1000 T O *	1.1	0.8	1.5	1.1	1 ~ 220 - 240 V 3 ~ 230 - 400 V	5 3.8-2.2	16		45	36	32	28	25	15	3	

* Version with brass impeller



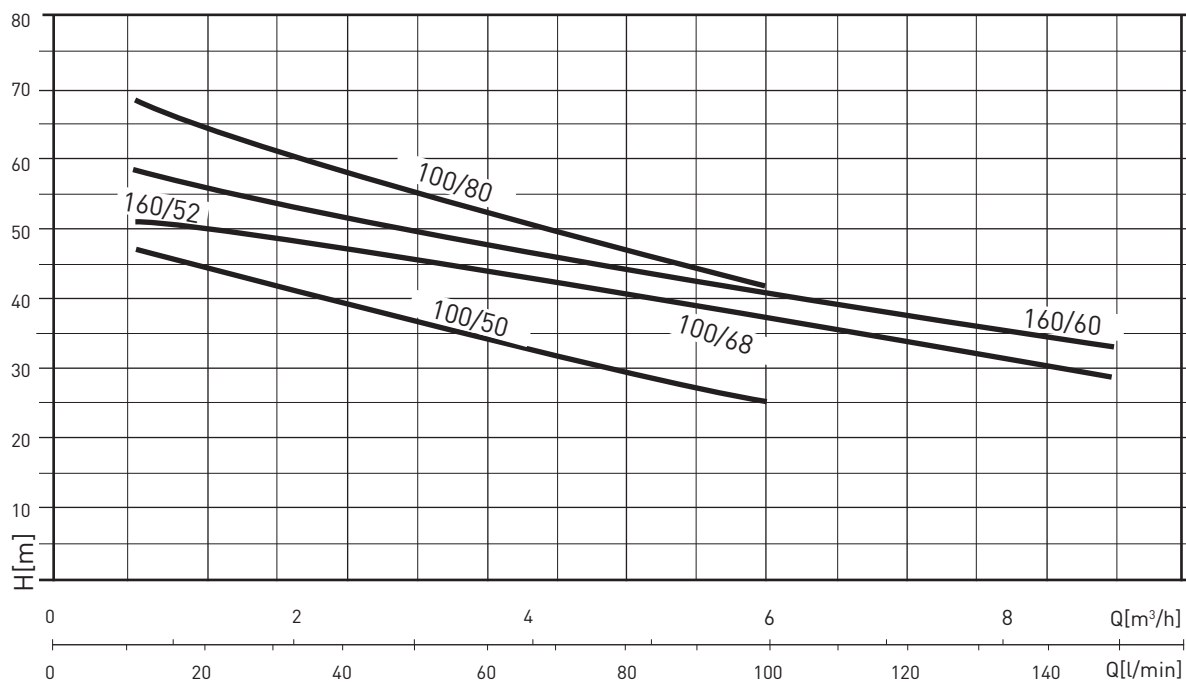
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
JET 600	400	147	160	190	182	1"	1"	13.7
JET 800	400	147	160	190	182	1"	1"	14.2
JET 1000	425	147	160	190	182	1"	1"	16.8

NOCCHI JET

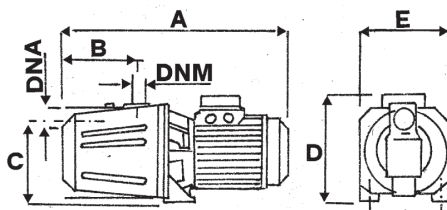
SELF-PRIMING PUMPS IN CAST IRON

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min m³/h	5	20	40	60	80	100	130	160
	HP	kW	HP	kW						0.3	1.2	2.4	3.6	4.8	6	7.8	9.6
JET 100/50 M JET 100/50 T	1.5	1.1	2.2 2.4	1.7 1.8	1 ~ 230 V 3 ~ 230 - 400 V	8.1 5.5-3.2	35	m.c.a./m.w.c.	50	45	40	35	31	27			
JET 100/68 M JET 100/68 T	2	1.5	2.8 2.4	2.1 2.8	1 ~ 230 V 3 ~ 230 - 400 V	9.8 5.5-3.2	40		60	55.5	49	47.5	34.5	30.5			
JET 100/80 T	3	2.2	3.5	2.6	3 ~ 230 - 400 V	8.1-4.7			70	64.3	58	51.5	46.5	42			
JET 160/52 M JET 160/52 T	2	1.5	3.1 2.8	2.3 2.1	1 ~ 230 V 3 ~ 230 - 400 V	10.5 6.9-4.0	40		52	49.5	48	45	42	38.7	33.2	27	
JET 160/60 T	3	2.2	3.5	2.6	3 ~ 230 - 400 V	8.1-4.7			59	55.6	53	47	43.4	40	36	32.5	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)										Weight (kg)
	A	B	C	D	E	F	H1	H2	DNA	DNM	
JET 100/50	177.5	157	495	220	180	247	170	223	1" 1/2	1"	26
JET 100/68 - 160/52	177.5	157	508	220	180	247	170	223	1" 1/2	1"	27
JET 100/80 - 160/60	177.5	157	508	220	180	229	170	223	1" 1/2	1"	28

NOCCHI MULTINOX-XC MULTI-CELL CENTRIFUGAL PUMPS

EASY PRIMING, MAXIMUM RELIABILITY

MULTINOX-XC horizontal multi-stage centrifugal pumps offer the following advantages: optimal hydraulic performance in terms of pressure and flow rate, minimum electric consumption, ultra-silent operation.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Fire fighting systems.
- Washing, irrigation.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 5 m with foot valve.
- Maximum operating pressure: 7 bar.

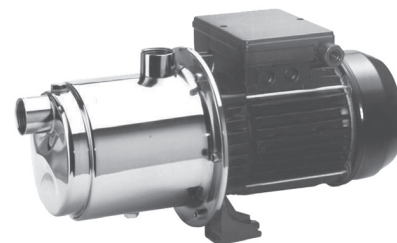
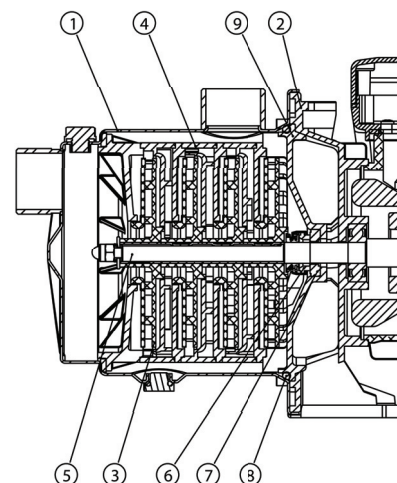


TABLE OF MATERIALS

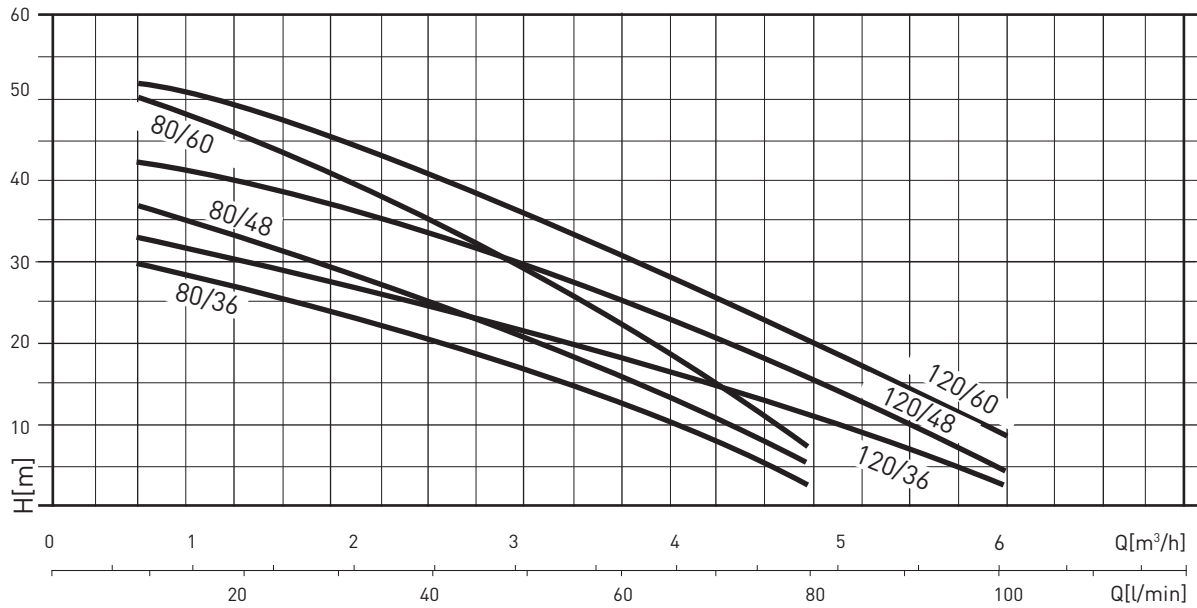
Component		Material
1	Casing	Stainless steel X5 CrNi 18-10 (AISI 304)
2	Motor bracket	Die cast aluminum
3	Impellers	Technopolymer with shim ring in stainless steel
4	Diffusers	Technopolymer
5	Shaft (hydraulic section)	Cast iron EN GJL 200 (ex G20)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Seals	NBR 70 shore
9	Seal holder base	GNF 2V Noryl



NOCCHI MULTINOX-XC

MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE

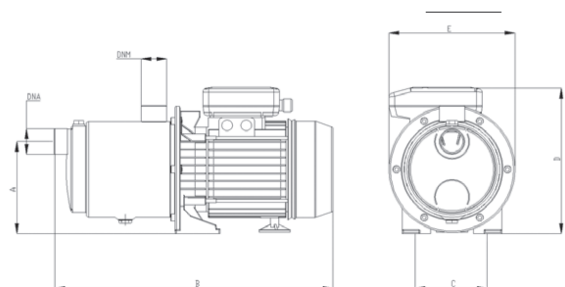


PERFORMANCE TABLE

MODEL	Motor out-put (P2)		Motor out-put (P1)		VOLT	In (A)	μF	Q	L/ min	10	20	30	40	50	60	80	100
	HP	kW	HP	kW					m³/h	0.6	1.2	1.8	2.4	3	3.6	4.8	6
MULTINOX-XC 80/36M MULTINOX-XC 80/36T	0.58	0.43	0.87	0.65	1 ~ 230 V 3 ~ 230 - 400 V	2.9 23 - 1.3	12.5	m.c.a. / m.w.c.	30	27	24	21	17	13	3		
MULTINOX-XC 80/48M MULTINOX-XC 80/48T	0.75	0.55	1.1	0.8	1 ~ 230 V 3 ~ 230 - 400 V	3.7 3 - 1.7	12.5		37	34	30	25	21	15	4		
MULTINOX-XC 80/60M MULTINOX-XC 80/60T	1.1	0.8	1.5	1.1	1 ~ 230 V 3 ~ 230 - 400 V	4.5 3.2 - 1.8	20		50	46	42	36	30	22	7		
MULTINOX-XC 120/36M MULTINOX-XC 120/36T	0.75	0.55	1.1	0.8	1 ~ 230 V 3 ~ 230 - 400 V	3.7 3.2 - 1.8	12.5		33	31	29	26	22	19	10	2	
MULTINOX-XC 120/48M MULTINOX-XC 120/48T	1.1	0.75	1.5	1.1	1 ~ 230 V 3 ~ 230 - 400 V	4.5 3.3 - 2	16		42	39	37	34	30	25	15	4	
MULTINOX-XC 120/60M MULTINOX-XC 120/60T	1.2	0.9	1.8 1.67	1.35 1.25	1 ~ 230 V 3 ~ 230 - 400 V	6 3.8 - 2.2	20		53	49	47	42	38	32	20	7	

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
MULTINOX-XC 80/36	129	348	99	195	176	1"	1"	7.5
MULTINOX-XC 80/48	129	348	99	195	176	1"	1"	8
MULTINOX-XC 80/60	129	392	99	205	176	1"	1"	11
MULTINOX-XC 120/36	129	370	99	205	176	1"	1"	9
MULTINOX-XC 120/48	129	370	99	205	176	1"	1"	10
MULTINOX-XC 120/60	129	392	99	205	176	1"	1"	11



NOCCHI MCX

MULTI-CELL CENTRIFUGAL PUMPS

TOP HYDRAULIC PRESSURE AND FLOW PERFORMANCE, MINIMAL ELECTRICAL CONSUMPTION, ULTRA-SILENT OPERATION

MCX series horizontal multi-cell centrifugal pumps

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Fire fighting systems.
- Washing, irrigation.

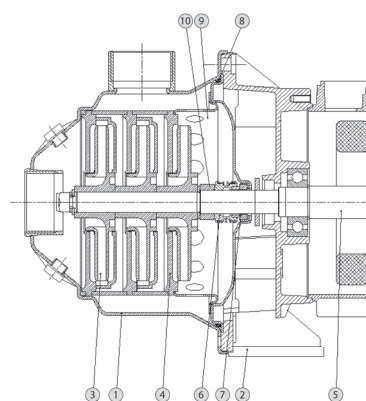
APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 6 m with foot valve.
- Maximum operating pressure: 7 bar.



TABLE OF MATERIALS

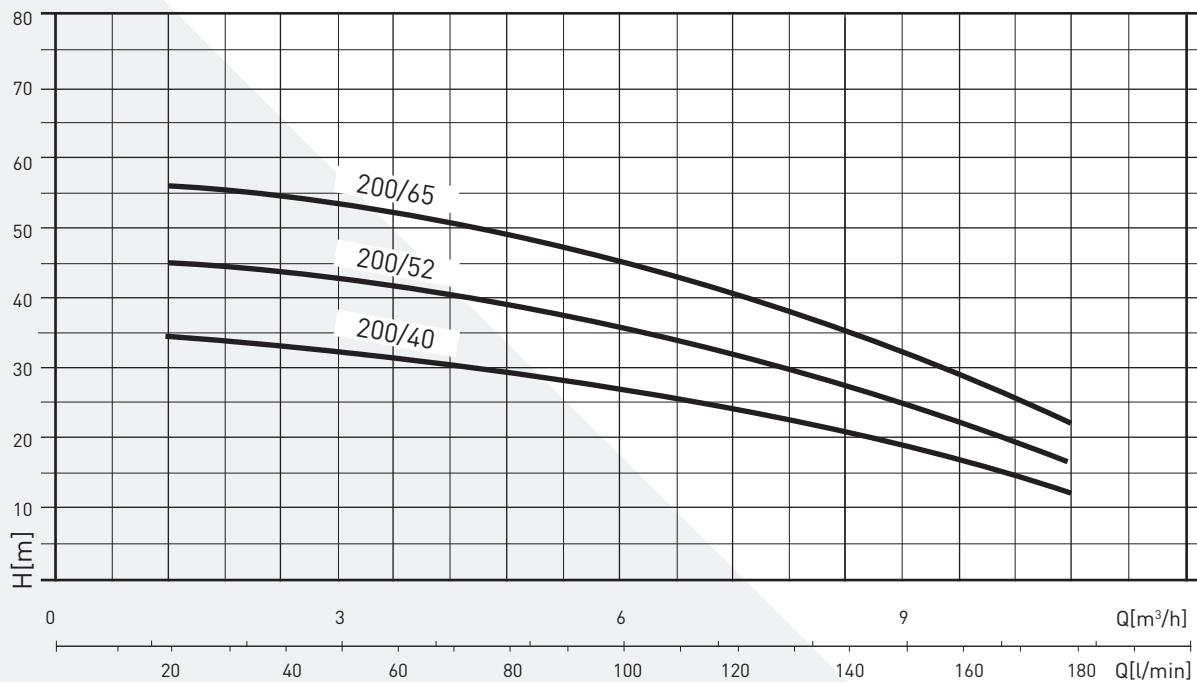
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Motor bracket	Die cast aluminum
3	Impellers	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (AISI 304)
4	Diffusers	Technopolymer
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Seals	NBR 70 Shore
9	Seal holder base	Noryl GNF 2V (stainless steel on 200-liter version)
10	Spacer	Stainless steel X 10 CrNiS 1809 (AISI 303)



NOCCHI MCX

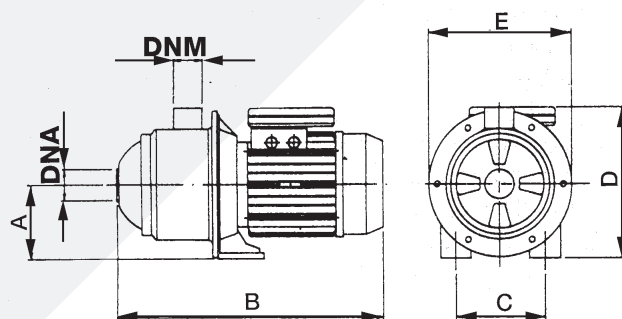
MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	µF	Q	L/ min	20	60	100	140	180
	HP	kW	HP	kW					m³/h	1.2	3.6	6	8.4	10.8
MCX 200/40 M MCX 200/40 T	1.4	1	1.9 1.7	1.4 1.3	1 ~ 230 V 3 ~ 230 - 400 V	6.3 4-2.3	20	m.c.a. / m.w.c.		33.7	32.1	27.6	21.5	13.1
MCX 200/52 M MCX 200/52 T	1.6	1.2	2.4 2.3	1.8 1.7	1 ~ 230 V 3 ~ 230 - 400 V	8.5 5.7-3.3	25			44.9	42.8	36.8	28.6	17.5
MCX 200/65 M MCX 200/65 T	2	1.5	3 2.8	2.2 2.1	1 ~ 230 V 3 ~ 230 - 400 V	9.5 7.3-4.2	35			56.1	53.4	46	35.8	21.8



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
MCX 200/40	105	400	141	235	205	1" 1/4	1" 1/4	14
MCX 200/52	105	430	141	235	205	1" 1/4	1" 1/4	16
MCX 200/65	105	460	141	235	205	1" 1/4	1" 1/4	18

NOCCHI MAX

MULTI-CELL SELF-PRIMING CENTRIFUGAL PUMPS

The self-priming pumps in the MAX range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps. The self-priming system and multi-stage hydraulics guarantee optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Fire fighting systems.
- Washing, irrigation.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 7 m with foot valve.
- Maximum operating pressure: 7 bar.

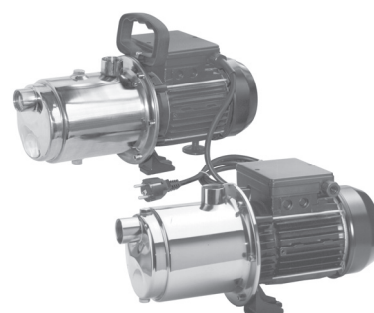
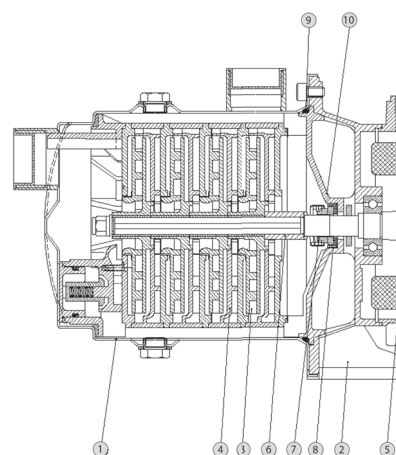


TABLE OF MATERIALS

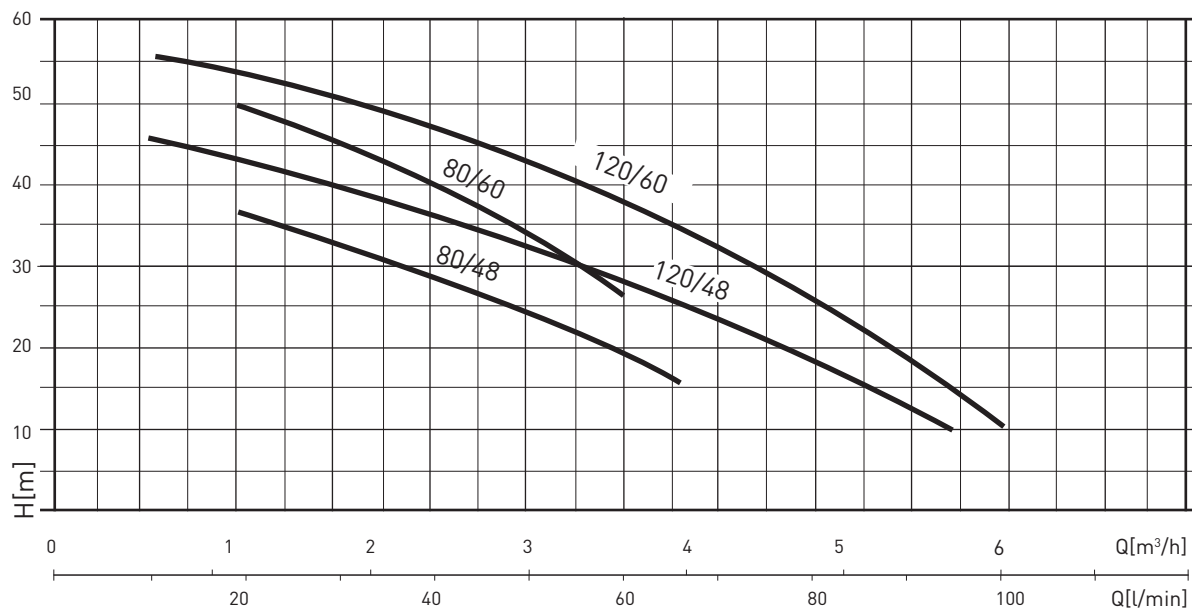
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Motor bracket	Die cast aluminum
3	Impellers	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (AISI 304)
4	Diffusers	Technopolymer
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304)
6	Spacer	Nickel-plated brass OT 58
7	Mechanical gasket	Graphite
8	Counterface	Ceramic
9	Seals	NBR 70 Shore
10	Seal holder base	Noryl GFN2V



NOCCHI MAX

MULTI-CELL SELF-PRIMING CENTRIFUGAL PUMPS

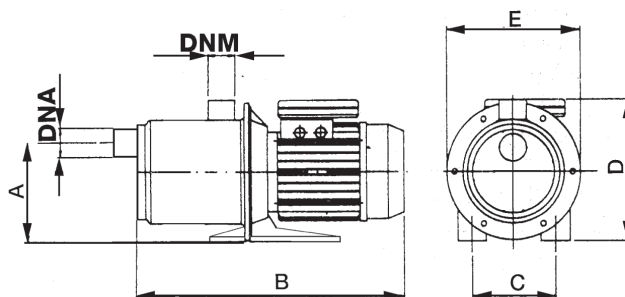
HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min	0	20	40	60	80	100
	HP	kW	HP	kW					m³/h	0	1.2	2.4	3.6	4.8	6
MAX 80/48 M MAX 80/48 T MAX 80/48 C	0.75	0.55	1.1	0.8	1 ~ 230 V 3 ~ 230 - 400 V 1 ~ 230 V	4 2.6-1.5 4	12.5	m.c.a. / m.w.c.	45	36	28	17	1		
MAX 80/60 M MAX 80/60 T	1	0.75	1.3	1	1 ~ 230 V 3 ~ 230 - 400 V	4.8 2.9-1.7	16		57	50	40	27	3		
MAX 120/48 M MAX 120/48 T	1	0.75	1.5	1.1	1 ~ 230 V 3 ~ 230 - 400 V	4.6 3.6-2.1	16		48	42	37	27	18	5	
MAX 120/60 M MAX 120/60 T MAX 120/60 C*	1.2	0.9	1.7	1.25	1 ~ 230 V 3 ~ 230 - 400 V 1 ~ 230 V	5.8 3.5-2 5.8	20		60	55	48	36	26	10	

* Version complete with cable, Schuko plug, handle and switch



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
MAX 80/48	129	370	99	182	176	1"	1"	8
MAX 80/60	129	392	99	182	176	1"	1"	8
MAX 120/48	129	393	99	192	176	1"	1"	10
MAX 120/60	129	392	99	182	176	1"	1"	11

NOCCHI MULTINOX-A

MULTI-CELL SELF-PRIMING CENTRIFUGAL PUMPS



RUGGED AND RESISTANT, SELF-PRIMING, OPTIMAL SUCTION CAPACITY, SPECIAL BRASS VALVE, PATENTED FOR CLOSURE DURING PRIMING PHASE

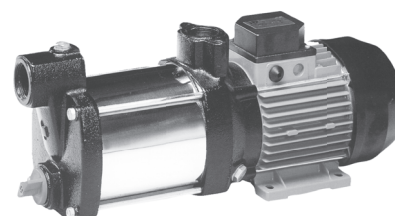
MULTINOX-A horizontal multi-stage self-priming centrifugal pumps are ideal for reaching significant pressure and flow rates with low noise operation and minimal power consumption.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Lifting and distribution of water in domestic systems, with continuous or intermittent duty.
- Pressure booster systems.
- Washing, garden irrigation, fountains.

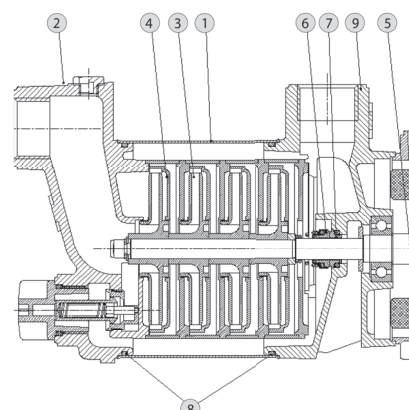


APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 8 m with foot valve.
- Maximum operating pressure: 9 bar.

TABLE OF MATERIALS

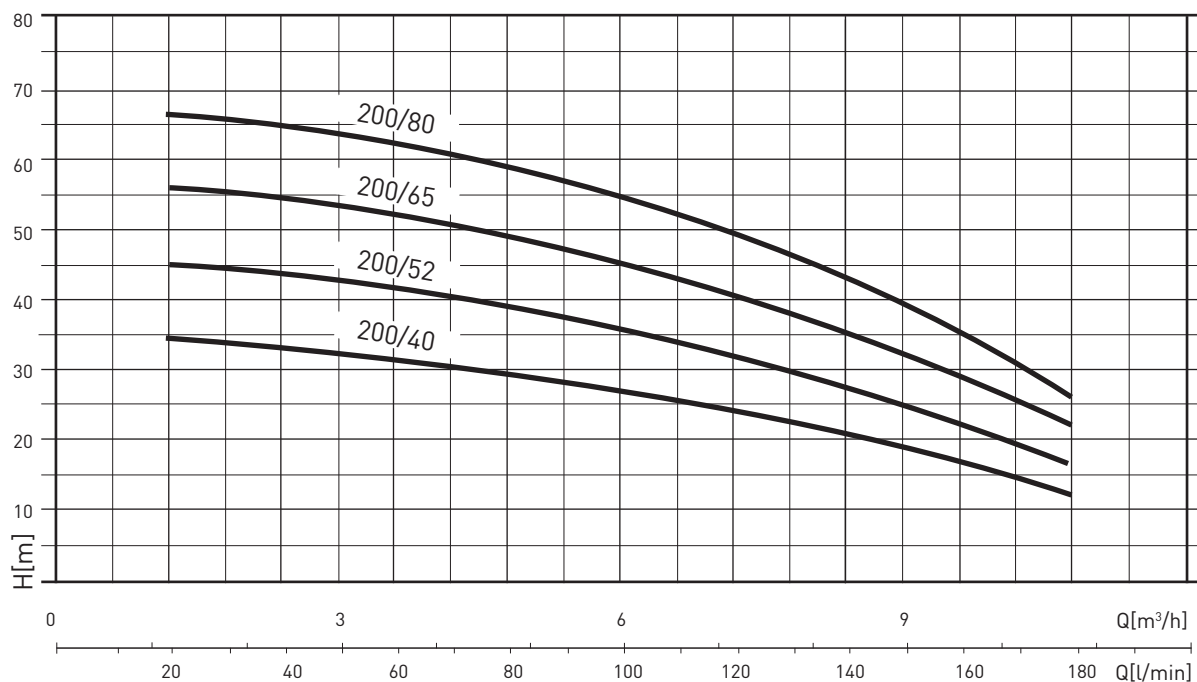
Component		Material
1	Casing (pump body)	Stainless steel X5 CrNi 1810 (AISI 304)
2	Suction flange	Cast iron EN GJL 200 (ex G20)
3	Impellers	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (AISI 304)
4	Diffusers	Technopolymer
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Seals	NBR 70 shore
9	Delivery flange Motor bracket	Cast iron EN GJL 200 (ex G20)



NOCCHI MULTINOX-A

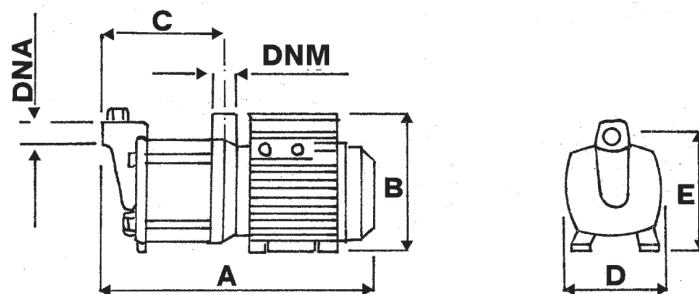
MULTI-CELL SELF-PRIMING CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	µF	Q	L/min	20	60	100	140	180
	HP	kW	HP	kW					m³/h	1.2	3.6	6	8.4	10.8
MULTINOX-A 200/40 M MULTINOX-A 200/40 T	1.4	1	1.9 1.7	1.4 1.3	1 ~ 220 - 400 V 3 ~ 230 - 400 V	6.3 4-2.3	20	m.c.a. /m.w.c.		33.7	32.1	27.6	21.5	13.1
MULTINOX-A 200/52 M MULTINOX-A 200/52 T	1.6	1.2	2.4 2.3	1.8 1.7	1 ~ 220 - 400 V 3 ~ 230 - 400 V	8.5 5.7-3.3	25			44.9	42.8	36.8	28.6	17.5
MULTINOX-A 200/65 M MULTINOX-A 200/65 T	2	1.5	3 2.8	2.2 2.1	1 ~ 220 - 400 V 3 ~ 230 - 400 V	9.5 7.3-4.2	35			56.1	53.4	46	35.8	21.8
MULTINOX-A 200/80 T	2.3	1.7	3.2	2.4	3 ~ 230 - 400 V	8.3-4.8				67.3	64.1	55.2	42.9	26.2



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
MULTINOX-A 200/40	441	200	188	155	170	1" 1/4	1" 1/4	19
MULTINOX-A 200/52	469	200	215	155	170	1" 1/4	1" 1/4	21
MULTINOX-A 200/65	497	200	243	155	170	1" 1/4	1" 1/4	23
MULTINOX-A 120/48	525	200	270	155	170	1" 1/4	1" 1/4	25

NOCCHI MULTINOX-VE

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

SUPERIOR HYDRAULIC EFFICIENCY, ROBUST AND RESISTANT



The MULTINOX-VE series of vertical multi-cell centrifugal pumps are the ideal solution for use in lifting stations, above all where optimal performance and silent operation are needed with a compact overall layout.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 6 m with foot valve.
- Maximum operating pressure: 9 bar.
- 12 bar (version MULTINOX-VE 200/110)
- 20 bar (version MULTINOX-VE 200/140)

APPLICATIONS

- Lifting and distribution of water in domestic systems, with continuous or intermittent duty.
- Pressure booster systems.
- Fire fighting systems.
- Washing, garden irrigation, fountains.

MOTOR

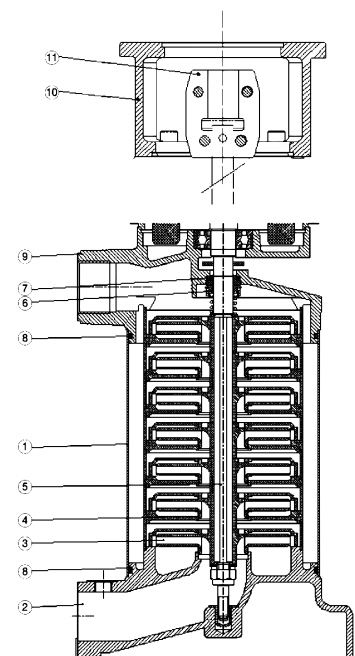
- Closed, ventilated from exterior.
- Protection rating IP 44.
IP55 MULTINOX-VE 200/110.
IP55 MULTINOX-VE 200/140.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.



MULTINOX 200/110 T
MULTINOX 200/140 T

TABLE OF MATERIALS

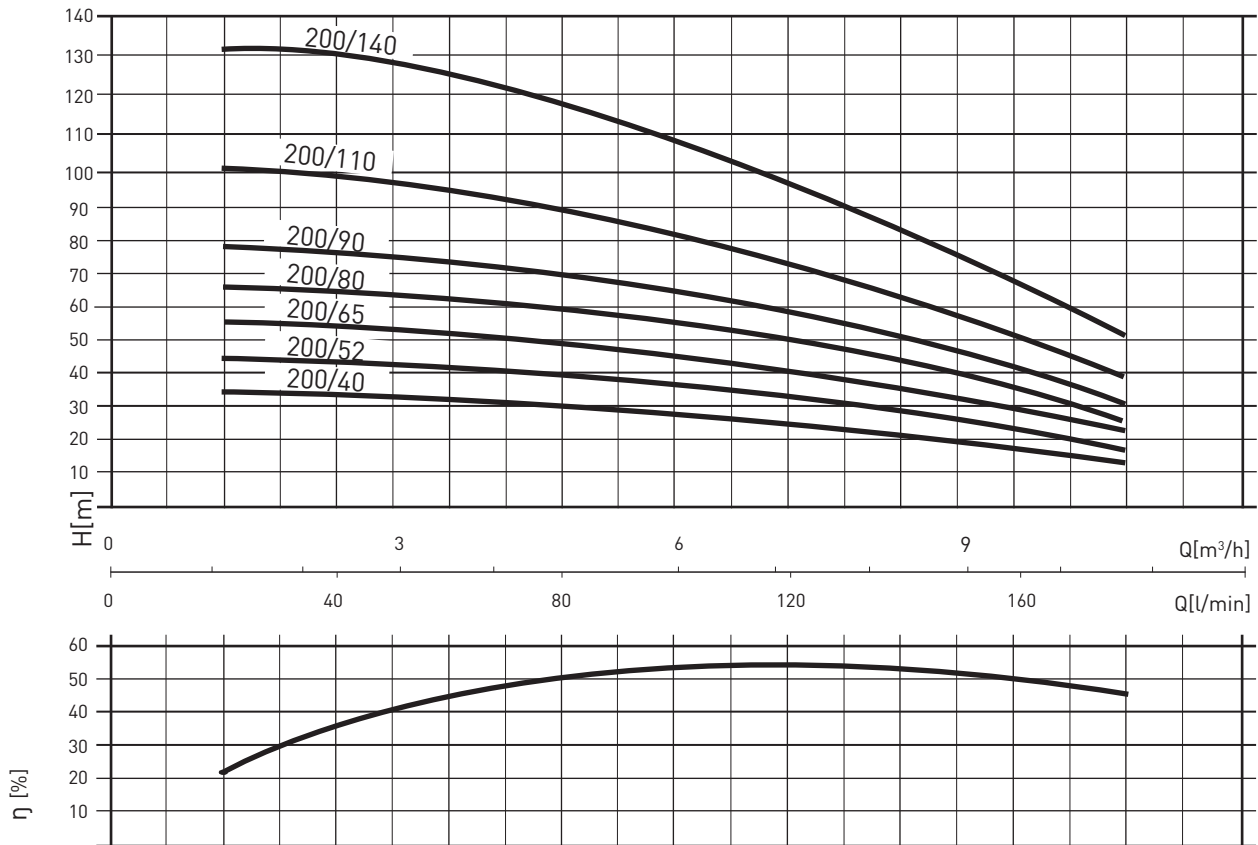
Component		Material
1	Casing (pump body)	Stainless steel X5 CrNi 1810 (AISI 304)
2	Suction flange	Cast iron EN GJL 200 (ex G20)
3	Impellers	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (Aisi 304)
4	Diffusers	Technopolymer
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Seals	NBR 70 shore
9	Motor bracket delivery flange	Cast iron EN GJL 200 (ex G20)
10	Motor housing	Grey cast iron EN GJL 200 (ex G20) Version 200/110-200/140
11	Motor coupling	Spheroidal cast iron EN GJS 400 (ex GS 400) Version 200 / 110 - 200 / 140



NOCCHI MULTINOX-VE

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



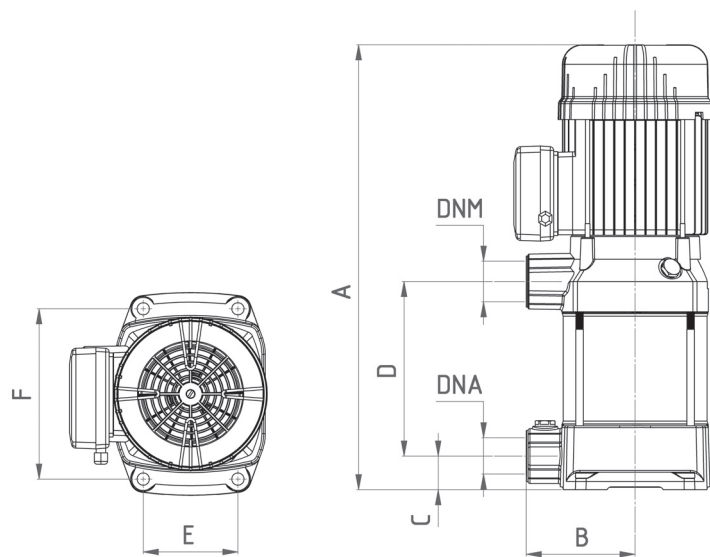
MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/ min	20	60	100	140	180
	HP	kW	HP	kW					m³/h	1.2	3.6	6	8.4	10.8
MULTINOX VE 200/40 M MULTINOX VE 200/40 T	1.35	1	1.9 1.7	1.4 1.3	1 ~ 220-240 V 3 ~ 230-400 V	6.3 4-2.3	20	m.c.a. /m.w.c.		33.7	32.1	27.6	21.5	13.1
MULTINOX VE 200/52 M MULTINOX VE 200/52 T	1.6	1.2	2.4 2.3	1.8 1.7	1 ~ 220-240 V 3 ~ 230-400 V	8.5 5.7-3.3	25			44.9	42.8	36.8	28.6	17.5
MULTINOX VE 200/65 M MULTINOX VE 200/65 T	2	1.5	3 2.8	2.2 2.1	1 ~ 220-240 V 3 ~ 230-400 V	9.5 7.3-4.2	35			56.1	53.4	46	35.8	21.8
MULTINOX VE 200/80 T	2.3	1.7	3.2	2.4	3 ~ 230-400 V	8.7-5				67.3	64.1	55.2	42.9	26.2
MULTINOX VE 200/90 T	2.5	1.9	3.8	2.8	3 ~ 230-400 V	9.5-5.5				78.6	74.8	64.4	50.1	30.6
MULTINOX VE 200/110 T	4	3	4.4	3.2	3 ~ 230-400 V	10.2-5.9				101	96.2	82.8	64.4	39.3
MULTINOX VE 200/140	5.5	4	5.4	4.8	3 ~ 230-400 V	13.5-7.8				133.7	126.3	108.5	84	51.7

NOCCHI MULTINOX-VE

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Weight (kg)
	A	B	C	D	E	F	DNA	DNM	
MULTINOX-VE 200/40	438	115	37	143	145	145	1" 1/4	1" 1/4	19
MULTINOX-VE 200/52	466	115	37	174	145	145	1" 1/4	1" 1/4	21
MULTINOX-VE 200/65	504	115	37	203	145	145	1" 1/4	1" 1/4	23
MULTINOX-VE 200/80	525	115	37	230	145	145	1" 1/4	1" 1/4	25
MULTINOX-VE 200/90	555	115	37	257	145	145	1" 1/4	1" 1/4	27
MULTINOX-VE 200/110	760	115	37	320	145	145	1" 1/4	1" 1/4	36
MULTINOX-VE 200/140	875	115	37	400	145	145	1" 1/4	1" 1/4	39

NOCCHI CM

HORIZONTAL CENTRIFUGAL PUMPS

MAXIMUM RELIABILITY, RUGGED AND RESISTANT, OPTIMAL HYDRAULIC PERFORMANCE



The CM series of single impeller centrifugal pumps are silent with optimal hydraulic performance.

APPLICATIONS

- Lifting from wells for irrigation.
- Pressure booster systems.
- Autoclaves for residential applications.
- Washing.

APPLICATION DATA

- Type of liquid: clear or slightly cloudy, non-abrasive water.
- Maximum liquid temperature: 90°C (model CM 90/22 50°C).
- Maximum recommended suction height: 5 m with foot valve.
- Maximum operating pressure:
6 bar on models HP 0.5.
8 bar on models HP 1 - 1.5 - 2.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

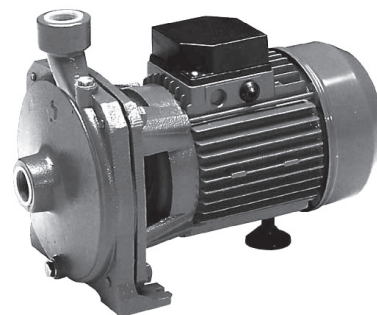


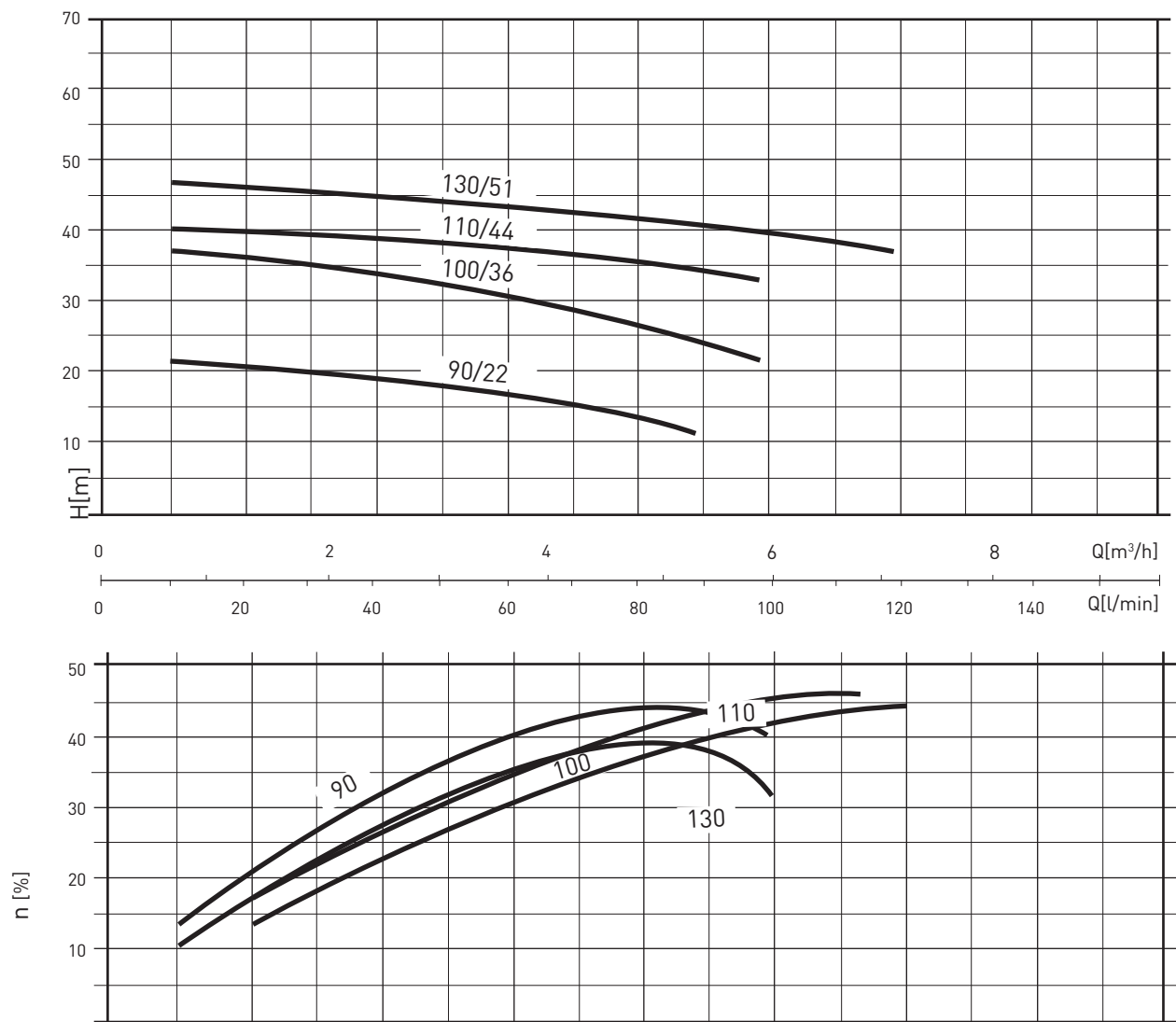
TABLE OF MATERIALS

Component	Material
Pump body	Cast iron EN GJL 200 (ex G20)
Motor bracket	Cast iron EN GJL 200 (ex G20)
Impeller	Brass (CM 90/22 in technopolymer)
Motor shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)
Mechanical gasket	Graphite
Counterface	Ceramic
Seals	NBR 70 shore

NOCCHI CM

HORIZONTAL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

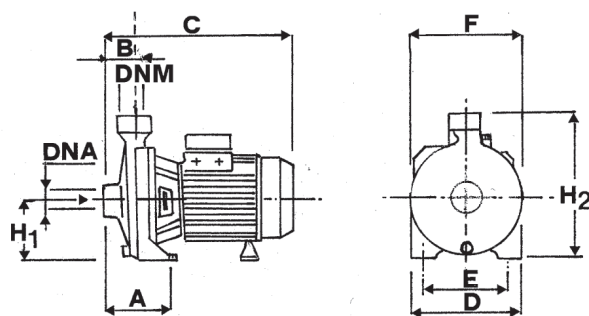
NOCCHI CM

HORIZONTAL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min	10	30	50	80	100	120
	HP	kW	HP	kW					m³/h	0.6	1.8	3	4.8	6	7.2
CM 90/22 M* CM 90/22 T*	0.5	0.35	1	0.75	1 ~ 230 V 3 ~ 230-400 V	3.6 2.4-1.4	12.5	m.c.a. / m.w.c.	22	20	18	13			
CM 100/36 M CM 100/36 T	1	0.75	1.7	1.25	1 ~ 230 V 3 ~ 230-400 V	5.5 3.8-2.2	20		35	33	31	26	22		
CM 110/44 M CM 110/44 T	1.5	1.1	2.3 2.4	1.7 1.8	1 ~ 230 V 3 ~ 230-400 V	8 5.5-3.2	35		41	40	39	36	34		
CM 130/51 M CM 130/51 T	2	1.5	3.2 2.8	2.4 2.1	1 ~ 230 V 3 ~ 230-400 V	10.3 6.9-4.0	40		47	46	45	42	40	38	

* Impeller in technopolymer



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)										Weight (kg)
	A	B	C	D	E	F	H1	H2	DNA	DNM	
CM 90/22	75	43	267	150	110	160	82	202	1"	1"	6.5
CM 100/36	82	44	310	180	140	185	107	242	1"	1"	11
CM 110/44	88	45	350	194	155	200	100	252	1"1/4	1"	20
CM 130/51	88	45	361	220	180	225	115	285	1"1/4	1"	23

NOCCHI CB

TWIN IMPELLER CENTRIFUGAL PUMPS

SUPERIOR HYDRAULIC PERFORMANCE

The two opposed impellers with balanced axial thrust ensure optimal performance, making these models ideal for civil and industrial applications, autoclave units etc.

APPLICATIONS

- Pressure booster systems.
- Small irrigation systems
- Handling of non-aggressive liquids
- Washing systems

APPLICATION DATA

- Type of liquid: clear or slightly cloudy, non-abrasive water.
- Maximum liquid temperature: 40°C from 0.55 to 0.75 kW, 90°C from 1.1 to 4.0 kW
- Maximum recommended suction height: 5 m with foot valve.
- Maximum operating pressure: 6 bar on models kW 0.55 - 0.75 10 bar on models kW 1.1 - 4

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.



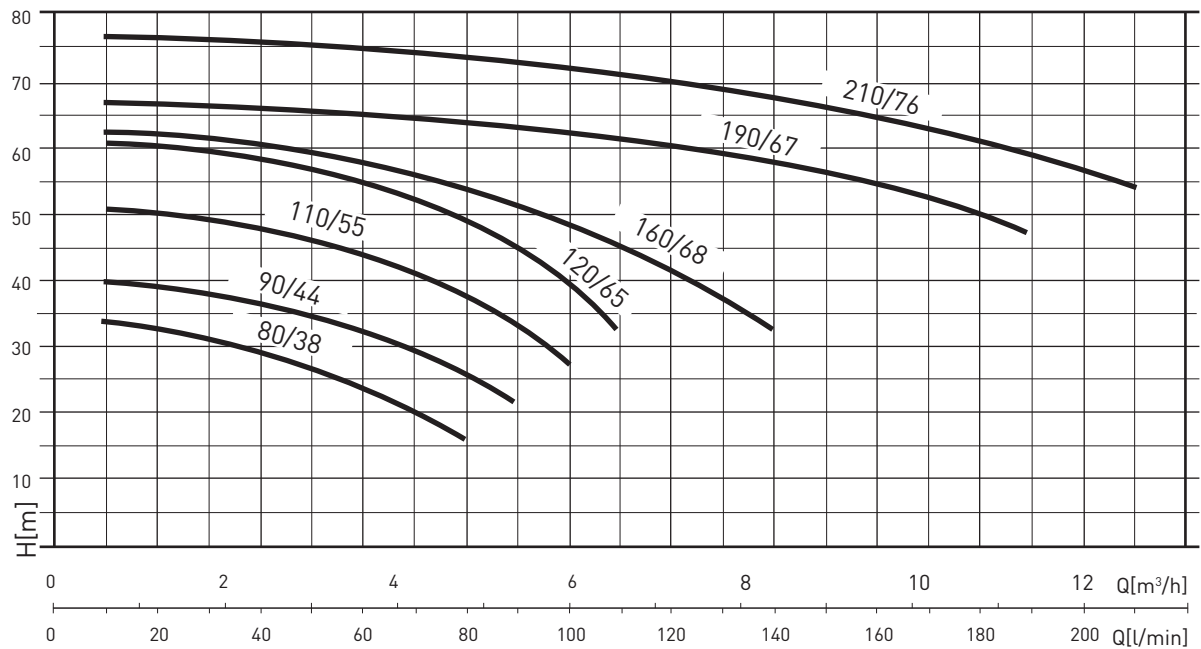
TABLE OF MATERIALS

Component	Material
Pump body	Cast iron EN GJL 200 (ex G20)
Motor bracket	Aluminum on models: kW 0.55 - 1.00 Cast iron on all other models in the range
Impeller	Technopolymer on models: kW 0.55 - 0.75 Brass on all other models in the range
Intermediate disk	Cast iron
Motor shaft	AISI 303 on models: kW 1.1 - 1.5 - 2.2 AISI 304 on models: kW 3.0 - 4.0 AISI 416 on models: kW 0.55 - 0.75
Mechanical gasket	Graphite
Counterface	Ceramic
Seal holder disk	AISI 304 on models: kW 0.55 - 0.75 Cast iron on all other models in the range
Seals	NBR

NOCCHI CB

TWIN IMPELLER CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE

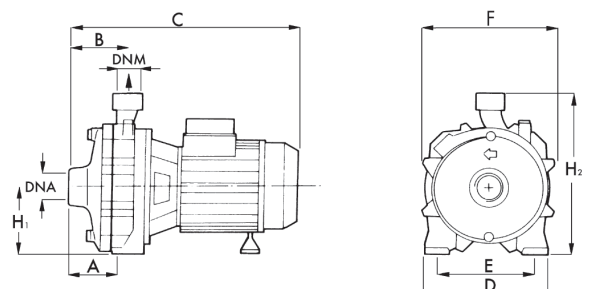


PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/ min m³/h	20	40	50	80	90	100	110	140	170	190	210	
	HP	kW	HP	kW						1.2	2.4	3.0	4.8	5.4	6.0	6.6	8.4	9.6	10.8	12.0	
CB 80/38 M CB 80/38 T	0.75	0.55	1.5 1.4	1.1 1.1	1 ~ 220 V 3 ~ 220-380 V	5 3.4-2.0	1.6	m.c.a. / m.w.c.		33	30.2	27.9	17								
CB 90/44 M CB 90/44 T	1	0.74	1.9 1.2	1.4 0.9	1 ~ 220 V 3 ~ 220-400 V	6.1 2.9-1.7	20			39.5	37	35.2	27	21							
CB 110/55 M CB 110/55 T	1.5	1.1	2.5 2.4	1.9 1.8	1 ~ 220 V 3 ~ 220-400 V	8.6 5.5-3.2	35			50.8	48.8	47.1	38.4	33.4	27.5						
CB 120/65 M CB 120/65 T	2	1.5	3.2 2.8	2.4 2.1	1 ~ 220 V 3 ~ 220-400 V	10.8 6.9-4.0	40			60.5	58.6	56.9	49.8	46.5	40.3	32.5					
CB 160/68 T	3	2.2	3.5	2.6	3 ~ 220-400 V	8.1-4.7					60.5	59.3	54.1	51.6	48.4	44.6	32				
CB 190/67 T	4	3	5.5	4.1	3 ~ 220-400 V	12.5-7.2							67	64.8	63.9	62.5	62	58	53.5		
CB 210/76 T	5	4	6.1	4.6	3 ~ 220-400 V	15.1-8.7							76.5	73.9	72.9	71.8	70.5	66.8	62	58.3	54

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)										Weight (kg)
	A	B	C	D	E	F	H1	H2	DNA	DNM	
CB 80/38	58	73	336	180	140	183	97	227	1"	1"	13.5
CB 90/44	58	73	336	180	140	183	97	227	1"	1"	15
CB 110/55	66	86	394	195	155	209	110	265	1"1/4	1"	25
CB 120/65	66	86	410	195	155	209	110	265	1"1/4	1"	27
CB 160/68	66	86	410	195	155	194	110	265	1"1/4	1"	27
CB 190/67	72	96	467	230	180	228	133	309	1"1/2	1"1/4	42.5
CB 210/76	72	96	467	230	180	228	133	309	1"1/2	1"1/4	46.3



NOCCHI WATERPRESS

PRESSURE BOOSTER UNITS WITH 24-LITER HORIZONTAL EXPANSION TANK

The WATERPRESS pressure boosters are constructed with the JET series self-priming centrifugal pumps. They are supplied pre-wired, complete with 24-liter expansion tank and ready for installation and use.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems, washing and irrigation.

DESIGN SPECIFICATIONS

- Pressure switch (max 6 bar) set to: min 2 - max 3 bar.
- Pressure gauge (6 bar).
- 3-way connector in chrome-plated molded brass (model Waterpress 70/50).
- 24-liter expansion tank in painted steel with interchangeable foodgrade rubber diaphragm.
- Hydraulic connection tuboflex hose.
- 1.5 m H05 RN-F power cable with plug.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 8 m with foot valve.
- Maximum operating pressure: 6 bar.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.

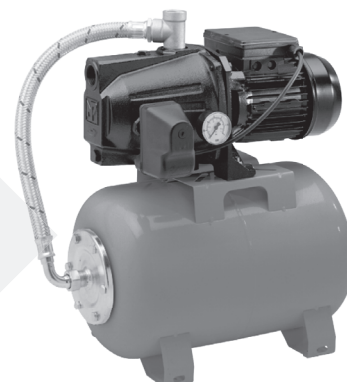


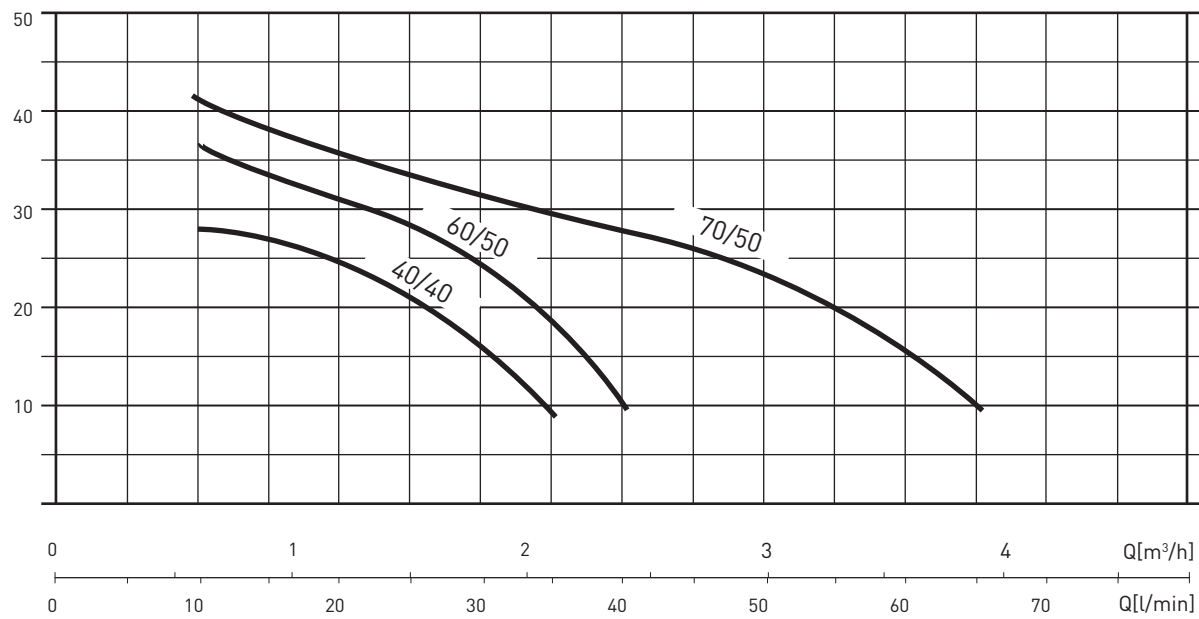
TABLE OF MATERIALS

Component	Material	
	WATERPRESS 40/40 - 60/50	WATERPRESS 70/50
Pump body	Cast iron EN GJL 200 (ex G20)	Cast iron EN GJL 200 (ex G20)
Motor bracket	Aluminum	Cast iron EN GJL 200 (ex G20)
Impellers	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (AISI 304)	Technopolymer
Diffuser-Venturi pipe nozzle	Freestanding unit Technopolymer	Technopolymer
Motor shaft	Stainless steel X5 CrNi 1810 (AISI 304)	Stainless steel X5 CrNi 1810 (AISI 304)
Mechanical gasket	Graphite	Graphite
Counterface	Ceramic	Ceramic
Seals	NBR 70 shore	NBR 70 shore

NOCCHI WATERPRESS

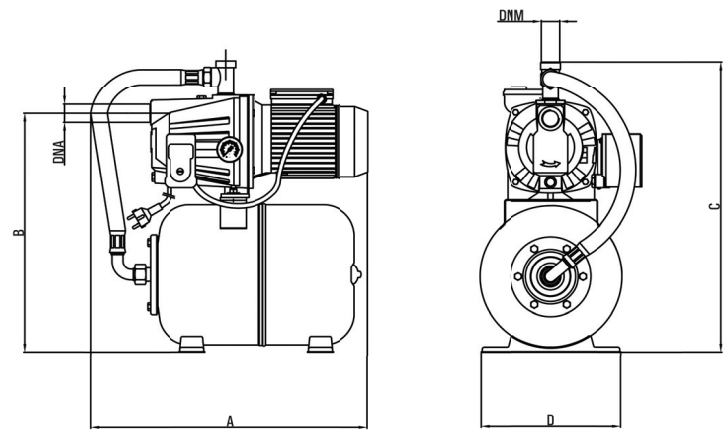
PRESSURE UNITS WITH 24-LITER HORIZONTAL EXPANSION TANK

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	µF	Q	L/ min	0	10	20	30	40	50	60	70
	HP	kW	HP	kW					m³/h	0	0.3	1.2	1.8	2.4	3	3.6	4.2
WATERPRESS 40/40M	0.50	0.37	0.80	0.60	1 ~ 220 - 240 V	3	6	m.c.a. / m.w.c.	41	28	21						
WATERPRESS 60/50	0.75	0.55	1.1	0.80	1 ~ 220 - 240 V	4	10		46	36	31	24	9	4			
WATERPRESS 70/50	1.36	1	1.5	1.1	1 ~ 220 - 240 V	5	16		49	41	36	32	28	25	15	3	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Weight (kg)
	A	B	C	D	DNA	DNM	
WATERPRESS 40/40	510	430	470	260	1" F	1" F	13.7
WATERPRESS 60/50	510	430	470	260	1" F	1" F	14.5
WATERPRESS 70/50	520	460	550	315	1" F	1" F	22.3

NOCCHI WATERPRESS INOX

PRESSURE UNITS WITH 24-LITER HORIZONTAL EXPANSION TANK

The WATERPRESS INOX pressure boosters are designed with pump models JETINOX or MAX. They are supplied pre-wired, complete with 24-liter expansion tank and ready for installation and use.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Washing and irrigation.

DESIGN SPECIFICATIONS

- Pressure switch (max 6 bar) set to: min 2 - max 3 bar.
- Pressure gauge (6 bar).
- 5-way connector in chrome-plated molded brass.
- 24-liter expansion tank in painted steel with interchangeable foodgrade rubber diaphragm.
- Hydraulic connection tuboflex hose.
- 1.5 m H05 RN-F power cable with plug.

APPLICATION DATA

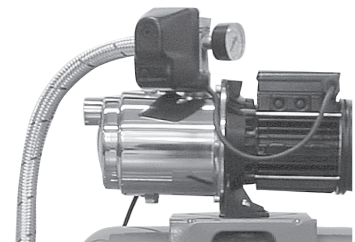
- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 8 m with foot valve. (7 m for model WP INOX 80/48)
- Maximum operating pressure: 6 bar.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.

TABLE OF MATERIALS

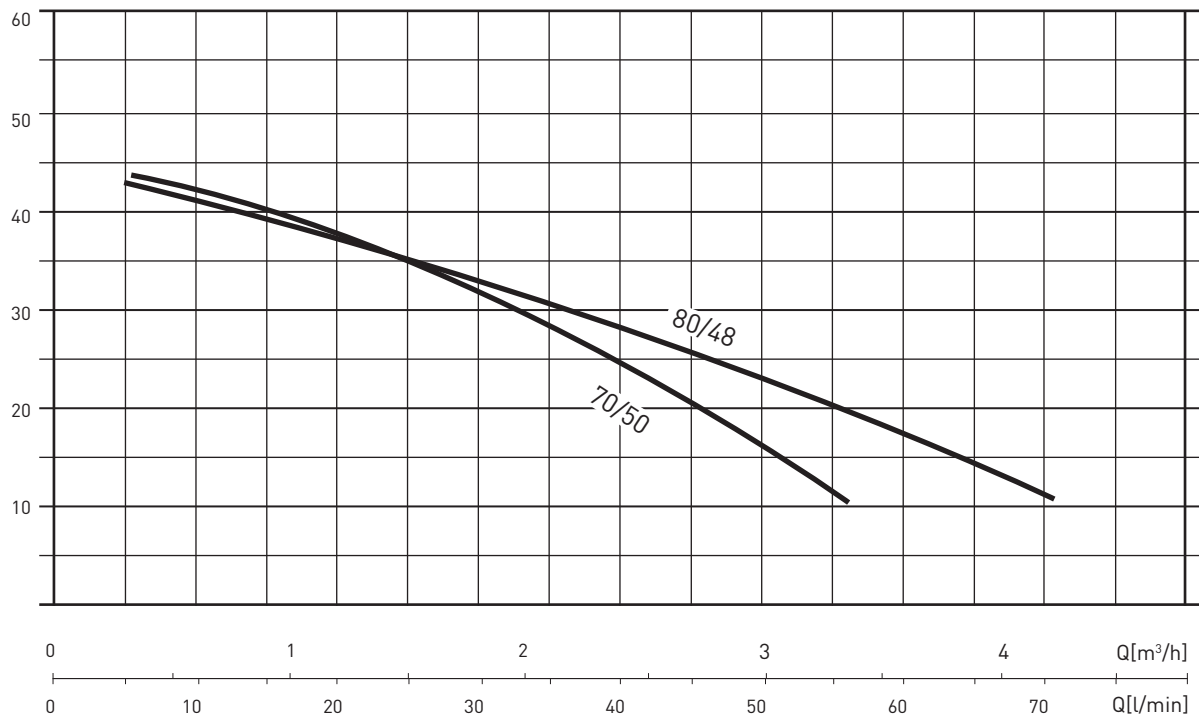
Component	Material	
	WP INOX 70/50	WP INOX 80/48
Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	Stainless steel X5 CrNi 1810 (AISI 304)
Motor bracket	Die cast aluminum	Die cast aluminum
Impellers	Technopolymer with shim ring in stainless steel	Technopolymer with shim ring in stainless steel
Diffuser-Venturi pipe nozzle	Technopolymer	-
Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	hydraulic section Stainless steel X5 CrNi 1810 (AISI 304)
Mechanical gasket	Graphite	Graphite
Counterface	Ceramic	Ceramic
Seals	NBR 70 shore	NBR 70 shore



NOCCHI WATERPRESS INOX

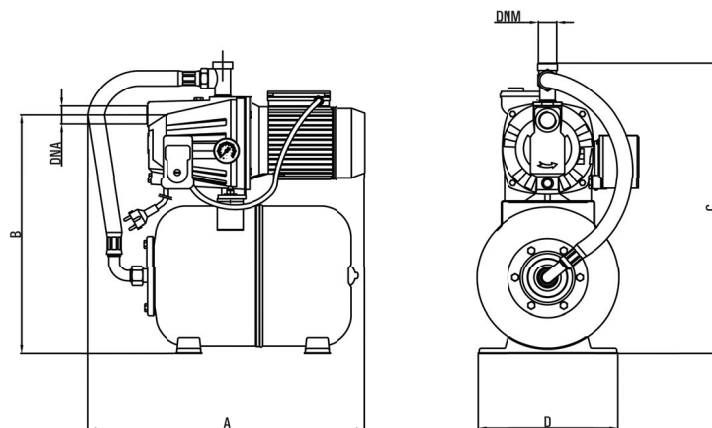
PRESSURE UNITS WITH 24-LITER HORIZONTAL EXPANSION TANK

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min m³/h	0	20	40	60	80
	HP	kW	HP	kW						0	1.2	2.4	3.6	4.8
WP INOX 70/50	0.95	0.7	1.36	1.0	1 ~ 230 V	4.5	16	m.c.a. / m.w.c.	48	37.5	25	7		
WP INOX 80/48	0.75	0.55	1.1	0.80	1 ~ 230 V	4	12.5		45	36	28	17	1	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Weight (kg)
	A	B	C	D	DNA	DNM	
WATERPRESS INOX 70/50	520	445	565	260	1" F	1" F	13.8
WATERPRESS INOX 80/48	520	430	550	260	1" F	1" F	12.3

NOCCHI WATERPRESS INOX 50 L

PRESSURE UNITS WITH 50-LITER HORIZONTAL EXPANSION TANK

WATERPRESS INOX 50L pressure boosters are designed with electric self-priming multi-cell centrifugal pump models MAX. They are supplied pre-wired, complete with 50-liter expansion tank and ready for installation and use.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems, washing and irrigation.

DESIGN SPECIFICATIONS

- WP INOX 80/48 - 50 L: electro-mechanical pressure switch (max 6 bar) set to min 2 - max 3 bar.
- WP INOX 120/60 - 50 L: electronic control and safety pressure switch AQUA TROL.
- Pump start-up pressure settable from 1.5 to 3 bar
- Pressure gauge (6 bar).
- 5-way connector in chrome-plated molded brass.
- 50-liter expansion tank in painted steel with interchangeable foodgrade rubber diaphragm.
- Hydraulic connection tuboflex hose.
- 1.5 m H05 RN-F power cable with plug.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 7 m with foot valve.
- Maximum operating pressure: 7 bar.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.



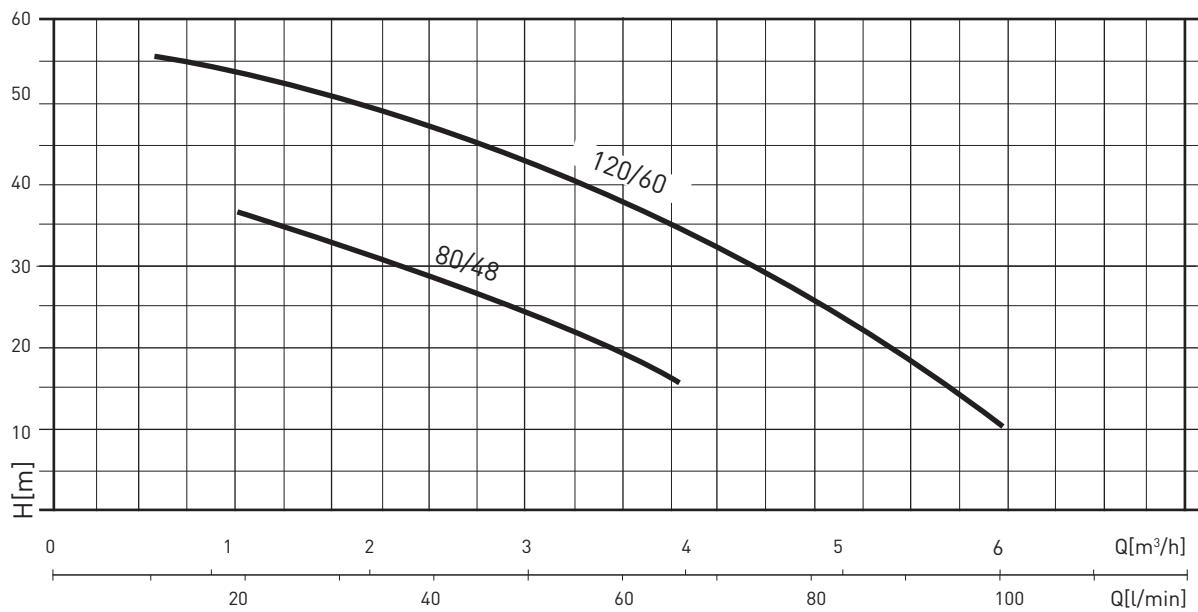
TABLE OF MATERIALS

Component	Material
Pump body	Stainless steel X5 CrNi 1810 (AISI304)
Motor bracket	Die cast aluminum
Impellers	Technopolymer with shim ring in stainless steel
Diffusers	Technopolymer
Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304)
Mechanical gasket	Graphite
Gasket backing plate	Technopolymer
Seals	NBR 70 Shore
O-rings	NBR 70 Shore

NOCCHI WATERPRESS INOX 50 L

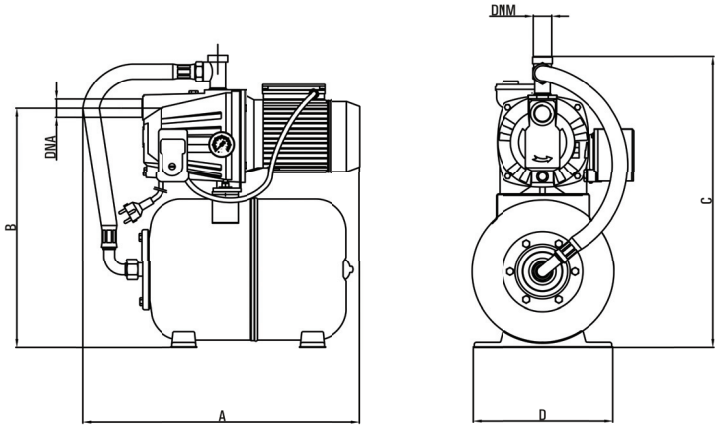
PRESSURE UNITS WITH 50-LITER HORIZONTAL EXPANSION TANK

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	µF	Q	L/min	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1.2	2.4	3.6	4.8
WP INOX 80/48 - 50 L	0.75	0.55	1.1	0.80	1 ~ 230 V	4	12.5	m.c.a. / m.w.c.	45	36	28	17	1	
WP INOX 120/60 - 50 L	1.2	0.9	1.7	1.25	1 ~ 230 - 240 V	5.8	20		60	55	48	36	26	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Weight (kg)
	A	B	C	D	DNA	DNM	
WATERPRESS 80/48	640	520	640	370	1" F	1" F	18
WATERPRESS 120/60	640	520	640	370	1" F	1" F	21

NOCCHI WATERPRESS SUPERINOX

PRESSURE UNITS WITH 24-LITER HORIZONTAL EXPANSION TANK

The WATERPRESS SUPERINOX pressure boosters are designed with self-priming centrifugal pump models JETINOX or MAX. They are supplied pre-wired and complete with stainless steel expansion tank.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Washing and irrigation.

DESIGN SPECIFICATIONS

- Pressure switch (max 6 bar) set to: min 2 - max 3 bar.
- Pressure gauge (6 bar).
- 5-way connector in chrome-plated molded brass.
- 24-liter expansion tank in stainless steel with interchangeable foodgrade rubber diaphragm.
- Hydraulic connection tuboflex hose.
- 1.5 m H05 RN-F power cable with plug.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height with foot valve: 8 m WP Superinox 60/50 ; 7 m WP Superinox 120/60
- Maximum operating pressure: 6 bar WP Superinox 60/50 ; 7 bar WP Superinox 120/60

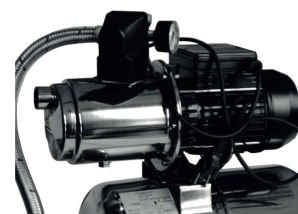
MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.



TABLE OF MATERIALS

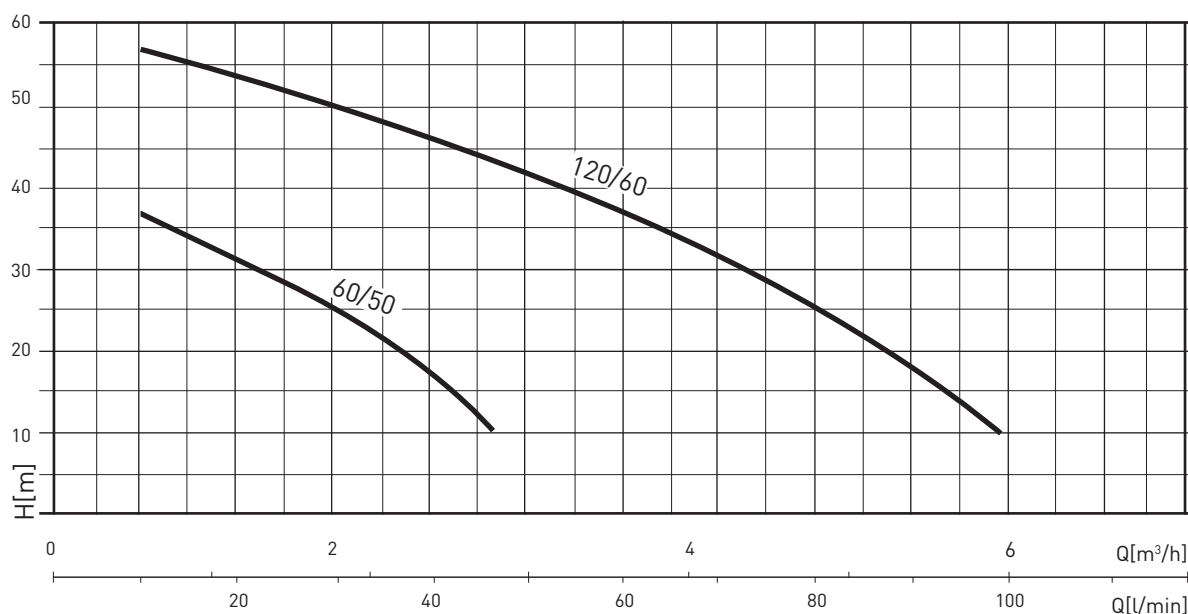
Component	Material	
	WP SUPERINOX 60/50	WP SUPERINOX 120/60
Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	Stainless steel X5 CrNi 1810 (AISI 304)
Motor bracket	Die cast aluminum	Die cast aluminum
Impellers	Technopolymer with shim ring in stainless steel	Technopolymer with shim ring in stainless steel
Diffuser-Venturi pipe nozzle	Technopolymer	-
Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	hydraulic section Stainless steel X5 CrNi 1810 (AISI 304)
Mechanical gasket	Graphite	Graphite
Counterface	Ceramic	Ceramic
Gasket backing plate	Technopolymer	Technopolymer
Seals	NBR 70 shore	NBR 70 shore



NOCCHI WATERPRESS SUPERINOX

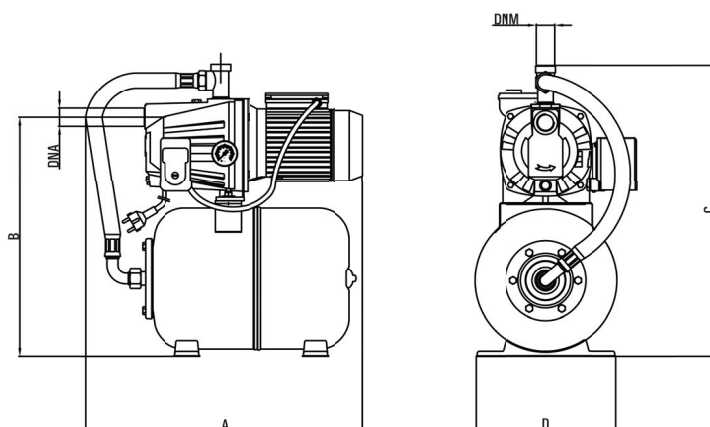
PRESSURE UNITS WITH 24-LITER HORIZONTAL EXPANSION TANK

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1.2	2.4	3.6	4.8
WP SUPERINOX 60/50 C	0.75	0.55	1.1	0.80	1 ~ 220 - 240 V	4	12.5	m.c.a./ m.w.c.	46	31	28	6	1	
WP SUPERINOX 120/60 C	1.2	0.9	1.7	1.25	1 ~ 220 - 240 V	5.8	20		60	55	48	36	26	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Weight (kg)
	A	B	C	D	DNA	DNM	
WP SUPERINOX 60/50 C	530	425	550	280	1" F	1" F	11.2
WP SUPERINOX 120/60 C	530	425	550	280	1" F	1" F	14.2

NOCCHI AUTOJET

PRESSURE UNITS WITH ELECTRONIC PUMP CONTROL AND PROTECTION DEVICE

Automatic unit for pressure increase in domestic water system. Comprising a single phase electric pump model Jetinox and the electronic device FLUSSCONTROL BASIC, which controls automatic operation of the pump, protecting it in the event of water supply failure. It is supplied pre-wired and ready for installation and use.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Washing and irrigation.

ADVANTAGES

- Reduces water hammer effect
- Replaces traditional expansion tank system
- Maintenance free
- Protection in event of water supply failure
- Simple to install
- Pressure remains constant during supply

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.

DESIGN SPECIFICATIONS

- Flusscontrol Basic:
- Max. pressure: 8 bar
- Max. temperature: 40°C
- 1.5 m H05 RN-F power cable with plug.

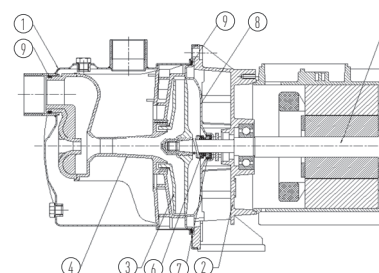
APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 40°C.
- Maximum recommended suction height: 8 m with foot valve.
- Maximum operating pressure: 6 bar.



TABLE OF MATERIALS

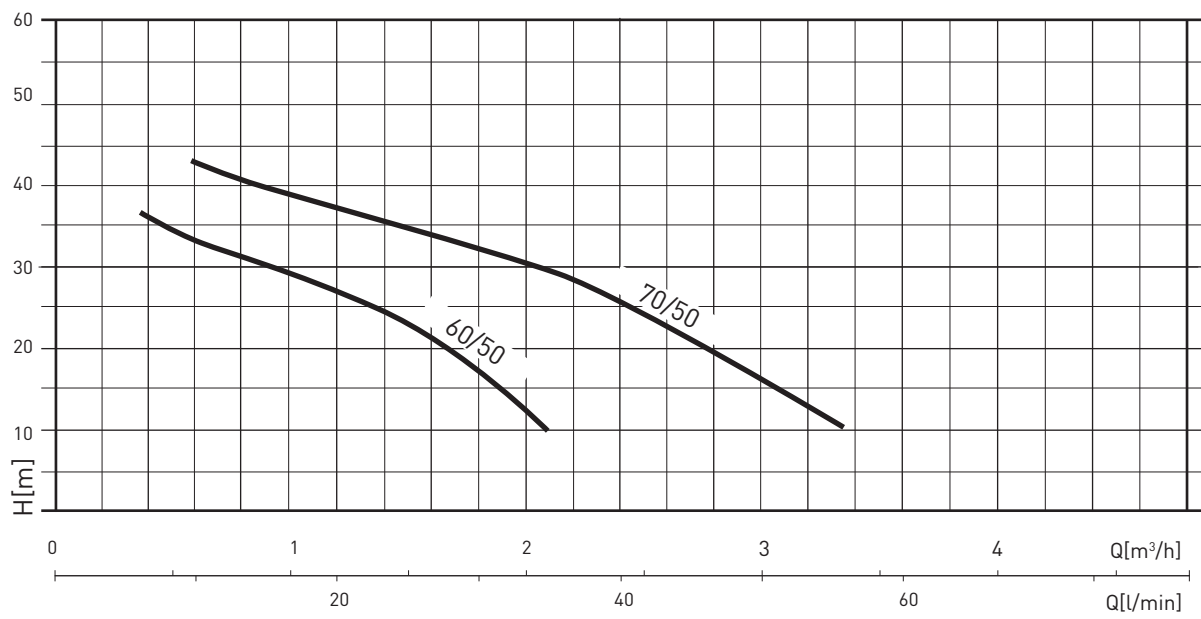
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Motor bracket	Die cast aluminum
3	Impeller	Technopolymer with shim ring in stainless steel
4	Freestanding diffuser unit Venturi pipe nozzle	Technopolymer
5	Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Gasket backing plate	Technopolymer (series 45-60-70) Stainless steel X5 CrNi 1810 (AISI 304) series 90
9	Seals	NBR 70 Shore



NOCCHI AUTOJET

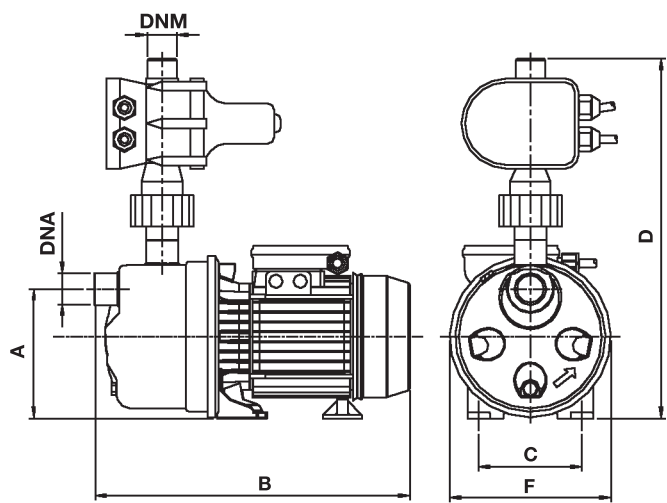
PRESSURE UNITS WITH ELECTRONIC PUMP CONTROL AND PROTECTION DEVICE

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/ min	0	10	20	30	40	50	60
	HP	kW	HP	kW					m³/h	0	0.6	1.2	1.8	2.4	3	3.6
AUTOJET 60/50	0.75	0.55	1.10	0.8	1 ~ 230 V	4	12.5	m.c.a. / m.w.c.	46	36	31	26	18	6		
AUTOJET 70/50	0.95	0.7	1.36	1.0	1 ~ 230 V	4.5	16		48	42.5	37.5	32	25	16.5	7	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
AUTOJET 60/50	140	374	99	391	194	1" F	1" M	9.4
AUTOJET 70/50	144	351	99	397	195	1" F	1" M	10.7

NOCCHI AUTOMAX

PRESSURE UNITS WITH ELECTRONIC PUMP CONTROL AND PROTECTION DEVICE

Automatic unit for pressure increase in domestic water system. Comprising a single phase electric pump model Max and the electronic device FLUSSCONTROL BASIC, which controls automatic operation of the pump, protecting it in the event of water supply failure. It is supplied pre-wired and ready for installation and use.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Washing and irrigation.

DESIGN SPECIFICATIONS

- Flusscontrol Basic:
- Max. pressure: 8 bar
- Max. temperature: 40°C
- 1.5 m H05 RN-F power cable with plug.

ADVANTAGES

- Reduces water hammer effect
- Replaces traditional expansion tank system
- Maintenance free
- Protection in event of water supply failure
- Simple to install
- Pressure remains constant during supply

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.

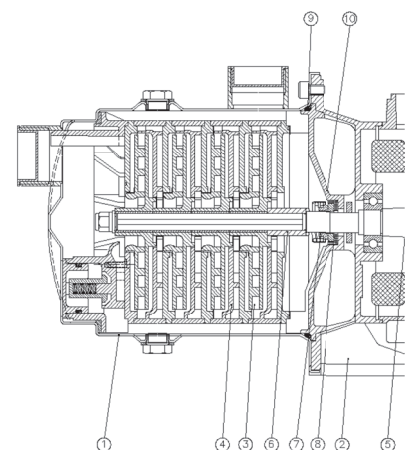
APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 40°C.
- Maximum recommended suction height: 7 m with foot valve.
- Maximum operating pressure: 7 bar.



TABLE OF MATERIALS

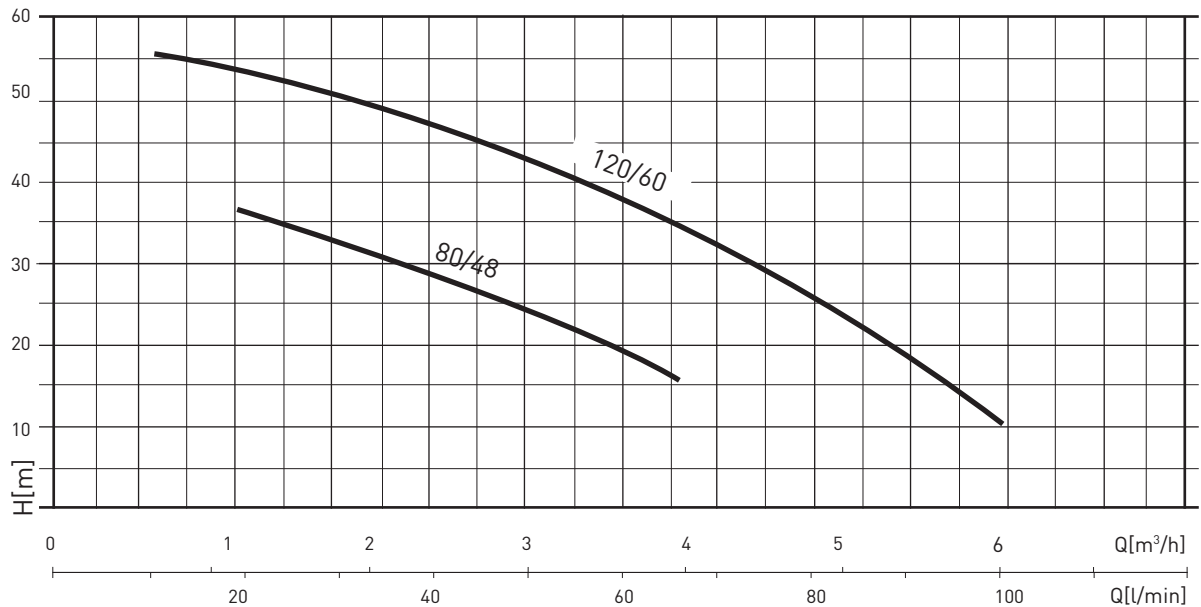
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Motor bracket	Die cast aluminum
3	Impeller	Technopolymer with shim ring in stainless steel X5 CrNi 1810 (AISI 304)
4	Diffusers	Technopolymer
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304)
6	Spacer	Nickel-plated brass OT 58
7	Mechanical gasket	Graphite
8	Counterface	Ceramic
9	Seals	NBR 70 Shore
10	Seal holder base	Noryl GFN2V



NOCCHI AUTOMAX

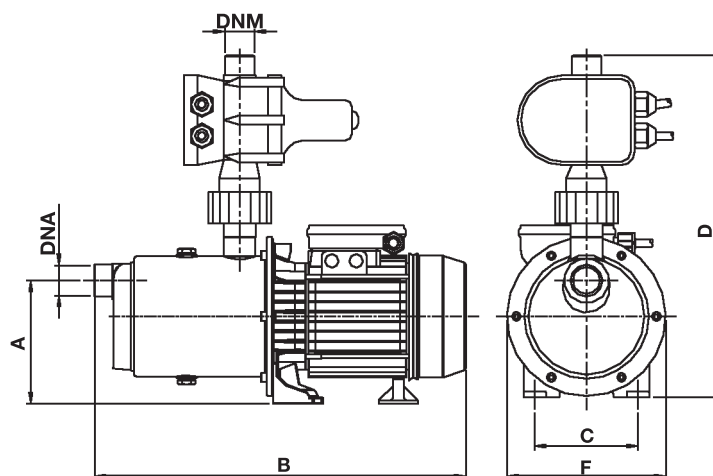
PRESSURE UNITS WITH ELECTRONIC PUMP CONTROL AND PROTECTION DEVICE

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	μF	Q	L/min	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1.2	2.4	3.6	4.8
AUTOMAX 80/48	0.75	0.55	1.10	0.8	1 ~ 230 V	4	12.5	m.c.a. / m.w.c.	45	36	28	17	1	
AUTOMAX 120/60	1.2	0.9	1.7	1.25	1 ~ 230 V	5.8	20		60	55	48	36	26	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
AUTOMAX 80/48	129	370	99	380	205	1" F	1" M	9.2
AUTOMAX 120/60	129	415	99	390	205	1" F	1" M	12.2

NOCCHI CPS 10

ELECTRONIC FREQUENCY CONVERTER

EASY TO INSTALL, LOW ENERGY CONSUMPTION, COMPACT SIZE

CPS is an electronic device designed to vary the frequency of an electric pump. It is incorporated directly on the motor to enable control of the speed to provide the utility with a constant pressure even in the event of changes in water demands. CPS offers a compact, essential, reliable and practical solution, also designed to ensure the utmost comfort and benefits when applied in the sectors of irrigation, greenhouses, light industry, fountains and water features.

The system comprises an electric pump and electronic control system (inverter) to ensure that pressure is kept constant in the system, reducing or increasing the speed of motor rotation on the electric pump as required. When the system pressure falls below the set threshold, the module starts

up the pump to restore the set point pressure; the pump rotation speed varies according to water demand and therefore increases speed on requests for increased quantities, through to the maximum setting. On decrease in water demand, the pump speed is decreased through to the minimum setting, after which, if no further decreases in pressure occur (i.e. new water demands) the pump is stopped on standby until a new cycle starts.



APPLICATIONS

- Pressure booster systems
- Water supply
- Industry
- Construction
- Washing

PROTECTION DEVICES

- Dry-running
- Current overload
- Electronics overheating
- Anti-freeze via external device

TECHNICAL SPECIFICATIONS

- Power supply voltage: inverter 1x230 Vac $\pm$ 10 %.
- Inverter output voltage: 3x230 Vac $\pm$ 10 %
- Maximum nominal power: 1.5 Kw
- Input frequency: 50/60 Hz + 3%
- Maximum nominal output current: 6.5 Amp
- Protection rating IP55 (if installed on motors with protection rating of IP55 or higher)
- Ambient temperature from +0°C to +40°C
- Waveform: sinusoidal
- Inlet filter compliant with EMC directive
- Pressure transducer 0 - 5 Volt - 0 - 10 Bar
- Set-point 2
- Interface connectivity: RS 485 serial port
- 3 optional contacts (external set-point, alarm, system disable)

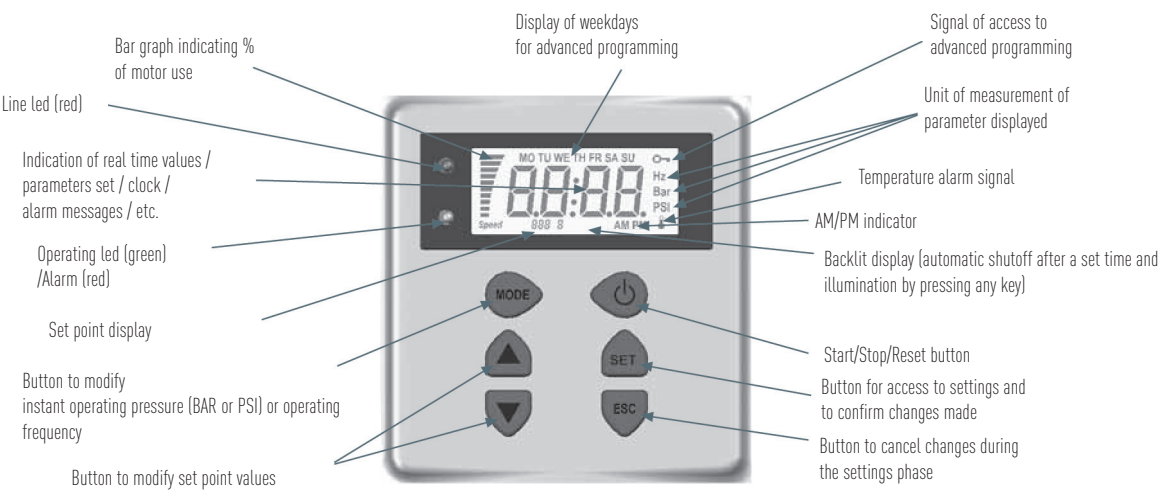
NOCCHI CPS 10

ELECTRONIC FREQUENCY CONVERTER

VERSIONS AVAILABLE

VERTICAL	HORIZONTAL	SELF-PRIMING
CPS10/VLR 2B-60 A	CPS10/MULTINOX-VE 200/80	CPS10/MULTINOX-XC 120/45
CPS10/VLR 2B-110 A	CPS10/DHI 4-50	CPS10/MULTINOX-XC 120/60
CPS10/VLR 4-80 A	CPS10/DHI 2-70	CPS10/JET 1000
CPS10/VLR 8-40 A	CPS10/DHR 4-50	CPS10/MULTINOX-A 200/40
CPS10/VLR 4-100 A	CPS10/DHR 9-40	CPS10/MULTINOX-A 200/65
CPS10/MULTINOX-VE 200/65	CPS10/DHR 9-60	CPS10/MULTINOX-A 200/80
CPS10/MULTINOX-VE 200/40	CPS10/MULTINOX-XC 80/48	

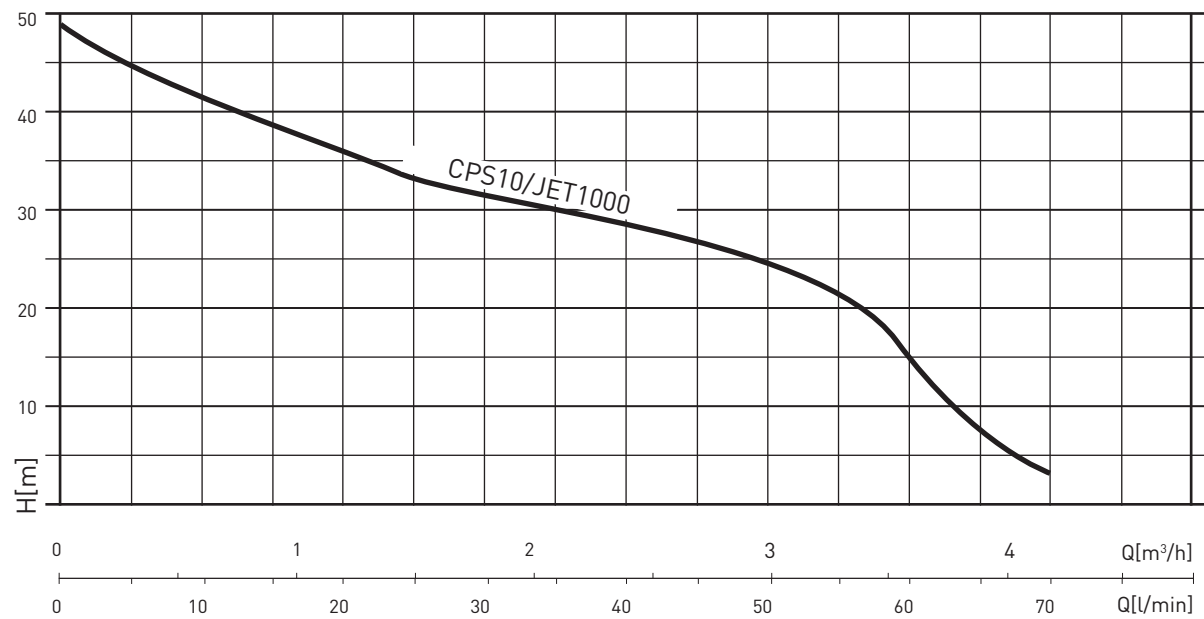
CONTROL PANEL



NOCCHI CPS10/JET

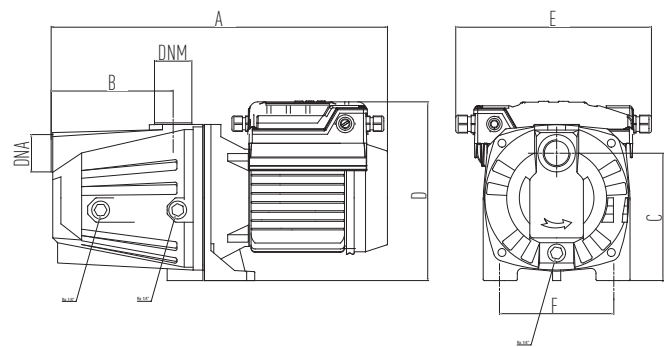
ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	0	5	20	30	40	50	60	70
	HP	kW				m³/h	0	0.3	1.2	1.8	2.4	3	3.6	4.2
CPS10/JET 1000	1.36	1	1 – 230	6.5	m.c.a./m.w.c.	49	45	36	32	28	25	15	3	3



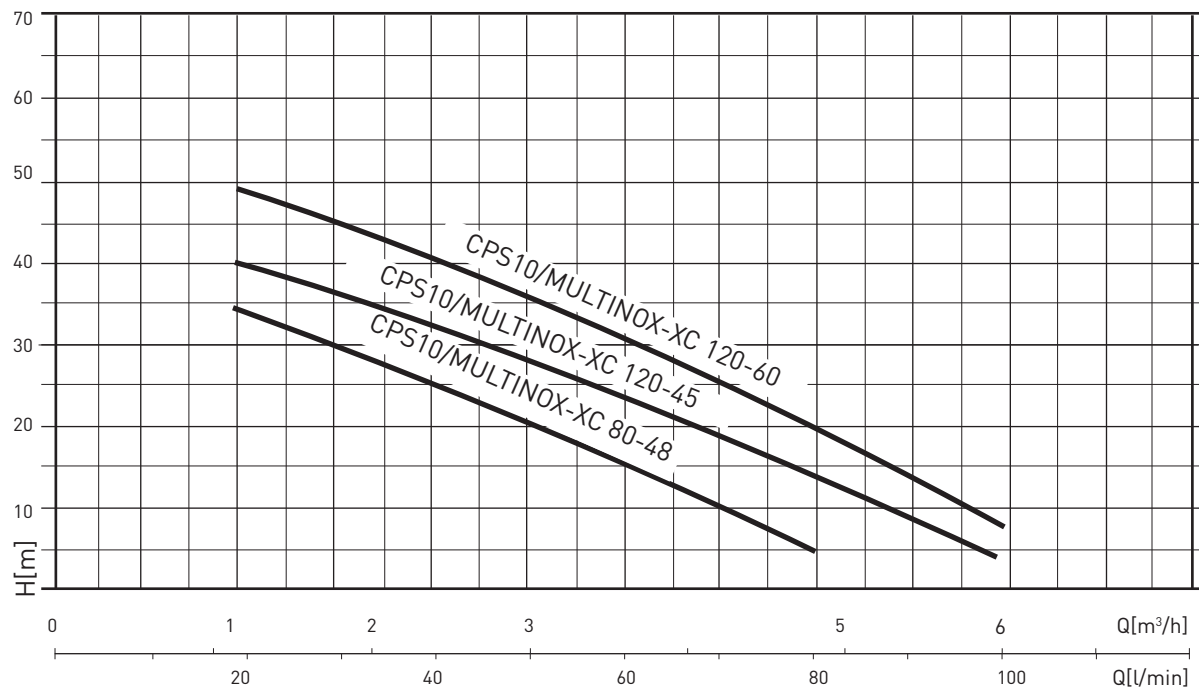
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	D	E	DNA	DNM	
CPS10/JET 1000	400	147	160	260	195	1"	1"	20.8

NOCCHI CPS10/MULTINOX XC

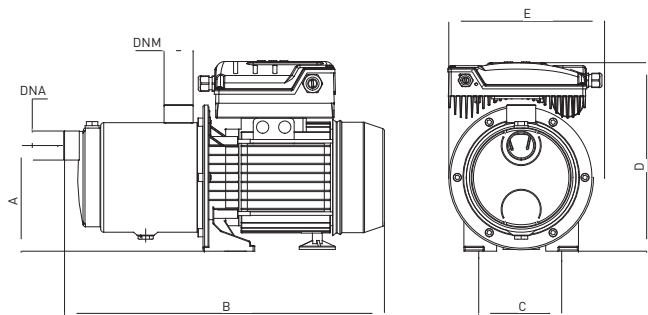
ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	0	20	40	60	80	100
	HP	kW				m³/h	0	1.2	2.4	3.6	4.8	6
CPS10/MULTINOX-XC 80/48	0.75	0.55	1 ~ 230	5.1	m.c.a./m.w.c.	40	34	25	15	4		
CPS10/MULTINOX-XC 120/45	1.1	0.85	1 ~ 230	8.1		46	40	33	24	14	3	
CPS10/MULTINOX-XC 120/60	1.2	0.9	1 ~ 230	8		55	49	42	32	20	7	



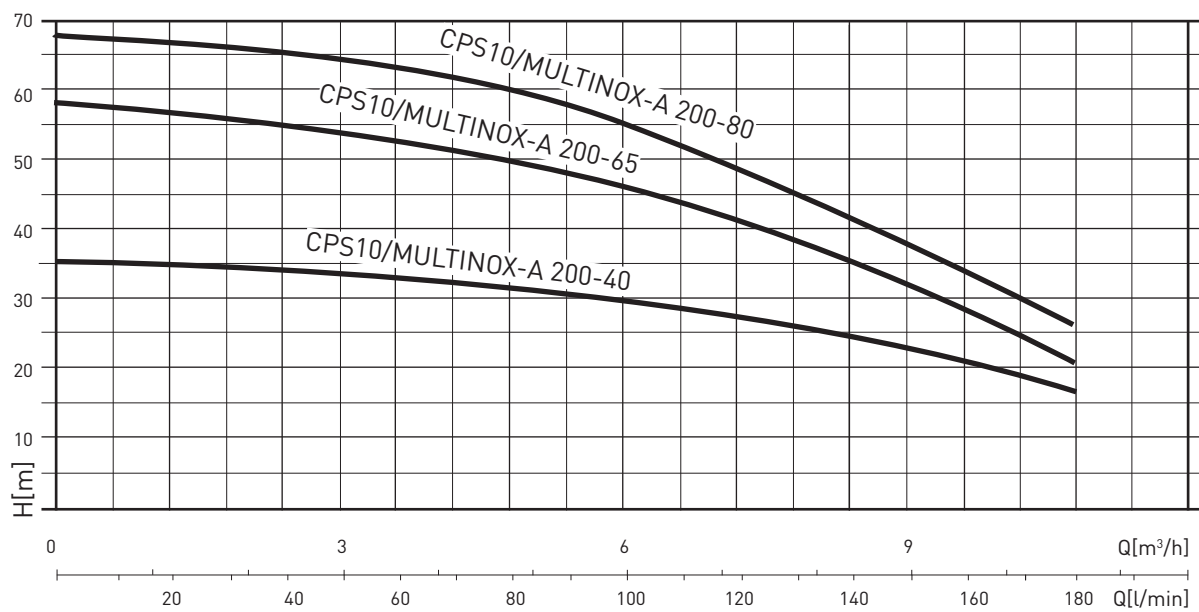
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	D	E	DNA	DNM	
CPS10/MULTINOX-XC 80/48	129	348	99	215	250	1"	1"	9.5
CPS10/MULTINOX-XC 120/45	129	370	99	215	250	1"	1"	11.5
CPS10/MULTINOX-XC 120/60	129	392	99	215	250	1"	1"	12.5

NOCCHI CPS10/MULTINOX-A

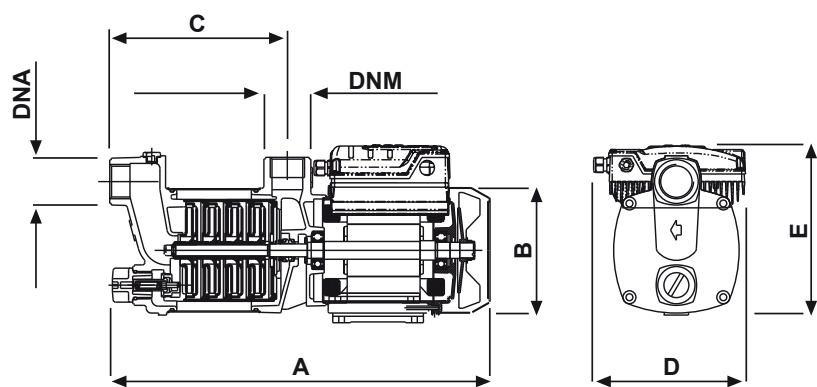
ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	0	20	60	100	140	180
	HP	kW				m³/h	0	1.2	3.6	6	8.4	10.8
CPS10/MULTINOX - A 200/40	1.5	1.1	1 ~ 230	8.7	m.c.a./m.w.c.	35	33.7	32.1	27.6	21.5	13.1	
CPS10/MULTINOX - A 200/65	1.9	1.4	1 ~ 230	14.4		58	56.1	53.4	46	35.8	21.8	
CPS10/MULTINOX - A 200/80	2.5	1.75	1 ~ 230	15.5		68	67.3	64.1	55.2	42.9	26.2	



OVERALL DIMENSIONS AND WEIGHTS

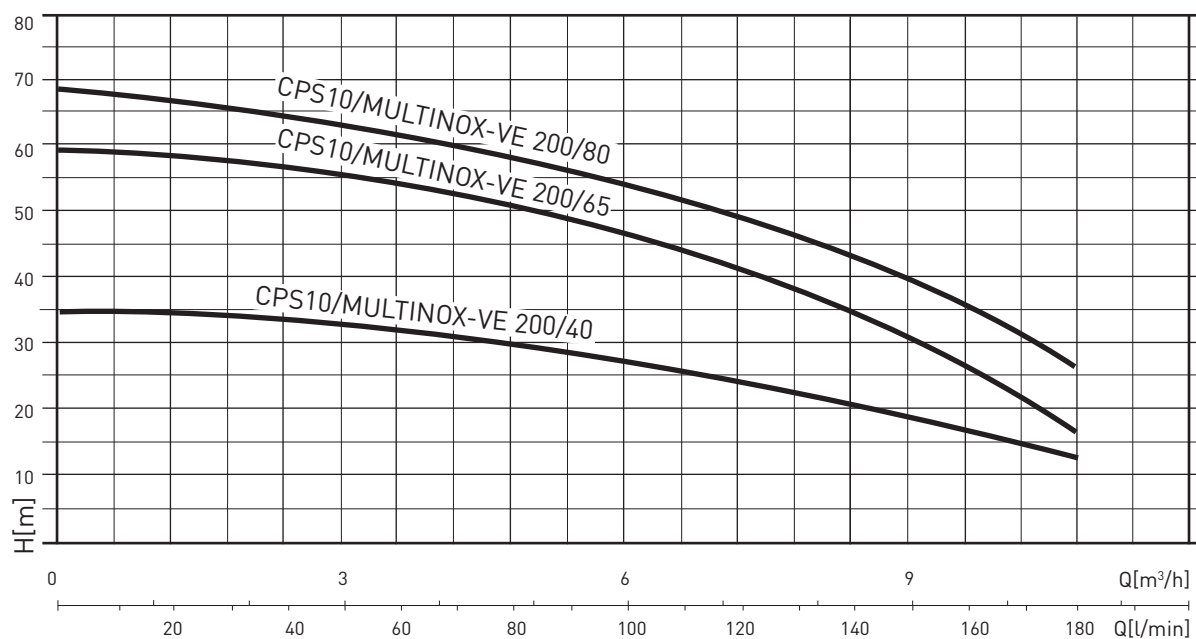
MODEL	Dimensions (mm)							Weight kg
	A	B	C	D	E	DNA	DNM	
CPS10/MULTINOX - A 200/40	441	170	188	232	225	1" 1/4	1" 1/4	21.2
CPS10/MULTINOX - A 200/65	497	170	243	232	225	1" 1/4	1" 1/4	24
CPS10/MULTINOX - A 200/80	525	170	270	232	245	1" 1/4	1" 1/4	26

NOCCHI CPS10/MULTINOX-VE

ELECTRONIC FREQUENCY CONVERTER

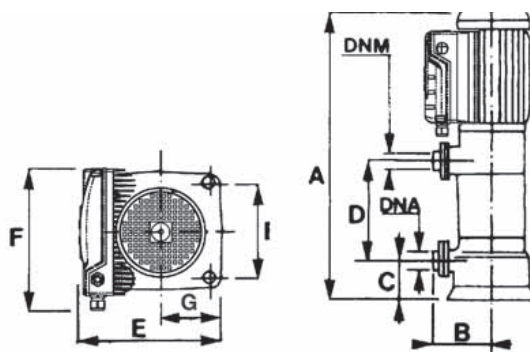


HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/ min	0	20	60	100	140	180
	HP	kW				m³/h	0	1.2	3.6	6	8.4	10.8
CPS10/MULTINOX-VE 200/40	1.5	1.1	1 ~ 230	8.7	m.c.a./m.w.c.	35	33.7	32.1	27.6	21.5	13.1	
CPS10/MULTINOX-VE 200/65	1.9	1.4	1 ~ 230	14.4		58	56.1	53.4	46	35.8	21.8	
CPS10/MULTINOX-VE 200/80	2.5	1.75	1 ~ 230	15.5		68	67.3	64.1	55.2	42.9	26.2	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)										Weight kg
	A	B	C	D	E	F	G	I	DNA	DNM	
CPS10/MULTINOX-VE 200/40	438	115	37	143	232	220	72.5	145	1" 1/4	1" 1/4	21.2
CPS10/MULTINOX-VE 200/65	504	115	37	203	232	220	72.5	145	1" 1/4	1" 1/4	25.1
CPS10/MULTINOX-VE 200/80	525	115	37	230	232	220	72.5	145	1" 1/4	1" 1/4	27

NOCCHI CPS3-10 THREE-PHASE ELECTRONIC FREQUENCY CONVERTER



EASY TO INSTALL, LOW ENERGY CONSUMPTION, COMPACT SIZE

CPS 3-10 is an electronic device designed to vary the frequency of an electric pump. It is incorporated directly on the motor to enable control of the speed to provide the utility with a constant pressure even in the event of changes in water demands. CPS offers a compact, essential, reliable and practical solution, also designed to ensure the utmost comfort and benefits when applied a wide range of sectors, such as irrigation, Pressure booster systems and water transfer, residential, commercial and industrial applications. The CPS range features a discreet and stylish design with a back lit graphic display that updates the user in real time on all operating parameters.

This operating principle of this device is simple and effective. CPS supplies the electric motor of the pump where it is installed and, via a feedback system using a pressure transducer, varies the power supply frequency of the electric motor according to changes in water demands, with the aim of maintaining

constant pressure levels on outlet from the pump according to a set point value set on the device. CPS ensures high levels of efficiency and improved flexibility in performance, guaranteeing optimal savings in energy and eliminating the need for supplementary control devices. The range offers a host of functions:

- Pressure measurement with the option of managing 2 separate levels settable via an internal timer or via an external connection;
- Start and stop;
- Internal clock;
- Calculation of motor speed;
- Protection against dry-running;
- Protection against overcurrent and undercurrent;
- Protection against overvoltage and undervoltage.



APPLICATIONS

- Pressure booster systems
- Water supply
- Industry
- Construction
- Washing

PROTECTION DEVICES

- Dry-running
- Current overload
- Electronics overheating
- System disable via external contact

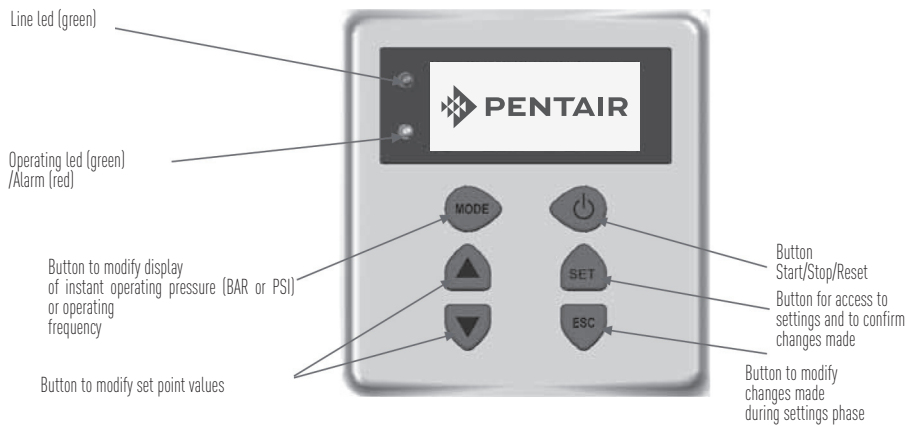
TECHNICAL SPECIFICATIONS

- Power supply voltage: inverter 3x380 - 3x500 Vac $\pm$ 10% sinusoidal 50/60 Hz
- Inverter output voltage: 3x400 Vac $\pm$ 10 %
- Maximum nominal power: 7.5 kW
- Input frequency: 50/60 Hz + 3%
- Maximum nominal output current: 16 A
- Protection rating IP55 (if installed on motors with protection rating of IP55 or higher)
- Ambient temperature from +0°C to 50°C
- Waveform: sinusoidal
- Inlet filter compliant with EMC directive
- Pressure transducer 0 - 5 Volt - 0 - 10 Bar 0 - 20 Bar depending on pump model
- Set-point 2
- Interface connectivity: RS 485 serial port
- 3 optional contacts (external set-point, alarm, system disable)

NOCCHI CPS3-10

THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

CONTROL PANEL

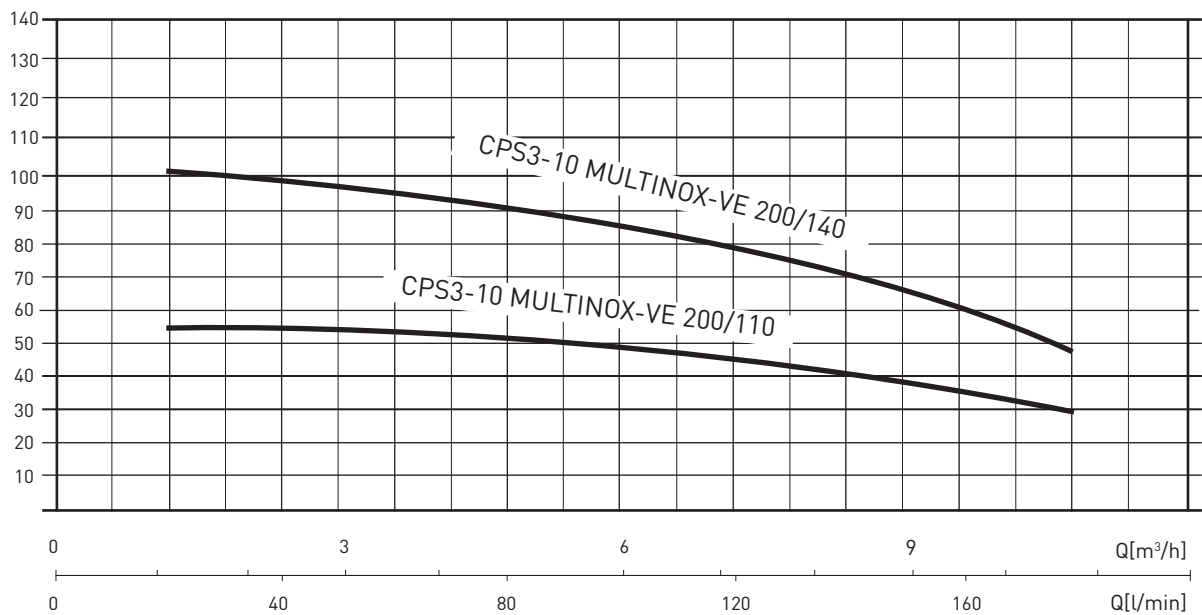


- Backlit display (automatic shutoff after a set time and illumination by pressing any key)
- Bar graph indicating percentage of motor use
- Display of weekdays
- Display of instant values / set parameters / clock / alarm messages / etc.
- Signal of access to programming
- Unit of measurement of parameter displayed

NOCCHI CPS3-10 MULTINOX-VE

THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

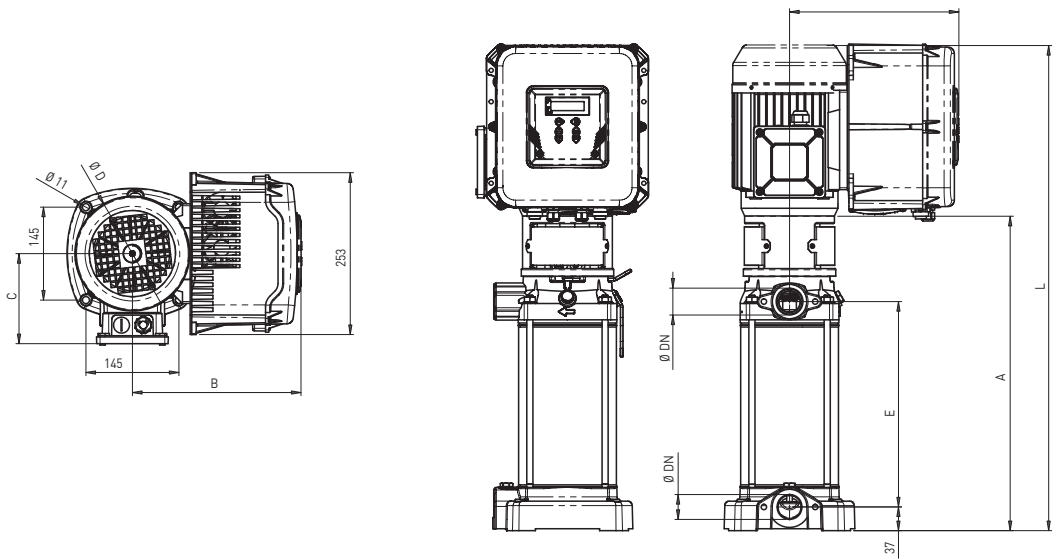
HYDRAULIC PERFORMANCE



MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see electric pump series MULTINOX-VE

PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	20	60	100	140	180
	HP	kW				m³/h	1.2	3.6	6	8.4	10.8
CPS3-10 MULTINOX-VE 200/110	3.5	2.6	3 ~ 400	7	m.c.a./ m.w.c.		54	51	46	39	30
CPS3-10 MULTINOX-VE 200/140	5.5	4.0	3 ~ 400	8.2			100	94	85	72	55



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	D	E	DN	L	
CPS3-10 MULTINOX-VE 200/110	491	265	140	177	320	1"1/4	760	42
CPS3-10 MULTINOX-VE 200/140	575	275	145	198	404	1"1/4	875	45

NOCCHI SWIMMEY

ELECTRIC SELF-PRIMING PUMPS FOR SWIMMING POOLS WITH PRE-FILTER

The pumps in the SWIMMEY series are designed to achieve maximum reliability in operation for the filtration and circulation of chlorine treated water.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP X5.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.
- Suitable for continuous duty

APPLICATION DATA

- Type of liquid: swimming pool water treated with chlorine.
- Maximum liquid temperature: 40°C.
- Maximum operating pressure: 2.5 bar.
- Maximum recommended suction height: 3 m with foot valve.

APPLICATIONS

- Circulation and filtration of swimming pools and tubs.



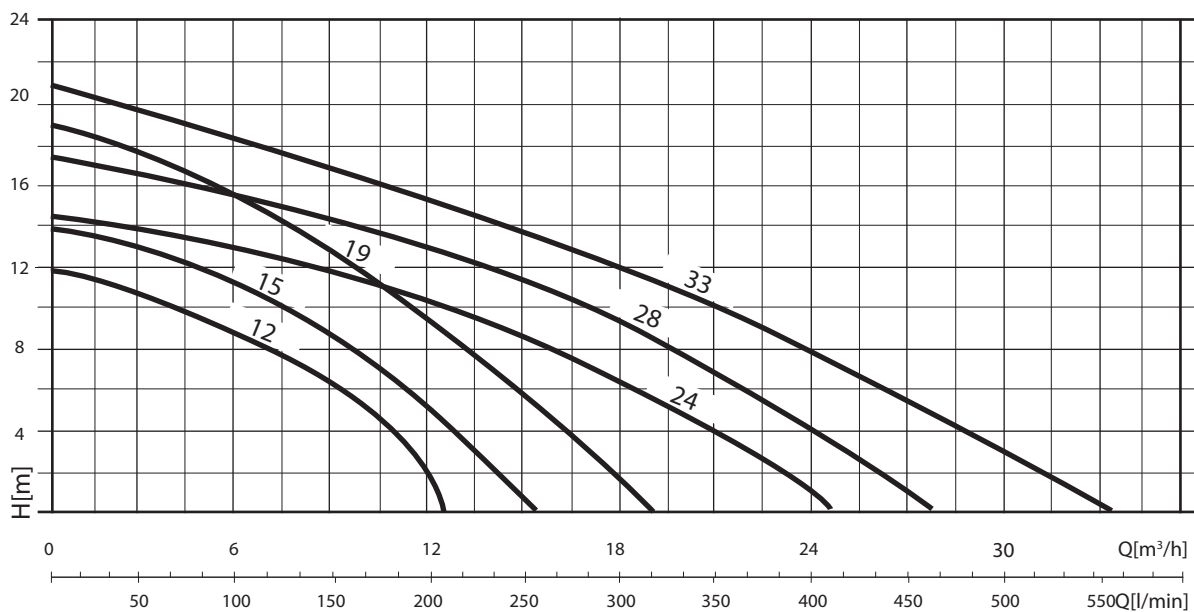
TABLE OF MATERIALS

Component	Material
Pump body	ABS
Pre-filter	ABS
Connectors (suction and delivery)	ABS/PVC
Basket (large size accessible via screw cover)	HD polyethylene
Impeller	In glass fiber charged Lexan (resistant to sand abrasion)
Diffuser	In glass fiber charged Lexan (resistant to sand abrasion)
Mechanical gasket	Graphite
Counterface	Ceramic
Shaft	In stainless steel with insulating element
Support base	Polypropylene
Filter cover	In Lexan with Teflon-treated closure O-Ring

NOCCHI SWIMMEY

ELECTRIC SELF-PRIMING PUMPS FOR SWIMMING POOLS WITH PRE-FILTER

HYDRAULIC PERFORMANCE

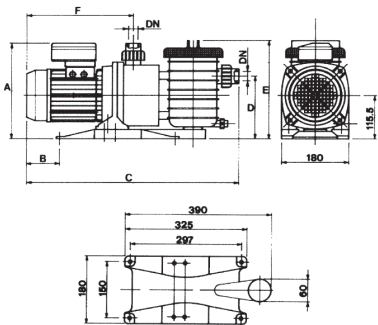


PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	µF	Q	L/min m³/h	100	150	200	300	350	400	450	500
	HP	kW	HP	kW						6	9	12	18	21	24	27	30
SWIMMEY 12 M SWIMMEY 12 T	0.5	0.37	0.75	0.55	1 ~ 230 V 3 ~ 400 V	2.5 1.7-1	10	m.c.a. / m.w.c.		9	6	2					
SWIMMEY 15 M SWIMMEY 15 T	0.75	0.5	0.9	0.7	1 ~ 230 V 3 ~ 400 V	3 2.2-1.3	10			11	8.5	4.5					
SWIMMEY 19 M SWIMMEY 19 T	1	0.75	1.5	1.1	1 ~ 230 V 3 ~ 400 V	5 3.3-1.9	20			15.5	13	10	1.5				
SWIMMEY 24 M SWIMMEY 24 T	1	0.75	1.5	1.1	1 ~ 230 V 3 ~ 400 V	4.8 3-1.7	20			13	12	10.5	6	4	0.5		
SWIMMEY 28 M SWIMMEY 28 T	1.5	1.13	2	1.5	1 ~ 230 V 3 ~ 400 V	7 4.1-2.4	30			15.5	14.5	13	9	7	4.5	1.5	
SWIMMEY 33 M SWIMMEY 33 T	2	1.5	2.55	1.9	1 ~ 230 V 3 ~ 400 V	8.5 6-3.6	35			18.5	17	15.5	12	10.5	8	6	3.5

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	F	DN	
SWIMMEY 12	293	210	582	180	280	318	50	8
SWIMMEY 15	293	210	582	180	280	318	50	8.5
SWIMMEY 19	293	210	610	180	280	318	50	10.2
SWIMMEY 24	293	210	610	180	280	318	50	11
SWIMMEY 28	293	210	635	180	280	318	50	13
SWIMMEY 33	293	210	635	180	280	318	50	14.5



NOCCHI MCP

ELECTRIC MULTI-CELL CENTRIFUGAL PUMPS FOR SWIMMING POOLS

PUMPS FOR SWIMMING POOLS, ULTRA-SILENT OPERATION, SUITABLE FOR OPERATION WITH SEA WATER

The multi-cell centrifugal pumps in the MCP series are suitable for cleaning the bottom of swimming pools.

MOTOR

- Closed, ventilated from exterior.
- -Protection rating IP 44.
- -Insulation class F.
- -Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.

TABLE OF MATERIALS

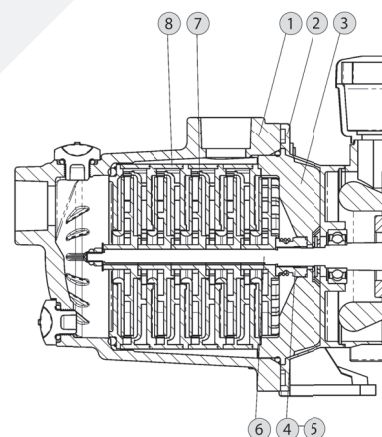
Component		Material
1	Pump body	30% polypropylene with glass fiber reinforcement
2	Motor bracket	Die cast aluminum
3	Seal holder flange	GFN ZV noryl
4	Mechanical gasket	Graphite/ceramic metal parts in stainless steel AISI 316
5	Counterface	Ceramic
6	Motor shaft	X2 CrNiMo 17 - 12 - 2 (AISI 316L)
7	Impellers	Technopolymer with stainless steel inserts
8	Diffusers	Technopolymer
9	Seals	NBR

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Swimming pool water (containing chlorine), sea water.
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 6 m with foot valve.
- Maximum operating pressure: 7 bar.

APPLICATIONS

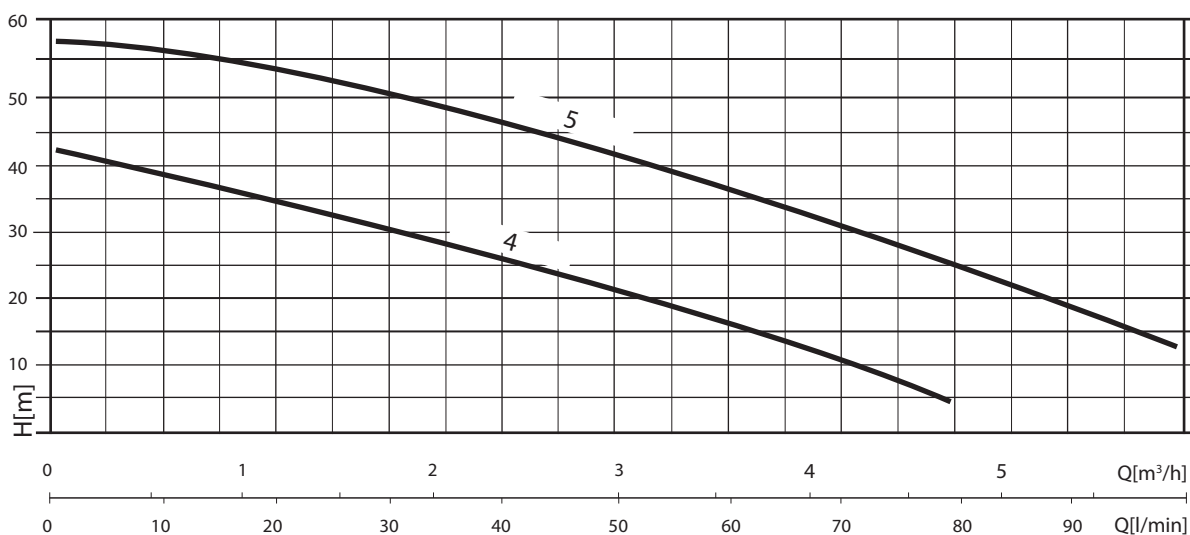
- For cleaning the bottom of swimming pools
- Swimming pool water (containing chlorine), sea water.



NOCCHI MCP

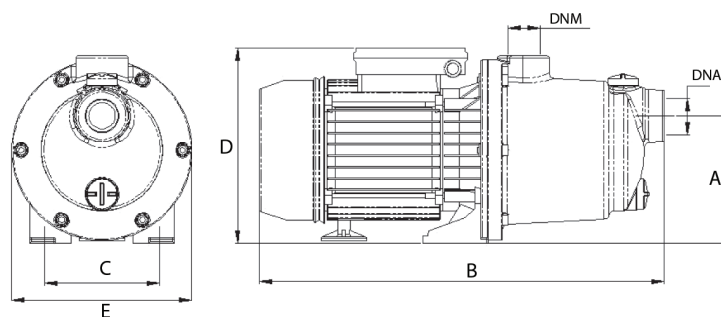
ELECTRIC MULTI-CELL CENTRIFUGAL PUMPS FOR SWIMMING POOLS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min	0	20	40	60	80	100
	HP	kW	HP	kW					m.c.a. / m.w.c.	0	1.2	2.4	3.6	4.8	6
MCP 4	0.7	0.5	1.1	0.8	1 ~ 230 V	4	12.5	m.c.a. / m.w.c.	42	34	27	15	6		
MCP 5	1.1	0.85	1.7	1.25	1 ~ 230 V	5.8	20		58	54	47	36	25	11	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
MCP 4	123	370	99	185	174	1"	1"	7
MCP 5	123	385	99	190	174	1"	1"	9

NOCCHI P.G.A. - DELTA OIL

ELECTRIC SELF-PRIMING PUMPS WITH SPECIAL LIQUID CIRCUIT FOR DIESEL TRANSFER

PGA pumps are particularly suited for the transfer of diesel. Available in complete version with power cable, switch and handle. Equipped with safety hose for collection of any spillage.

MOTOR

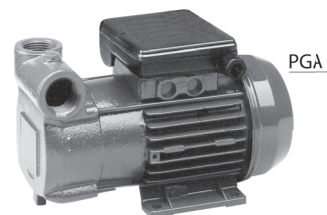
- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by client.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATION DATA

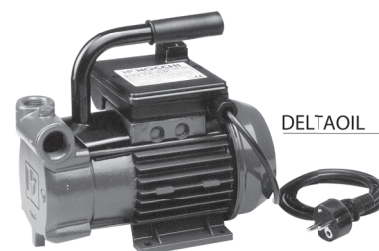
- Type of liquid: diesel
- Maximum liquid temperature: 50°C.
- Maximum recommended suction height: 5 m with foot valve.
- Maximum operating pressure: 6 bar.

APPLICATIONS

- Installation of delivery units.
- For diesel transfer on farms.
- Earth moving machinery.
- Small pumping stations.



PGA



DELTA OIL

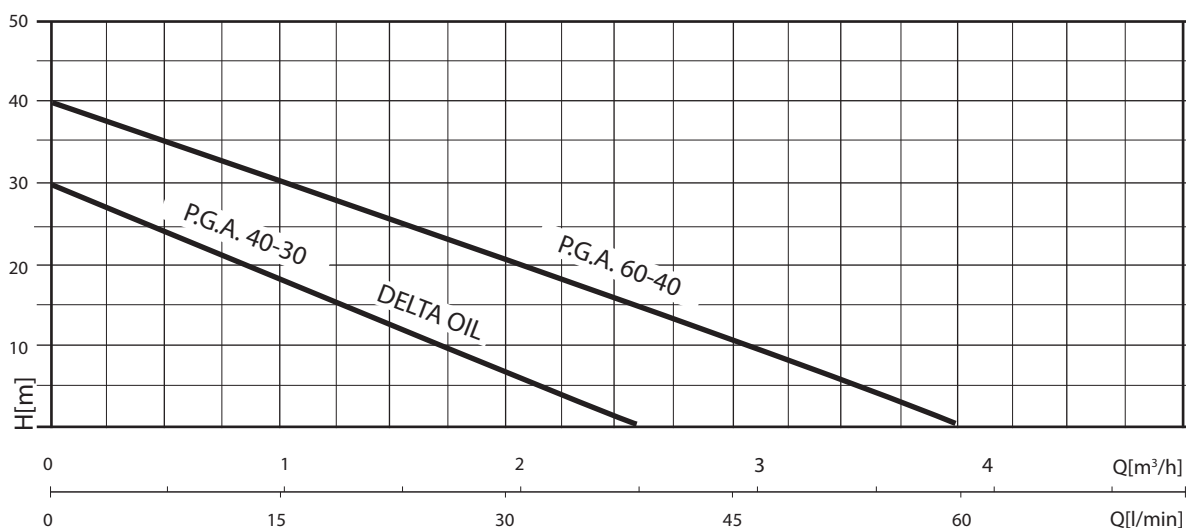
TABLE OF MATERIALS

Component	Material
Pump body	Cast iron EN GJL 200 (ex G20)
Motor bracket	Cast iron EN GJL 200 (ex G20)
Vane type impeller	Brass
Motor shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)
Mechanical gasket	Graphite
Counterface	Ceramic
Seals	NBR 70 shore

NOCCHI P.G.A. - DELTA OIL

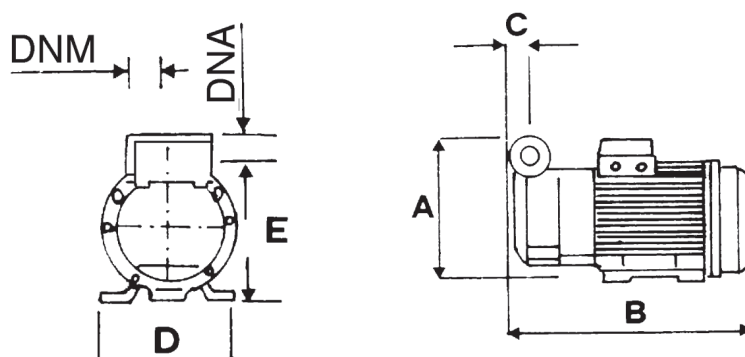
ELECTRIC SELF-PRIMING PUMPS WITH SPECIAL LIQUID CIRCUIT FOR DIESEL TRANSFER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min	5	10	15	25	35	45	60
	HP	kW	HP	kW					m³/h	0.3	0.6	0.9	1.5	2.1	2.7	3.6
PGA 40 - 30 M PGA 40 - 30 T	0.6	0.45	0.75	0.55	1 ~ 220 - 240 V 3 ~ 230 - 400 V	2.7 1.6-0.9	8	m.c.a. / m.w.c.	28	23	18	13	5			
PGA 60 - 40 M PGA 60 - 40 T	0.8	0.6	1.2	0.9	1 ~ 220 - 240 V 3 ~ 230 - 400 V	4.5 2.7-1.6	12.5		39	34	32	25	18	12	12	
DELTA OIL	0.6	0.45	0.75	0.55	1 ~ 220 - 240 V	2.7	8		28	23	18	13	5			



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
PGA 40 - 30	141	255	20	120	119	3/4"	3/4"	6.2
PGA 60 - 40	148	260	24	120	123	1"	1"	8
DELTA OIL	141	255	20	120	119	3/4"	3/4"	7

NOCCHI PRATIKA

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER

HOSE BEND CONNECTOR Ø 32 MM SUPPLIED, AUTOMATIC VERSION EQUIPPED WITH FLOAT SWITCH.

PRATIKA submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc.

APPLICATIONS

- Lifting from traditional wells.
- Installations in tanks in the home for pressurization of domestic drinking water systems.
- Small automatic garden irrigation systems.
- Gravity irrigation systems.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 10 m.

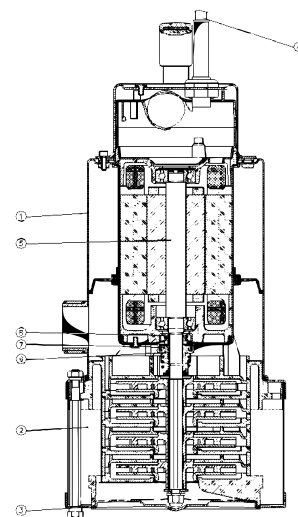
MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.
- Suitable for continuous duty.



TABLE OF MATERIALS

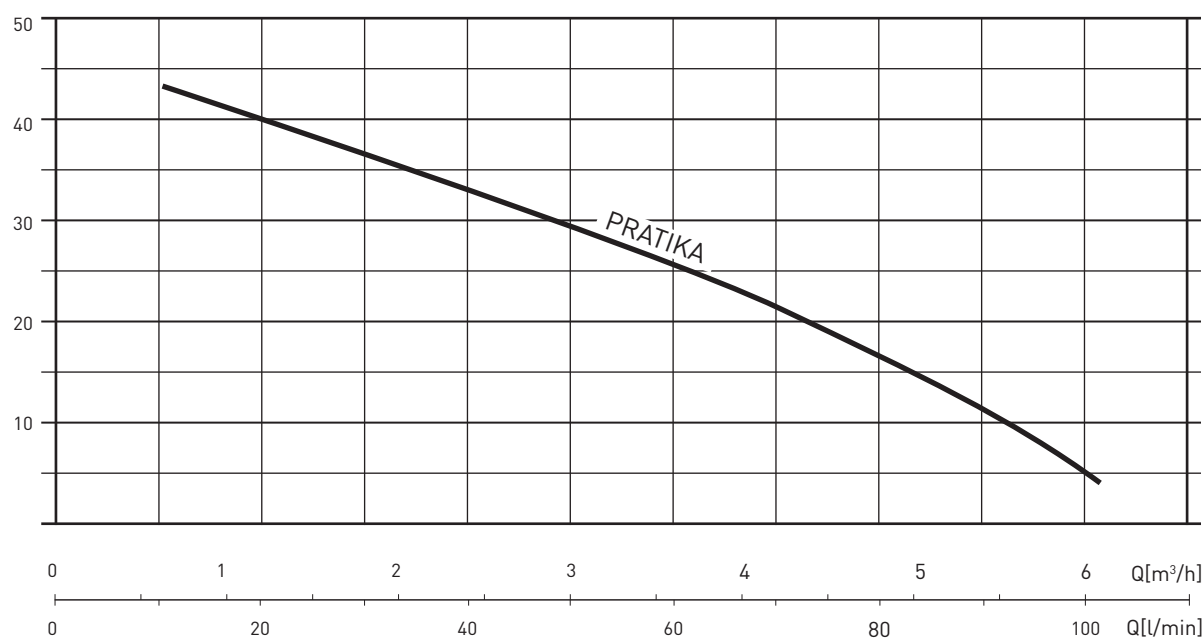
Component		Material	
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	
2	suction grille	Stainless steel X5 CrNi 1810 (AISI 304)	
3	suction base	Stainless steel X5 CrNi 1810 (AISI 304)	
4	Power cable	15 m H07 RN-F with Schuko plug	
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 1810 (AISI 304) with ceramic-coated bushing at points of wear on the seal	
6	Mechanical gasket	Graphite	Lubricated in oil chamber
	Counterface	Ceramic	
	Lip seal	In rubber NBR 70	
8	Impellers	Technopolymer	
9	Diffusers	Technopolymer	



NOCCHI PRATIKA

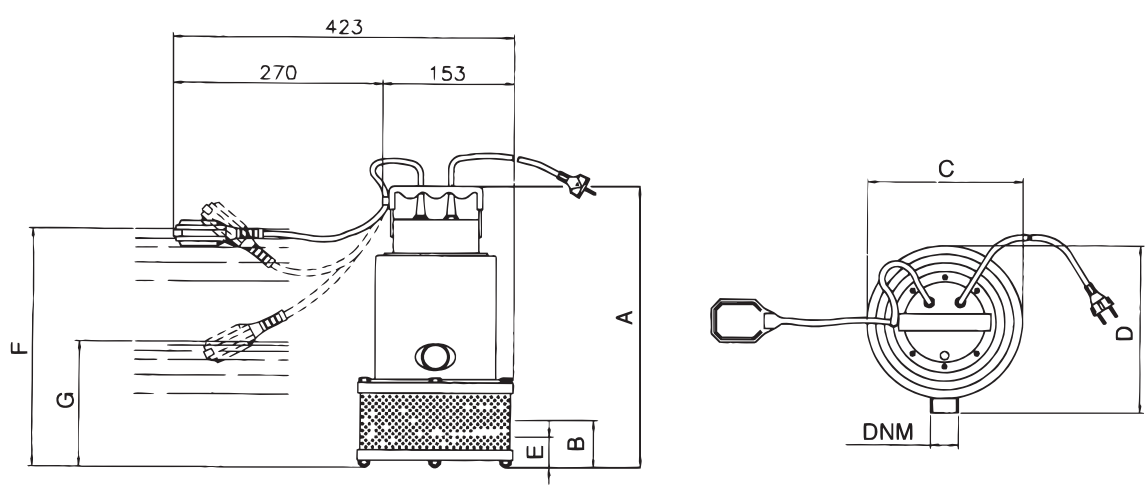
ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	µF	Stages	Q	L/ min	0	20	40	60	80	100
	HP	kW	HP	kW						m³/h	0	1.2	2.4	3.6	4.8	6
PRATIKA - MAN	1.1	0.8	1.6	1.2	1 ~ 230 V	5	16	4	m.c.a. / m.w.c.	46	39	31	23	12	6	3
PRATIKA - AUT																



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	A	B	Ø C	D	Minimum drain- age level E*	Connection level F*	Disconnec- tion level G*	Free clear- ance	DNM	
PRATIKA	406	162	178	182	50/60	490	260	Ø 1.5	1" 1/4	9

NOCCHI DOMINATOR 4"

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER Ø 4"



HYDRAULIC SYSTEM PARTICULARLY RESISTANT TO SAND CORROSION, INCORPORATED CHECK VALVE, INCORPORATED CAPACITOR

NEW

DOMINATOR 4" submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc. Supplied with nylon suspension cord (20 m).

- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 17 m.

APPLICATIONS

- Lifting from traditional wells.
- Installations in tanks in the home for pressurization of domestic drinking water systems.
- Small automatic garden irrigation systems.
- Gravity irrigation systems.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.

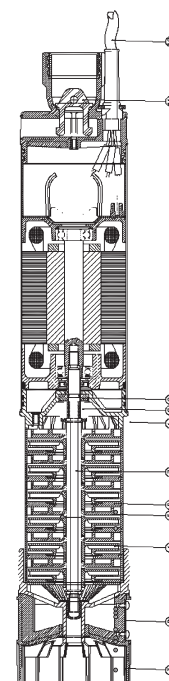
MOTOR

- Dry motor with stainless steel body cooled by pumped liquid.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.
- Suitable for continuous duty.



TABLE OF MATERIALS

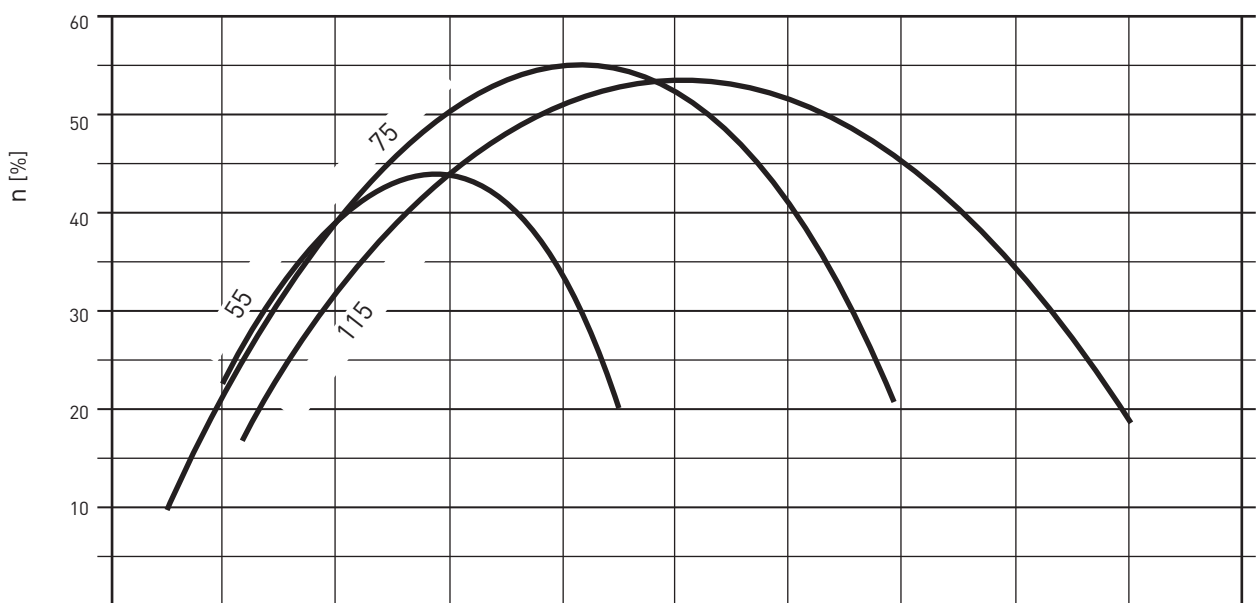
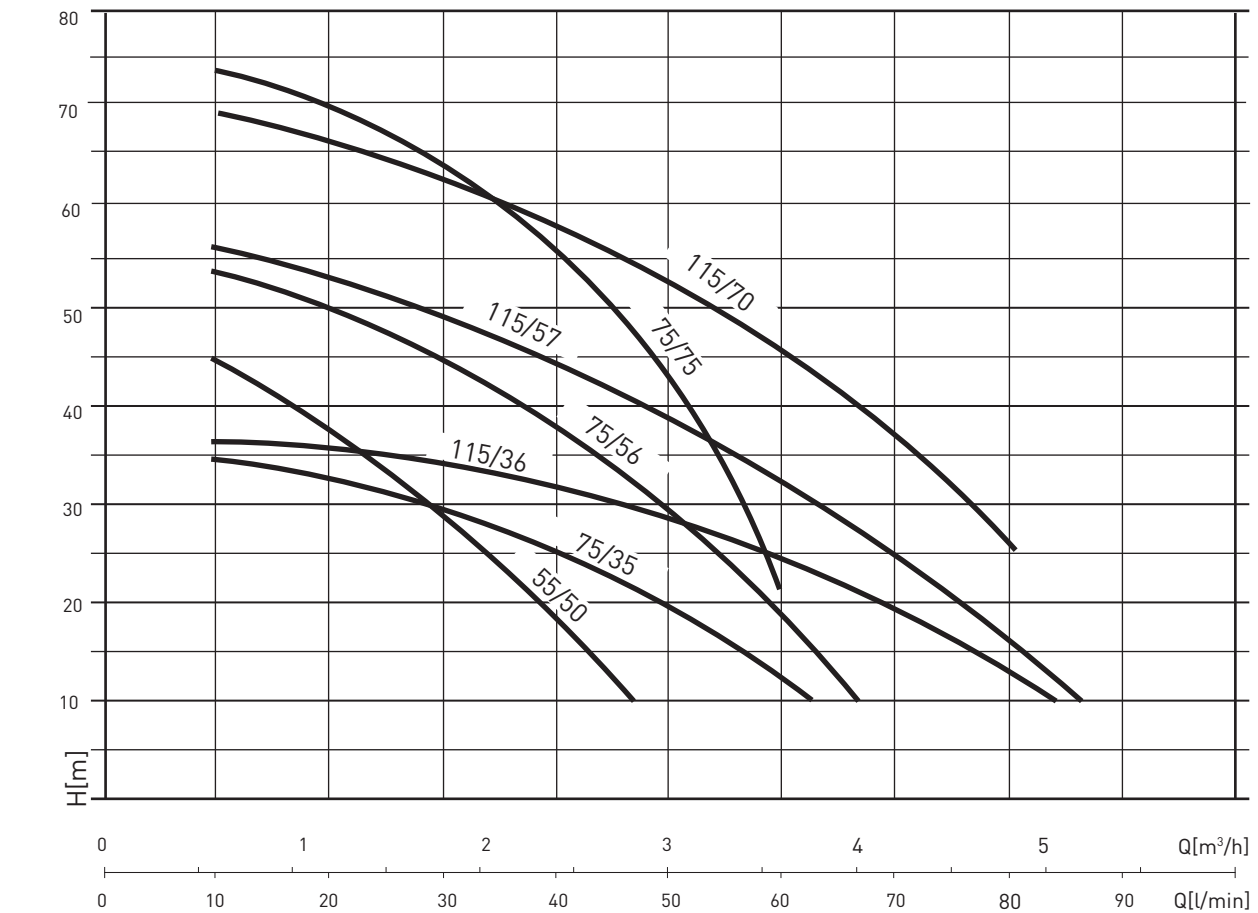
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	suction grille	Stainless steel X 16 CrNi 16 (AISI 431)
3	Base	Noryl GNF 2V
4	Impellers	Acetal resin
5	Diffusers	Polycarbonate with ceramic insert at point of wear
6	Diffuser cap	Polycarbonate with stainless steel inserts at point of wear
7	Motor shaft	Hexagonal in stainless steel X 10 CrNiS 1809 (AISI 303) with ceramic coating at point of wear + AISI 416 on shaft section packed in the rotor
8	Mechanical gasket	Graphite
9	Counterface	Aluminum oxide
10	Power cable	20 m H07 RNF-F
11	Check valve	Integrated - Plastic
12	Head	Noryl with 1" 1/4 threaded insert
-	Thrust ring inserted in each stage	



NOCCHI DOMINATOR 4"

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER Ø 4"

HYDRAULIC PERFORMANCE



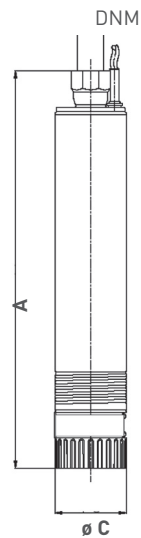
MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI DOMINATOR 4"

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER Ø 4"

PERFORMANCE TABLE

MODEL	Motor output (P2)		Power Motor (P1)		VOLT	In (A)	µF	Stages	Q	L/min	0	20	40	60	80
	HP	kW	HP	kW						m³/h	0	1.2	2.4	3.6	4.8
DOMINATOR 4" - 55/50 M	0.75	0.56	1.1	0.8	1 ~ 220 - 240 V	3.8	16	6	m.c.a. / m.w.c.	50	38.7	17			
DOMINATOR 4" - 75/35 M	0.50	0.35	0.80	0.60	1 ~ 220 - 240 V	3	12.5	5		35	33	26	11		
DOMINATOR 4" - 75/56 M	0.80	0.60	1	0.75	1 ~ 220 - 240 V	3.3	16	8		56	48.9	38.1	19		
DOMINATOR 4" - 75/75 M	0.95	0.7	1.5	1.1	1 ~ 230 - 240 V	5	20	11		75	70	53	21.6		
DOMINATOR 4" - 115/36 M	0.55	0.40	1	0.75	1 ~ 220 - 240 V	3.5	12.5	5		36	35	32	25	13	
DOMINATOR 4" - 115/57 M	1	0.8	1.50	1.10	1 ~ 220 - 240 V	5	16	8		57	52	44.4	31.5	16.6	
DOMINATOR 4" - 115/70 M	1.1	0.8	1.8	1.3	1 ~ 230 - 240 V	6	20	10		70	65	59	45.4	27	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)				Weight (kg)
	A	Ø C	Free clearance	DNM	
DOMINATOR 4" - 55/50	549	98	2 mm	1"1/4	10.4
DOMINATOR 4" - 75/35	560	98	2 mm	1"1/4	10.2
DOMINATOR 4" - 75/56	643	98	2 mm	1"1/4	10.8
DOMINATOR 4" - 75/75	760	98	2 mm	1"1/4	12.5
DOMINATOR 4" - 115/36	560	98	2 mm	1"1/4	10.2
DOMINATOR 4" - 115/57	643	98	2 mm	1"1/4	10.8
DOMINATOR 4" - 115/70	732	98	2 mm	1"1/4	12.5

NOCCHI DOMINATOR 5"

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER

100% STAINLESS STEEL

DOMINATOR 5" submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc. Automatic version equipped with float switch.

APPLICATIONS

- Lifting from traditional wells.
- Installations in tanks in the home for pressurization of domestic drinking water systems.
- Small automatic garden irrigation systems.
- Gravity irrigation systems.

APPLICATION DATA

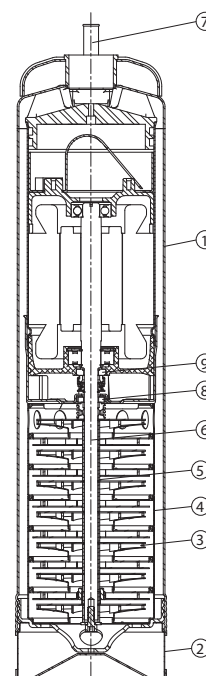
- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 17 m.

TABLE OF MATERIALS

Component		Material	
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	
2	suction grille	Stainless steel X5 CrNi 1810 (AISI 304)	
3	Impellers	Stainless steel X5 CrNi 1810 (AISI 304)	
4	Diffusers	Stainless steel X5 CrNi 1810 (AISI 304)	
5	Spacer	Stainless steel X5 CrNi 1810 (AISI 304)	
6	Motor shaft	Stainless steel X5 CrNi 1810 (AISI 304)	
7	Power cable	20 m H07 RN-F with plug	
8	Mechanical gasket	Graphite	Lubricated in oil chamber
9	Counterface	Aluminum oxide	

MOTOR

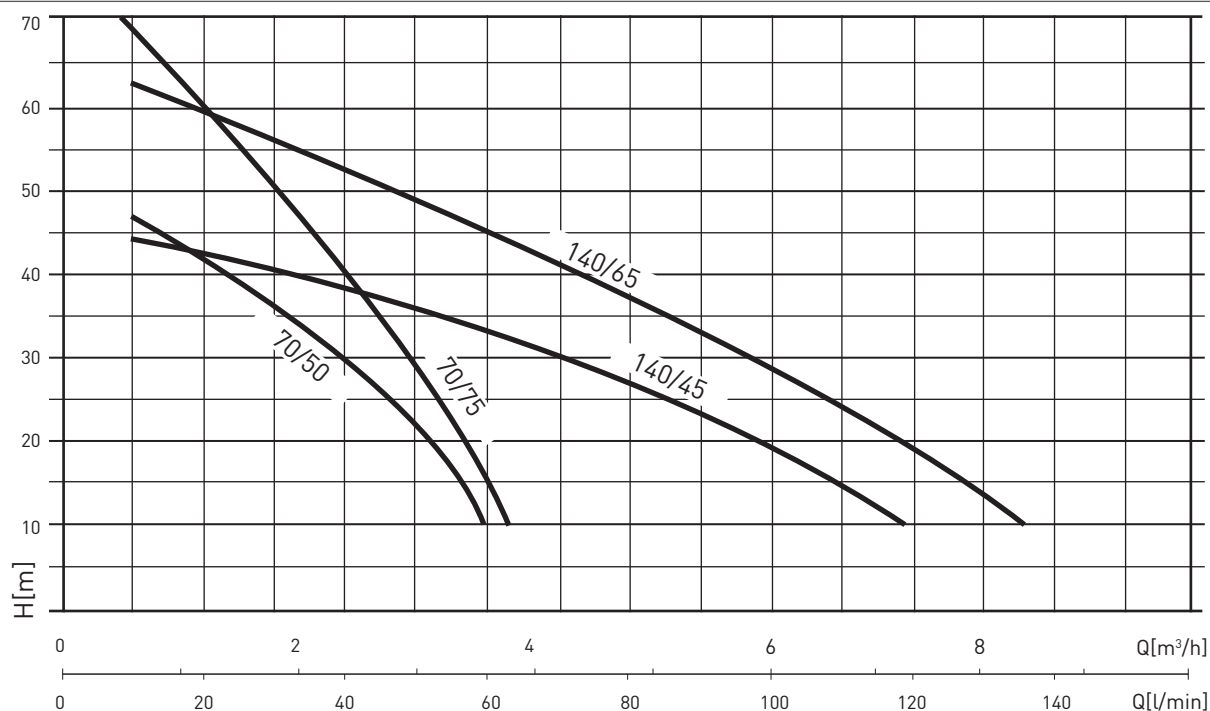
- Dry motor with stainless steel body cooled by pumped liquid.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.
- Suitable for continuous duty.



NOCCHI DOMINATOR 5"

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP FOR FRESH WATER

HYDRAULIC PERFORMANCE

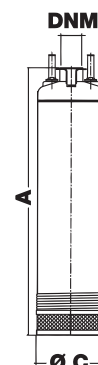


PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	µF	Stages	Q	L/ min m³/h	0	20	40	60	80	100	120	140	
	HP	kW	HP	kW							0	1.2	2.4	3.6	4.8	6	7.2	8.4	
D 5" - 70/50B M D 5" - 70/50B M AUT	0.6	0.8	1.2	0.9	1 ~ 230	4.5	16	6	m.c.a. / m.w.c.	50.6	42.5	29.3	7.5						
D 5" - 70/50B T D 5" - 70/50B T					3 ~ 400 V 3 ~ 230 V	1.8 3													
D 5" - 70/75B M D 5" - 70/75B M AUT	1.2	0.9	2	1.45	1 ~ 230	6	20	9		75	60.7	41.4	17.2						
D 5" - 70/75B T D 5" - 70/75B T					3 ~ 400 V 3 ~ 230 V	2.1 3.7													
D 5" - 140/45B M D 5" - 140/45B M AUT	1.1	0.8	1.8	1.3	1 ~ 230	5.5	16	5		44	42	38.4	33.3	28	21.8	15.2	7.4		
D 5" - 140/45B T D 5" - 140/45B T					3 ~ 400 V 3 ~ 230 V	2 3.5													
D 5" - 140/65B M D 5" - 140/65B M AUT	1.5	1.1	2.3	1.7	1 ~ 230	7.2	20	7		62	57	51	45	38	27.9	18.2	9		
D 5" - 140/65B T D 5" - 140/65B T					3 ~ 400 V 3 ~ 230 V	2.5 4.4													

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)				Weight (kg)
	A	$\varnothing C$	Free clearance	DNM	
D 5" - 70/50	475	132	2 mm	1"1/4	13.7
D 5" - 70/75	530	132	2 mm	1"1/4	15.5
D 5" - 140/45	495	132	2 mm	1"1/4	14.2
D 5" - 140/65	550	132	2 mm	1"1/4	15.8



NOCCHI SCM 4 PLUS

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

MAXIMUM STRENGTH AND RESISTANCE TO WATER HAMMER EFFECT, HIGH RESISTANCE TO ABRASION BY SAND, OPTIMAL HYDRAULIC PERFORMANCE

SCM 4 PLUS submersible pumps comprise a multi-stage pump unit coupled directly with a submersible motor. Ideal for lifting water from deep wells, with $\varnothing$ 4" (100 mm).

APPLICATIONS

- Lifting from bore hole wells.
- Automatic garden irrigation systems.
- Gravity irrigation for agricultural use.
- Drinking water aqueducts.
- Lifting and supply of storage deposits or pressure autoclaves, for civil and industrial systems.

APPLICATION DATA

- Type of liquid: clean, non aggressive, non explosive, free of solid bodies.
- Maximum liquid temperature: 35°C.
- Max. hourly start-ups: 30.
- Motor protection with thermal cut-out to be fitted by user.

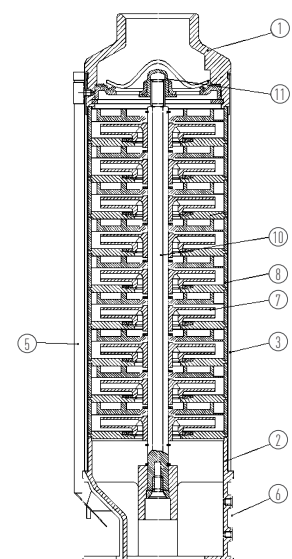
MOTOR

- Submerged motor of 4".
- Stator sealed and set in special resin.
- Thrust bearings and bushings, water-cooled.
- Removable power cable, approx. 1.75 m.
- Non-polluting water cooling.
- NEMA 4" flange.
- Protection rating IP 68.
- Insulation class B.
- Rotation speed 2850 rpm.
- Special mechanical gasket with sand-proof protection.



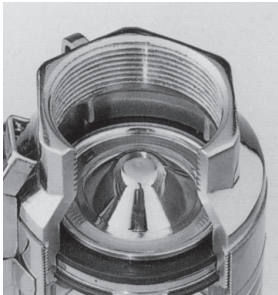
TABLE OF MATERIALS

Component		Material
1	Delivery port	Microcast stainless steel X5 CrNi1810 (AISI 304)
2	Suction flange	Microcast stainless steel X5 CrNi1810 (AISI 304)
3	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
4	Check valve	Stainless steel X5 CrNi 1810 (AISI 304)
5	Cable protection ducting	Stainless steel X5 CrNi 1810 (AISI 304)
6	Filter	Stainless steel X5 CrNi 1810 (AISI 304)
7	Impellers	Acetal resin
8	Diffuser	Polycarbonate with ceramic insert at point of wear
9	Diffuser cap	Polycarbonate with ceramic insert at point of wear
10	Motor shaft	Hexagonal in stainless steel X10 CrNiS1809 (AISI 303) with ceramic coating at point of wear
11	Self-lubricating delivery bearing	Molybdenum bisulphide filled polyamide
-	Thrust ring inserted in each stage	



NOCCHI SCM 4 PLUS

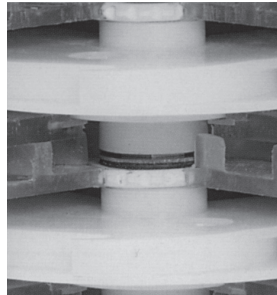
ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR



Delivery port in microcast AISI 304 stainless steel with a double internal tapered profile and stainless steel check valve and double slot for the safety cable.

ADVANTAGES:

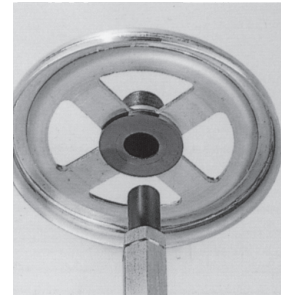
Eliminates pressure drops and offers maximum strength and resistance to water hammer effect to enhance pump protection.



Floating impeller with shim ring on suction port in stainless steel, comolded with a diffuser cover. Thrust bearing inserted between the impeller hub and diffuser formed by 1 ceramic ring comolded with the diffuser and one free graphite ring. "International Patent"

ADVANTAGES:

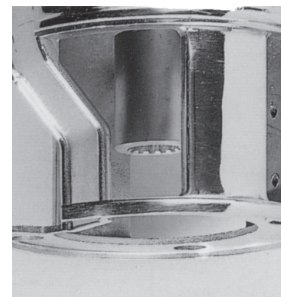
This remarkable technological innovation achieves a significant increase in performance, combined with optimal resistance to abrasion by sand and protection against dry running.



Shaft guide bearing with self-lubricating closed bushing in molybdenum bisulphide filled polyamide and stainless steel shaft with ceramic coating at the point of wear.

ADVANTAGES:

Increased pump lifetime - protection against dry running - optimal resistance to wear by sand.



Motor bracket and suction outlet in microcast AISI 304 stainless steel, rigidly welded to the external stainless steel jacket. Suction grille in stainless steel.

ADVANTAGES:

Eliminates pressure drops and offers maximum strength and resistance to water hammer effect to enhance pump protection.

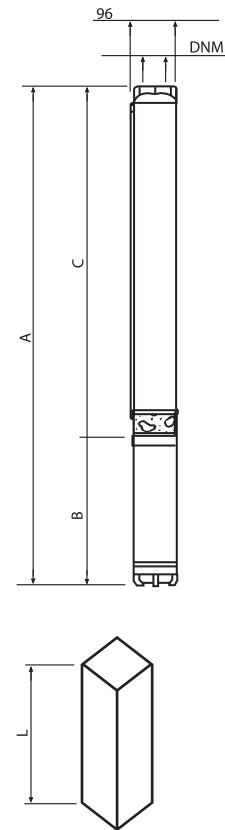


NOCCHI SCM 4 PLUS

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

PUMP LENGTH CALCULATION TABLE

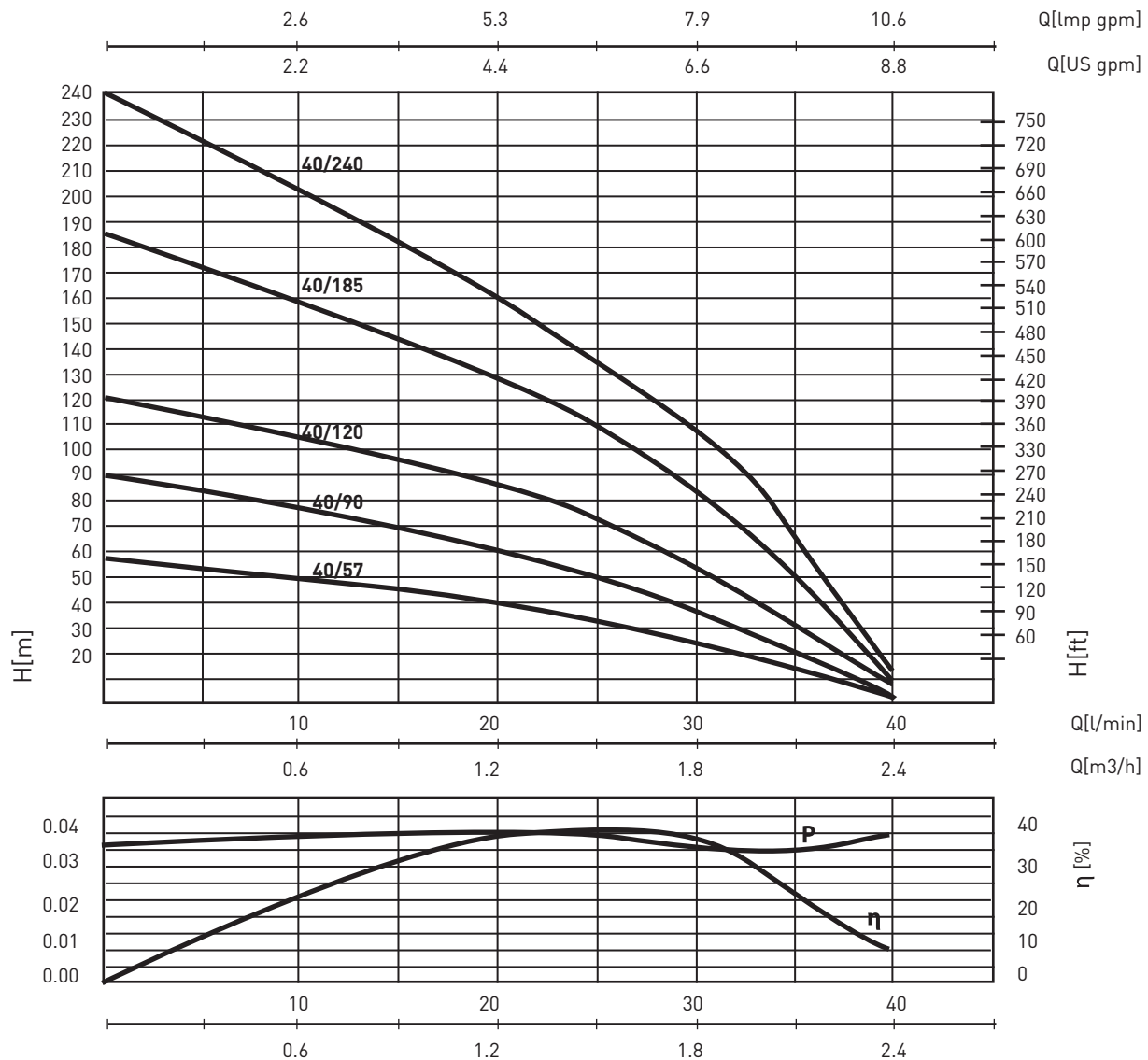
MODEL	A Total length mm	B Total length mm	C Total length mm	DNM	L Packaging length mm	Weight total kg
SCM 4 PLUS 40/57 M	584	250	334	1"1/4	610	11.8
SCM 4 PLUS 40/57 T	569	235	334		610	10.8
SCM 4 PLUS 40/90 M	711	265	446		800	14
SCM 4 PLUS 40/90 T	696	250	446		800	12.7
SCM 4 PLUS 40/120 M	853	295	558		960	16.1
SCM 4 PLUS 40/120 T	823	265	558		960	14.9
SCM 4 PLUS 40/185 M	1122	340	782		1330	19.2
SCM 4 PLUS 40/185 T	1077	295	782		1120	17.9
SCM 4 PLUS 40/240 M	1358	375	983		1580	22.2
SCM 4 PLUS 40/240 T	1323	340	983		1330	20.8
SCM 4 PLUS 55/50 M	517	250	267		610	11.3
SCM 4 PLUS 55/50 T	502	235	267		610	10.3
SCM 4 PLUS 55/80 M	622	265	357		800	13.1
SCM 4 PLUS 55/80 T	607	250	357		800	11.8
SCM 4 PLUS 55/105 M	696	295	401		800	14.9
SCM 4 PLUS 55/105 T	666	265	401		800	13.7
SCM 4 PLUS 55/160 M	875	340	535		960	17.3
SCM 4 PLUS 55/160 T	830	295	535		960	16
SCM 4 PLUS 55/200 M	1045	375	670		1120	19.8
SCM 4 PLUS 55/200 T	1010	340	670		1120	18.4
SCM 4 PLUS 55/300 T	1336	375	961		1580	22.3
SCM 4 PLUS 75/40 M	553	250	303	1"1/4	610	11.2
SCM 4 PLUS 75/40 T	538	235	303		610	10.2
SCM 4 PLUS 75/56 M	625	265	360		800	12.9
SCM 4 PLUS 75/56 T	610	250	360		800	11.6
SCM 4 PLUS 75/75 M	740	295	445		800	14.8
SCM 4 PLUS 75/75 T	710	265	445		800	13.6
SCM 4 PLUS 75/110 M	928	340	588		960	17.1
SCM 4 PLUS 75/110 T	883	295	588		960	15.8
SCM 4 PLUS 75/140 M	1077	375	702		1120	19.4
SCM 4 PLUS 75/140 T	1042	340	702		1120	18
SCM 4 PLUS 75/210 T	1391	375	1016		1580	21.5
SCM 4 PLUS 115/30 M	496	250	246	2"	610	11
SCM 4 PLUS 115/30 T	481	235	246		610	10
SCM 4 PLUS 115/50 M	596	265	331		610	12.8
SCM 4 PLUS 115/50 T	581	250	331		610	11.5
SCM 4 PLUS 115/65 M	683	295	388		800	14.4
SCM 4 PLUS 115/65 T	653	265	388		800	13.2
SCM 4 PLUS 115/95 M	842	340	502		960	16.6
SCM 4 PLUS 115/95 T	797	295	502		960	15.3
SCM 4 PLUS 115/122 M	992	375	617		1120	18.8
SCM 4 PLUS 115/122 T	957	340	617		960	17.4
SCM 4 PLUS 115/185 T	1221	375	846		1330	20.8
SCM 4 PLUS 115/245 T	1582	480	1102		1870	25
SCM 4 PLUS 150/42 M	648	295	353	2"	800	14
SCM 4 PLUS 150/42 T	618	265	353		800	12.8
SCM 4 PLUS 150/64 M	803	340	463		960	16.1
SCM 4 PLUS 150/64 T	758	295	463		800	14.8
SCM 4 PLUS 150/84 M	948	375	573		960	18.3
SCM 4 PLUS 150/84 T	913	340	573		960	16.9
SCM 4 PLUS 150/120 T	1161	375	786		1330	20.1
SCM 4 PLUS 150/170 T	1523	480	1043		1580	24.2
SCM 4 PLUS 150/200 T	1781	555	1226		1870	33.1
SCM 4 PLUS 150/300 T	2378	675	1703		2590	42.3
SCM 4 PLUS 250/53 M	970	375	595	2"	1120	18
SCM 4 PLUS 250/53 T	935	340	595		960	15.6
SCM 4 PLUS 250/78 T	1205	375	830		1330	18
SCM 4 PLUS 250/100 T	1516	480	1036		1870	23.9
SCM 4 PLUS 250/127 T	1798	555	1243		1870	29.6
SCM 4 PLUS 250/185 T	2433	675	1758		2590	42.6



NOCCHI SCM 4 PLUS 40

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. % indicates the hydraulic performance of the pump

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

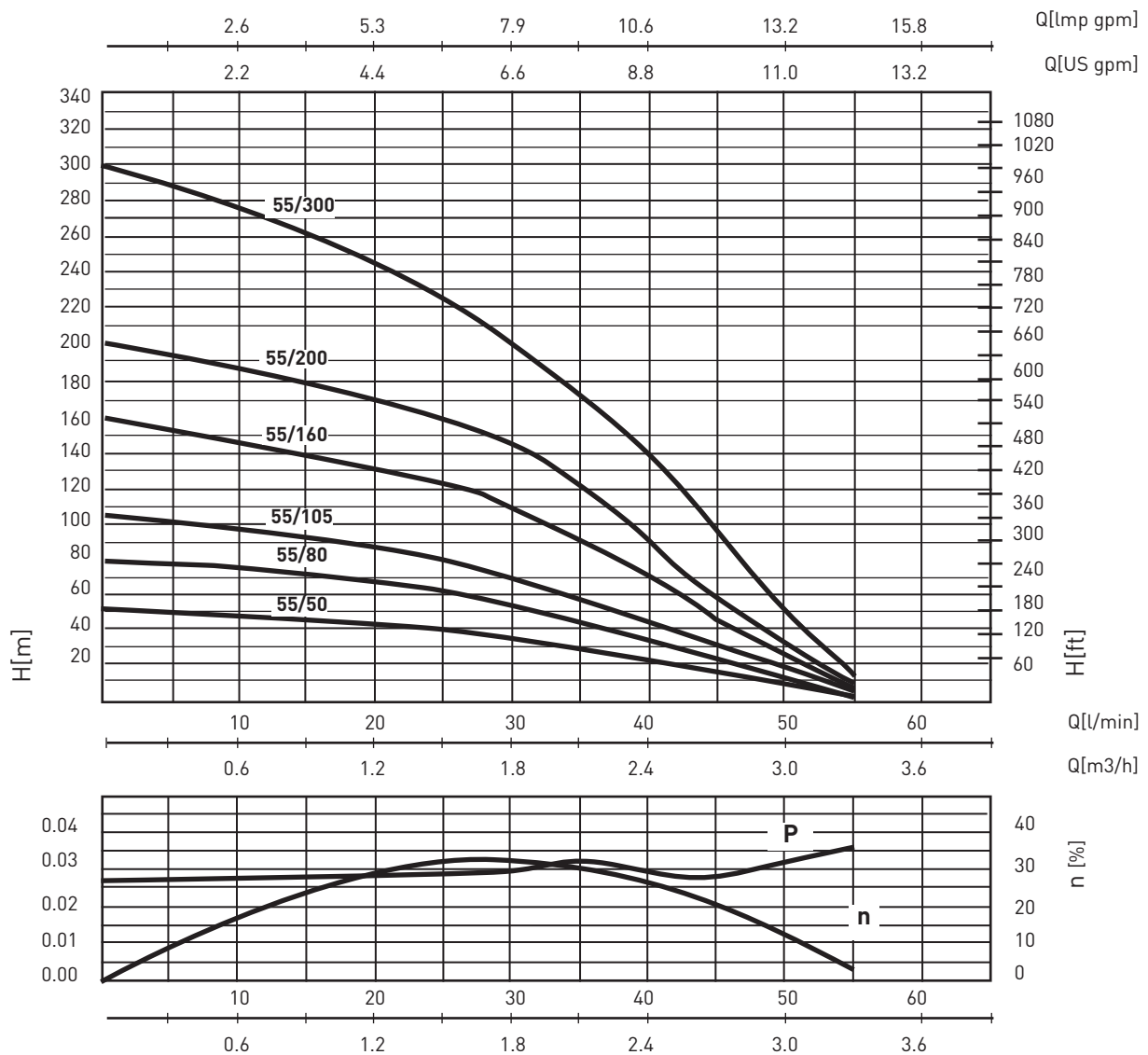
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μF	Q	L/min	10	20	30	40	Ø DNM
		HP	kW					m³/h	0.6	1.2	1.8	2.4	
SCM 4 PLUS-40/57 M SCM 4 PLUS-40/57 T	9	0.5	0.37	1 ~ 230 V 3 ~ 400 V	3.4 1.2	16	m.c.a. / m.w.c.		49	41	26	3	1"1/4
SCM 4 PLUS-40/90 M SCM 4 PLUS-40/90 T	14	0.75	0.55	1 ~ 230 V 3 ~ 400 V	4.4 1.7	20			76	64	40	4	
SCM 4 PLUS-40/120 M SCM 4 PLUS-40/120 T	19	1	0.75	1 ~ 230 V 3 ~ 400 V	5.9 2.2	30			104	86	55	7	
SCM 4 PLUS-40/185 M SCM 4 PLUS-40/185 T	29	1.5	1.1	1 ~ 230 V 3 ~ 400 V	7.8 3	40			158	130	85	10	
SCM 4 PLUS-40/240 M SCM 4 PLUS-40/240 T	38	2	1.5	1 ~ 230 V 3 ~ 400 V	10.2 4	50			205	160	110	12	

NOCCHI SCM 4 PLUS 55

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p % indicates the hydraulic performance of the pump

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

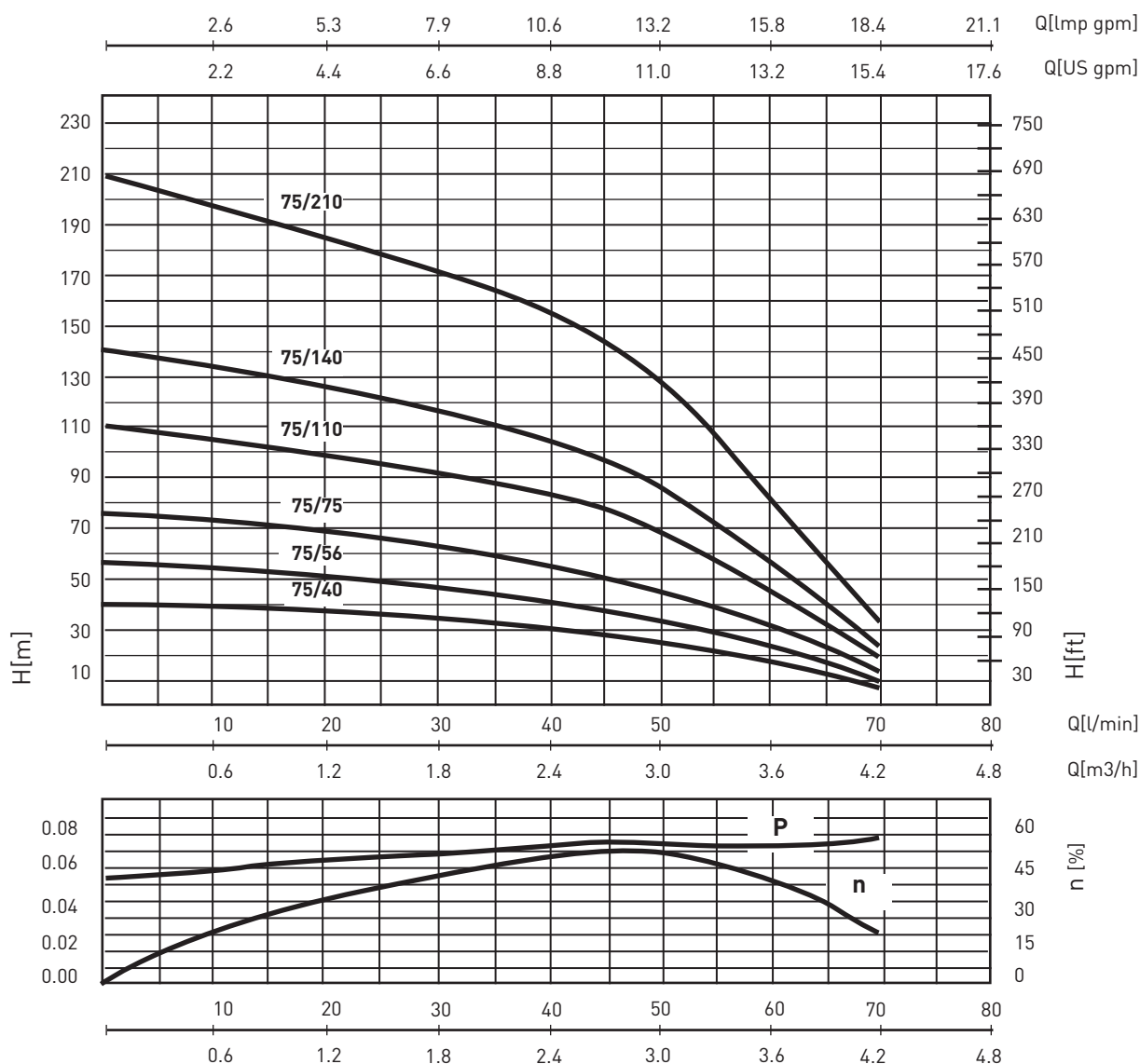
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μ F.	Q	L/min	10	20	30	40	50	$\emptyset$ DNM
		HP	kW					m³/h	0.6	1.2	1.8	2.4	3	
SCM 4 PLUS-55/50 M SCM 4 PLUS-55/50 T	6	0.5	0.37	1 - 230 V 3 - 400 V	3.4 1.2	16	m.c.a. / m.w.c.		47	42	36	23	8	1"1/4
SCM 4 PLUS-55/80 M SCM 4 PLUS-55/80 T	10	0.75	0.55	1 - 230 V 3 - 400 V	4.4 1.7	20			75	66	55	35	12	
SCM 4 PLUS-55/105 M SCM 4 PLUS-55/105 T	12	1	0.75	1 - 230 V 3 - 400 V	5.9 2.2	30			98	87	72	46	12	
SCM 4 PLUS-55/160 M SCM 4 PLUS-55/160 T	18	1.5	1.1	1 - 230 V 3 - 400 V	7.8 3	40			145	132	110	70	24	
SCM 4 PLUS-55/200 M SCM 4 PLUS-55/200 T	24	2	1.5	1 - 230 V 3 - 400 V	10.2 4	50			187	169	145	90	30	
SCM 4 PLUS-55/300 T	37	3	2.2	3 - 400 V	5.6				278	244	200	140	50	

NOCCHI SCM 4 PLUS 75

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p % indicates the hydraulic performance of the pump

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

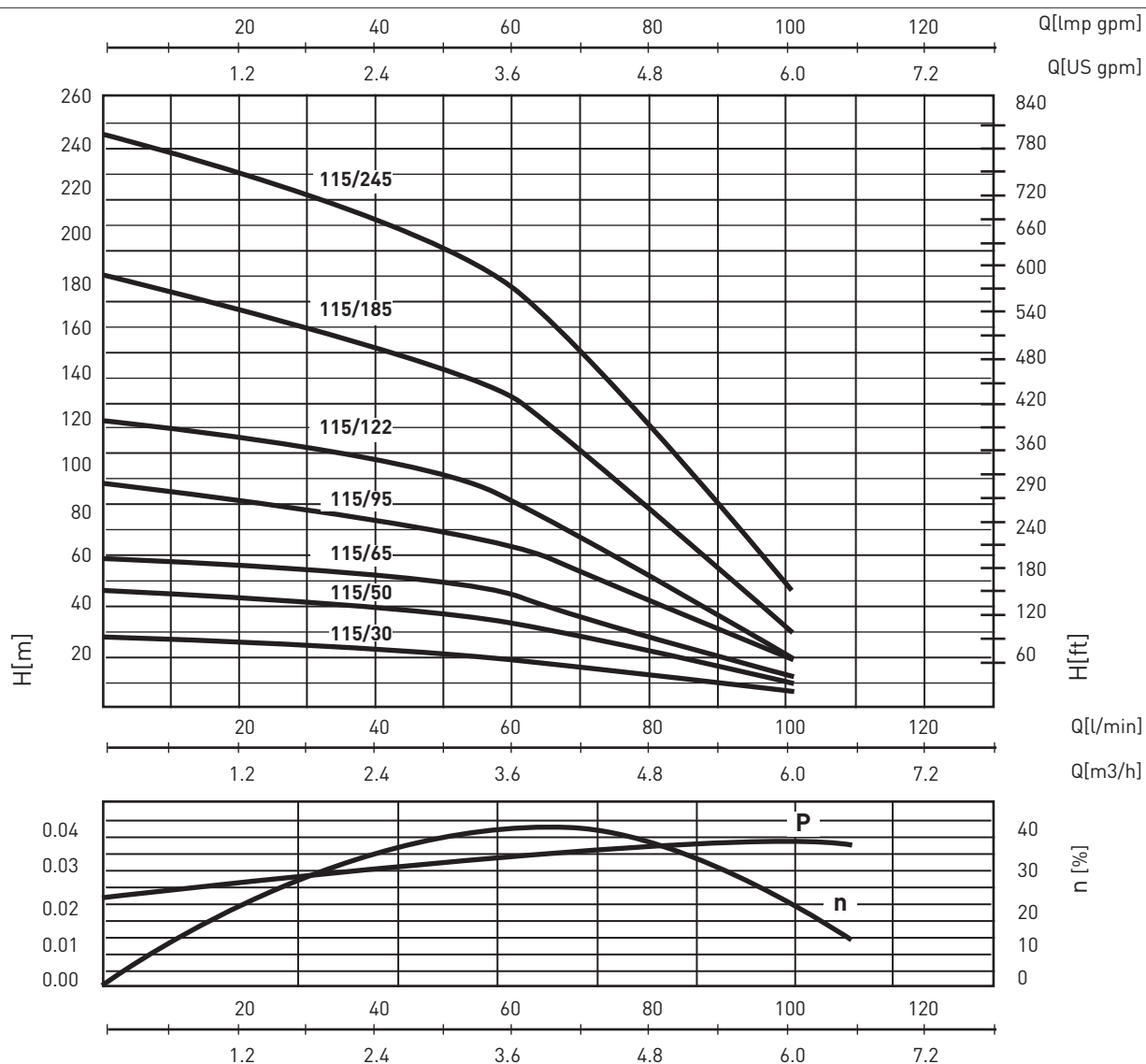
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μF	Q	L/min	20	30	40	50	60	$\emptyset$ DNM
		HP	kW					m³/h	1.2	1.8	2.4	3	3.6	
SCM 4 PLUS-75/40 M SCM 4 PLUS-75/40 T	6	0.5	0.37	1 - 230 V 3 - 400 V	3.4 1.2	16	n.c.a. / m.w.c.		36	33	28	23	15	1" 1/4
SCM 4 PLUS-75/56 M SCM 4 PLUS-75/56 T	8	0.75	0.55	1 - 230 V 3 - 400 V	4.4 1.7	20			50	45	40	32	21	
SCM 4 PLUS-75/75 M SCM 4 PLUS-75/75 T SCM 4 PLUS-75/75 T	11	1	0.75	1 - 230 V 3 - 400 V 3 - 230 V	5.9 2.2 3.8	30			67	62	55	45	30	
SCM 4 PLUS-75/110 M SCM 4 PLUS-75/110 T	16	1.5	1.1	1 - 230 V 3 - 400 V	7.8 3	40			100	92	82	68	44	
SCM 4 PLUS-75/140 M SCM 4 PLUS-75/140 T	20	2	1.5	1 - 230 V 3 - 400 V	10.2 4	50			127	116	105	86	57	
SCM 4 PLUS-75/210 T	30	3	2.2	3 - 400 V	5.6				186	170	155	130	80	

NOCCHI SCM 4 PLUS 115

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p % indicates the hydraulic performance of the pump
 MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

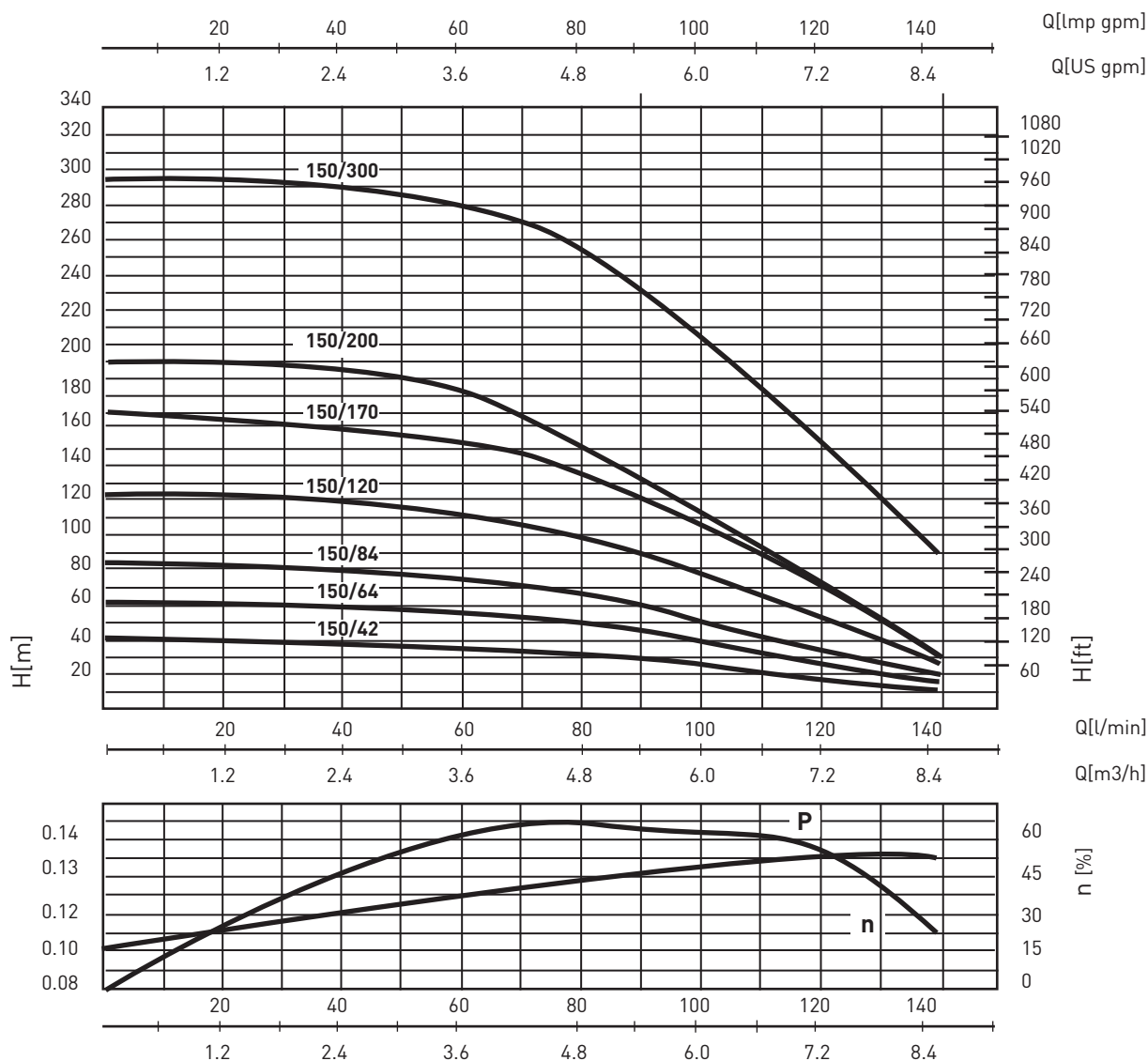
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	µF.	Q	L/min	30	40	50	60	80	90	100	Ø DNM
		HP	kW					m³/h	1.8	2.4	3	3.6	4.8	5.4	6	
SCM 4 PLUS-115/30 M SCM 4 PLUS-115/30 T	4	0.5	0.37	1 ~ 230 V 3 ~ 400 V	3.4 1.2	16	m.c.a. / m.w.c.	26	24	22	20	13	9	6.4	1 1/4	
SCM 4 PLUS-115/50 M SCM 4 PLUS-115/50 T	7	0.75	0.55	1 ~ 230 V 3 ~ 400 V	4.4 1.7	20		46	43	40	36	23	16	10		
SCM 4 PLUS-115/65 M SCM 4 PLUS-115/65 T SCM 4 PLUS-115/65 T	9	1	0.75	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	5.9 2.2 3.8	30		58	55	51	46	29	20	11		
SCM 4 PLUS-115/95 M SCM 4 PLUS-115/95 T SCM 4 PLUS-115/95 T	13	1.5	1.1	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	7.8 3 5.2	40		83	80	74	67	43	30	18		
SCM 4 PLUS-115/122 M SCM 4 PLUS-115/122 T	17	2	1.5	1 ~ 230 V 3 ~ 400 V	10.2 4	50		109	106	98	88	55	38	21		
SCM 4 PLUS-115/185 T	24	3	2.2	3 ~ 400 V	5.6			160	153	143	130	85	58	31		
SCM 4 PLUS-115/245 T	33	4	3	3 ~ 400 V	7.5			218	210	198	179	118	84	47		

NOCCHI SCM 4 PLUS 150

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p indicates the hydraulic performance of the pump

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

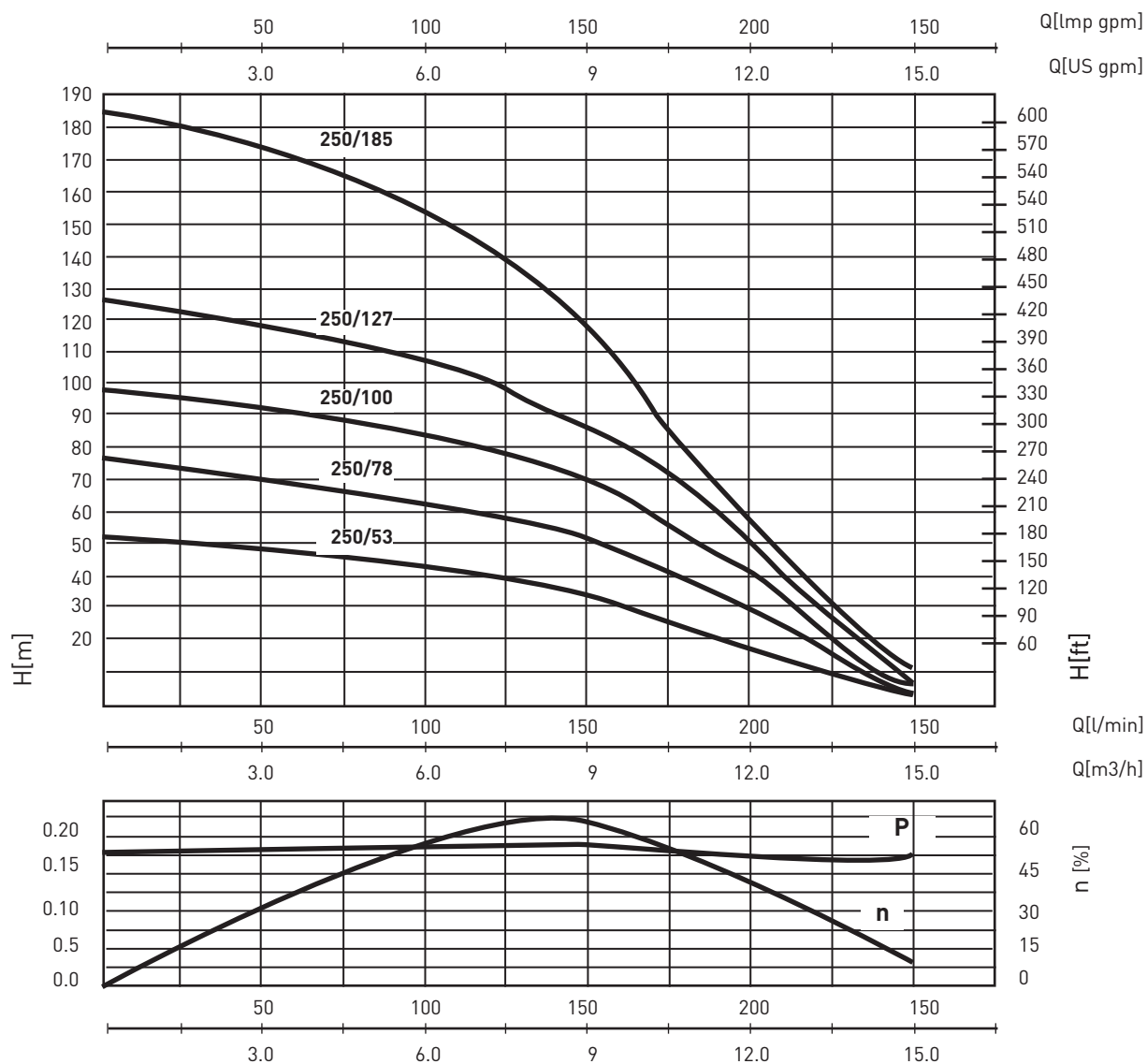
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μF	Q	L/min	40	50	60	80	100	120	140	$\emptyset$ DNM
		HP	kW					m³/h	2.4	3	3.6	4.8	6	7.2	8.4	
SCM 4 PLUS-150/42 M SCM 4 PLUS-150/42 T SCM 4 PLUS-150/42 T	6	1	0.75	1 ~ 230V 3 ~ 400 V 3 ~ 230 V	5.9 2.2 3.8	30	m.c.a. / m.w.c.		38	37	36	33	26	17	10	2"
SCM 4 PLUS-150/64 M SCM 4 PLUS-150/64 T SCM 4 PLUS-150/64 T	9	1.5	1.1	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	7.8 3 5.2	40			59	58	57	50	39	27	15	
SCM 4 PLUS-150/84 M SCM 4 PLUS-150/84 T SCM 4 PLUS-150/84 T	12	2	1.5	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	10.2 4 5.2	50			80	78	75	64	50	34	20	
SCM 4 PLUS-150/120 T	17	3	2.2	3 ~ 400 V	5.6				116	113	108	96	77	53	26	
SCM 4 PLUS-150/170 T	24	4	3	3 ~ 400 V	7.5				160	157	152	134	106	69	30	
SCM 4 PLUS-150/200 T	29	5.5	4	3 ~ 400 V	10.1				191	188	179	152	112	71	32	
SCM 4 PLUS-150/300 T	42	7.5	5.5	3 ~ 400 V	13.6				292	290	285	252	210	155	82	

NOCCHI SCM 4 PLUS 250

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p indicates the hydraulic performance of the pump

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	µF.	Q	L/min	100	120	140	180	200	220	240	Ø DNM
		HP	kW					m³/h	6	7.2	8.4	10.8	12	13.2	14.4	
SCM 4 PLUS-250/53 M SCM 4 PLUS-250/53 T SCM 4 PLUS-250/53 T	9	2	1.5	1 ~ 230V 3 ~ 400 V 3 ~ 230 V	10.2 4 6.9	50	m.c.a. / m.w.c.		43	41	37	26	18	11	4	2"
SCM 4 PLUS-250/78 T	13	3	2.2	3 ~ 400 V	5.6			63	59	54	41	30	18	7		
SCM 4 PLUS-250/100 T	17	4	3	3 ~ 400 V	7.5			83	78	66	54	41	24	9		
SCM 4 PLUS-250/127 T	21	5.5	4	3 ~ 400 V	10.1			106	100	90	68	49	31	14		
SCM 4 PLUS-250/185 T	31	7.5	5.5	3 ~ 400 V	13.6			152	141	127	81	57	36	18		

NOCCHI SCM 4 HF 400

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

CONSTRUCTED TO OFFER DURABLE SERVICE, EFFICIENT AND RELIABLE PERFORMANCE, HIGH FLOW RATE

SCM 4 HF 400 high flow rate submersible pumps comprise multi-stage hydraulics coupled directly to a submersible motor. Ideal for lifting from deep wells, with $\varnothing$ 4" (100 mm).

APPLICATIONS

- Lifting from bore hole wells.
- Automatic garden irrigation systems.
- Gravity irrigation for agricultural use.
- Drinking water aqueducts.
- Lifting and supply of storage deposits or pressure autoclaves, for civil and industrial systems.

APPLICATION DATA

- Type of liquid: clean, non aggressive, non explosive, free of solid bodies.
- Maximum liquid temperature: 35°C.
- Max. hourly start-ups: 30.
- Motor protection with thermal cut-out to be fitted by user.

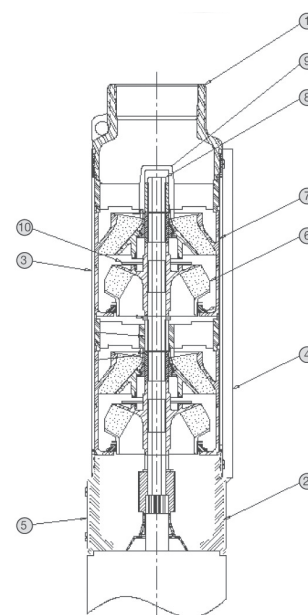
MOTOR

- Submerged motor of 4".
- Stator sealed and set in special resin.
- Thrust bearings and bushings, water-cooled.
- Removable power cable, approx. 1.75 m.
- Non-polluting water cooling.
- NEMA 4" flange.
- Protection rating IP 68.
- Insulation class B.
- Rotation speed 2850 rpm.
- Special mechanical gasket with sand-proof protection.
- Pressure compensation diaphragm.
- Supplied without capacitor (single phase version).
- Suitable for continuous duty.
- Electrical control panel available.
- On request.



TABLE OF MATERIALS

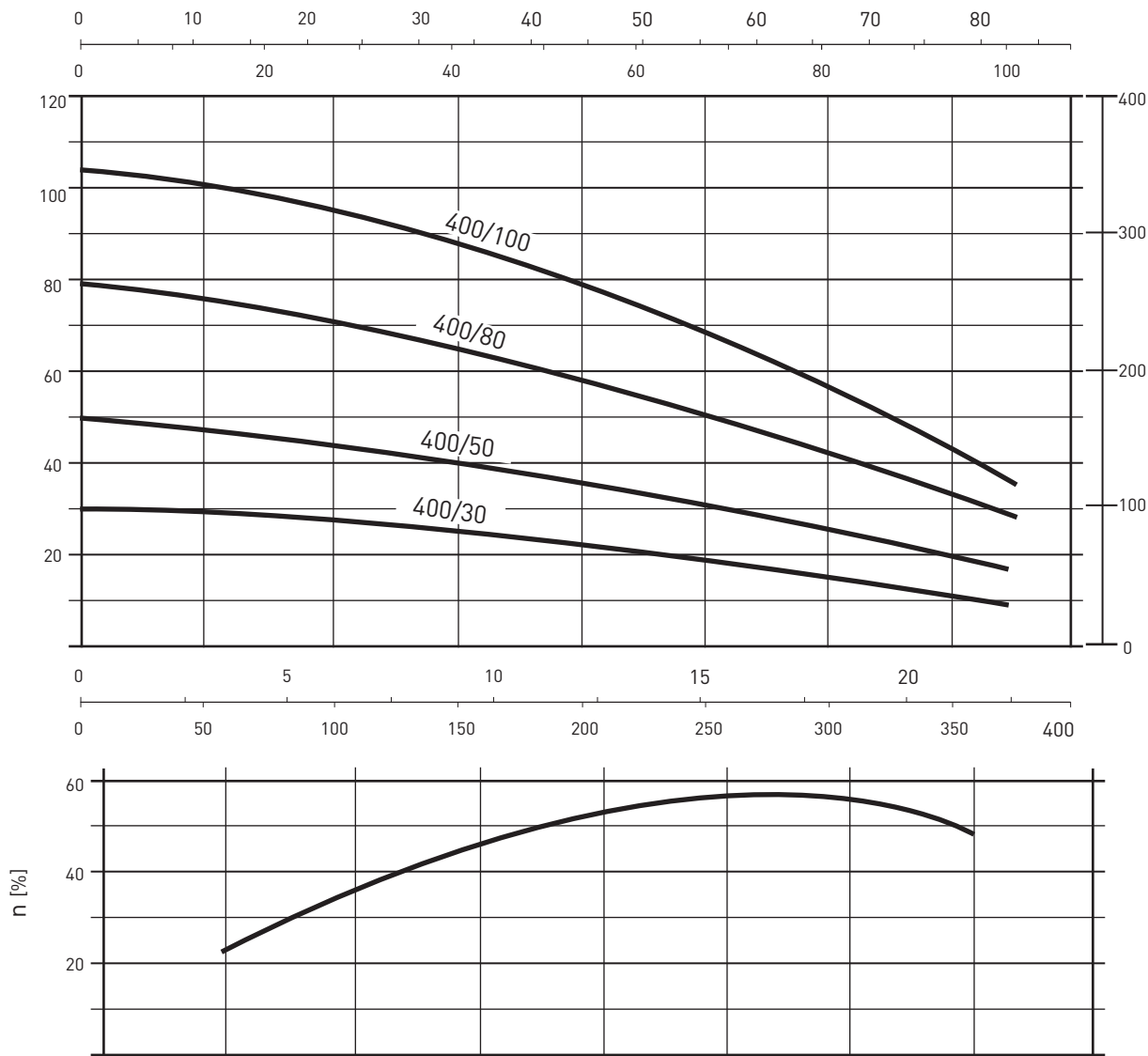
Component		Material
1	Delivery port	Stainless steel series 300 - 2" BSP
2	Suction flange	Microcast stainless steel series 300
3	Pump body	Stainless steel series 300
4	Cable protection ducting	Stainless steel series 300
5	Filter	Stainless steel series 300
6	Impeller	Glass fiber charged polycarbonate
7	Diffuser	Glass fiber charged Noryl®
8	Motor shaft (hydraulic section)	Thrust ring inserted in each stage
9	Delivery bearing	Hexagonal in stainless steel series 300
10	Thrust bearing	Acetal resin
		Phenolic



NOCCHI SCM 4 HF 400

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



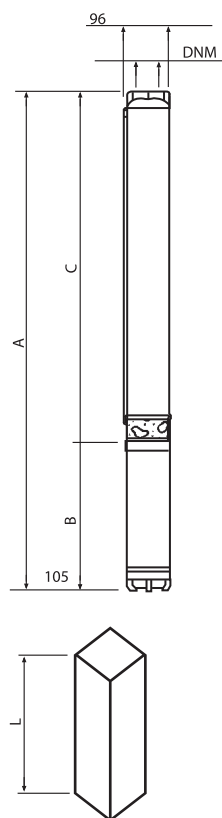
MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI SCM 4 HF 400

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

PERFORMANCE TABLE

MODEL	Power Motor (P2)		VOLT	In (A)	μF	Stages	Q	L/min	100	150	200	250	300	350
	HP	kW						m³/h	6	9	12	15	15	21
SCM4HF 400/30 M	2	1.5	1 ~ 230 V	10.2	50	7	m.c.a. / m.w.c.		27.4	25	22.2	19.5	15.5	
SCM4HF 400/30 T			3 ~ 400 V	4										
SCM4HF 400/50 T	3	2.2	3 ~ 400 V	5.6		11		43	39.2	35.5	31.1	25.1	19.2	
SCM4HF 400/80 T	5.5	4	3 ~ 400 V	10.1		18		71	65	57.7	50.3	42.2	32.6	
SCM4HF 400/100 T	7.5	5.5	3 ~ 400 V	13.6		23		96.3	88.8	80	69.6	57.7	43	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)				Weight (kg)		
	A Length total	B Length motor	C Length pump	DNM	total kg	motor kg	pump kg
SCM4HF 400/30 M	1050	375	675	2"	1120	21.5	7
SCM4HF 400/30 T	1015	340	675		1120	19	7
SCM4HF 400/50 T	1055	375	680		1120	21.5	8
SCM4HF 400/80 T	1635	555	1080		2590	33	9
SCM4HF 400/100 T	2235	675	1560		2590	39.4	10

NOCCHI SA

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 6" COMPLETE WITH MOTOR

INTEGRATED CHECK VALVE

SA submersible pumps comprise a multi-stage pump unit coupled directly to a submersible motor. Ideal for lifting from deep wells, ø 6" (150 mm). With flow rate up to 1100 L / min).

APPLICATIONS

- Civil and industrial water supply systems.
- Sprinkler or gravity irrigation systems.
- Pressurization.
- Fire-fighting.
- Various civil and industrial applications
- Aqueducts.

APPLICATION DATA

- Type of liquid: clean, non aggressive, non explosive, free of solid bodies.
- Maximum liquid temperature: 35°C.
- Max. hourly start-ups: 20.
- Motor protection with thermal cut-out to be fitted by user.
- Max. quantity of sand present: 40 g/m³

MOTOR

- Submerged motor of 6".
- Stator sealed and set in special resin.
- Thrust bearings and bushings, water-cooled.
- Removable power cable, approx. 1.75 m.
- Non-polluting water cooling.
- NEMA 6" flange.
- Protection rating IP 68.
- Insulation class F.
- Rotation speed 2850 rpm.
- Special mechanical gasket with sand-proof protection.
- Pressure compensation diaphragm.
- Suitable for continuous duty.
- Electrical control panel available.
- On request.
- Direction of rotation: anti-clockwise (viewed from delivery side).



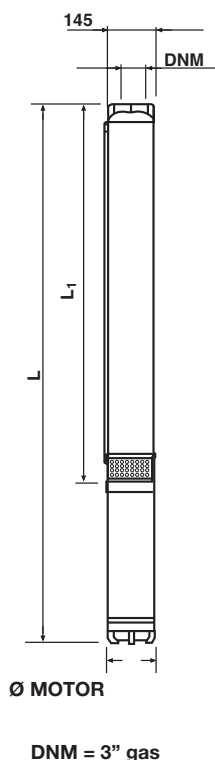
TABLE OF MATERIALS

Component	Material
Delivery port	Stainless steel X5 CrNi 1810 (AISI 304)
Suction flange	Stainless steel X5 CrNi 1810 (AISI 304)
External jacket	Stainless steel X5 CrNi 1810 (AISI 304)
Filter and cable protection ducting	Stainless steel X5 CrNi 1810 (AISI 304)
Shaft	Stainless steel AISI 420
Impeller	Noryl
Diffuser	Noryl

NOCCHI SA 615

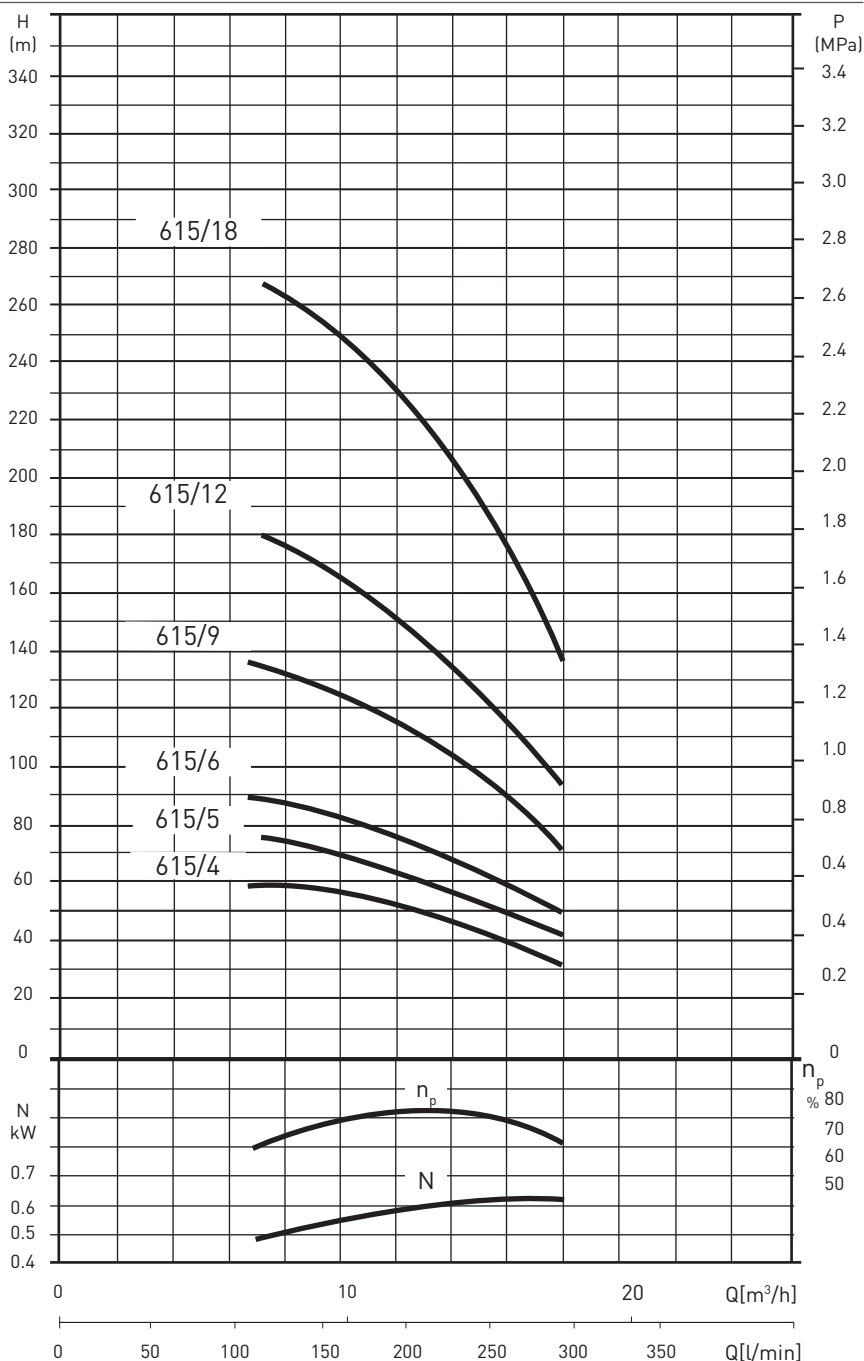
ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 6" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



WEIGHTS OVERALL DIMENSIONS AND

MODEL	Pump body	Ø	Electric pump	
	L ₁ (mm)	Motor (mm)	L (mm)	Weight (kg)
SA 615/4	440	95	815	22
SA 615/5	478	95	958	27
SA 615/6	516	95	1071	33
SA 615/9	630	95	1305	40
SA 615/12	744	138	1412	62
SA 615/18	972	138	1706	73



PERFORMANCE TABLE

The power curve refers to the power at the shaft per stage. $\eta_p\%$ indicates the hydraulic performance of the pump
 $MEI \geq 0.1$ - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

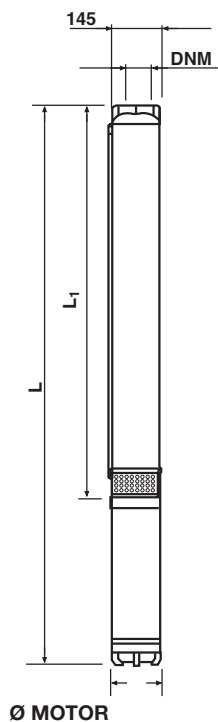
MODEL	Power Motor (P2)		VOLT	In (A)	Stages	Q	L/ min	0	120	160	200	230	260	300
	HP	kW					m³/h	0	7.2	9.6	12	13.8	15.6	18
SA 615/4*	3	2.2	3 ~ 400 V	5.6	4	m.c.a. / m.w.c.	62	60	55	51	46	39	31	
SA 615/5*	4	3	3 ~ 400 V	7.5	5		78	74	69	63	57	49	39	
SA 615/6*	5.5	4.0	3 ~ 400 V	10.1	6		94	89	82	75	68	58	46	
SA 615/9*	7.5	5.5	3 ~ 400 V	13.6	9		140	134	123	113	101	88	70	
SA 615/12	10	7.5	3 ~ 400 V	17.6	12		187	179	166	152	136	118	92	
SA 615/18	15	11	3 ~ 400 V	24.6	18		281	268	250	231	210	180	13	

* WITH 4" MOTOR

NOCCHI SA 625

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 6" COMPLETE WITH MOTOR

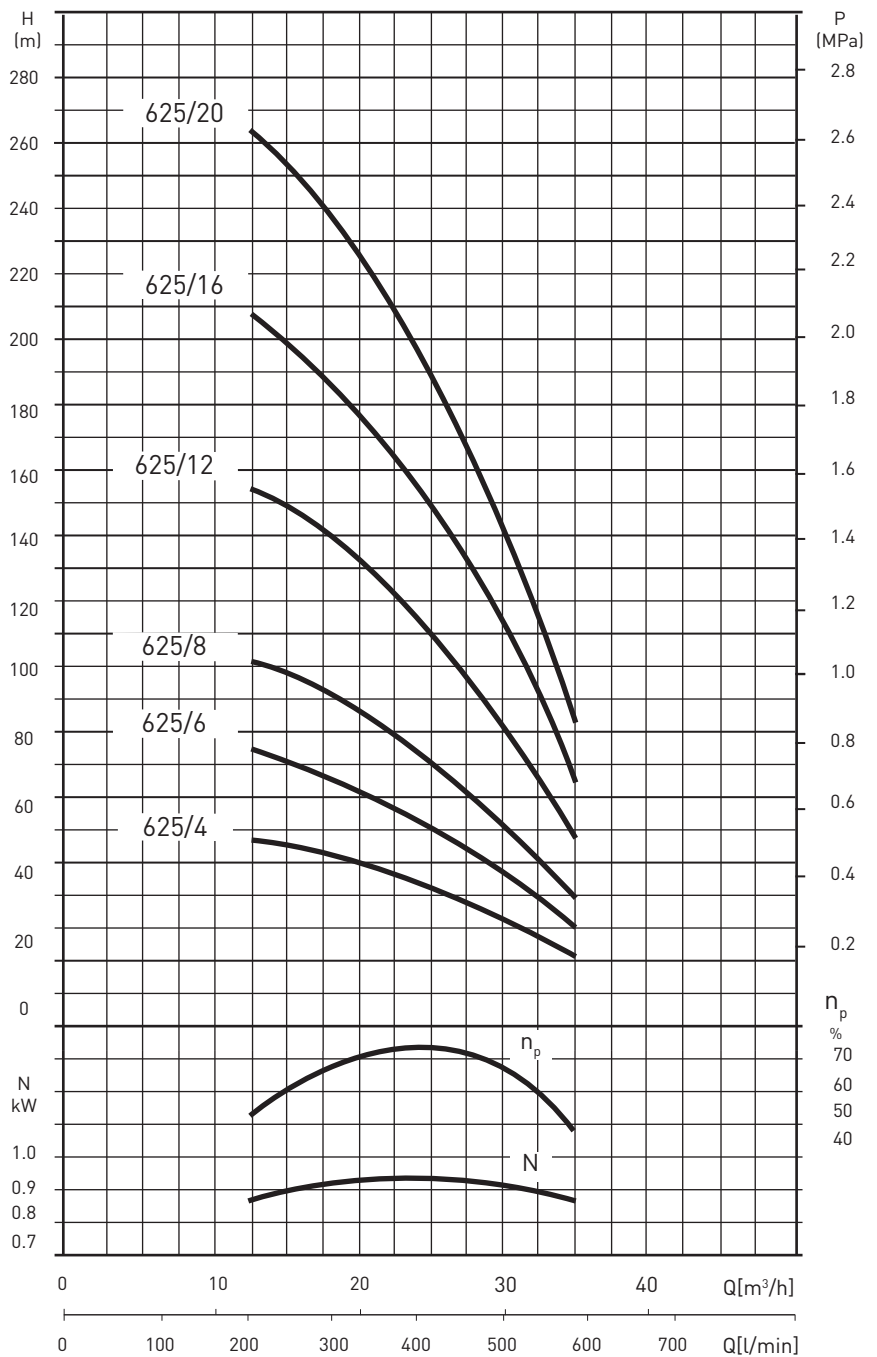
HYDRAULIC PERFORMANCE



DNM = 3" gas

OVERALL DIMENSIONS AND

MODEL	Pump body	Ø	Pump	
	L ₁ (mm)	motor (mm)	L (mm)	Weight (kg)
SA 625/4	516	95	1071	32
SA 625/6	630	95	1305	40
SA 625/8	744	138	1412	50
SA 625/12	972	138	1706	72
SA 625/16	1200	138	2019	83
SA 625/20	1480	138	2371	96



PERFORMANCE TABLE

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

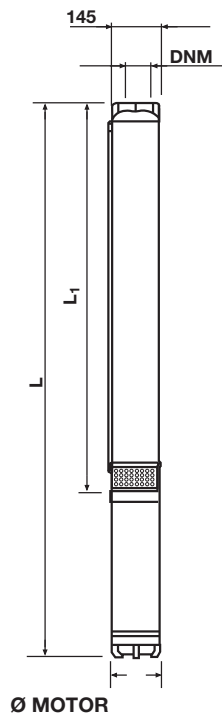
MODEL	Motor output (P2)		VOLT	In (A)	Stages	Q	L/ min	0	200	300	350	400	500	600
	HP	kW					m³/h	0	12	18	21	24	30	34
SA 625/4*	5.5	4.0	3 ~ 400 V	10.1	4	m.c.a. / m.w.c.	61	53	48	44	40	28	17	
SA 625/6*	7.5	5.5	3 ~ 400 V	13.6	6		91	80	71	66	59	43	25	
SA 625/8	10	7.5	3 ~ 400 V	17.6	8		122	106	95	87	79	58	34	
SA 625/12	15	11	3 ~ 400 V	24.6	12		182	159	143	131	119	88	50	
SA 625/16	20	15	3 ~ 400 V	32.8	16		243	212	190	177	159	118	67	
SA 625/20	25	18.5	3 ~ 400 V	39.5	20		304	265	238	220	198	146	84	

* WITH 4" MOTOR

NOCCHI SA 630

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 6" COMPLETE WITH MOTOR

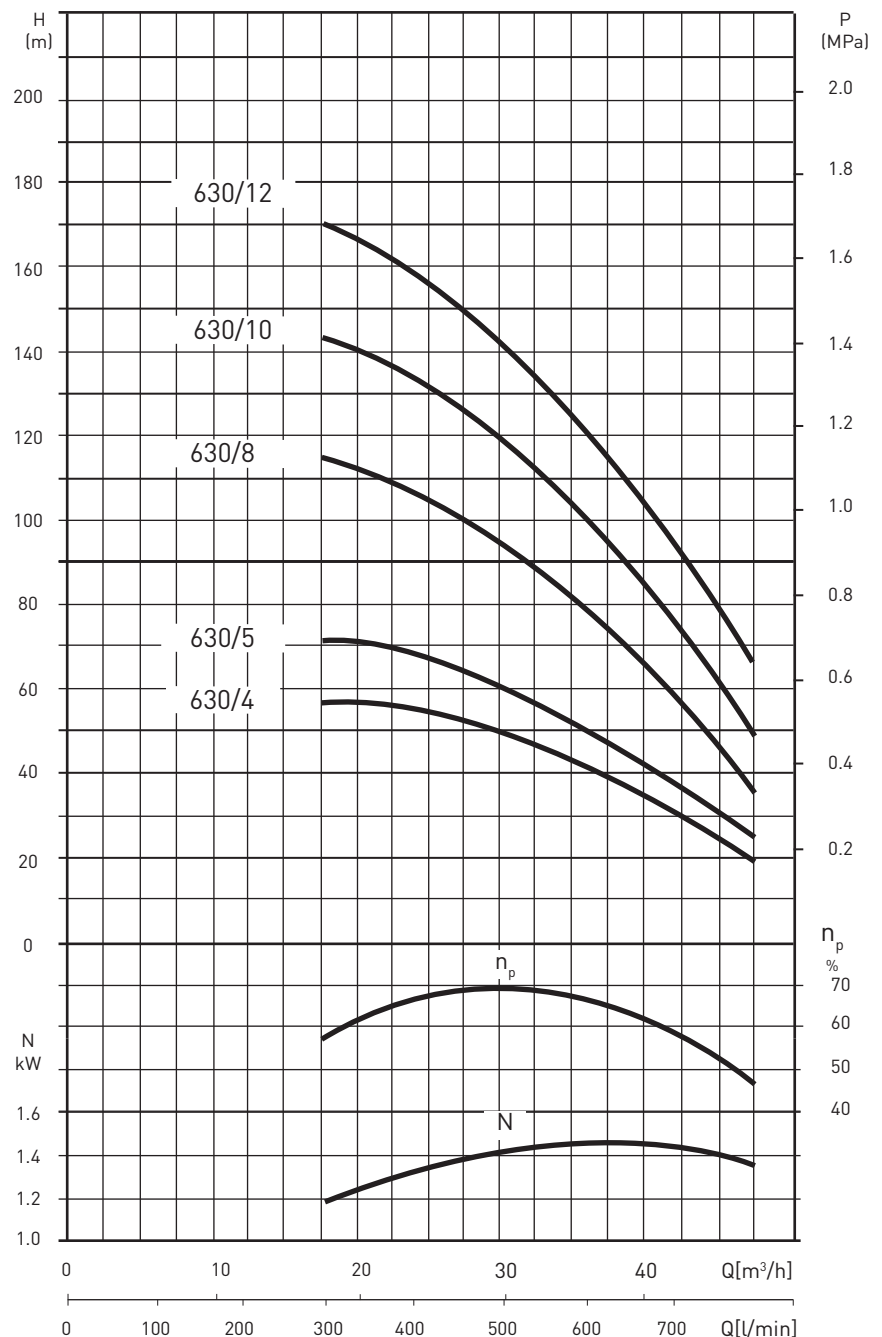
HYDRAULIC PERFORMANCE



DNM = 3" gas

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Pump body	Ø	Pump	
	L ₁ (mm)	motor (mm)	L (mm)	Weight (kg)
SA 630/4	528	95	1203	38
SA 630/5	588	138	1256	59
SA 630/8	768	138	1502	68
SA 630/10	888	138	1707	78
SA 630/12	1008	138	1899	88



The power curve refers to the power at the shaft per stage. η_p indicates the hydraulic performance of the pump
 MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PERFORMANCE TABLE

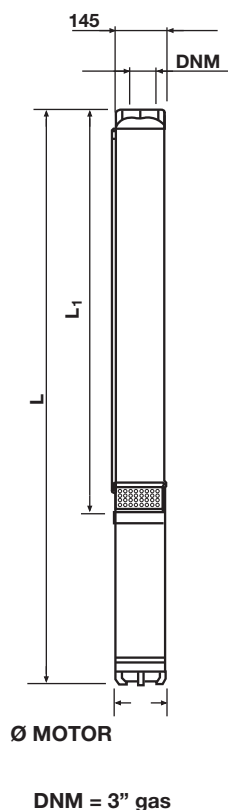
MODEL	Motor output (P2)		VOLT	In (A)	Stages	Q	L/ min	0	300	400	500	600	700	800
	HP	kW					m³/h	0	18	24	30	36	42	48
SA 630/4*	7.5	5.5	3 ~ 400 V	13.6	4	m.c.a. / m.w.c.	63	57	53	47	40	30	19	
SA 630/5	10	7.5	3 ~ 400 V	17.6	5		78	72	67	59	50	37	23	
SA 630/8	15	11	3 ~ 400 V	24.6	8		126	114	106	94	80	62	37	
SA 630/10	20	15	3 ~ 400 V	32.8	10		157	143	133	119	101	76	45	
SA 630/12	25	18.5	3 ~ 400 V	39.5	12		188	171	160	143	122	92	55	

* WITH 4" MOTOR

NOCCHI SA 650

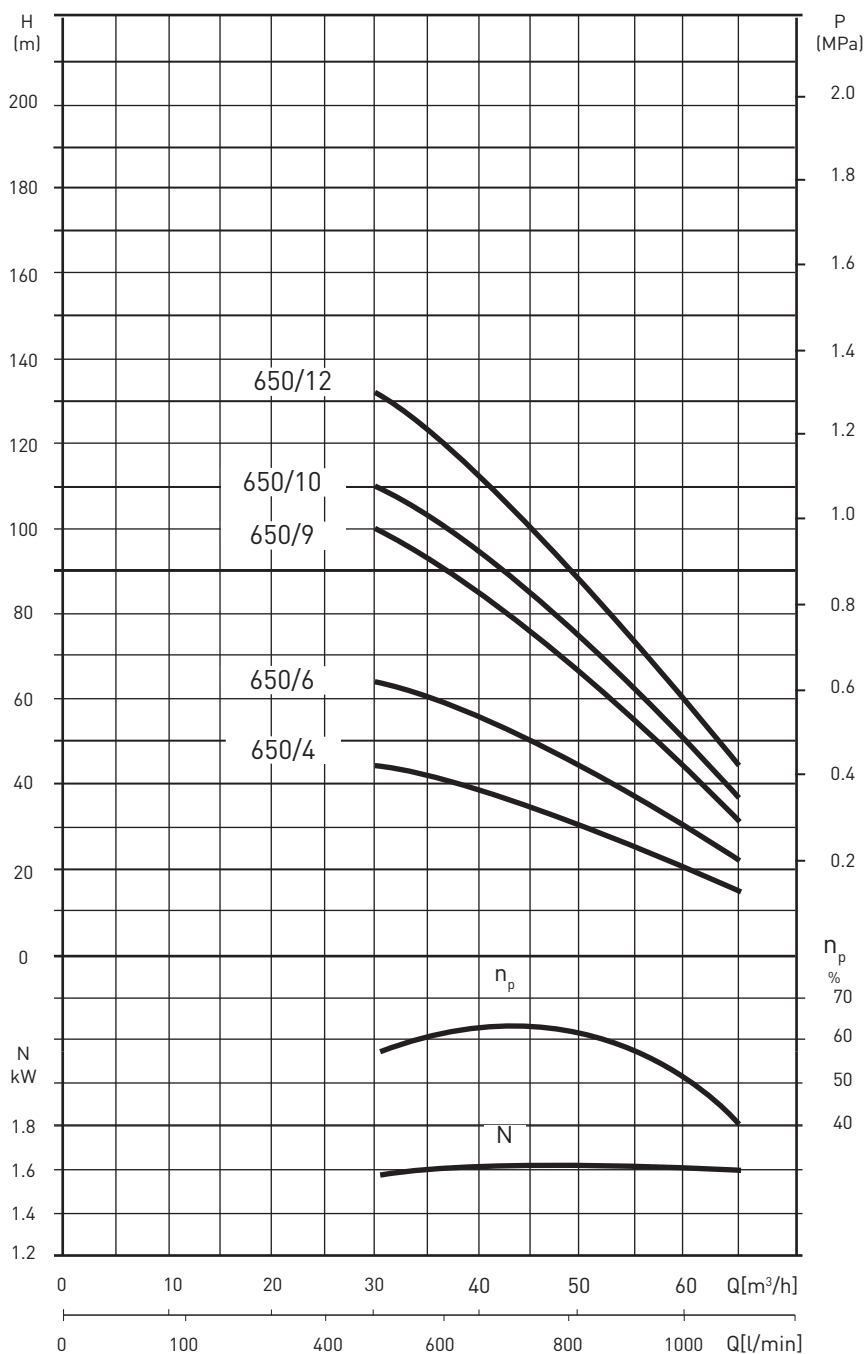
ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 6" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



WEIGHTS AND DIMENSIONS

MODEL	Pump body	Ø	Pump	
	L ₁ (mm)		L (mm)	Weight (kg)
SA 650/4	528	138	1196	58
SA 650/6	648	138	1382	66
SA 650/9	828	138	1647	77
SA 650/10	888	138	1779	86



The power curve refers to the power at the shaft per stage. η_p % indicates the hydraulic performance of the pump
 MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PERFORMANCE TABLE

MODEL	Motor output (P2)		VOLT	In (A)	Stages	Q	L/ min	0	600	700	800	900	1000	1100
	HP	kW					m³/h	0	36	42	48	54	60	66
SA 650/4	10	7.5	3 ~ 400 V	17.6	4	m.c.a./m.w.c.	54	40	35	31	25	19	13	
SA 650/6	15	11	3 ~ 400 V	24.6	6		81	59	53	46	37	29	20	
SA 650/9	20	15	3 ~ 400 V	32.8	9		122	90	80	68	57	44	30	
SA 650/10	25	18.5	3 ~ 400 V	39.5	10		135	101	90	77	63	49	33	
SA 650/12	30	22	3 ~ 400 V	44	12		162	120	107	93	75	59	40	

NOCCHI MOTORS 4"-6"

ELECTRIC MOTORS Ø 4" -6" FOR ELECTRIC SUBMERSIBLE PUMPS

4" SINGLE PHASE

Code	Model	V	Axial thrust N	kW	Hp	In A	I start A	RPM	CosØ	Ts/Tn	EFF %	C run µF	Weight (kg)	H mm	Cable length (m)
222P0590	4ESM kW0.37/HP 0.5 1~230V 50Hz	1~230	1500	0.37	0.5	3.4	11	2850	0.91	0.65	58	16	6.8	250	1.75
222P0600	4ESM kW0.55/HP 0.75 1~230V 50Hz	1~230	1500	0.55	0.75	4.4	16.6	2840	0.92	0.63	62	20	8.1	265	1.75
222P0610	4ESM kW0.75/HP 1 1~230V 50Hz	1~230	1500	0.75	1	5.9	19.8	2860	0.94	0.62	65	30	10.6	295	1.75
222P0620	4ESM kW1.1/HP 1.5 1~230V 50Hz	1~230	3000	1	1.5	7.8	29.5	2850	0.94	0.62	66	40	11.2	340	1.75
222P0630	4ESM kW1.5/HP 2 1~230V 50Hz	1~230	3000	1.5	2	10.2	36.4	2850	0.95	0.61	68	50	14	375	1.75

4" THREE PHASE

Code	Model	V	Axial thrust N	kW	Hp	In A	I start A	RPM	CosØ	Ts/Tn	EFF %	Weight (kg)	H mm	Cable length (m)
221P1190	4ESM kW0.37/HP 0.5 3~400V 50Hz	3~400	1500	0.37	0.5	1.2	5.1	2840	0.73	2.1	63	5.8	235	1.75
221P1200	4ESM kW0.55/HP 0.75 3~400V 50Hz	3~400	1500	0.55	0.75	1.7	6.5	2840	0.73	2	64	7	250	1.75
221P1210	4ESM kW0.75/HP 1 3~230V 50Hz	3~230	1500	0.75	1	3.8	15.9	2840	0.75	1.9	67	8.3	265	1.75
221P1220	4ESM kW0.75/HP 1 3~400V 50Hz	3~400	1500	0.75	1	2.2	9.2	2840	0.75	1.9	67	8.3	265	1.75
221P1230	4ESM kW1.1/HP 1.5 3~230V 50Hz	3~230	1500	1.1	1.5	5.2	24.6	2840	0.76	2.3	71	10.9	295	1.75
221P1240	4ESM kW1.1/HP 1.5 3~400V 50Hz	3~400	3000	1.1	1.5	3	14.2	2840	0.76	2.3	71	10.9	295	1.75
221P1360	4ESM kW1.5/HP 2 3~230V 50Hz	3~230	3000	1.5	2	6.09	32	2830	0.78	2.1	72	11.4	340	1.75
221P1250	4ESM kW1.5/HP 2 3~400V 50Hz	3~400	3000	1.5	2	4	18.5	2830	0.78	2.1	72	11.4	340	1.75
221P1260	4ESM kW2.2/HP 3 3~400V 50Hz	3~400	3000	2.2	3	5.6	26.5	2830	0.79	2.4	74	14.2	375	2.5
221P1270	4ESM kW3/HP 4 3~400V 50Hz	3~400	6500	3	4	7.5	34.3	2830	0.79	2.2	76	18.3	480	2.5
221P1280	4ESM kW4/HP 5.5 3~400V 50Hz	3~400	6500	4	5.5	10.1	44	2840	0.77	2.3	75	23.4	555	2.5
221P1290	4ESM kW5.5/HP 7.5 3~400V 50Hz	3~400	6500	5.5	7.5	13.6	62	2840	0.8	2.2	76	29.4	675	4

6" THREE PHASE

Code	Model	V	Axial thrust N	kW	Hp	In A	RPM	CosØ	EFF %	Weight (kg)	H mm	Cable length (m)
222P1310	6ESM kW 7.5/HP 10 3~400V 50Hz	3~400	15500	7.5	10	17.6	2820	0.82	77	49	668	4
222P1320	6ESM kW 11/HP 15 3~400V 50Hz	3~400	15500	11	15	24.6	2830	0.85	78	56	734	4
222P1330	6ESM kW 15/HP 20 3~400V 50Hz	3~400	15500	15	20	32.8	2830	0.86	78.5	64	819	4
222P1340	6ESM kW 18.5/HP 25 3~400V 50Hz	3~400	15500	18.5	36	39.5	2830	0.87	80	72	891	4
222P1350	6ESM kW 22/HP 30 3~400V 50Hz	3~400	15500	22	30	44	2830	0.89	83.7	83	971	4

NOCCHI MOTORS 4"-6"

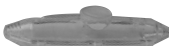
SELECTION OF ELECTRIC CABLE FOR SUBMERSIBLE PUMPS



Motor 4ESM	HP	kW	CABLE SECTION (mm²)					
			4X1	4X1.5	4X2.5	4X4	4X6	4X10
SINGLE PHASE 230V/50Hz	0.5	0.37	50	75	125			
	0.75	0.55	38	57	65	152		
	1	0.75	30	45	75	120	174	
	1.5	1.1	22	33	53	85	127	210
	2	1.5		23	38	63	92	154
	3	2.2			28	45	67	112
THREE PHASE 400V/50Hz	0.5	0.37	240					
	0.75	0.55	164	246				
	1	0.75	133	200	333			
	1.5	1.1	97	146	244	390		
	2	1.5	72	109	180	290	435	
	3	2.2	51	78	130	207	310	516
	4	3	41	62	104	167	250	416
	5.5	4	31	46	77	124	186	310
	7.5	5.5		33	56	90	135	225
THREE PHASE 230V/50Hz	0.5	0.37	90	135				
	0.75	0.55	60	90	150	240		
	1	0.75	47	71	118	190		
	1.5	1.1	35	52	87	140	210	
	2	1.5	26	40	66	106	160	266
	3	2.2		29	48	76	115	191
	4	3			37	60	90	150
	5.5	4			27	44	66	110
	7.5	5.5				32	48	80

Motor 6ESM	HP	kW	CABLE SECTION (mm²)					
			4X4	4X6	4X10	4X16	4X25	4X35
THREE PHASE 400V/50Hz	7.5	5.5	108	161	265	415		
	10	7.5	84	126	207	325		
	15	11	59	87	144	223	347	
	20	15		65	107	167	258	350
	25	15.5			87	136	210	295
	30	22			75	117	181	246

CABLES AND SPLICING

	ZA000420 ZA000430 ZA000440 ZA000450 ZA000460 ZA000470	CABLE 4X1 CABLE 4X1.5 CABLE 4X2.5 CABLE 4X4 CABLE 4X6 CABLE 4X10	NEOPRENE CABLE H07 RNF 4-WIRE, 1 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 1.5 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 2.5 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 4 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 6 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 10 MM2.
	ZA003370 ZA003390 ZA003380 ZA009410 ZA009430 ZA009450	2.5 SPLICING KIT 6 SPLICING KIT 10 SPLICING KIT 2.5 SPLICE 6 SPLICE 10 SPLICE	KIT FOR HEATSHRINK SPLICING ON CABLES UP TO 4 X 2.5 KIT FOR HEATSHRINK SPLICING ON CABLES UP TO 4 X 6 KIT FOR CAST RESIN SPLICING ON CABLES UP TO 4X10 HEATSHRINK SPLICE 1 - 2.5 mm2 HEATSHRINK SPLICE 4 - 6 mm2 CAST RESIN SPLICE UP TO 4 X 10 mm2

NOCCHI DP

ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

COMPACT AND PRACTICAL, EASILY TRANSPORTED FOR EMERGENCY USE

PGA pumps are particularly suited for the transfer of diesel. Available in complete version with power cable, switch and handle. Equipped with safety hose for collection of any spillage.

MOTOR

- Electric asynchronous single phase motor with permanently activated capacitor and incorporated thermal cutout protection
- Protection rating IP 68.
- Insulation class F.
- Fully insulated cable connection chamber
- Rotation speed 2850 rpm.

APPLICATIONS

- Drainage of infiltration water, lifting of rainwater from grille or drain
- Emptying of areas, tanks and wells

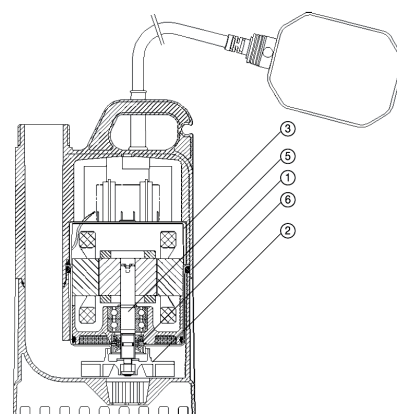
APPLICATION DATA

- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7 m.
- Minimum drainage level: 10 mm.
- Free transit of solid bodies: 6 mm.



TABLE OF MATERIALS

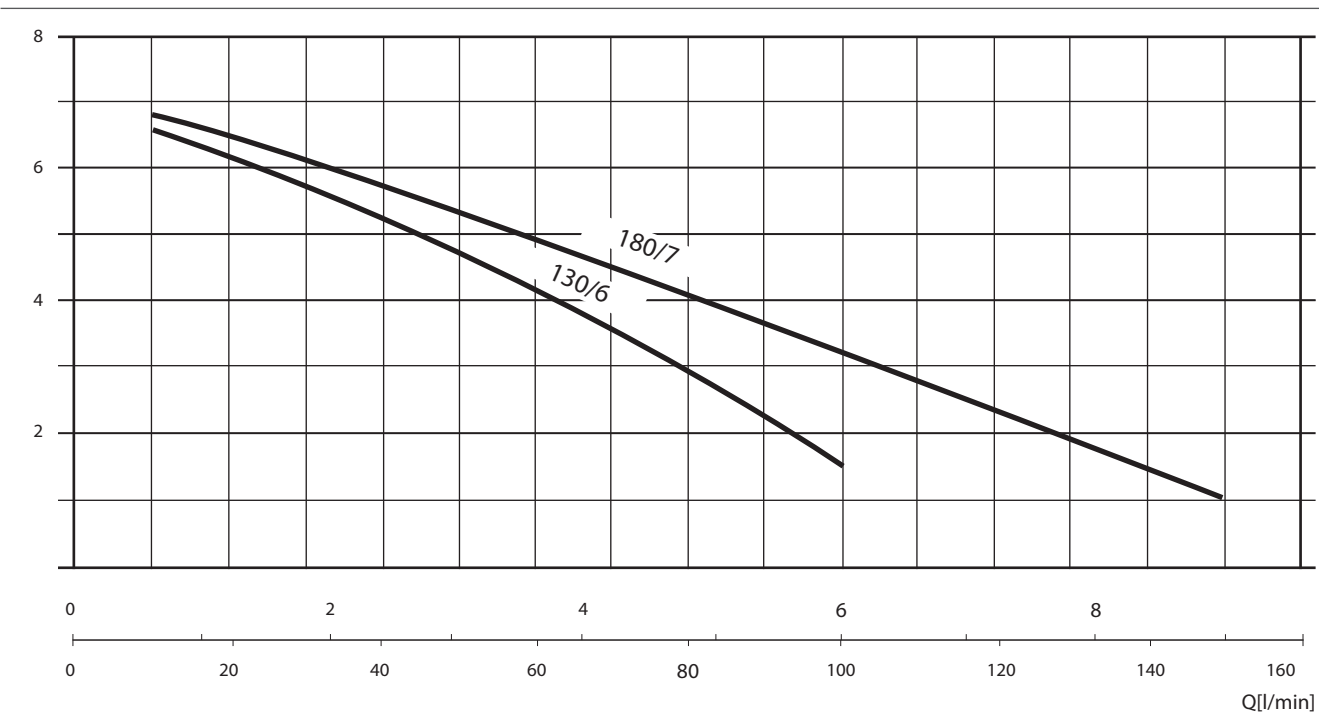
Component		Material
1	Pump body	Technopolymer
2	Impeller	Technopolymer
3	Motor body	Stainless steel X 8 CrNi 18-10 (AISI 304)
4	Power cable	10 m H07 RN-F with plug
5	Motor shaft	Stainless steel X 12 CrS 13 (AISI 416) with ceramic coating on point of wear of seal
6	Seal	Double fixed seal in rubber NBR70 lubricated in oil chamber



NOCCHI DP

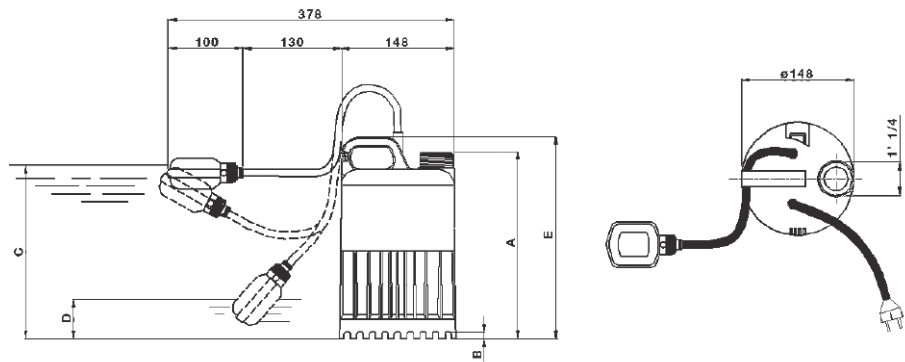
ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		VOLT	In (A)	µF	Q	L/ min m³/h	0	25	50	100	150
	HP	kW						0	1.5	3	6	9
DP 130/6 DP 130/6 AUT.	0.4	0.3	1 ~ 230 V	1.4	6.3	m.c.a. m.w.c.	7	6	4.5	1.7		
DP 180/7 AUT.	0.5	0.37	1 ~ 230 V	1.6	10		7	6.2	5.2	3.2	1.1	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight (kg)
	A	B	C	D	E	
DP 130/6 AUT.	236	10	330	150	256	3.9
DP 180/7 AUT.	236	10	330	150	256	4.2

NOCCHI DPC

ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

COMPACT SIZE, INTEGRATED FLOAT, MANUAL-AUTOMATIC SELECTOR, MINIMUM DRAINAGE LEVEL 3 MM

DPC submersible pumps for fresh water have been designed for domestic applications such as for draining infiltration water, lifting water from collection trains, basins or cisterns. Check valve and hose connector adaptable for hoses of 3/4 or ø 25-32, included in supply.

MOTOR

- Electric asynchronous single phase motor with permanently activated capacitor and incorporated thermal cutout protection
- Protection rating IP 68.
- Insulation class F.
- Fully insulated cable connection chamber
- Rotation speed 2850 rpm.

APPLICATIONS

- Drainage of infiltration water, lifting of rainwater from grille or drain
- Emptying of areas, tanks and wells

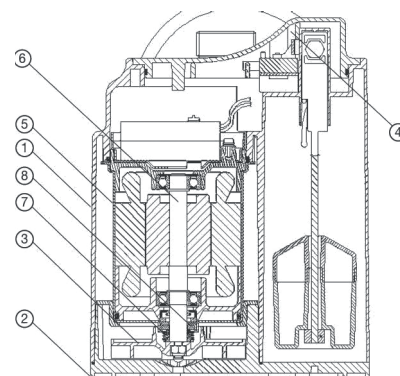
APPLICATION DATA

- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7 m.
- Minimum drainage level: 3 mm.
- Free transit of solid bodies: 5 mm.



TABLE OF MATERIALS

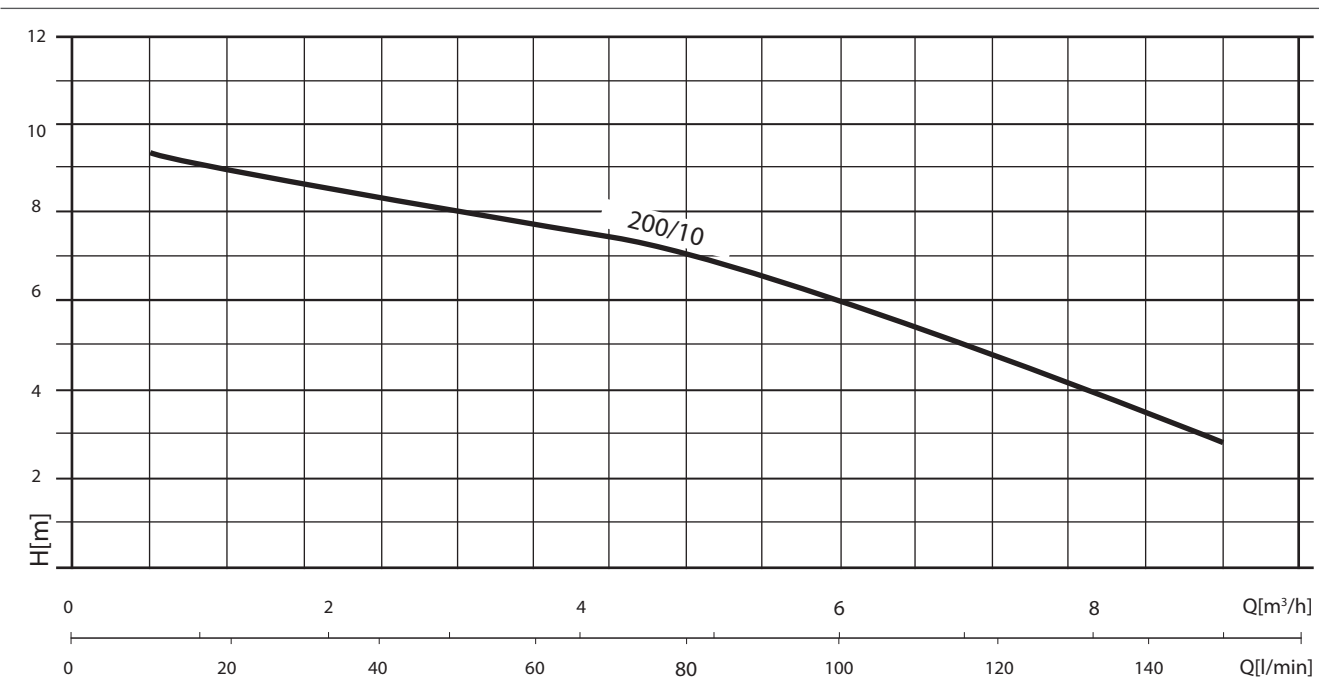
Component		Material
1	Pump body	Technopolymer
2	Suction base	Technopolymer
3	Impeller	Technopolymer
4	Motor body	Stainless steel X 8 CrNi 18-10 (AISI 304)
5	Power cable	10 m H05 RN-F with Schuko plug
6	Motor shaft	Stainless steel X 8 CrNi 18-9 (AISI 303)
7	Mechanical gasket	Graphite
8	Counterface	Ceramic
9	Secondary seal	Rubber NBR



NOCCHI DPC

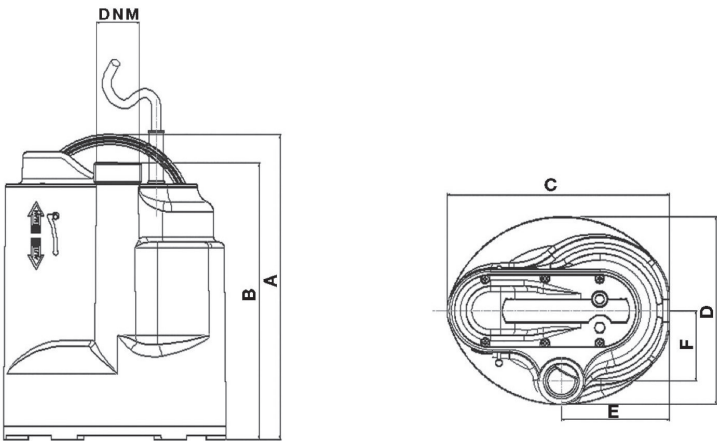
ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P1		VOLT	In (A)	μF	Q	L/ min m³/h	0	25	50	100	150
	HP	kW						0	1.5	3	6	9
DPC 200/10	0.87	0.65	1 ~ 230 V	2.9	8	m.c.a. m.w.c.	10	8	6	4.6	2.2	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	F	DNM	
DPC 200/10	273	148	200	170	97	63	1" 1/4	5.6

NOCCHI DRENOX

ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

The pumps in the DRENOX series are constructed in 100% stainless steel AISI 304. The motor is cooled via a heat exchange chamber that enables the machine to run for long periods without being complete immersed. Hose bend connector Ø 32 mm supplied. Automatic version (aut) equipped with float switch.

MOTOR

- Dry motor with stainless steel body.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATIONS

- Drainage of infiltration water, lifting of rainwater, from grilles or drains, lifting of domestic waste water, emptying of areas, tanks and swimming pools, industrial applications.
- Fountains and water features.
- Gravity irrigation systems.

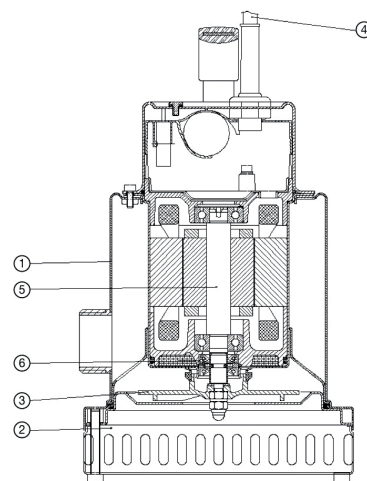
APPLICATION DATA

- Type of liquid: clear partially loaded or contaminated water, non-aggressive liquids.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7 m.
- Minimum drainage level 3 mm for model 80/7, and 35 mm for remaining models (on manual version).
- Free transit of solid bodies 3 mm for model 80/7, and 6 mm for remaining models.



TABLE OF MATERIALS

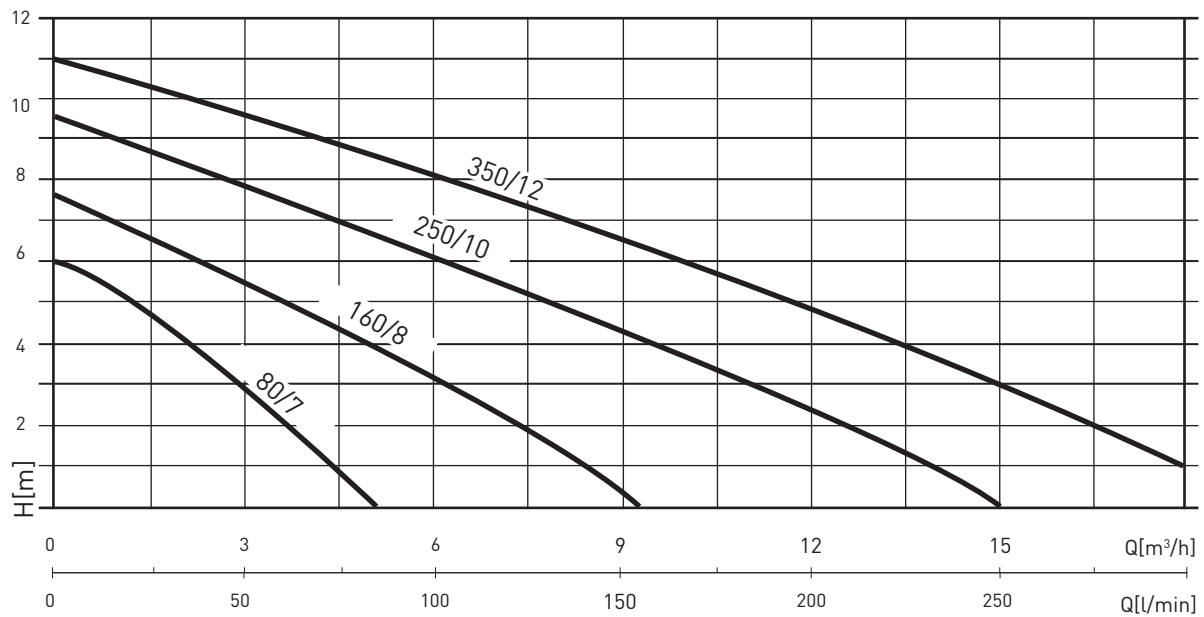
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Suction grille	Stainless steel X5 CrNi 1810 (AISI 304)
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)
4	Motor body	Stainless steel X 8 CrNi 18-10 (AISI 304)
5	Power cable	10 m H07 RN-F with plug
6	Motor shaft	Stainless steel with ceramic coating at points of wear on seal
7	Mechanical gasket	Double fixed seal in rubber NBR70 with special sand-proof V-ring. Lubricated in oil chamber



NOCCHI DRENOX

ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

HYDRAULIC PERFORMANCE



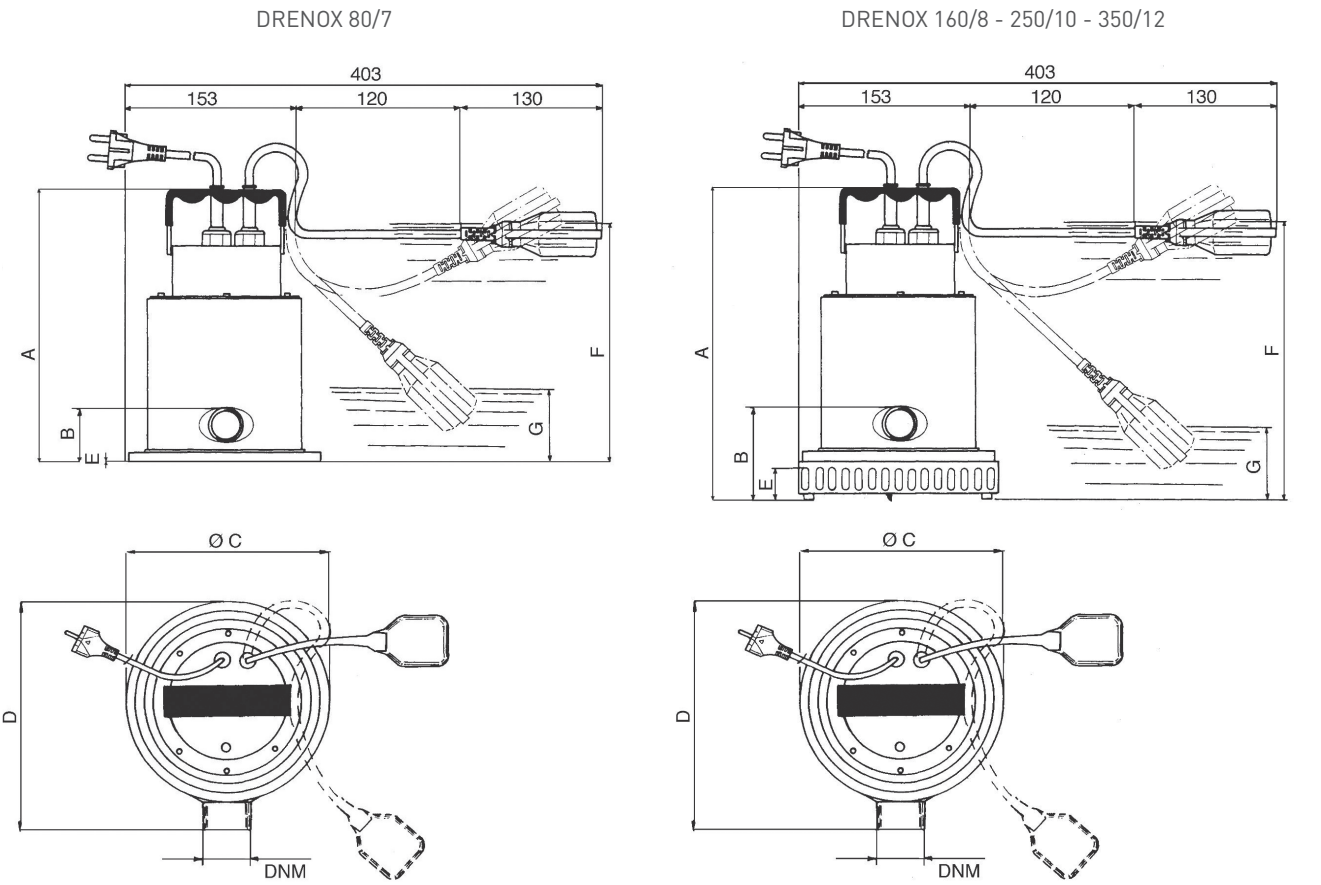
MODEL	Motor output (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/min	10	40	60	80	120	160	240	300
	HP	kW	HP	kW					m³/h	0.6	2.4	3.6	4.8	7.2	9.6	14.4	300
DRENOX 80/7 DRENOX 80/7 AUT	0.3	0.2	0.4	0.3	1 ~ 220 - 240 V	1.3	6.3	m.c.a. / m.w.c.	5.4	3.3	1.8						
DRENOX 160/8 DRENOX 160/8 AUT	0.55	0.40	0.75	0.55	1 ~ 220 - 240 V	2.4	8		7	5.8	5	4.1	2.2				
DRENOX 250/10 DRENOX 250/10 AUT	0.75	0.55	1.2	0.9	1 ~ 220 - 240 V	4.5	10		9.4	8.5	7.6	7.2	5.1	4.0	1		
DRENOX 350/12 DRENOX 350/12 AUT	1.1	0.8	1.6	1.2	1 ~ 220 - 240 V	5.1	16		10.5	10	9.5	9	7.7	6.5	3.4	1	
DRENOX 350/12 T	1.1	0.8	1.6	1.2	3 ~ 400 V	2			10.5	10	9.5	9	7.7	6.5	3.4	1	

Automatic version equipped with float switch.

NOCCHI DRENOX

ELECTRIC SUBMERSIBLE PUMP FOR FRESH WATER DRAINAGE

HYDRAULIC PERFORMANCE



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	A	B	C	D	Min. drain level E*	Connection level F	Disconnection level G	Free clearance	DNM	
DRENOX 80/7	231	61	177	182	3	250	100	03	1" 1/4	5.7

* The connect/disconnect levels refer to the version with float switch - The minimum drainage level refers to manual operating mode

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	A	B	C	D	Min. drain level E*	Connection level F	Disconnection level G	Free clearance	DNM	
DRENOX 160/8	300	94	177	182	35	320	107	06	1" 1/4	6.5
DRENOX 250/10	338	94	177	182	35	351	111	06	1" 1/4	7
DRENOX 350/12	338	94	177	182	35	351	111	06	1" 1/4	8.5

* The connect/disconnect levels refer to the version with float switch. - The minimum drainage level refers to manual operating mode.

NOCCHI DPV

ELECTRIC SUBMERSIBLE PUMP FOR WASTE WATER DRAINAGE

COMPACT AND PRACTICAL, EASILY TRANSPORTED FOR EMERGENCY USE

DPV submersible pumps for waste water are designed for domestic applications, and can be used to convey water containing impurities with a diameter up to 25 mm, to empty cess pit drains. Hose connector ø 32 supplied. Automatic version (aut) equipped with float switch.

MOTOR

- Electric asynchronous single phase motor with permanently activated capacitor and incorporated thermal cutout protection.
- Protection rating IP 68.
- Insulation class F.
- Fully insulated cable connection chamber.
- Rotation speed 2850 rpm.

APPLICATIONS

- Drainage of domestic waste water
- Emptying of areas, tanks and wells

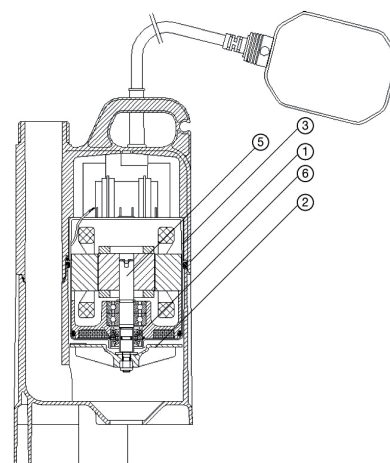
APPLICATION DATA

- Type of liquid: waste water with suspended solid bodies.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7 m.
- Minimum drainage level: 35 mm.
- Free transit of solid bodies: 25 mm.



TABLE OF MATERIALS

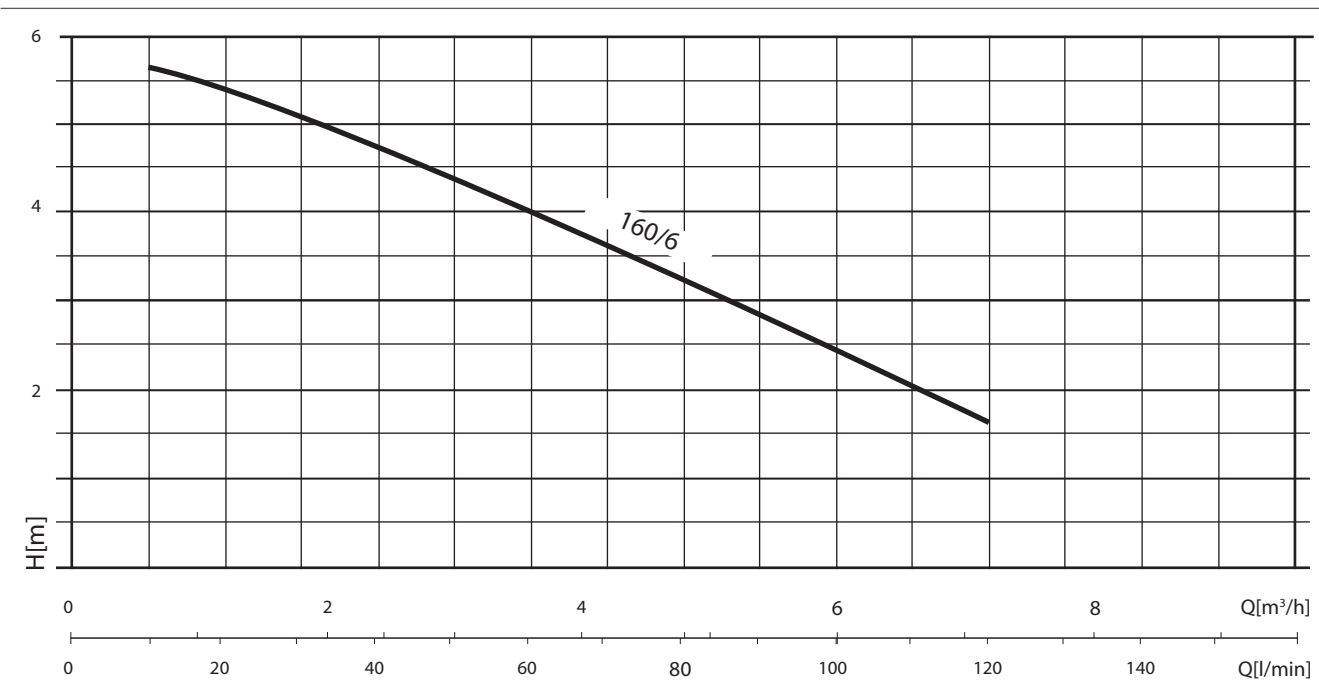
Component		Material
1	Pump body	Technopolymer
2	Impeller	Technopolymer
3	Motor body	Stainless steel X 8 CrNi 18-10 (AISI 304)
4	Power cable	10 m H07 RN-F with plug
5	Motor shaft	Stainless steel X 12 CrS 13 (AISI 416) with ceramic coating at points of wear on the seal
6	Seal	Double fixed seal in rubber NBR70 lubricated in oil chamber



NOCCHI DPV

ELECTRIC SUBMERSIBLE PUMP FOR WASTE WATER DRAINAGE

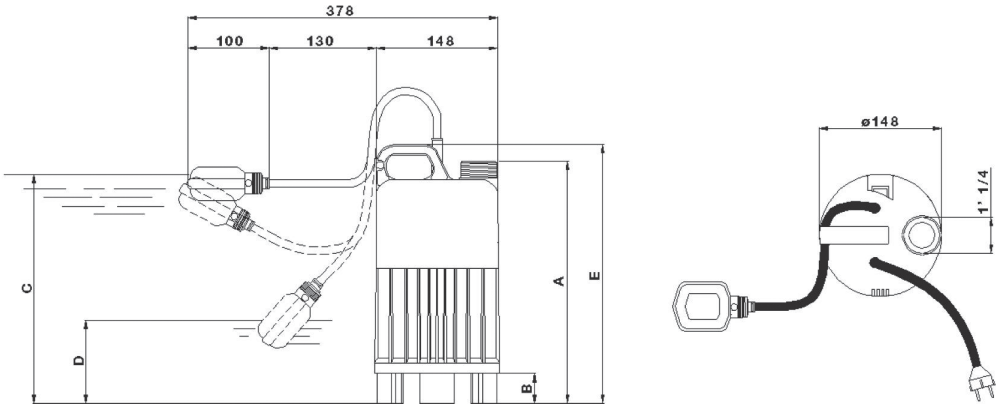
HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P1		VOLT	In (A)	µF	Q	L/ min m³/h	0	20	60	80	100
	HP	kW						0	1.2	3.6	4.8	6
DPV 160/6 M DPV 160/6 AUT.*	0.56	0.41	1 ~ 230 V	1.9	10	m.c.a. m.w.c.	6.5	5.4	4.2	3.3	2.4	

* Automatic version equipped with float switch.



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight (kg)
	A	B	C	D	E	
DPV 160/6 AUT	284	35	330	15	304	4.2

* The connect/disconnect levels refer to the version with float switch.
The minimum drainage level refers to manual operating mode.

NOCCHI OMNIA

ELECTRIC SUBMERSIBLE PUMPS FOR WASTE WATER

The pumps in the OMNIA series are constructed in 100% stainless steel AISI 304. The motor is cooled via a heat exchange chamber that enables the machine to run for long periods without being complete immersed. Hose connector ø 32 supplied. Automatic version (aut) equipped with float switch.

MOTOR

- Dry motor with stainless steel body.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Fully insulated cable connection chamber
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATIONS

- Lifting of domestic waste water, emptying of areas, tanks and swimming pools, industrial applications.
- Fountains and water features.
- Gravity irrigation systems.

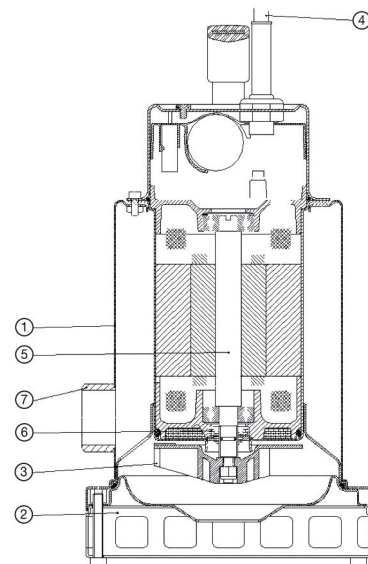
APPLICATION DATA

- Type of liquid: waste water with solid bodies.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7m.
- Minimum drainage level 35 mm (on manual version).
- Free transit of solid bodies: 20 mm.



TABLE OF MATERIALS

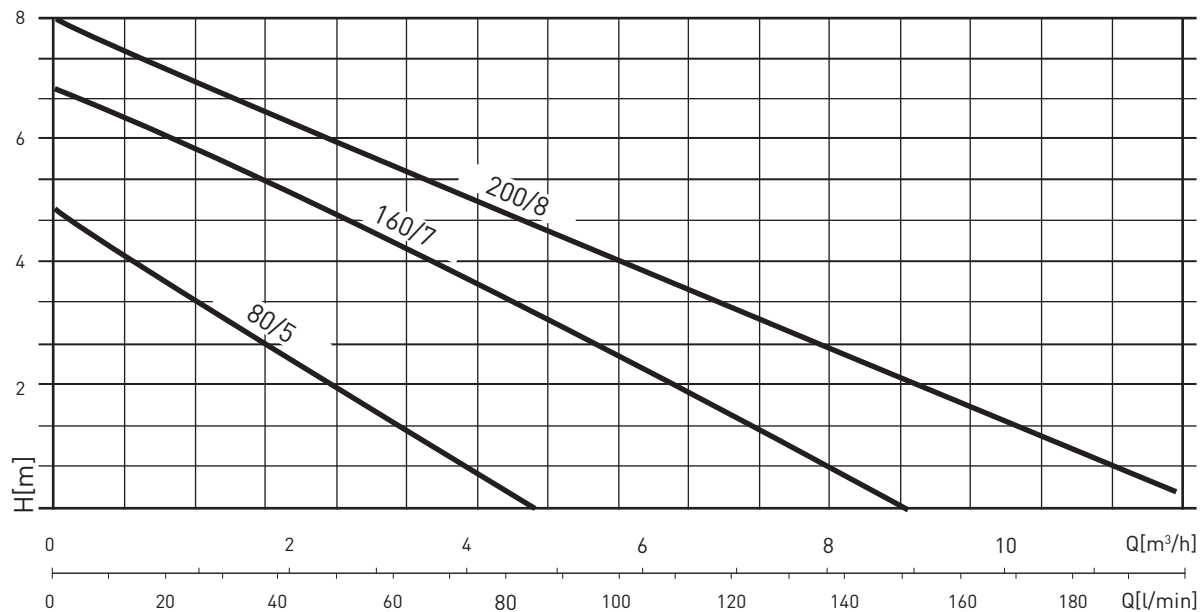
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Impeller	Stainless steel X5 CrNi 1810 (AISI 304)
3	Motor body	Stainless steel X5 CrNi 1810 (AISI 304)
4	Power cable	10 m H07 RN-F with plug
5	Motor shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)
6	Seal	Double fixed seal in rubber NBR70 lubricated in oil chamber
7	Outlet port	Threaded male 1" 1/4 gas fitting



NOCCHI OMNIA

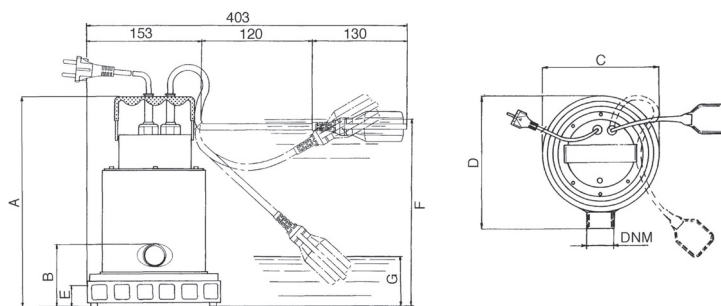
ELECTRIC SUBMERSIBLE PUMPS FOR WASTE WATER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/min	10	40	70	100	140	200
	HP	kW	HP	kW					m³/h	0.6	2.4	4.2	6	8.4	12
OMNIA 80/5 OMNIA 80/5 AUT	0.3	0.2	0.4	0.3	1 ~ 220 - 240 V	1.4	8	m.c.a. / m.w.c.	4.1	2.7	1				
OMNIA 160/7 OMNIA 160/7 AUT	0.5	0.37	0.7	0.5	1 ~ 220 - 240 V	2.5	8		7	5.5	4	2.8	1		
OMNIA 200/8 OMNIA 200/8 AUT	0.7	0.5	1	0.75	1 ~ 220 - 240 V	3.2	8		7.8	6.3	5.4	4.1	2.7	0.5	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	A	B	C	D	Min. drain level E*	Connection level F	Disconnection level G	Free clearance	DNM	
OMNIA 80/5	264	94	177	182	35	250	100	020	1" 1/4	6.1
OMNIA 160/7	300	94	177	182	35	320	107	020	1" 1/4	7
OMNIA 200/8	338	94	177	182	35	351	111	020	1" 1/4	8.5

* The connect/disconnect levels refer to the version with float switch. - The minimum drainage level refers to manual operating mode.

NOCCHI BIOX XS

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

MECHANICAL GASKET IN SILICON CARBIDE/SILICON CARBIDE

The pumps in the BIOX XS series are constructed in 100% AISI 304 stainless steel. They operate entirely immersed in the pumped liquid, which serves to cool the motor from the exterior. Designed with retracted impeller and vortex operation. Automatic version equipped with float switch.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATIONS

- All applications for lifting and draining waste water with suspended solid bodies.
- Lifting stations with one or more pumps for agricultural and civil complexes.
- Suitable for draining off infiltration water.
- Handling of sewage water (hygiene facilities), emptying of cess pits and drainage into sewage works.

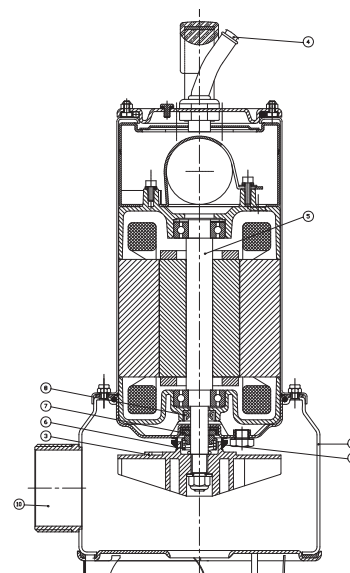
APPLICATION DATA

- Type of liquid: waste and sewage water with solid bodies.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7 m.
- Free transit of solid bodies: 40 mm



TABLE OF MATERIALS

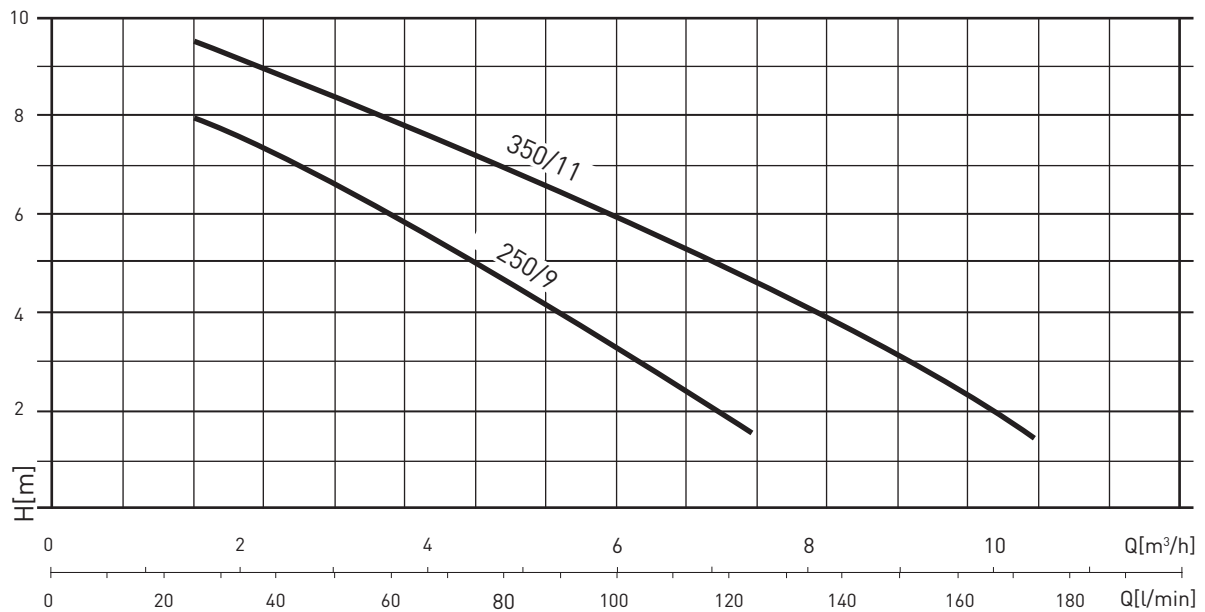
Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	suction base	Stainless steel X5 CrNi 1810 (AISI 304)
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)
4	Delivery port	Threaded
5	Power cable	10 m H07 RN-F with plug
6	Motor shaft	Stainless steel X5 CrNiS 1809 (AISI 416)
7	Mechanical gasket	Silicon carbide
8	Counterface	Silicon carbide
9	Secondary seal	Lip seal in rubber NBR
10	Sand-proof guard	Rubber NBR



NOCCHI BIOX XS

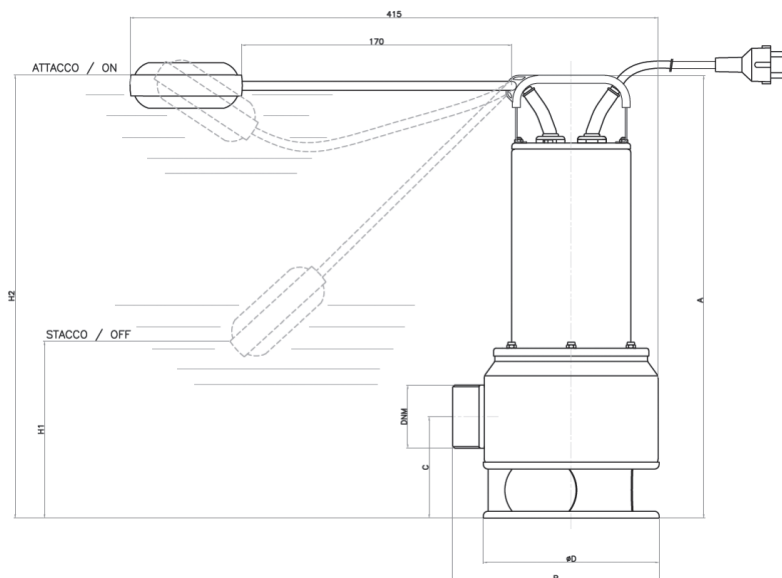
ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Power Motor (P1)		VOLT	I _n (A)	μF	Q	L/min	50	100	150	200	250	300	350
	HP	kW	HP	kW					m³/h	3	6	9	12	15	18	21
BIOX 250/9 XS AUT	0.8	0.6	1.2	0.9	1 ~ 230	4.1	12.5	m.c.a. / m.w.c.	8	6.6	5.1	3.4	1.6			
BIOX 350/11 XS AUT	1.2	0.9	1.7	1.3	1 ~ 230	5.8	20		9.6	8.5	7.3	6	4.5	3	1.5	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	DNM	H1	H2	
BIOX 250/9 XS AUT	389	196	96	168	1 1/2 GAS	250	370	9.8
BIOX 350/11 XS AUT	419	196	96	168	2" GAS	300	400	11.2

NOCCHI PRIOX

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

The pumps in the PRIOX series are constructed in 100% AISI 304 stainless steel. They operate entirely immersed in the pumped liquid, which serves to cool the motor from the exterior. Designed with retracted impeller and vortex operation. Automatic version (aut) equipped with float switch.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATIONS

- All applications for lifting and draining waste water with suspended solid bodies.
- Lifting stations with one or more pumps for agricultural and civil complexes.

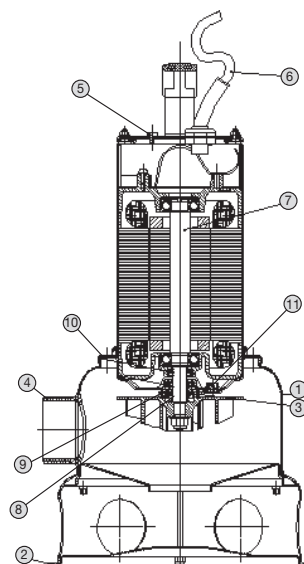
APPLICATION DATA

- Type of liquid: waste and sewage water with solid bodies.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7 m.
- Minimum drainage level 60 mm (on manual version).
- Free transit of solid bodies: 40 mm; 50mm (PRIOX 600/13 - PRIOX 800/18).



TABLE OF MATERIALS

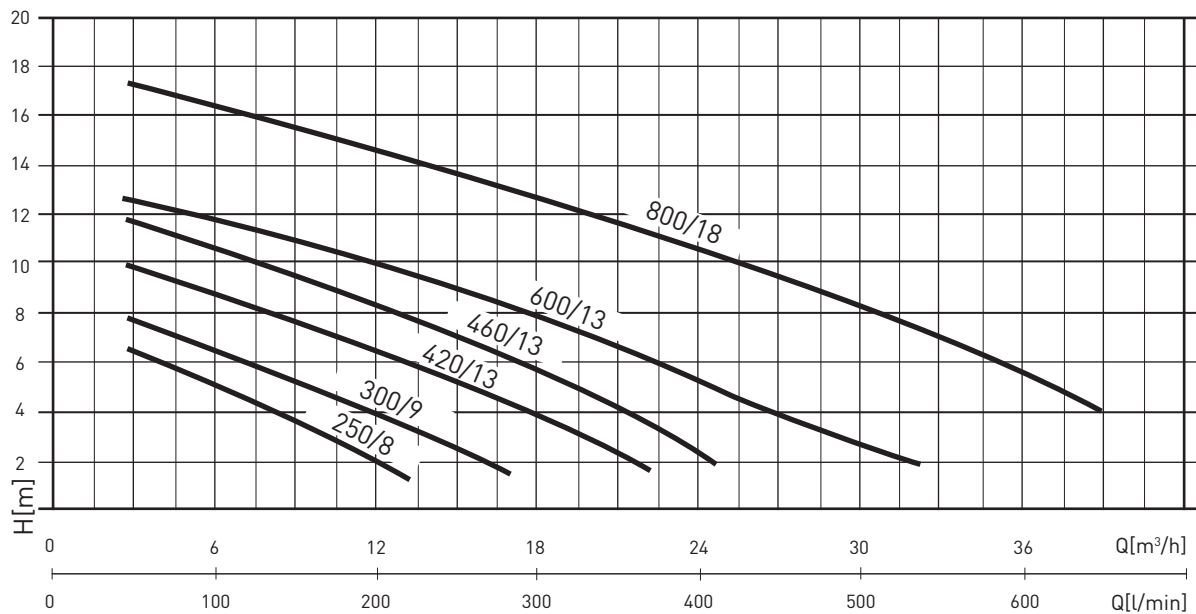
Component		Material	
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	
2	Suction base	Stainless steel X5 CrNi 1810 (AISI 304)	
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)	
4	Delivery port	Threaded	
5	Cover	Cast stainless steel (Priox 800/18)	
6	Power cable	10 m H07 RN-F with plug	
7	Motor shaft	Stainless steel X5 CrNiS 1809 (AISI 416)	
8	Mechanical gasket	Silicon carbide	Lubricated in oil chamber
9	Counterface	Silicon carbide	
10	Secondary seal	Lip seal in rubber NBR	
11	V-ring sand guard	Rubber NBR	



NOCCHI PRIOX

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

HYDRAULIC PERFORMANCE

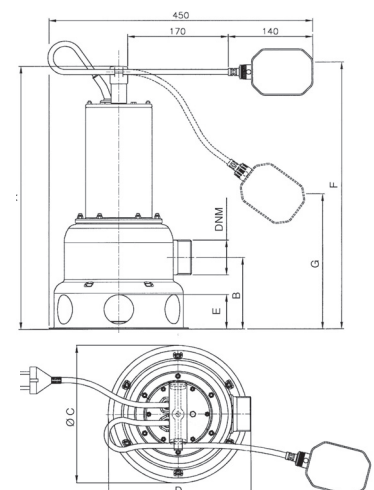


MODEL	Motor out-put (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min m³/h	50	100	150	200	250	300	400	500	550	600	650
	HP	kW	HP	kW						3	6	9	12	15	18	24	30	33	36	39
PRIOX 250/8 M PRIOX 250/8 M AUT	0.75	0.55	1.1	0.8	1 ~ 230 V	3.6	14	m.c.a. / m.w.c.	6.5	5.2	3.4	2.0	0.2							
PRIOX 300/9 M PRIOX 300/9 M AUT	0.8	0.6	1.2	0.9	1 ~ 230 V	4.1	14		7.7	6.4	5	3.8	2.3	1						
PRIOX 300/9 T	0.8	0.6	1.2	0.9	3 ~ 400 V	1.55			7.7	6.4	5	3.8	2.3	1						
PRIOX 420/11 M PRIOX 420/11 M AUT	1.2	0.9	1.8	1.3	1 ~ 230 V	6	20		10	9	7.8	6.3	5	3.8	1					
PRIOX 420/11 T	1.2	0.9	1.8	1.3	3 ~ 400 V	2.3														
PRIOX 460/13 M PRIOX 460/13 M AUT	1.5	1.1	2.2	1.6	1 ~ 230 V	7.2	20		11.8	10.8	9.8	8.5	7	5.5	2					
PRIOX 460/13 T	1.4	1	2	1.45	3 ~ 400 V	2.4														
PRIOX 600/13 T	1.6	1.2	2.4	1.8	3 ~ 400 V	3.1			12.8	12.2	11.3	10.3	9.3	8	5.5	3	1.8			
PRIOX 800/18 T	3.2	2.4	4	3	3 ~ 400 V	5.5			17.3	16.5	15.6	14.7	13.7	12.7	10.5	8	6.7	5.4	4	

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	A	B	C	D	Min. drain level E*	Con- nection level F	Discon- nection level G	Free clear- ance	DNM	
PRIOX 250/8	420	122.5	235	241	63	F*	G*	40	1 1/2	9.4
PRIOX 300/9	420	122.5	235	241	63	550	290	40	2"	9.6
PRIOX 420/11	450	122.5	235	241	63	550	290	40	2"	11.2
PRIOX 460/13	450	122.5	235	241	63	580	320	40	2"	11.7
PRIOX 600/13	450	122.5	235	241	63	580	320	40	2"	12.6
PRIOX 800/18	485.5	122.5	235	241	63	580	320	40	2"	20.2

* The connect/disconnect levels refer to the version with float switch. - The minimum drainage level refers to manual operating mode.



NOCCHI MINIVORT P

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

MINIVORT P pumps are constructed entirely in cast iron and are designed for continuous duty in fixed installations. Designed for vortex operation, with retracted impeller. Rugged and reliable.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm (P2).
- Rotation speed 1450 rpm (P4).

APPLICATIONS

- Lifting and draining of waste water; civil and industrial sewage works with suspended solid bodies.
- Emptying of septic tanks, cess pits, handling of waste and sewage water.
- Lifting stations with one or more pumps for industrial and civil complexes.

APPLICATION DATA

- Type of liquid: waste water, slurry and sewage.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7m.
- Minimum drainage level 45 mm (on manual version).
- Free transit of solid bodies: 52 mm.

DESIGN SPECIFICATIONS

- Automatic single phase version with float switch and watertight electrical panel, incorporating capacitor, thermal cutout protection and manual/automatic switching module. 10 m H07 RN-F power cable.
- Three phase version, 10m H07 RN-F power cable.
- Flanged outlet port, with square threaded counter-flange, 2" female.



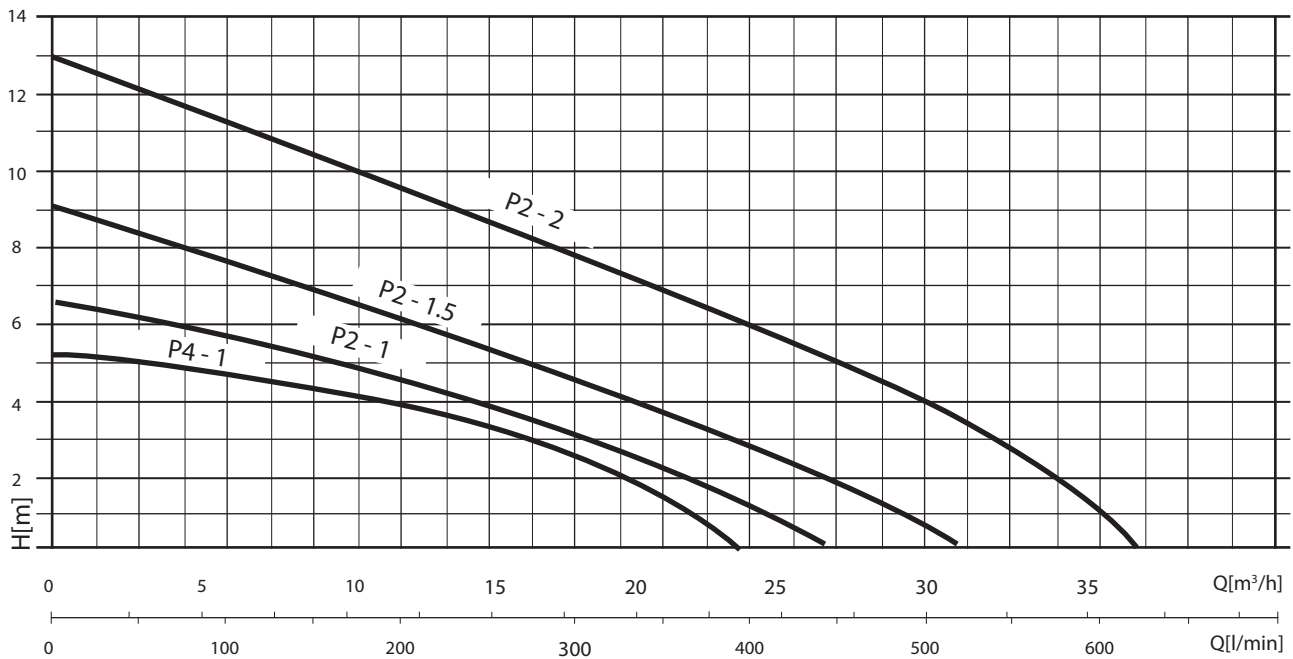
TABLE OF MATERIALS

Component		Material
1	Pump body	Grey cast iron EN GJL 200 (ex G20)
2	Motor body	Grey cast iron EN GJL 200 (ex G20)
3	Support base	Grey cast iron EN GJL 200 (ex G20)
4	Impeller	Grey cast iron EN GJL 200 (ex G20)
5	Motor shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)
6	Mechanical gasket	Lubricated in oil chamber
7	Counterface	
8	Lip seal	

NOCCHI MINIVORT P

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

HYDRAULIC PERFORMANCE



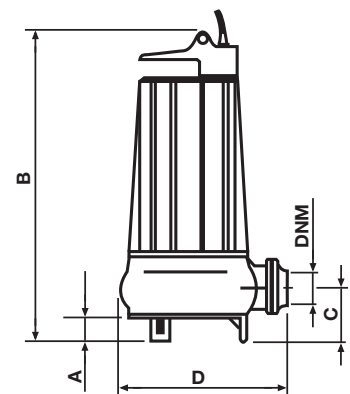
MODEL	Motor out-put (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min	50	100	200	300	400	500
	HP	kW	HP	kW					m³/h	3	6	12	18	24	30
MINIVORT P2 - 1 M MINIVORT P2 - 1 M AUT MINIVORT P2 - 1 T	1	0.75	2	1.5	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	6.5 6.5 2.3	20 20	m.c.a./m.w.c.	6	5.4	4.1	3	1	0	
MINIVORT P2 - 1.5 M MINIVORT P2 - 1.5 M AUT MINIVORT P2 - 1.5 T	1.5	1.1	2.2	1.6	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	7 7 2.7	25 25		8.3	7.5	6.1	4.6	2.8	1	
MINIVORT P2 - 2 M MINIVORT P2 - 2 M AUT MINIVORT P2 - 2 T	2	1.5	3	2.2	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	9.8 9.8 3.2	35 35		12.1	11.3	9.8	8	6	3.7	
MINIVORT P4 - 1 M MINIVORT P4 - 1 M AUT MINIVORT P4 - 1 T	1	0.75	1.7	1.25	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	5.5 5.5 2.3	25 25		5	4.6	3.3	2.2			

MINIVORT P2 : 2-pole motor 2850 rpm

MINIVORT P4 : 4-pole motor 1450 rpm

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight (kg)
	A	B	C	D	DNM	
MINIVORT P2-1	45	440	85	235	2"	27
MINIVORT P2-1.5	45	440	85	235	2"	27
MINIVORT P2-2	45	440	85	235	2"	28
MINIVORT P4-1	45	440	85	235	2"	27



NOCCHI MINIVORT PP

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

MINIVORT P pumps are constructed entirely in cast iron and are designed for continuous duty in fixed installations. Designed for vortex operation, with retracted impeller.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATIONS

- Lifting and draining of waste water; civil and industrial sewage works with suspended solid bodies
- Emptying of septic tanks, cess pits, handling of waste and sewage water
- Lifting stations with one or more pumps for industrial and civil complexes.
- On request, coupling base to facilitate installation and maintenance.

APPLICATION DATA

- Type of liquid: waste water, slurry and sewage.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7m.
- Minimum drainage level 72 mm (on manual version).
- Free transit of solid bodies: 58 mm.

DESIGN SPECIFICATIONS

- Automatic single phase version with float switch and watertight electrical panel, incorporating capacitor, thermal cutout protection and manual/automatic switching module.
- 10 m H07 RN-F power cable .
- Three phase version, 10m H07 RN-F power cable.
- Flanged outlet port, with round threaded counter-flange, 2" female.

OPTIONAL

- Cast iron coupling base

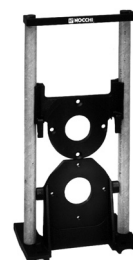
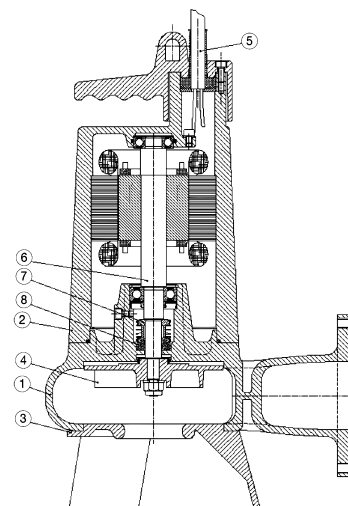


TABLE OF MATERIALS

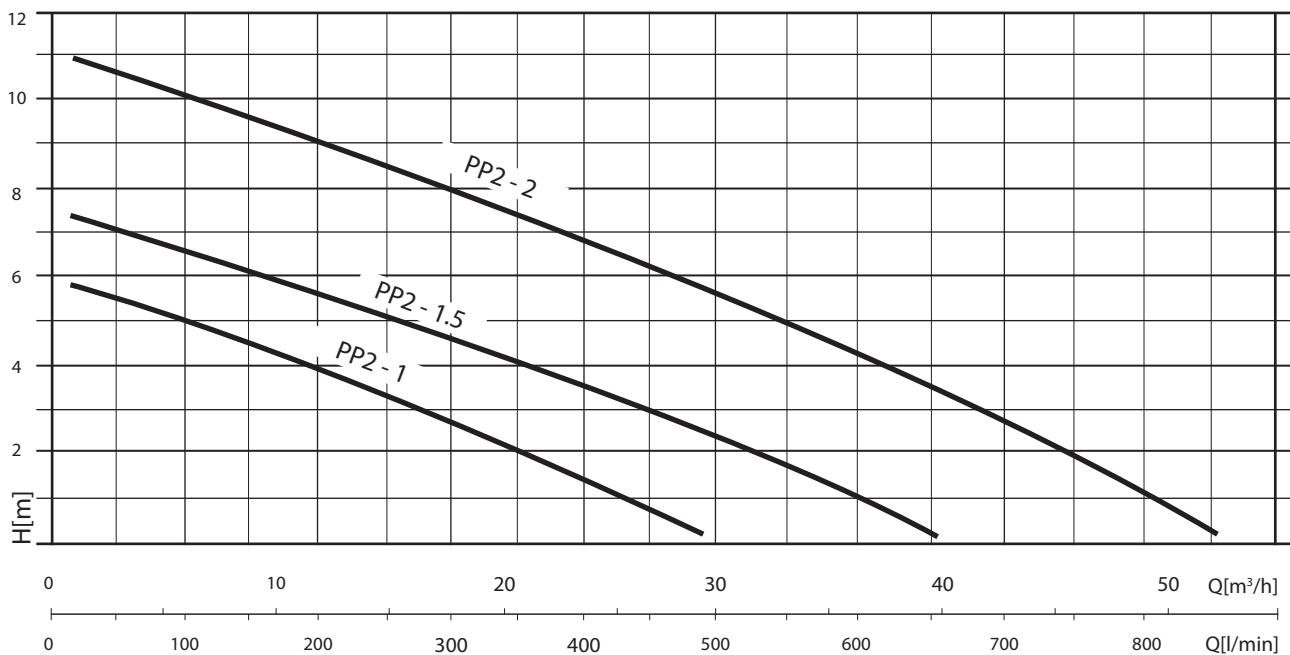
Component		Material	
1	Pump body	Grey cast iron EN GJL 200 (ex G20)	
2	Motor body	Grey cast iron EN GJL 200 (ex G20)	
3	Support base	Grey cast iron EN GJL 200 (ex G20)	
4	Impeller	Grey cast iron EN GJL 200 (ex G20)	
5	Power cable	10 m H07 RN-F	
6	Motor shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	
7	Mechanical gasket	Graphite	Lubricated in oil chamber
8	Counterface	Ceramic	
9	Lip seal	Rubber NBR 70	



NOCCHI MINIVORT PP

ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

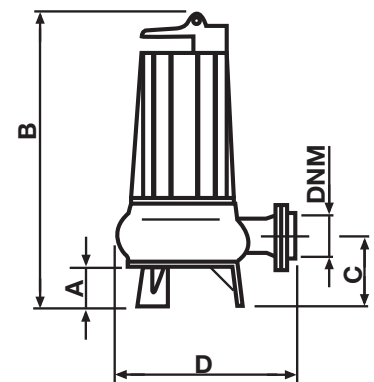
HYDRAULIC PERFORMANCE



MODEL	Motor out-put (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min	100	200	300	400	600	800
	HP	kW	HP	kW					m³/h	6	12	18	24	36	48
MINIVORT PP2 - 1 M MINIVORT PP2 - 1 M AUT* MINIVORT PP2 - 1 T	1	0.75	2	1.5	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	6.2 6.2 2.3	20 20	n.c.a. / m.w.c.	5	4	3	1.6			
MINIVORT PP2 - 1.5 M MINIVORT PP2 - 1.5 M AUT* MINIVORT PP2 - 1.5 T	1.6	1.2	2.5	1.8	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	8.2 8.2 3	25 25		6.7	5.7	4.6	3.3	1		
MINIVORT PP2 - 2 M MINIVORT PP2 - 2 M AUT* MINIVORT PP2 - 2 T	2	1.5	3	2.2	1 ~ 220 - 240 V 1 ~ 220 - 240 V 3 ~ 400 V	9.8 9.8 3.5	35 35		10	9.3	8.2	7	4.2	1	

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight (kg)
	A	B	C	D	DNM	
MINIVORT PP2 - 1	72	475	115	325	2 1/2"	30
MINIVORT PP2 - 1.5	72	475	115	325	2 1/2"	31
MINIVORT PP2 - 2	72	475	115	325	2 1/2"	28



NOCCHI VACUSYSTEM

COLLECTION STATIONS AND WASTE WATER LIFTING

VACUSYSTEM 200 is an automatic pumping station, pre-assembled and ready to use. The ideal solution when waste water is collected at a lower level than the main sewage manifold. Assembled with PRIOX series electric submersible pumps.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATION DATA

- Type of liquid: waste water with suspended solid bodies of maximum size 40 mm.
- Maximum liquid temperature: 40°C.
- Minimum drainage level: 60 mm.
- Walkover cover.

DESIGN SPECIFICATIONS

- The standard pumping station comprises:
- Tank: polyethylene with capacity of 175 L, with cover complete with seal to ensure watertight protection from liquid and the risk of gas formation.
- Inlet manifolds DN 110, outlet in PVC 2" and bleed tube connector DN 50.
- Submersible pump PRIOX 300/9 M AUT, PRIOX 460/13 M AUT.



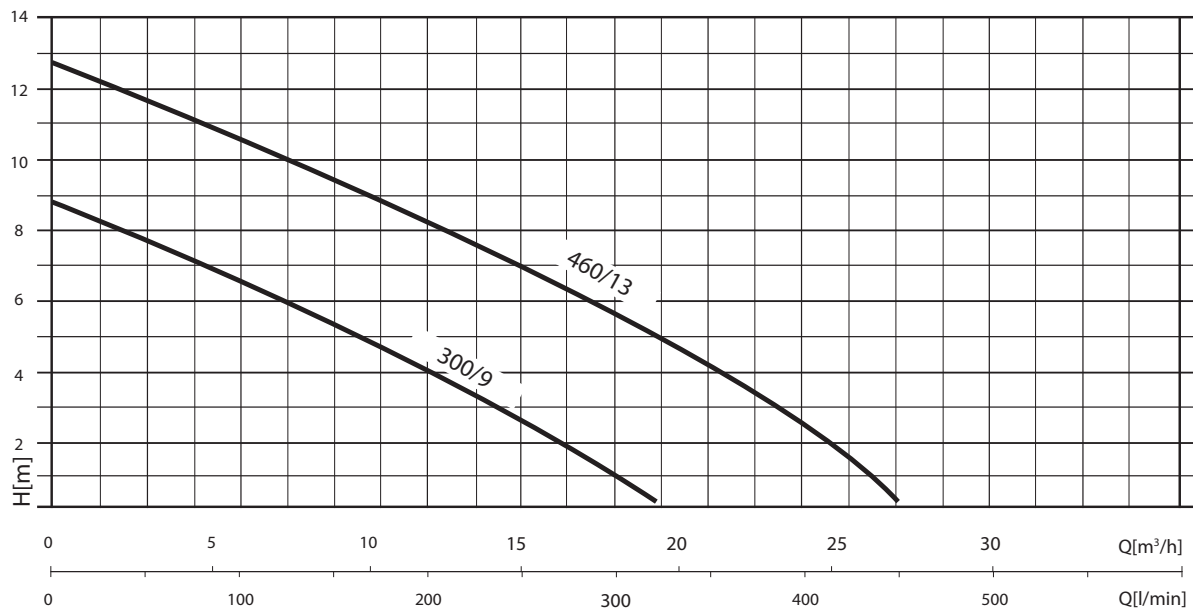
TABLE OF MATERIALS

Component		Material	
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	
2	suction base	Stainless steel X5 CrNi 1810 (AISI 304)	
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)	
4	Power cable	10 m H07 RN-F	
5	Motor shaft	Stainless steel X 12 CrNi 1809 (AISI 416)	
6	Mechanical gasket	Graphite	Lubricated in oil chamber
7	Counterface	Ceramic	
8	Secondary seal	Lip seal in rubber NBR	
9	V-ring sand guard	Rubber NBR	

NOCCHI VACUSYSTEM

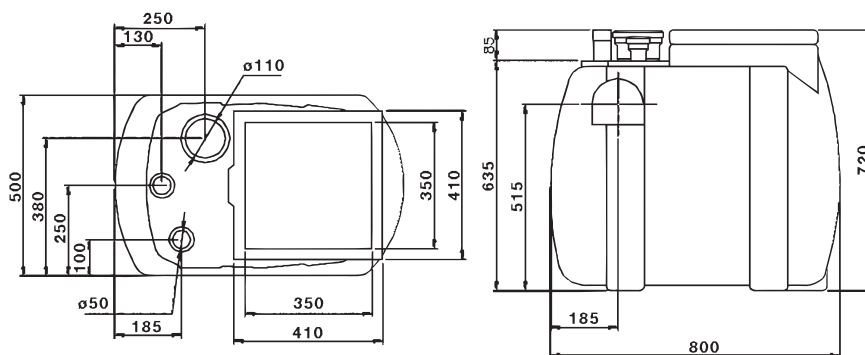
COLLECTION STATIONS AND WASTE WATER LIFTING

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min	50	100	150	200	150	300	400
	HP	kW	HP	kW					m3/h	3	6	9	12	15	18	24
VS 200-P 300	0.8	0.6	1.2	0.9	1 - 230 V	4.1	12.5	m.c.a. / m.w.c.	7.7	6.4	5	3.8	2.3	1		
VS 200-P 460	1.4	1	2.2	1.6	1 - 230 V	7.2	20		11.8	10.8	9.8	8.5	7	5.5	2	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)																	Weight (kg)
	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	
VS 200 - P 300 M	500	380	250	100	185	250	130	410	350	800	410	350	635	515	720	185	85	27
VS 200 - P 460 M	500	380	250	100	185	250	130	410	350	800	410	350	635	515	720	185	85	29.2

NOCCHI VACUSYSTEM

COLLECTION STATIONS AND WASTE WATER LIFTING

DESCENT DEVICE

VACUSYSTEM 200 S is an automatic pumping station, pre-assembled and ready to use. The ideal solution when waste water is collected at a lower level than the main sewage manifold. Assembled with PRIOX series electric submersible pumps.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATION DATA

- Type of liquid: waste water with suspended solid bodies of maximum size 40 mm.
- Maximum liquid temperature: 40°C.
- Minimum drainage level: 60 mm.
- Walkover cover.

DESIGN SPECIFICATIONS

- Tank:
- polyethylene with capacity of 175 L, with cover complete with seal to ensure watertight protection from liquid and the risk of gas formation.
- Inlet manifolds DN 110, outlet 2" and bleed tube connector DN 50
- Descent device
- Electrical control and protection panel (for three phase electric pumps)
- Float with 10 m cable 2x1 H07 RN-F (for three phase electric pumps)
- Submersible pump: PRIOX 300/9 M AUT, PRIOX 460/13 M AUT, PRIOX 300/9 T, PRIOX 460/13 T



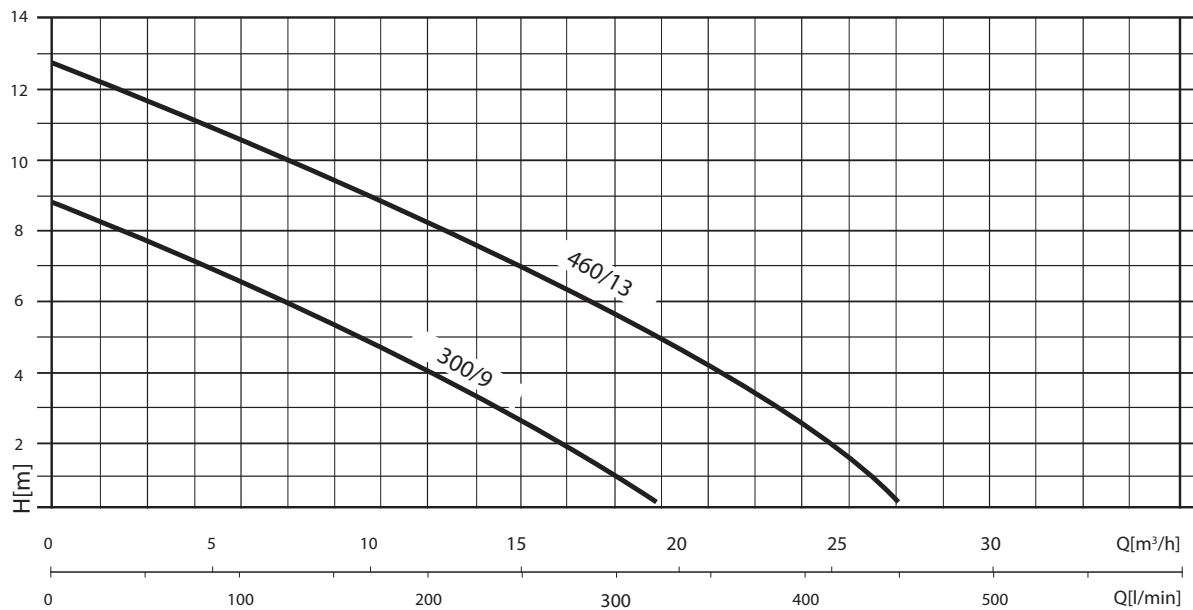
TABLE OF MATERIALS

Component		Material	
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	
2	Suction base	Stainless steel X5 CrNi 1810 (AISI 304)	
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)	
4	Power cable	10 m H07 RN-F	
5	Motor shaft	Stainless steel X 12 CrNi 1809 (AISI 416)	
6	Mechanical gasket	Silicon carbide	Lubricated in oil chamber
7	Counterface	Silicon carbide	
8	Secondary seal	Lip seal in rubber NBR	
9	V-ring sand guard	Rubber NBR	

NOCCHI VACUSYSTEM

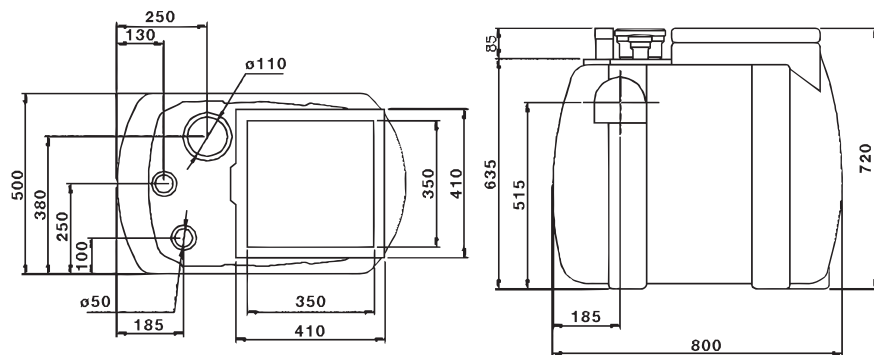
COLLECTION STATIONS AND WASTE WATER LIFTING

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/min	50	100	150	200	250	300	400
	HP	kW	HP	kW					m³/h	3	6	9	12	15	18	24
VS 200 S-P 300 M	0.8	0.6	1.2	0.9	1 ~ 230 V	4.1	12.5	m.c.a. / m.w.c.	7.7	6.4	5	3.8	2.3	1		
VS 200 S-P 300 T	0.8	0.6	1.2	0.9	3 ~ 400 V	1.55			7.7	6.4	5	3.8	2.3	1		
VS 200 S-P 460 M	1.4	1	2.2	1.6	1 ~ 230 V	7.2	20		11.8	10.8	9.8	8.5	7	5.5	2	
VS 200 S-P 460 T	1.4	1	2	1.45	3 ~ 400 V	2.4			11.8	10.8	9.8	8.5	7	5.5	2	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)																	Weight (kg)
	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	
VS 200 S - P 300 M	500	380	250	100	185	250	130	410	350	800	410	350	635	515	720	185	85	37
VS 200 S - P 300 T	500	380	250	100	185	250	130	410	350	800	410	350	635	515	720	185	85	39
VS 200 S - P 460 M	500	380	250	100	185	250	130	410	350	800	410	350	635	515	720	185	85	38.8
VS 200 S - P 460 T	500	380	250	100	185	250	130	410	350	800	410	350	635	515	720	185	85	40.6

NOCCHI VACUSYSTEM

COLLECTION STATIONS AND WASTE WATER LIFTING

2 ELECTRIC PUMPS, 2 DESCENT DEVICES, ELECTRICAL CONTROL AND PROTECTION PANEL

VACUSYSTEM 500 is an automatic pumping station, pre-assembled and ready to use. The ideal solution when waste water is collected at a lower level than the main sewage manifold. Assembled with PRIOX series electric submersible pumps.

MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

APPLICATION DATA

- Type of liquid: waste water with suspended solid bodies of maximum size 40 mm.
- Maximum liquid temperature: 40°C.
- Minimum drainage level: 60 mm.
- Walkover cover.

DESIGN SPECIFICATIONS

- Tank:
- polyethylene with capacity of 175 L, with cover complete with seal to ensure watertight protection from liquid and the risk of gas formation.
- Inlet manifolds DN 110, outlet 2" and bleed tube connector DN 50.
- Descent device.
- Electrical control and protection panel (for three phase electric pumps).
- Float with 10 m cable 2x1 H07 RN-F (for three phase electric pumps).
- Submersible pump: PRIOX 300/9 M, PRIOX 460/13 M, PRIOX 300/9 T, PRIOX 460/13 T.



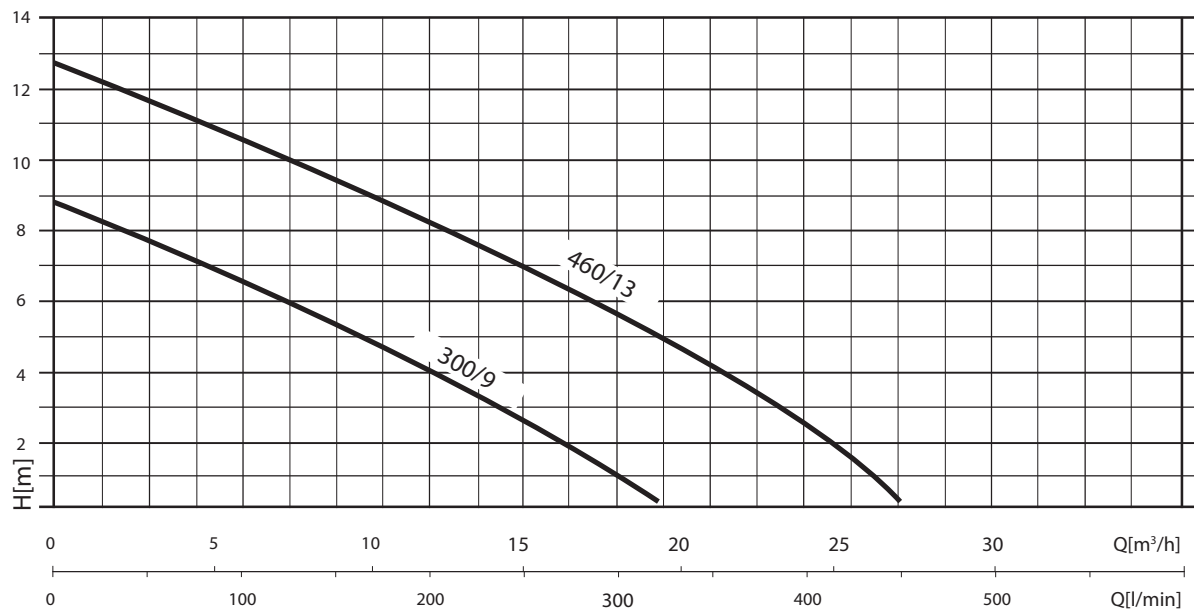
TABLE OF MATERIALS

Component		Material
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
2	Suction base	Stainless steel X5 CrNi 1810 (AISI 304)
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)
4	Power cable	10 m H07 RN-F
5	Motor shaft	Stainless steel X 12 CrNi 1809 (AISI 416)
6	Mechanical gasket	Silicon carbide
7	Counterface	Silicon carbide
8	Secondary seal	Lip seal in rubber NBR
9	V-ring sand guard	Rubber NBR

NOCCHI VACUSYSTEM

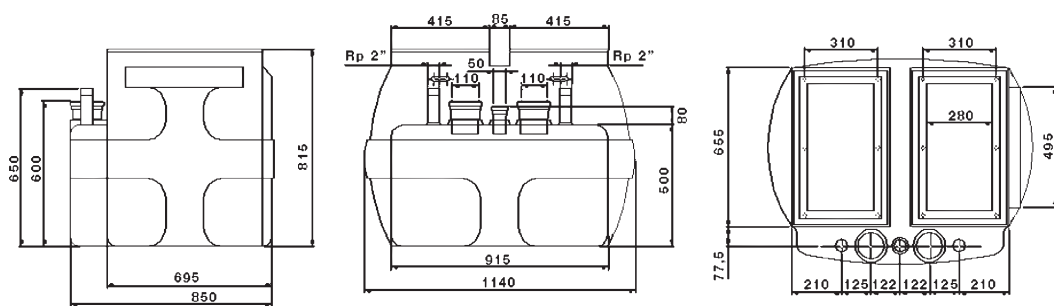
COLLECTION STATIONS AND WASTE WATER LIFTING

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Power Motor (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min	50	100	150	200	250	300	400
	HP	kW	HP	kW					m3/h	3	6	9	12	15	18	24
VS 500 TWIN-P 300 M	0.8	0.6	1.2	0.9	1 ~ 230 V	4.1	12.5	m.c.a. / m.w.c.	7.7	6.4	5	3.8	2.3	1		
VS 500 TWIN-P 300 T	0.8	0.6	1.2	0.9	3 ~ 400 V	1.55			7.7	6.4	5	3.8	2.3	1		
VS 500 TWIN-P 460 M	1.4	1	2.2	1.6	1 ~ 230 V	7.2	20		11.8	10.8	9.8	8.5	7	5.5	2	
VS 500 TWIN-P 460 T	1.4	1	2	1.45	3 ~ 400 V	2.4			11.8	10.8	9.8	8.5	7	5.5	2	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)
	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	
VS 500 TWIN - P 300 M	650	600	695	850	915	500	80	815	415	1140	655	77.5	310	495	280	89.4
VS 500 TWIN - P 300 T	650	600	695	850	915	500	80	815	415	1140	655	77.5	310	495	280	89.4
VS 500 TWIN - P 460 M	650	600	695	850	915	500	80	815	415	1140	655	77.5	310	495	280	93.8
VS 500 TWIN - P 460 T	650	600	695	850	915	500	80	815	415	1140	655	77.5	310	495	280	93.8

NOCCHI VERSAILLES

ELECTRIC SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES

The pumps in the series VERSAILLES have been designed for use in fountains, water features and water parks.

APPLICATION DATA

- Type of liquid: fresh water without solid bodies.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7m.
- Free clearance 1.5 mm.
- For water features with smaller transit areas, insert the foam filter (optional) in the hydraulic section.

OPTIONAL ACCESSORIES

- Vulcano: water feature with three-tier spray outlets.
- Gaiser: water feature with single foaming adjustable jet.
- Campana: water feature with adjustable bell form.
- Filters: foam material, transit areas of less than 1.5 mm for use on all water features.

MOTOR

- Dry motor with stainless steel body.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Fully insulated cable connection chamber.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.
- Suitable for continuous duty.



APPLICATIONS

- Installation of fountains, water features, waterfalls in water parks.

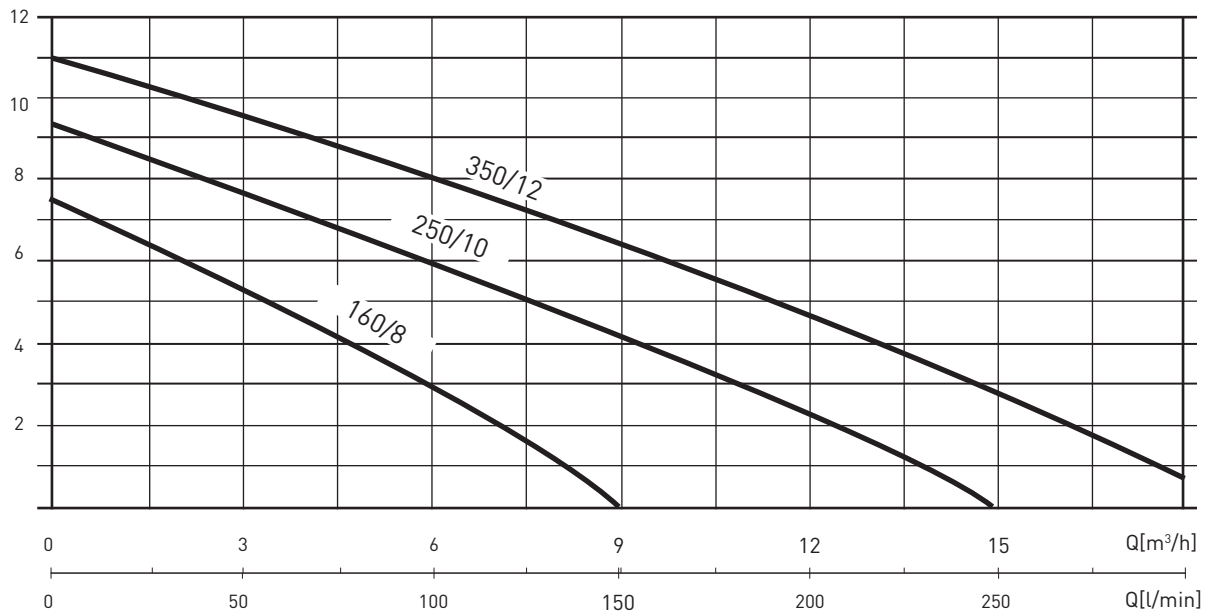
TABLE OF MATERIALS

Component	Material
Suction grille	Stainless steel X 5 CrNi 1810 (AISI 304)
Base	Stainless steel X 5 CrNi 1810 (AISI 304)
Pump body	Stainless steel X 5 CrNi 1810 (AISI 304)
Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)
Power cable	10m H07 RN-F with plug
Seal	Double fixed seal in rubber NBR70 with special V-ring sand guard
Motor shaft	Stainless steel X 12 CrS 13 (AISI 416) with ceramic coating at points of wear
1" F reducer	Plastic

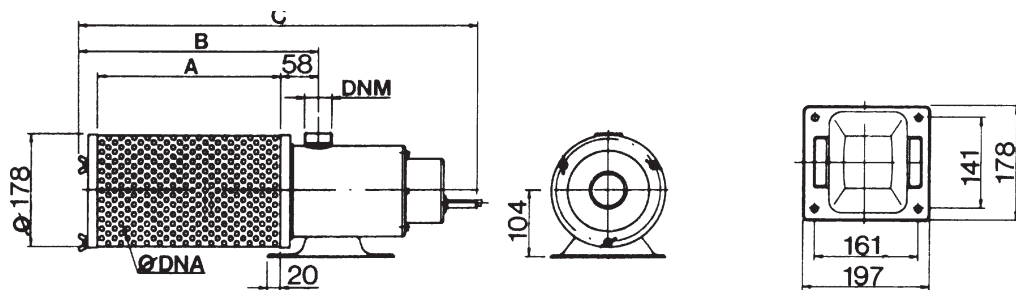
NOCCHI VERSAILLES

ELECTRIC SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES

HYDRAULIC PERFORMANCE



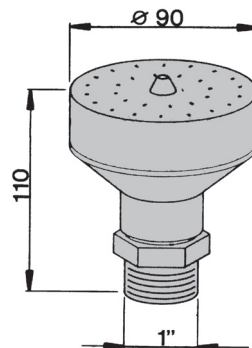
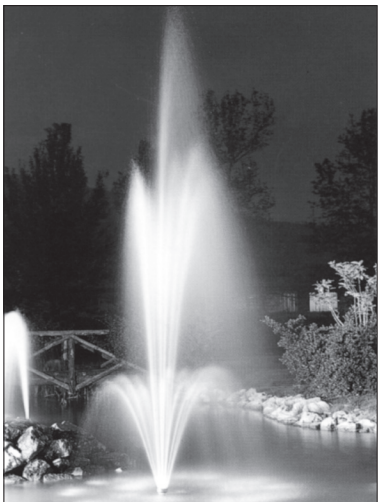
MODEL	Motor output (P2)		Power Motor (P1)		VOLT	In (A)	µF	Q L/min	Diameter and height of water features in cm		
	HP	kW	HP	kW					VULCANO	GAISER	CAMPANA
VERSAILLES 160/8	0.5	0.37	0.6	0.45	1 ~ 220 - 240 V	2.2	8	m.c.a. / m.w.c.	Ø 180 - H 360	Ø 20 - H 110	Ø 90 - H 45
VERSAILLES 250/10	0.75	0.5	0.9	0.7	1 ~ 220 - 240 V	4.5	10		Ø 200 - H 420	Ø 30 - H 180	Ø 95 - H 45
VERSAILLES 350/12	1.1	0.8	1.6	1.2	1 ~ 220 - 240 V	5.1	16		Ø 200 - H 480	Ø 50 - H 230	Ø 100 - H 45
VULCANO											
GAISER											
CAMPANA											
FILTER 1 FOR MOD. 80/7 - 160/8											
FILTER 2 FOR MOD. 250/10 - 350/12											



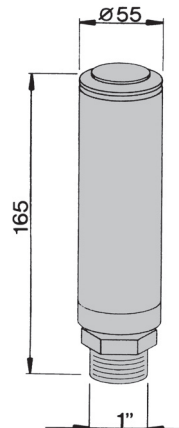
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight (kg)
	A	B	C	P.L.	DNM	
VERSAILLES 160/8	144	231	425	Ø 1.5	1" 1/4	7
VERSAILLES 250/10	285	372	620	Ø 1.5	1" 1/4	7.8
VERSAILLES 350/12	285	372	620	Ø 1.5	1" 1/4	9.3

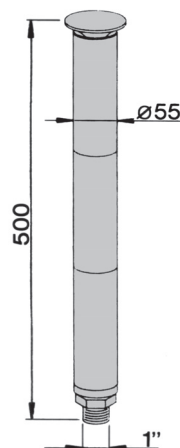
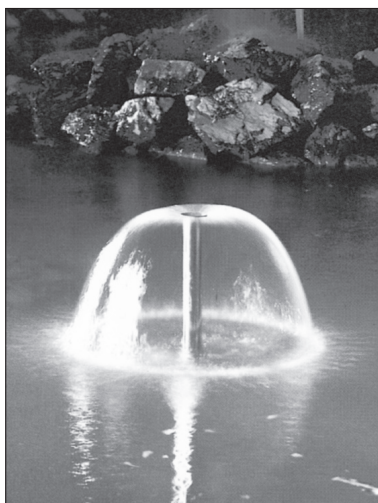
NOCCHI VERSAILLES
ELECTRIC SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES



VULCANO



GAISER



CAMPANA

NOCCHI EXPANSION TANKS

STAINLESS STEEL

NOCCHI expansion tanks are constructed in AISI 304 stainless steel, with a range of 7 models to meet all the demands of civil and industrial systems and guarantee suitability of the product in food applications. Ideal for particularly humid environments. CE certified.

HORIZONTAL

Interchangeable membrane in Bromobutyl rubber, 24-liter capacity, with bracket for assembly of electric pump and support stand. Pre-charged to 1.5 bar.

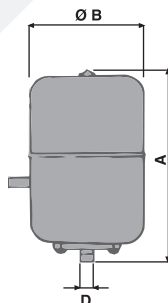
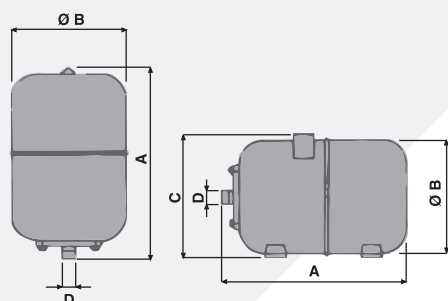
VERTICAL

Interchangeable membrane in Bromobutyl rubber, 8-20-24-liter capacity. The latter version is also available without membrane with air supply unit. Pre-charged to 1.5 bar.



TECHNICAL SPECIFICATIONS

MODEL	Description	Type of diaphragm	Bracket feet	Maximum operating pressure (bar)	Capacity L
VES INOX N 8	8-liter stainless steel vertical expansion tank	Bromobutyl rubber	-	8	8
VES INOX N 20	20-liter stainless steel vertical expansion tank	Bromobutyl rubber	-	8	20
VES INOX N 24	24-liter stainless steel vertical expansion tank	Bromobutyl rubber	-	8	24
VES INOX N 24 H	24-liter stainless steel horizontal expansion tank	Bromobutyl rubber	yes	8	24
VAA 24	24-liter stainless steel tank with provision for air supply	-	-	8	24



OVERALL DIMENSIONS AND WEIGHTS

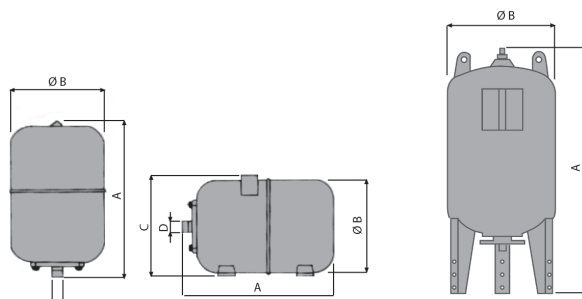
MODEL	Dimensions (mm)				Weight (kg)
	A	Ø B	C	D	
N 8	280	226	-	1"	2.4
N 20	390	272	-	1"	3.3
N 24	430	272	-	1"	5
N 24 H	430	272	330	1"	4.2
VAA 24	430	272	443	1"	4.2

NOCCHI EXPANSION TANKS

PAINTED STEEL

TECHNICAL SPECIFICATIONS

MODEL	Description	Type of diaphragm	Bracket feet	Maximum operating pressure (bar)	Capacity L
VES 2	2-liter expansion tank	Foodgrade rubber	-	6	2
VES 24 V	24-liter vertical expansion tank	Foodgrade rubber	-	6	24
VES 24 H	24-liter horizontal expansion tank	Foodgrade rubber	yes	6	24
VEC 60 V	60-liter vertical expansion tank	Butyl rubber	yes	10	60
VEC 100 V	100-liter vertical expansion tank	Butyl rubber	yes	10	100
VEC 200 V	200-liter vertical expansion tank	Butyl rubber	yes	10	200
VEC 300 V	300-liter vertical expansion tank	Butyl rubber	yes	10	300
VEC 500 V	500-liter vertical expansion tank	Butyl rubber	yes	10	500



MODEL	Dimensions (mm)				Weight (kg)
	A	Ø B	C	D	
VES 2	175	155	-	1" M	0.950
VES 24 V	415	295	-	1" M	4.1
VES 24 H	415	-	310	1" M	4.8
VEC 60 V	845	382	-	1" M	17.5
VEC 100 V	950	450	-	1" M	19
VEC 200 V	1225	550	-	1" 1/2 M	37
VEC 300 V	1405	630	-	1" 1/2 M	54
VEC 500 V	1550	780	-	1" 1/2 M	104

Expansion tanks for water lifting systems, in painted steel, from 2 to 500 liter capacity, with interchangeable diaphragm.

Flange in painted carbon steel.

CE certified. Pre-charge: 1.5 bar on models from 2 to 24 L - 2.0 bar on models from 60 to 500 L. CE certified.



NOCCHI FLUSSCONTROL

ELECTRONIC PRESSURE REGULATOR FOR SINGLE PHASE PUMPS

This device controls start-up and shutdown of the pump on opening and closing of the valve. In the event of no flow on intake, the electronics block the pump, thereby protecting it from dry running. Once the cause of this flow failure has been eliminated, simply press the red Restart button (reset) to restore normal operating conditions. In the event of a temporary power failure, the unit restarts automatically when power is restored.

ADVANTAGES

- Elimination of water hammer effect.
- Replaces traditional expansion tank system.
- Maintenance free.
- Protection in event of water supply failure.
- Simple to install.
- Pressure remains constant during delivery.

APPLICATIONS

- For the start-up and shutdown of surface or submersible single phase pumps.
- Pressure remains constant during delivery.
- Starts and stops the pump according to opening and closing of utilities.

TECHNICAL SPECIFICATIONS

	Flusscontrol	Flusscontrol basic
Electric power supply	230 V single phase	230 V single phase
Maximum current	16 (8) A	16 (6) A
Max. nominal pump power	1.5 kW (2 HP)	1.1 kW
Frequency	50-60 Hz	50-60 Hz
Protection rating	IP 65	IP 65
Pressure drop with 6 m³/h flow rate	0.95 bar.	1.1 bar.
Maximum pressure	10 bar.	8 bar.
Maximum liquid temperature	65° C	60° C
Maximum ambient temperature	40° C	40° C
Weight	1.07 Kg	0.8 Kg



NOCCHI QES PLUS

SINGLE PHASE ELECTRICAL PANEL FOR CONTROL OF AN ELECTRIC SUBMERSIBLE PUMP WITH DIRECT STARTING

MAIN COMPONENTS

- IP 55 plastic enclosure
- Main switch with disconnect device.
- Motor protector with reset button.
- Start-up capacitor
- Terminal board
- Cable clamp

TECHNICAL SPECIFICATIONS

- Protection rating: IP 55
- Power supply voltage: 230V/ 1F 50 Hz
- External dimensions 115 - 185 - 65 mm
- Weight: 0.6 kg

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C.
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60335-1 - EN 60439-1.

OPERATION

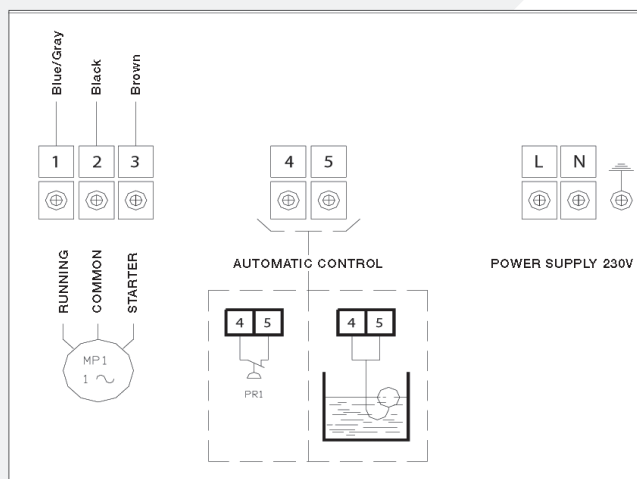
- Manual via the main switch.
- Automatic via external remote control (pressure switch, float etc.)

OPTIONAL ACCESSORIES

- Floats or pressure switches (see relative table)



MODEL	Volt	Power		Field of application A	µF	Compatible el. pumps
		min kW	max kW			
QES PLUS 10/37 M	230 1F	0.37	0.55	4	16	SCM 4" PLUS SCM 4 HF 4" MOTORS
QES PLUS 10/55 M	230 1F	0.55	0.75	6	20	
QES PLUS 10/75 M	230 1F	0.75	1	7	30	
QES PLUS 10/75 M	230 1F	0.75	1	7	35	
QES PLUS 10/110 M	230 1F	1.1	1.5	9	40	
QES PLUS 10/150 M	230 1F	1.5	2	12	50	



NOCCHI AT

THREE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE OR SURFACE PUMP WITH DIRECT STARTING

MAIN COMPONENTS

- Plastic enclosure
- Provision for control of dry running with float, pressure switch or electro-sensor.
- Line ON indicator light

OPERATION

- Manual via MAN selector.
- Automatic via external remote control (pressure switch, float etc.) and/or level control (filling, emptying, dry running protection).

APPLICATION LIMITS

- Control via external contact.
- Ambient temperature from -5 to +40°C (limit established by standard EN 60439-1).
- Max. relative humidity 50% at +40°C provided there is no condensation (limit established by standard EN 60439-1).

TECHNICAL SPECIFICATIONS

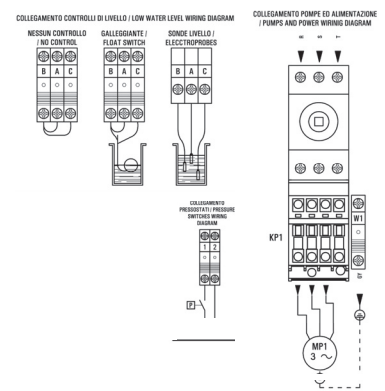
- Power supply voltage: 3 x 400 V
- Frequency 50/60 Hz
- Outputs from 0.37 to 7.5 kW
- Direct motor start-up
- Motor protector
- Protection rating: IP54
- External dimensions 260x195x180 mm
- Weight: 3.35 Kg.

OPTIONAL ACCESSORIES

- LCE level control electrodes.
- Floats or pressure switches.



MODEL	Volt	Power		Field of application A		Compatible el. pumps	
		min kW	max kW	min	max	Surface	Submersible
E. P. AT10 1-1.6 A 400V	3X400	0.37	0.55	1	1.6	VLR-VLRI-VLRX	DOMINATOR 5" SCM 4" PLUS SCM 4 HF 4" MOTORS
E. P. AT10 1-2.5 A 400V	3X400	0.55	0.75	1.6	2.5	DHR-DHI-MCX	
E. P. AT10 2.5-4 A 400V	3X400	0.75	1.5	2.5	4	MULTINOX-MAX	
E. P. AT10 4-6.3 A 400V	3X400	1.5	2.2	4	6.3	MULTINOX-A	
E. P. AT10 6.3-10 A 400V	3X400	2.2	4	6.6	10	MULTINOX-VE	
E. P. AT1010-16 A 400V	3X400	4	7.5	10	16	JET-CM-CB-EP NRM	



NOCCHI ADRM

SINGLE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR TWO DRAINAGE AND WASTE WATER PUMPS

MAIN COMPONENTS

- IP 54 plastic enclosure
- Main switch
- Fuse holder with fuses for electric pump
- Fuse holder with fuses for auxiliary circuit
- Transformer for auxiliary circuit
- Terminal board for level control devices
- Cable clamp
- Line ON indicator led
- Pump running indicator led
- Thermal cutout trip led
- Contactor with thermal relay

TECHNICAL SPECIFICATIONS

- Protection rating: IP54
- Power supply voltage: 220V/240V 1F 50 Hz
- External dimensions 220 - 270 - 185 mm

OPERATION

- Manual via MAN/AUT selector
- Automatic via float switch

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C
- Relative humidity: 50% at 40°C condensate free
- Reference standards: EN 60730 - EN 60439

ADRM 20

- Electronic signaling and control board with sequential start-up inverter.
- Electrical panel for control of two electric pumps.
- Weight: 7.5 kg

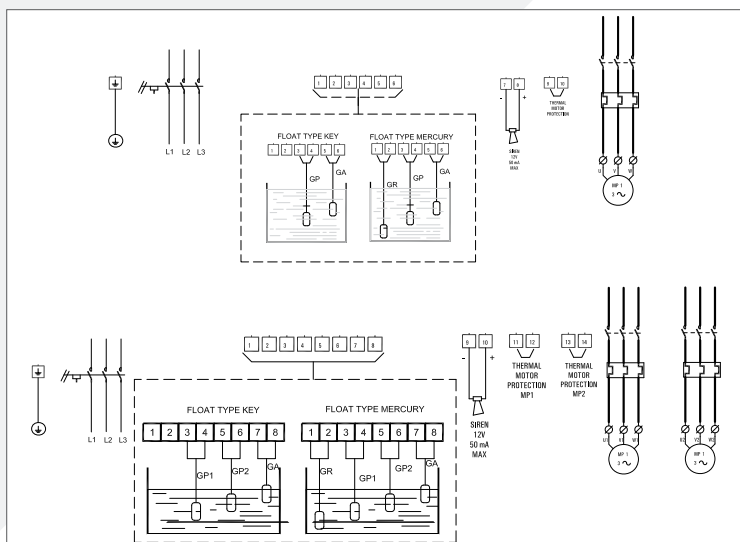
ADRM 10

- Electronic signaling and control board
- Electrical panel for control of one electric pump
- Weight: 5.5 kg

OPTIONAL ACCESSORIES

- UZA00200 Visual and acoustic alarm.
- CE040030 fins for wall mounting.
- Floats (see relative table).

MODEL	Volt	Power		Field of application A		Compatible el. pumps
		kW	Hp	min	max	
E.P. ADRM10/55	230 1F	0.55	0.75	2.5	4	DRENOX OMNIA PRIOX MINIVORT P MINIVORT PP
E.P. ADRM10/75	230 1F	0.75	1	4	6.3	
E.P. ADRM10/110	230 1F	1.1	1.5	6.3	10	
E.P. ADRM10/150	230 1F	1.5	2	10	16	
E.P. ADRM20/55	230 1F	2x0.55	2x0.75	2.5	4	
E.P. ADRM20/75	230 1F	2x0.75	2x1	4	6.3	
E.P. ADRM20/110	230 1F	2x1.1	2x1.5	6.3	10	
E.P. ADRM20/150	230 1F	2x1.5	2x2	10	16	



NOCCHI ADRD

THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE ELECTRIC DRAINAGE AND WASTE WATER PUMPS

MAIN COMPONENTS

- IP 54 plastic enclosure
- Main switch
- Fuse holder with fuses for electric pump
- Fuse holder with fuses for auxiliary circuit
- Contactor with thermal relay
- Transformer for auxiliary circuit
- Terminal board for level control devices
- Cable clamp
- Line ON indicator led
- Pump running indicator led
- Thermal cutout trip led

OPERATION

- Manual via MAN/AUT selector
- Automatic via float switch

OPTIONAL ACCESSORIES

- UZA00200 Visual and acoustic alarm
- CE040030 fins for wall mounting
- Floats (see relative table)

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60730 - EN 60439

ADRD 10

- Electronic signaling and control board
- Electrical panel for control of one electric pump

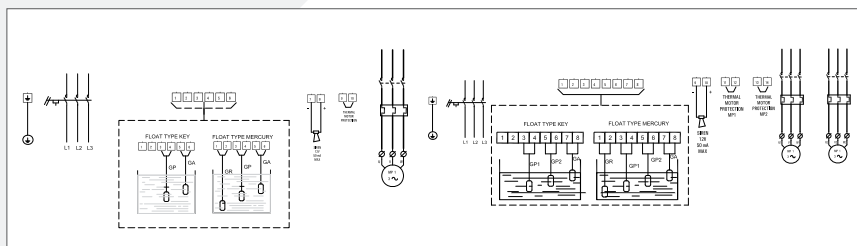
ADRD 20

- Electronic signaling and control board with sequential start-up inverter
- Electrical panel for control of two pumps

TECHNICAL SPECIFICATIONS

- Protection rating: IP54
- -Power supply voltage: 400V 3F 50 Hz
- External dimensions 220 - 270 - 185 mm
- Weight: 5.5 kg

MODEL	Volt	Power		Field of application A		Compatible el. pumps
		kW	Hp	min	max	
E.P. ADRD10/55	400 3F	0.55	0.75	1	1.6	DRENOX PRIOX MINIVORT P MINIVORT PP
E.P. ADRD10/110	400 3F	1.1	1.5	1.6	2.5	
E.P. ADRD10/150	400 3F	1.5	2	2.5	4	
E.P. ADRD10/300	400 3F	3	4	4	6.3	
E.P. ADRD10/500	400 3F	5	6.7	6.3	10	
E.P. ADRD10/750	400 3F	7.5	10	10	16	
E.P. ADRD10/900	400 3F	9	12	13	19	
E.P. ADRD20/55	400 3F	2x0.55	2x0.75	1	1.6	
E.P. ADRD20/110	400 3F	2x1.1	2x1.5	1.6	2.5	
E.P. ADRD20/150	400 3F	2x1.5	2x2	2.5	4	
E.P. ADRD20/300	400 3F	2x3	2x4	4	6.3	
E.P. ADRD20/500	400 3F	2x5	2x6.7	6.3	10	
E.P. ADRD20/750	400 3F	2x7.5	2x10	10	16	



NOCCHI ADRY

THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE ELECTRIC DRAINAGE AND WASTE WATER PUMPS WITH STAR/DELTA STARTING

MAIN COMPONENTS

- IP 54 plastic enclosure
- Main switch
- Fuse holder with fuses for electric pump
- Fuse holder with fuses for auxiliary circuit
- Contactor with thermal relay
- Transformer for auxiliary circuit
- Terminal board for level control devices
- Cable clamp
- Electronic signaling and control board (Volt/Amp)
- Thermal cutout trip led
- Pump running indicator led
- Line ON indicator led

TECHNICAL SPECIFICATIONS

- Protection rating: IP54
- Power supply voltage: 400V 3F 50 Hz
- External dimensions 500 - 750 - 250 mm

OPERATION

- Manual via MAN/AUT selector
- Automatic via float switch

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60730 - EN 60439

ADRY 20

- Electronic signaling and control board with sequential start-up inverter
- Electrical panel for control of two electric pumps
- Weight: Kg 15 - 85

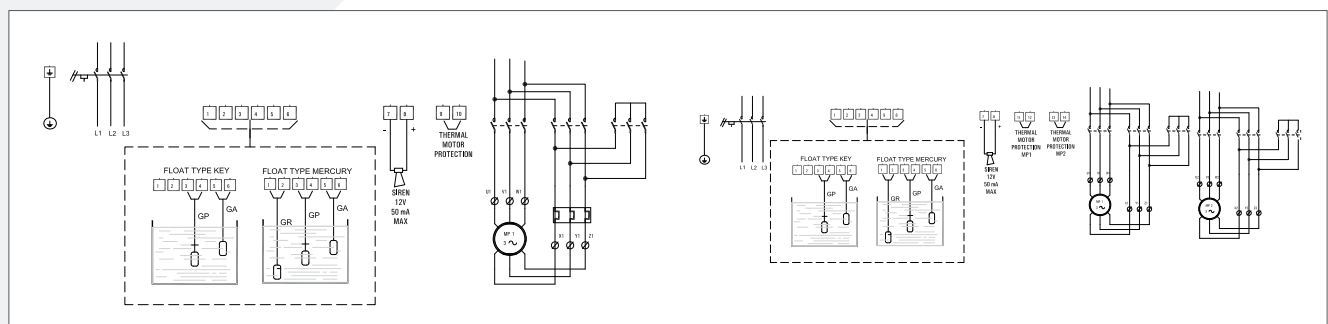
ADRY 10

- Electronic control board
- Electrical panel for control of one pump
- Weight: 12 - 60 kg

OPTIONAL ACCESSORIES

- UZA00200 Visual and acoustic alarm
- CE040030 fins for wall mounting
- Floats (see relative table)

MODEL	Volt	Power		Field of application A		Compatible el. pumps
		kW	Hp	min	max	
E.P. ADRY10/900	400 3F	9	12	12.9	19	Sewage pumps
E.P. ADRY10/1100	400 3F	11	15	17.2	24.1	
E.P. ADRY10/1500	400 3F	15	20	22.4	32.8	
E.P. ADRY10/2200	400 3F	22	30	29.3	44.8	
E.P. ADRY10/2500	400 3F	25	33.5	37.9	55.2	
E.P. ADRY20/900	400 3F	2x9	2x12	12.9	19	
E.P. ADRY20/1100	400 3F	2x11	2x15	17.2	24.1	
E.P. ADRY20/1500	400 3F	2x15	2x20	22.4	32.8	
E.P. ADRY20/2200	400 3F	2x22	2x30	29.3	44.8	
E.P. ADRY20/2500	400 3F	2x25	2x33.5	37.9	55.2	



NOCCHI DHR

MULTI-CELL CENTRIFUGAL PUMPS

LOW ENERGY CONSUMPTION, ULTRA-SILENT OPERATION, IMPELLERS AND DIFFUSERS IN 100% AISI 304 STAINLESS STEEL , THREADED PORTS WITH PROVISION FOR OVAL CONNECTORS (DHR 9 RANGE)

The DHR range features non self-priming horizontal centrifugal pumps. All rotary parts in contact with the pumped liquid are in AISI 304 stainless steel .

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 90°C.
- Maximum ambient temperature: 50° C
- Maximum recommended suction height: 6 m with foot valve (with liquid temp. at 50° C)
- Maximum operating pressure:
10 bar (with liquid temp. at 50°C)
6 bar (with liquid temp. at 90°C)

APPLICATIONS

- Lifting and distribution of water in domestic systems, with continuous or intermittent duty.
- Pressure booster systems.
- Washing, garden irrigation, fountains.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 54.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.
- Maximum ambient temperature: 50° C

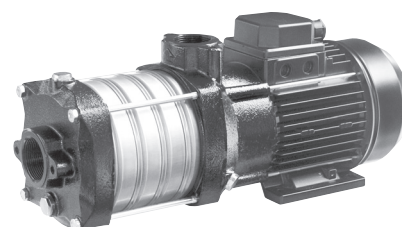
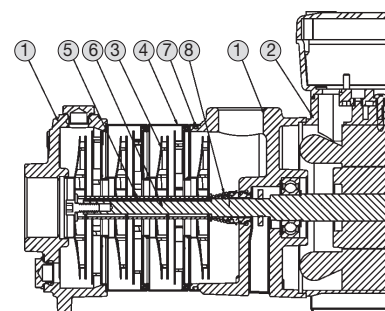


TABLE OF MATERIALS

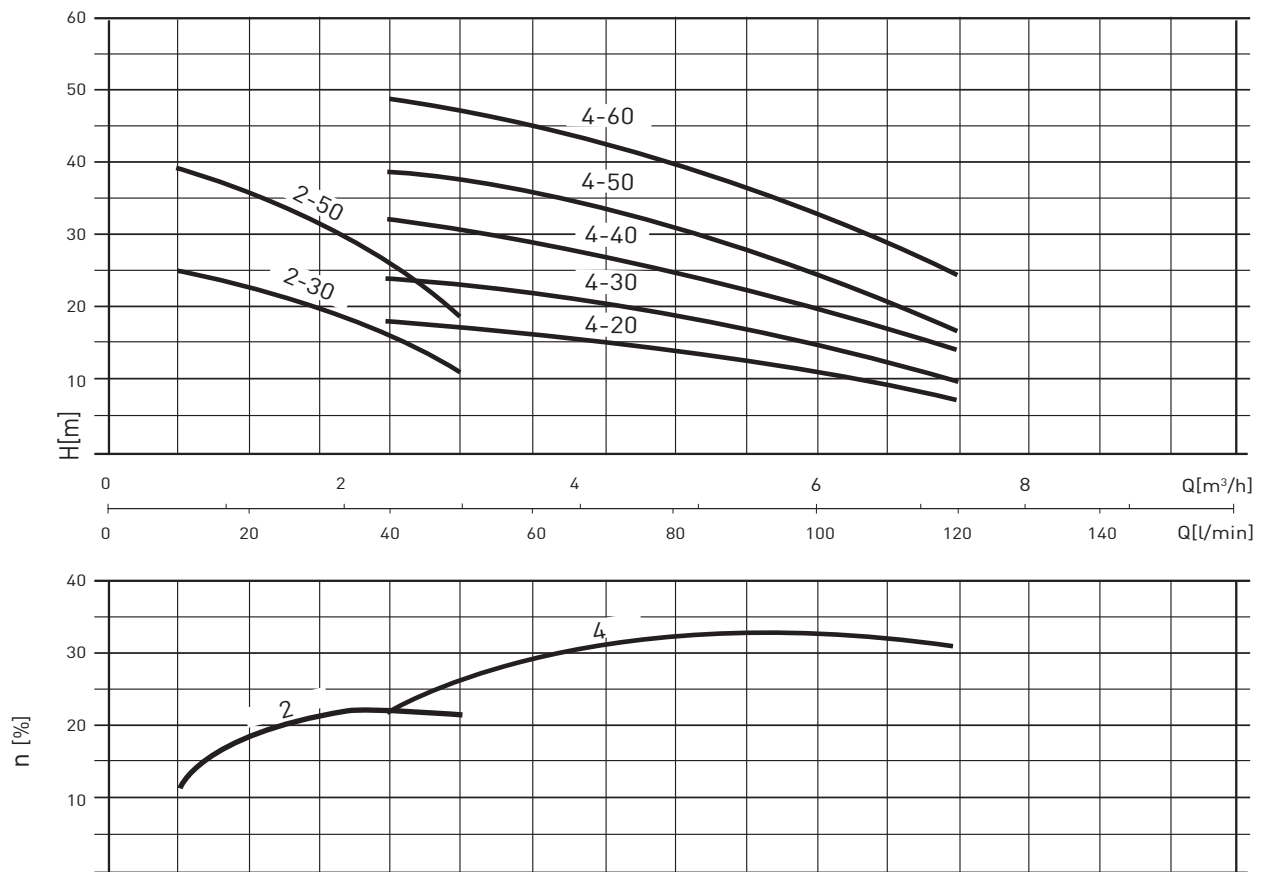
Component		Material
1	Suction flange	Die cast aluminum
2	Support	CAST IRON GJL-200 (ASTM Class 35)
3	Impellers	Stainless steel X5CrNi18-10 (AISI 304)
4	Diffusers	Stainless steel X5CrNi18-10 (AISI 304)
5	Sleeve	Stainless steel X5CrNi18-10 (AISI 304)
6	Shaft	Stainless steel X5CrNi18-10 (AISI 304)
7	Seals	NBR
8	Mechanical gasket	Ceramica / Graphite / NBR



NOCCHI DHR 2 - DHR 4

MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



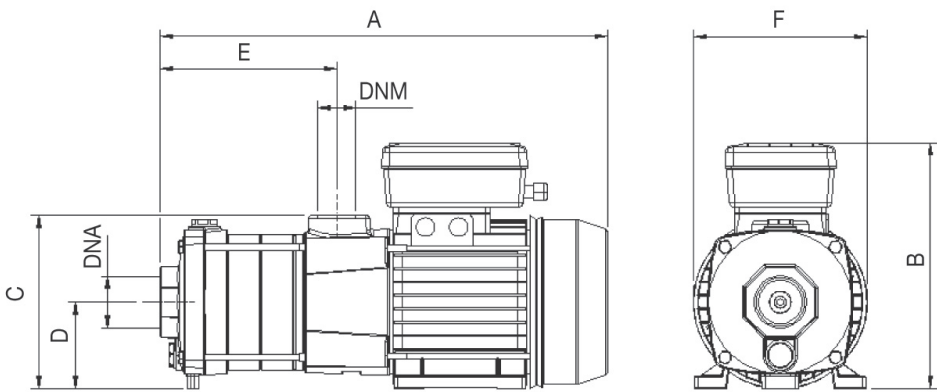
PERFORMANCE TABLE

MODEL	Motor output		Absorbed power		Volt	In (A)	μF.	Q	L/min	10	20	30	40	50
	HP	kW	HP	kW					m³/h	0.6	1.2	1.8	2.4	3
DHR 2-30 M	0.40	0.30	0.7	0.52	1 ~ 230 V	2.6	12.5	m.c.a. / m.w.c.		25	23	19	16	12
DHR 2-30 T	0.40	0.30	0.67	0.50	3 ~ 230/400 V	1.9-1.1	-			25	23	19	16	12
DHR 2-50 M	0.67	0.50	1	0.75	1 ~ 230 V	3.5	12.5			39	35	30	24	17
DHR 2-50 T	0.67	0.50	1	0.75	3 ~ 230/400 V	2.5-1.8	-			39	35	30	24	17

MODEL	Motor output		Absorbed power		Volt	In (A)	µF.	Q	L/min	40	50	60	80	100	120
	HP	kW	HP	kW					m³/h	2.4	3	3.6	4.8	6	7.2
DHR 4-20 M	0.50	0.37	0.75	0.55	1 ~ 230 V	2.7	12.5	m.c.a. / m.w.c.	17	16	15	13	11	7	
DHR 4-20 T	0.50	0.37	0.78	0.53	3 ~ 230/400 V	2.1-1.2	-		17	16	15	13	11	7	
DHR 4-30 M	0.67	0.50	1.10	0.80	1 ~ 230 V	3.7	12.5		24	23	21	18	14	10	
DHR 4-30 T	0.67	0.50	1	0.75	3 ~ 230/400 V	2.5-1.4	-		24	23	21	18	14	10	
DHR 4-40 M	0.94	0.70	1.34	1	1 ~ 230 V	4.5	16		33	31	29	26	21	15	
DHR 4-40 T	0.94	0.70	1.34	1	3 ~ 230/400 V	3.2-1.9	-		33	31	29	26	21	15	
DHR 4-50 M	1.20	0.90	1.68	1.25	1 ~ 230 V	5.8	20		41	39	37	33	27	19	
DHR 4-50 T	1.20	0.90	1.55	1.15	3 ~ 230/400 V	3.4-2	-		41	39	37	33	27	19	
DHR 4-60 M	1.6	1.2	2	1.5	1 ~ 230 V	7	31.5		52	49	47	43	36	26	
DHR 4-60 T	1.6	1.2	2	1.5	3 ~ 230/400 V	5.4-3.1	-		52	49	47	43	36	26	

NOCCHI DHR 2/4

MULTI-CELL CENTRIFUGAL PUMPS



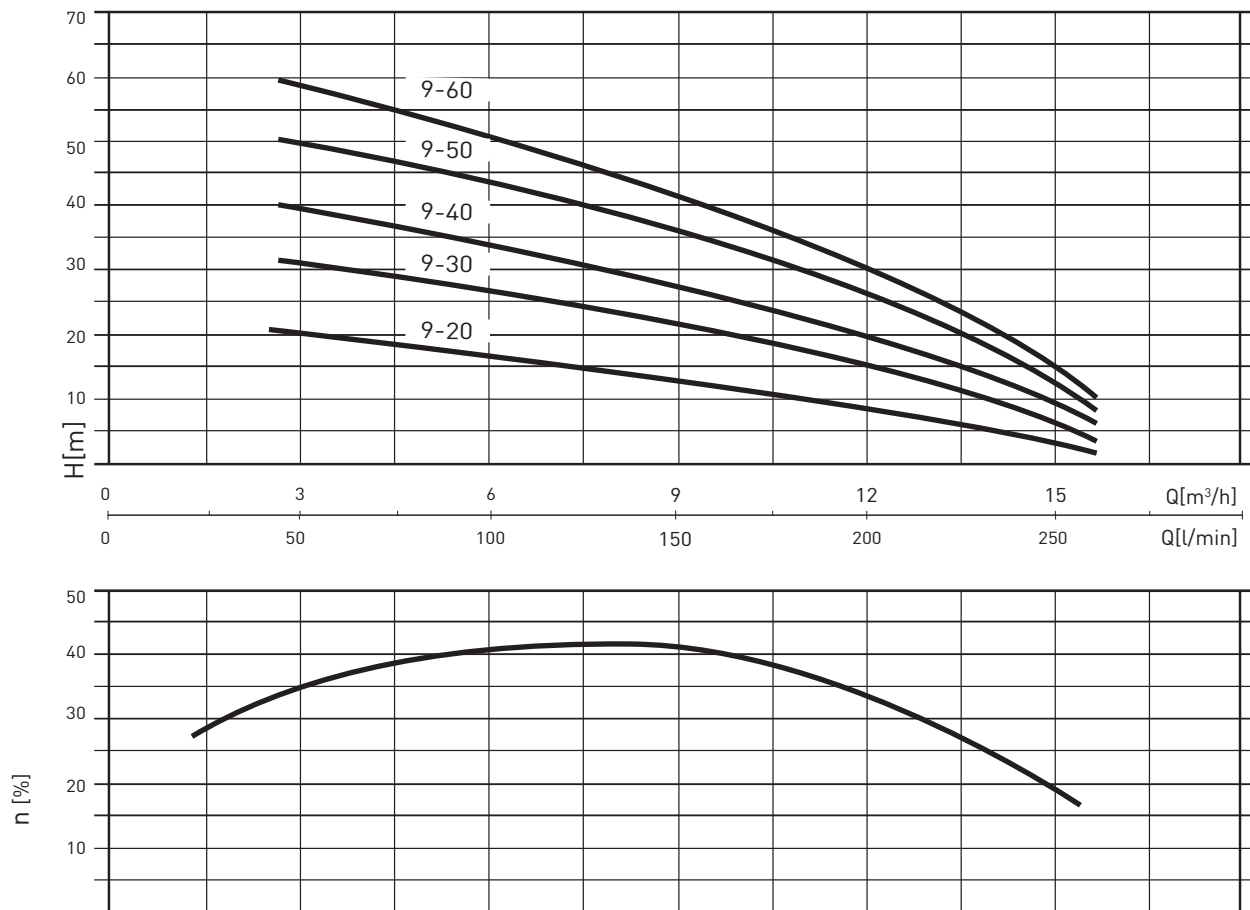
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							DNM	Net weight (kg)
	A	B	C	D	E	F	DNA		
DHR 2-30	326	205/190	137.5	71	105	142	1"	1"	10.2
DHR 2-50	362	205/190	137.5	71	141	142	1"	1"	11.5
DHR 2-20	339	205/190	137.5	71	119	142	1" 1/4	1"	10.5
DHR 4-30	339	205/190	137.5	71	119	142	1" 1/4	1"	10.7
DHR 4-40v	366	205/190	137.5	71	146	142	1" 1/4	1"	12
DHR 4-50	394	205/190	137.5	71	173	142	1" 1/4	1"	13.9
DHR 4-60	445	230/209	149	80	200	160	1" 1/4	1"	17

NOCCHI DHR 9

MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE

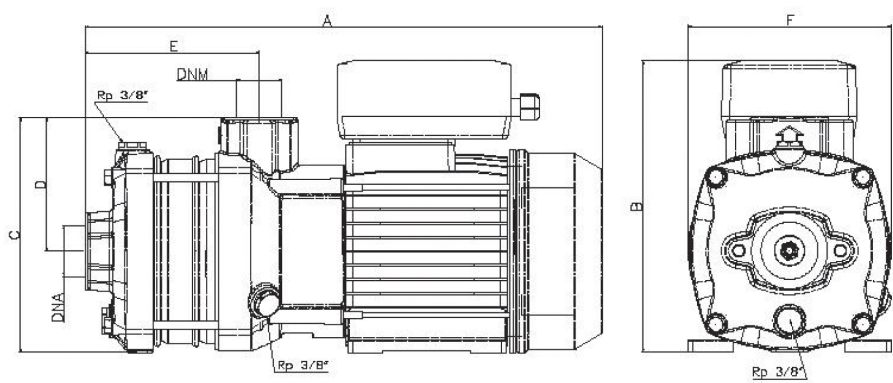


PERFORMANCE TABLE

MODEL	Motor output		Absorbed power		Volt	In (A)	μF	Q	L/min	40	80	120	160	200	240	260
	HP	kW	HP	kW					m³/h	2.4	4.8	7.2	9.6	12	14.4	15.6
DHR 9-20 M	0.87	0.65	1.34	1	1 ~ 230 V	4.5	20	m.c.a. / m.w.c.	20	19	16	13	9	5	3	
DHR 9-20 T	0.87	0.65	1.21	0.9	3 ~ 230/400 V	3 - 1.7			20	19	16	13	9	5	3	
DHR 9-30 M	1.27	0.95	1.88	1.4	1 ~ 230 V	6	25		31	29	26	21	16	9	5	
DHR 9-30 T	1.27	0.95	1.81	1.35	3 ~ 230/400 V	4.4 - 2.5			31	29	26	21	16	9	5	
DHR 9-40 M	1.74	1.3	2.41	1.8	1 ~ 230 V	8	31.5		40	38	33	27	19	10	5	
DHR 9-40 T	1.74	1.3	2.15	1.6	3 ~ 230/400 V	5.3 - 3			40	38	33	27	19	10	5	
DHR 9-50 M	2.15	1.6	2.95	2.2	1 ~ 230 V	10	35		51	49	43	36	26	14	6	
DHR 9-50 T	2.15	1.6	2.68	2	3 ~ 230/400 V	6.1 - 3.5			51	49	43	36	26	14	6	
DHR 9-60 T	2.55	1.9	3.35	2.5	3 ~ 230/400 V	7.9 - 4.5			60	56	49	40	29	14	6	

NOCCHI DHR 9

MULTI-CELL CENTRIFUGAL PUMPS



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Net weight (kg)	
	A	B	C	D	E	F	DNA		
DHR 9-20 M	378	196	185	105	107	160	1 1/2	1 1/4	17.5
DHR 9-20 T	378	227	185	105	107	160	1 1/2	1 1/4	18.8
DHR 9-30 M	378	196	185	105	107	160	1 1/2	1 1/4	18.7
DHR 9-30 T	378	227	185	105	107	160	1 1/2	1 1/4	19
DHR 9-40 M	408	196	185	105	137	160	1 1/2	1 1/4	20
DHR 9-40 T	408	227	185	105	137	160	1 1/2	1 1/4	22
DHR 9-50 M	438	196	185	105	168	160	1 1/2	1 1/4	22.5
DHR 9-50 T	438	227	185	105	168	160	1 1/2	1 1/4	23.5
DHR 9-60 T	468	196	185	105	198	160	1 1/2	1 1/4	24.1

NOCCHI A-DHR

PRESSURE BOOSTERS WITH ELECTRONIC PUMP CONTROL AND PROTECTION DEVICE

Automatic booster unit for pressure increase in water system.

Comprising a single phase pump model DHR and the electronic device FLUSSCONTROL, which controls automatic operation of the pump, protecting it in the event of water supply failure.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems.
- Washing and irrigation.

DESIGN SPECIFICATIONS

- Non-adjustable restart pressure: 1.5 bar.
- Liquid temperature range from 4°C to 65°C.
- 1.5m H05 RN-F power cable with Schuko plug.

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum recommended suction height: 6 m with foot valve.
- Maximum operating pressure: 10 bar.

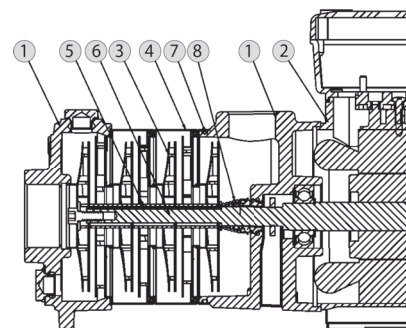
MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 54.
- Insulation class F.
- Single phase power supply with permanently activated capacitor.
- Thermal cutout protection incorporated in motor winding.
- Rotation speed 2850 rpm.
- Continuous duty.



TABLE OF MATERIALS

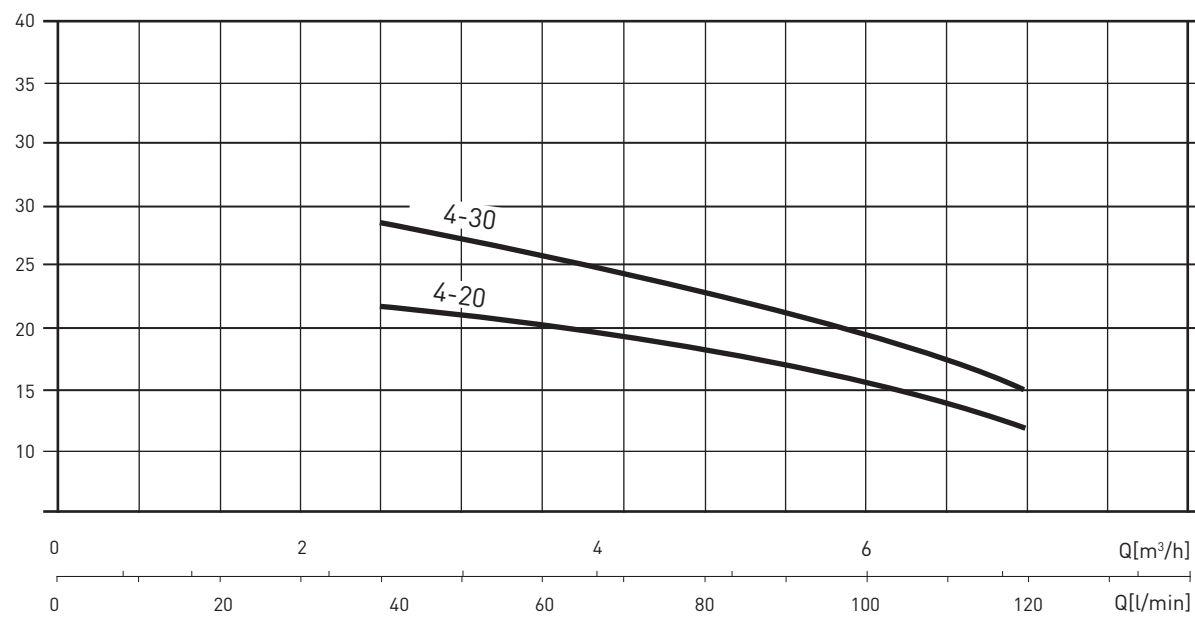
Component		Material
1	Pump body	CAST IRON GJL-200 (ASTM Class 35)
2	Motor bracket	Die cast aluminum
3	Impellers	Stainless steel X5 CrNi18-10 (AISI 304)
4	Diffusers	Stainless steel X5 CrNi18-10 (AISI 304)
5	Casing	Stainless steel X5 CrNi18-10 (AISI 304)
6	Shaft	Stainless steel X5 CrNi18-10 (AISI 304)
7	Gaskets / Seals	NBR
8	Mechanical gasket	Graphite/ceramic



NOCCHI A-DHR

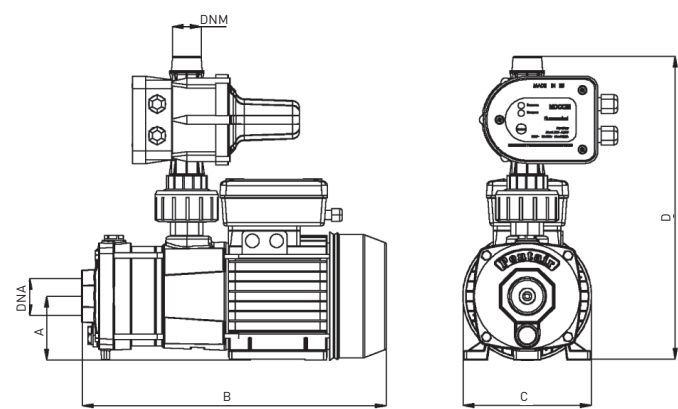
PRESSURE UNITS WITH ELECTRONIC PUMP CONTROL AND PROTECTION DEVICE

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	In (A)	µF	Q	L/ min	40	50	60	80	100	120
	HP	kW	HP	kW					m³/h	2.4	3	3.6	4.8	6	7.2
A-DHR 4-20 FB	0.50	0.37	0.80	0.60	1 – 230 V	2.9	12.5	m.c.a./m.w.c.	17	16	15.5	13.5	11	7.5	
A-DHR 4-30 FB	0.70	0.50	1.10	0.80	1 – 230 V	3.7	12.5		23.5	22.5	21	18	14	10	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Weight (kg)
	A	B	C	D	DNA	DNM	
A-DHR 4-20 FB	71	339	143	338	1" 1/4	1" M	11.5
A-DHR 4-30 FB	71	339	143	338	1" 1/4	1" M	11.7

NOCCHI DHI

MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULICS IN AISI 316 STAINLESS STEEL

DHI horizontal multi-cell centrifugal pumps offer the advantages of: High hydraulic performance in terms of pressure and flow rate. Minimal electrical energy consumption Ultra-silent operation

APPLICATION DATA

- Type of liquid: clean water without suspended solid bodies or abrasive material.
- Maximum liquid temperature: 90°C.
- Max recommended suction height: 6 m with foot valve (with liquid temp. at 50° C).
- Maximum operating pressure: 10 bar. (with liquid temp. at 50°C)
6 bar (with liquid temp. at 90°C).

APPLICATIONS

- Handling of aggressive liquids.
- Lifting and distribution of water in domestic systems, with continuous or intermittent duty.
- Pressure booster systems.
- Washing, garden irrigation, fountains.

MOTOR

- Asynchronous motor.
- Closed, ventilated from exterior.
- Protection rating IP 44.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.

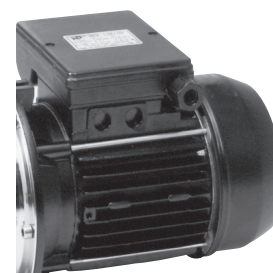
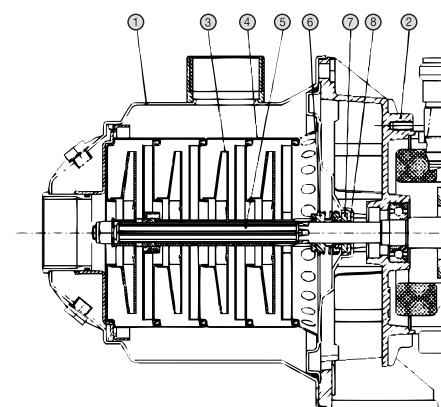


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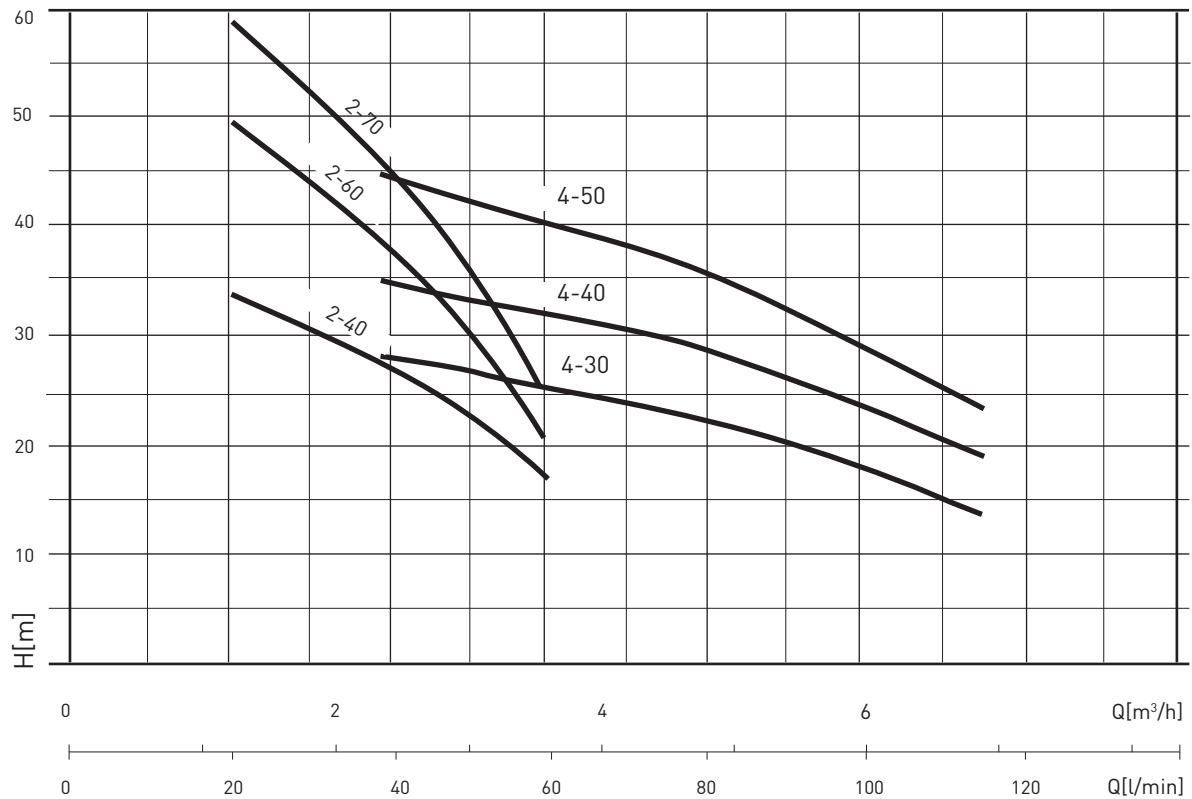
Component		Material
1	Pump body	Stainless steel X CrNiMo 17-12-03 (AISI 316)
2	Motor bracket	Die cast aluminum
3	Impeller	Stainless steel X CrNiMo 17-12-03 (AISI 316)
4	Intermediate chamber	Stainless steel X CrNiMo 17-12-03 (AISI 316)
5	Motor shaft	Stainless steel X CrNiMo 17-12-03 (AISI 316)
6	Mechanical gasket	Graphite
7	Counterface	Ceramic
8	Seal holder flange	Stainless steel X CrNiMo 17-12-03 (AISI 316)
	Seals	EPDM



NOCCHI DHI 2 - DHI 4

MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



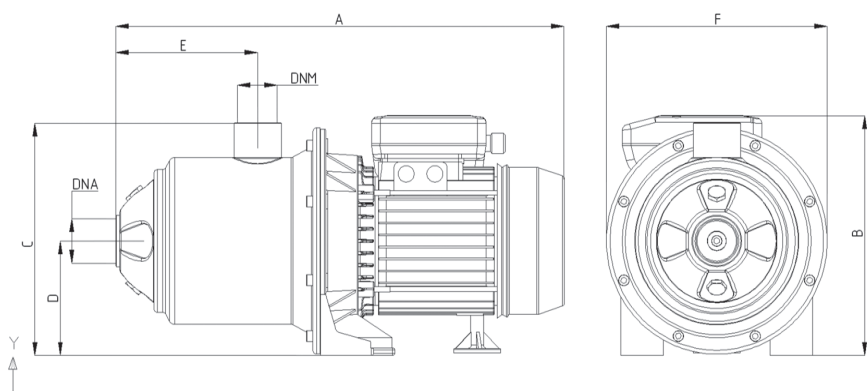
PERFORMANCE TABLE

MODEL	Motor output		Absorbed power		Volt	In (A)	μF.	Q	L/min	10	20	30	40	50	60
	HP	kW	HP	kW					m³/h	0.6	1.2	1.8	2.4	3	3.6
DHI 2-40 M	0.5	0.4	0.9	0.7	1 ~ 230 V	3.2	12.5	m.c.a. / m.w.c.		36	34	31	27	22	17
DHI 2-40 T	0.5	0.4	0.9	0.7	3 ~ 230/400 V	2.3 - 1.4	-			36	34	31	27	22	17
DHI 2-60 M	0.8	0.6	1.2	0.9	1 ~ 230 V	4.1	16			53	49	43	37	30	21
DHI 2-60 T	0.8	0.6	1.2	0.9	3 ~ 230/400 V	3 - 1.8	-			53	49	43	37	30	21
DHI 2-70 M	1	0.78	1.5	1.1	1 ~ 230 V	5.2	20			63	58	52	44	36	26
DHI 2-70 T	1	0.78	1.36	1	3 ~ 230/400 V	3 - 1.8	-			63	58	52	44	36	26

MODEL	Motor output		Absorbed power		Volt	In (A)	μF.	Q	L/min	40	50	60	80	100	120
	HP	kW	HP	kW					m³/h	2.4	3	3.6	4.8	6	7.2
DHI 4-30 M	0.67	0.5	1.1	0.8	1 ~ 230 V	3.6	12.5	m.c.a. / m.w.c.		27	26	25	22	18	14
DHI 4-30 T	0.67	0.5	1.1	0.8	3 ~ 230/400 V	2.9 - 1.7	-			27	26	25	22	18	14
DHI 4-40 M	0.94	0.7	1.36	1	1 ~ 230 V	4.4	16			35	33	32	28	24	18
DHI 4-40 T	0.94	0.7	1.36	1	3 ~ 230/400 V	3.3 - 2	-			35	33	32	28	24	18
DHI 4-50 M	1.2	0.9	1.68	1.25	1 ~ 230 V	5.8	20			44	42	40	36	30	23
DHI 4-50 T	1.2	0.9	1.6	1.2	3 ~ 230/400 V	3.3 - 2	-			44	42	40	36	30	23

NOCCHI DHI 2 - DHI 4

MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Net weight (kg)
	A	B	C	D	E	F	DNA	DNM	
DHI 2-40	368	220	213.5	105	80	208	1" 1/4	1" 1/4	11
DHI 2-60	396	220	213.5	105	108	208	1" 1/4	1" 1/4	11.7
DHI 2-70	422	220	213.5	105	134	208	1" 1/4	1" 1/4	14.1
DHI 4-30	368	220	213.5	105	80	208	1" 1/4	1" 1/4	11.3
DHI 4-40	396	220	213.5	105	108	208	1" 1/4	1" 1/4	12.1
DHI 4-50	422	220	213.5	105	134	208	1" 1/4	1" 1/4	14

NOCCHI VLR/VLRI/VLRX

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS



HIGH HYDRAULIC EFFICIENCY, STANDARDIZED MOTOR

The VLR series offers vertical multi-stage centrifugal pumps with "in line" suction and delivery ports. Directly coupled with an electric motor. Non self-priming.

IDENTIFICATION SYMBOL

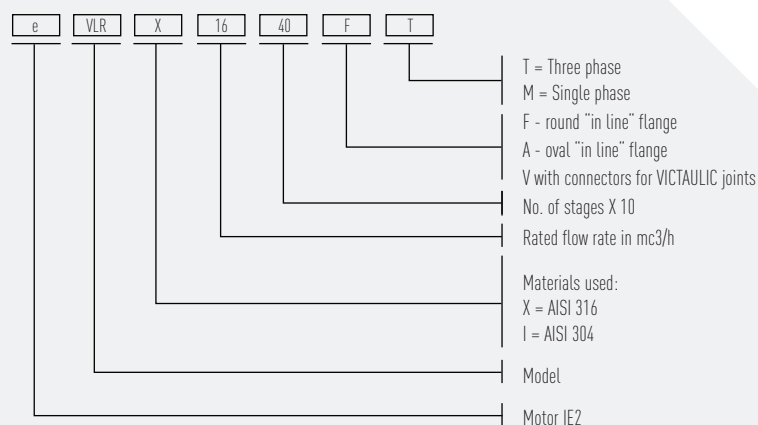


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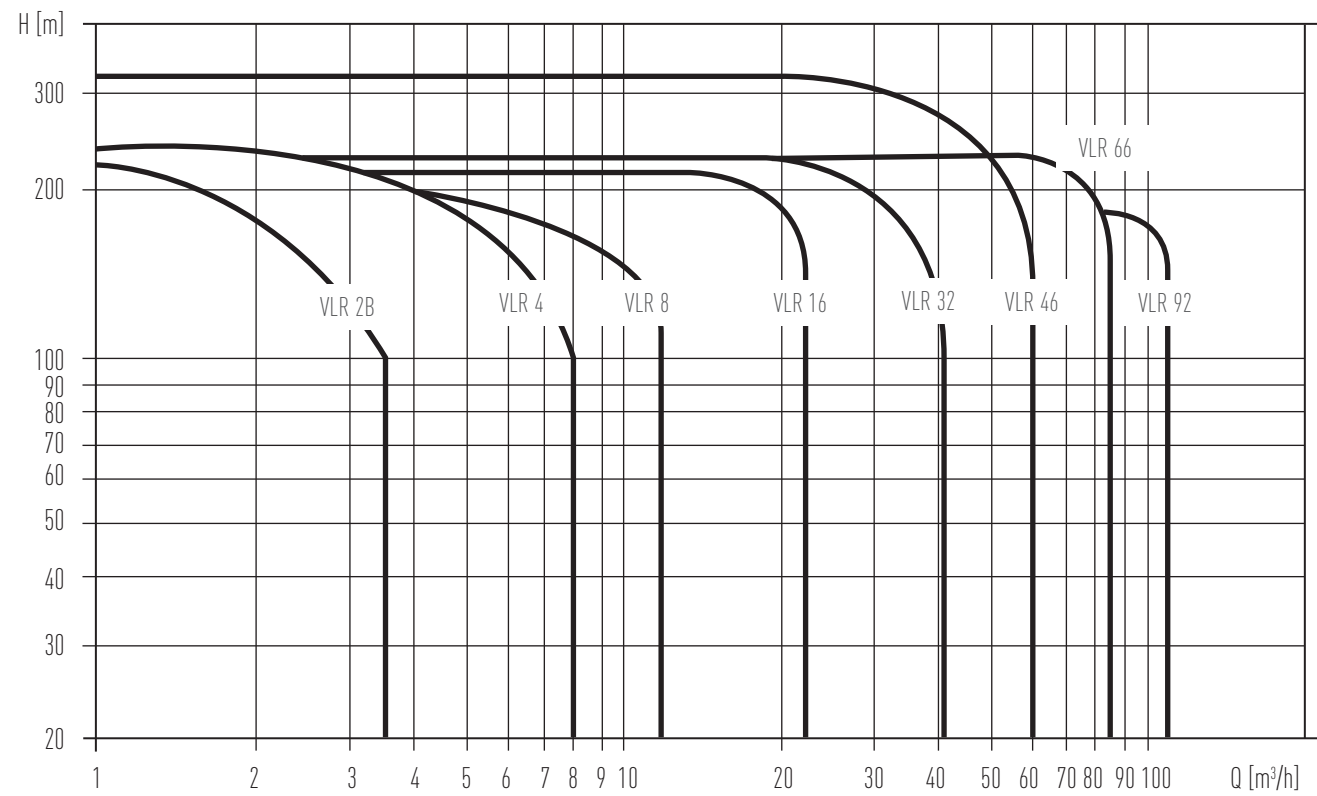
VERSIONS		F - in line ports with ROUND FLANGES (counterflanges optional)	A - in line ports with OVAL FLANGES complete with threaded counter- flange	V - in line ports with connectors for VICTAULIC joints
2B	VLR	X	X	
	VLRI	X	X	
	VLRX	X	X	X
4	VLR	X	X	
	VLRI	X	X	
	VLRX	X	X	X
8	VLR	X	X	
	VLRI	X		
	VLRX	X		X
16	VLR	X		
	VLRI	X		
	VLRX	X		
32	VLR	X		
33	VLRX	X		
46	VLR	X		
	VLRX	X		
66	VLR	X		
	VLRX	X		
92	VLR	X		
	VLRX	X		



NOCCHI VLR

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

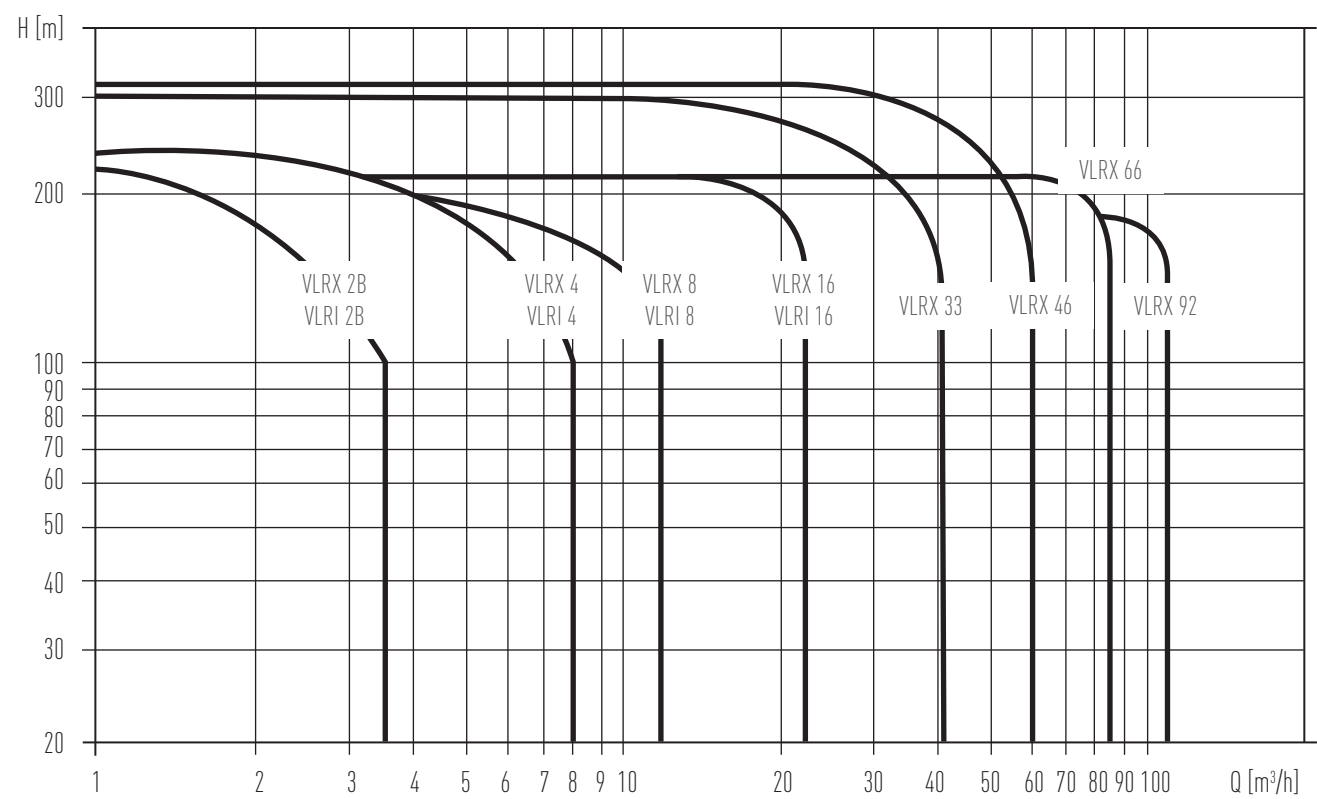
PERFORMANCE RANGE



NOCCHI VLRI/VLRX

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE RANGE



NOCCHI VLR

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS



HIGH HYDRAULIC EFFICIENCY, HYDRAULICS IN 100% STAINLESS STEEL, STANDARDIZED MOTOR

The VLR series offers vertical multi-stage centrifugal pumps with "in line" suction and delivery ports. Directly coupled with an electric motor. Non self-priming.

APPLICATIONS

- Water supply
- Pressure increase system
- Irrigation
- High pressure washing
- Fire fighting systems
- Boiler supply
- Liquid transfer

HYDRAULIC

- Impellers, diffusers and external Casing in stainless steel.
- Base, head and lantern housing in cast iron.
- Models VLR 32, VLR 46, VLR 66 and VLR 92 are fitted with a mechanical cartridge seal, thus avoiding the need for motor disassembly in the event of replacement.
- The "A" version models are equipped with threaded oval counterflanges in cast iron.
- The "F" version models are fitted with round DIN flanges.

MOTOR

- Electric asynchronous motor with closed casing and external ventilation.
- The main dimensions are in line with the provisions envisaged by the standards DIN and IEC.
- Construction design: Up to 4.0 Kw V18 From 5.5 Kw V1.
- Insulation class F.
- Protection rating IP 55.
- Maximum ambient temperature: 40° C.
- Rotation speed 2900 rpm.
- Oversized bearings for optimal load support.

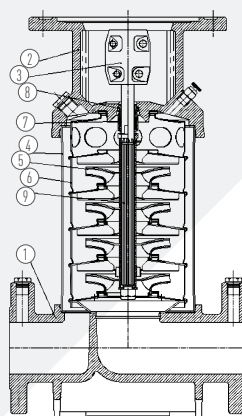


TABLE OF MATERIALS

COMPONENT		VLR 2B - 4 - 8 - 16	VLR 32	VLR 46 - 66 - 92
1	Base	Cast iron EN GJL 200	Cast iron EN GJL 500-7U	Cast iron EN GJL 250
2	Motor housing	Cast iron EN GJL 200	Cast iron EN GJL 200	Cast iron EN GJL 200
3	Motor coupling	Cast iron EN GJS 400	Cast iron EN GJL 500-7U	Cast iron EN GJL 200
4	Casing	Stainless steel X5CrNi18-10 (AISI 304)		Stainless steel X2CrNiMo17-12-2 (AISI 316L)
5	Impeller	Stainless steel X5CrNi18-10 (AISI 304)		Stainless steel X2CrNiMo17-12-2 (AISI 316L)
6	Diffuser	Stainless steel X5CrNi18-10 (AISI 304)		Stainless steel Nimo17-12-2 (AISI 316L)
7	Rotary gasket	Silicon carbide	Tungsten carbide	Silicon carbide
8	Fixed gasket	Graphite	Graphite	Graphite
9	Shaft	Stainless steel X2CrNiMo17-12-2 (AISI 316L)	Stainless steel X17CrNi16-2 (AISI 316L)	Stainless steel X2CrNiMo22-5-3 (AISI 316L)
10	Seals	EPDM		

NOCCHI VLR

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

APPLICATION DATA

	VLR 2B	VLR 4	VLR 8		VLR 16
	Oval flanges	DIN flanges	Oval flanges	DIN flanges	DIN flanges
Liquid temperature	from -15 to +120° C		from -15 to +120° C		from -15 to +120° C
Max. operating pressure (including suction head)	16 bar	25 bar (max temp 40° C)	16 bar	25 bar (max temp 40° C)	VLR16-30 - 2 - VLR16-100 25 bar (max temp 85° C)
		21 bar (max temp 120° C)		21 bar (max temp 120° C)	VLR16-30 -2 - VLR16-30 23 bar (max temp 120° C)
Minimum suction head	NPSH plus safety margin of 0.5 m				

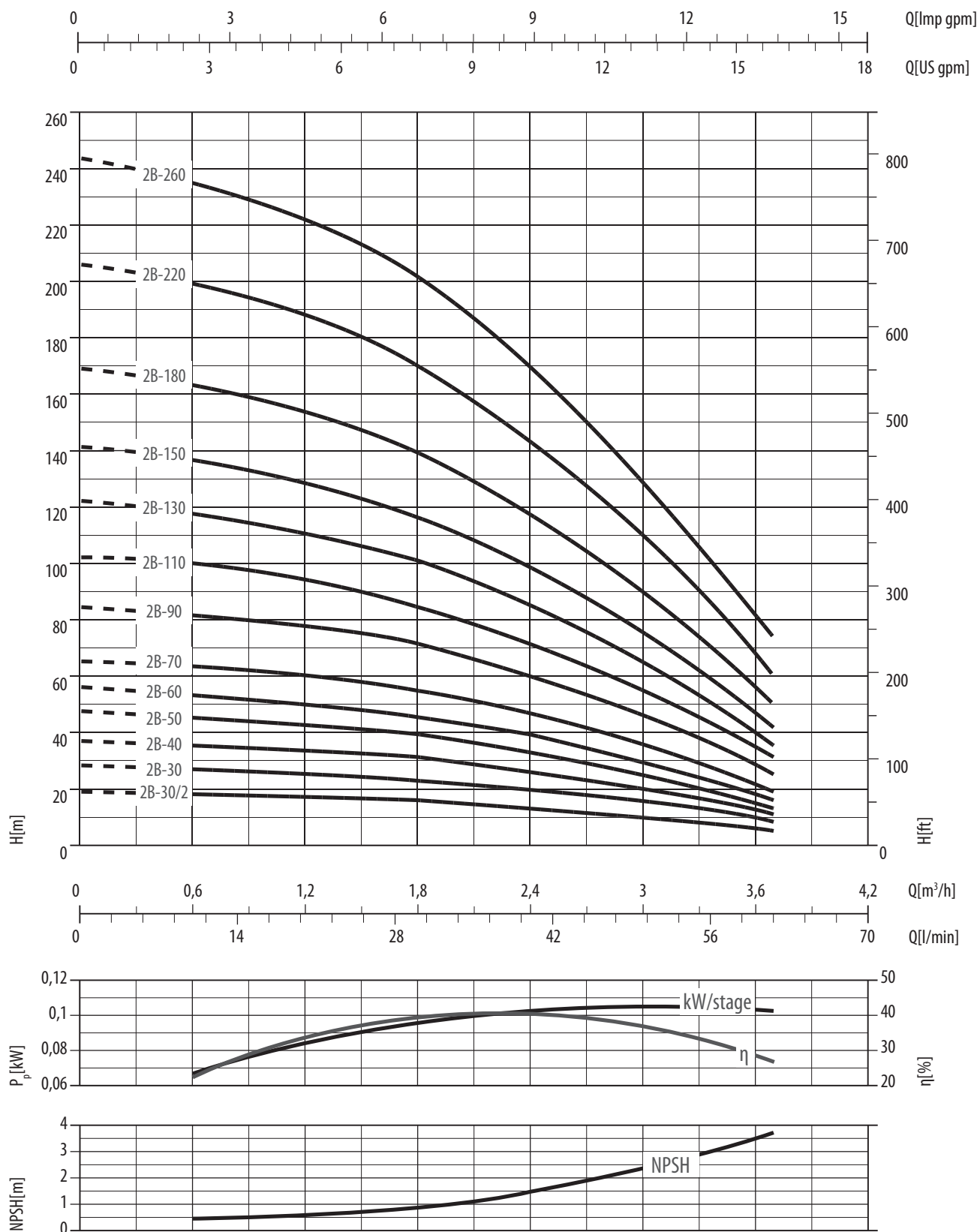
APPLICATION DATA

	VLR 32 DIN flanges	VLR 46 DIN flanges	VLR 66 DIN flanges	VLR 92 DIN flanges
Liquid temperature	from -20 to +120° C	from -30 to +120° C	from -30 to +120° C	from -30 to +120° C
Max. operating pressure (including suction head)	25 bar	16 bar up to VLR 46-50 25 bar up to VLR46-90 40 bar up to VLR 46-130/2	16 bar up to VLR 66-50 25 bar up to VLR 66-80	16 bar up to VLR 92-40 25 bar up to 92-70/2
Minimum suction head	NPSH plus safety margin of 0.5 m			

NOCCHI VLR 2B

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLR 2B	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 2B

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

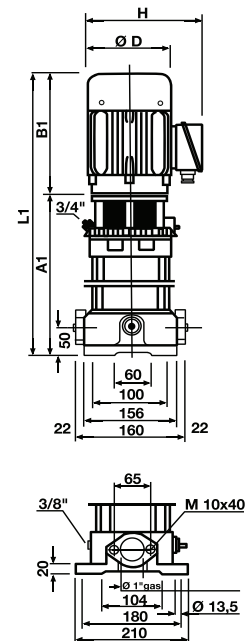
MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	10	20	30	40	50
	HP	kW					m³/h	0.6	1.2	1.8	2.4	3
VLR 2B - 30/2 A M VLR 2B - 30/2 A T	0.5	0.37	1-230 V 3-230 - 400 V	2.8 1.7-1.0	12.5	m.c.a. / m.w.c.	18	17	16	13	10	
VLR 2B - 30 A M VLR 2B - 30 A T	0.5	0.37	1-230 V 3-230 - 400 V	2.8 1.7-1.0	12.5		27	26	23	20	15	
VLR 2B - 40 A M VLR 2B - 40 A T	0.75	0.55	1-230 V 3-230 - 400 V	4.2 2.6-1.5	16		36	34	31	26	20	
VLR 2B - 50 A M VLR 2B - 50 A T	0.75	0.55	1-230 V 3-230 - 400 V	4.2 2.6-1.5	16		45	43	39	33	25	
VLR 2B - 60 A M VLR 2B - 60 A T	1	0.75	1-230 V 3-230 - 400 V	5 3.5-2	25		54	51	46	39	30	
VLR 2B - 70 A M VLR 2B - 70 A T	1	0.75	1-230 V 3-230 - 400 V	5 3.5-2	25		64	60	54	46	35	
VLR 2B - 90 A M VLR 2B - 90 A T	1.5	1.1	1-230 V 3-230 - 400 V	7.9 4.5-2.6	31.5		82	77	70	59	45	
VLR 2B - 110 A M VLR 2B - 110 A T	1.5	1.1	1-230 V 3-230 - 400 V	7.9 4.5-2.6	31.5		100	94	85	72	55	
VLR 2B - 130 A M VLR 2B - 130 A T	2	1.5	1-230 V 3-230 - 400 V	10.5 6.1-3.5	36		118	111	101	85	65	
VLR 2B - 150 A M VLR 2B - 150 A T	2	1.5	1-230 V 3-230 - 400 V	10.5 6.1-3.5	36		136	128	116	99	75	
VLR 2B - 180 F T	3	2.2	3-230 - 400 V	8.5-4.9			163	154	139	118	90	
VLR 2B - 220 F T	3	2.2	3-230 - 400 V	8.5-4.9			199	188	170	144	110	
VLR 2B - 260 F T	4	3	3-230 - 400 V	11.6-6.7			235	222	201	170	130	

- VLR 2B version "A" models are supplied complete with oval 1" GAS flanges
- VLR 2B version "F" models are supplied with optional round counterflanges

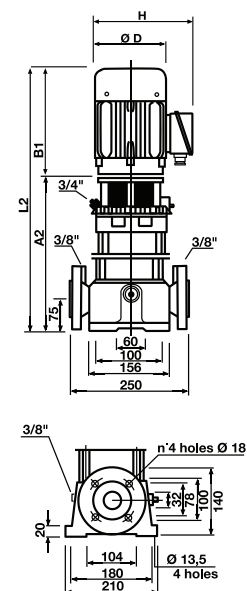
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Net weight (kg)	
	A ₁	B ₁	L ₁	A ₂	L ₂	D	H		
VLR 2B - 30/2	238	213	451	-	-	142	109	20	-
VLR 2B - 30	238	213	451	-	-	142	109	21	-
VLR 2B - 40	256	213	469	-	-	142	109	23	-
VLR 2B - 50	274	213	487	-	-	142	109	25	-
VLR 2B - 60	296	237	533	-	-	160	131	26	-
VLR 2B - 70	314	237	551	-	-	160	131	33	-
VLR 2B - 90	350	237	587	-	-	160	131	34	-
VLR 2B - 110	386	237	623	-	-	160	131	36	-
VLR 2B - 130	441	265	706	-	-	185	130	37	-
VLR 2B - 150	447	265	742	-	-	185	130	43	-
VLR 2B - 180	-	265	-	556	821	185	130	-	49
VLR 2B - 220	-	265	-	628	893	185	130	-	61
VLR 2B - 260	-	315	-	704	1019	200	140	-	63

Design with oval flanges
VLR 2B 30/2 VLR 2B 150



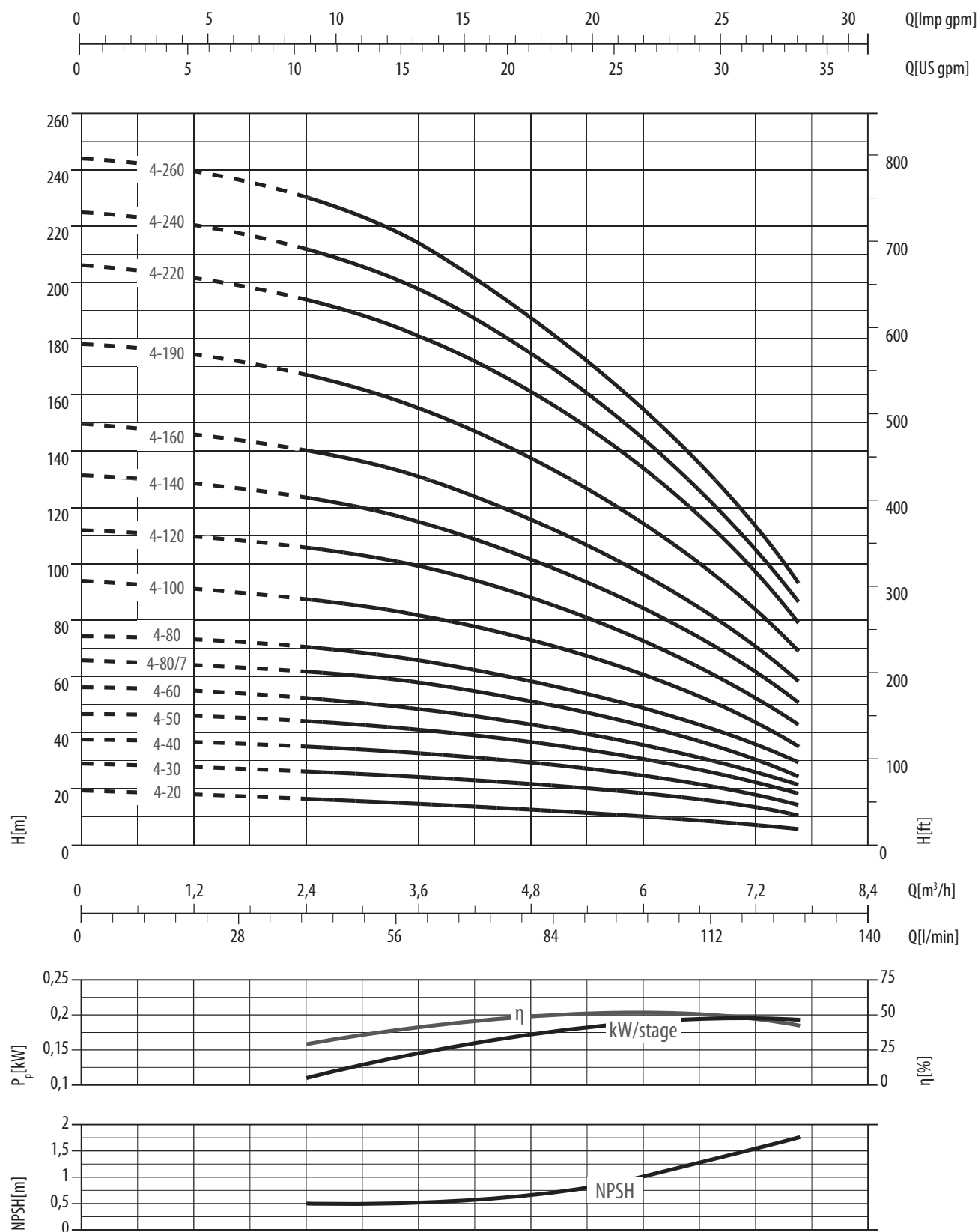
Design with flanges
PIN 10 DIN 2534/ISO 7005-2



NOCCHI VLR 4

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLR4	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 4

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

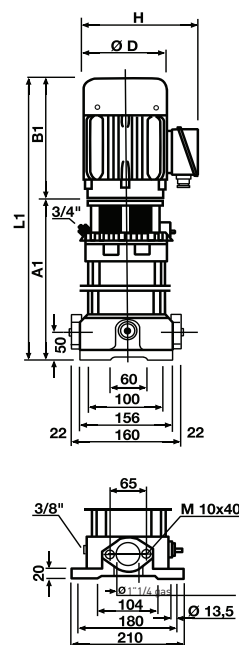
MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	40	60	80	100	120
	HP	kW						m³/h	2.4	3.6	4.8	6
VLR 4 - 20 A M VLR 4 - 20 A T	0.5	0.37	1~230 V 3~230 - 400 V	2.8 1.7-1.0	12.5	m.c.a. / m.w.c.		18	16	15	12	9
VLR 4 - 30 A M VLR 4 - 30 A T	0.75	0.55	1~230 V 3~230 - 400 V	4.2 2.6-1.5	16			27	25	22	18	13
VLR 4 - 40 A M VLR 4 - 40 A T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-2	25			35	33	29	24	18
VLR 4 - 50 A M VLR 4 - 50 A T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			44	41	36	30	22
VLR 4 - 60 A M VLR 4 - 60 A T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	36			53	49	44	36	27
VLR 4 - 80/7 A M VLR 4 - 80/7 A T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			62	58	51	43	31
VLR 4 - 80 A M VLR 4 - 80 A T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5				71	66	58	49	35
VLR 4 - 100 A T	3	2.2	3~230 - 400 V	8.5-4.9				89	82	73	61	44
VLR 4 - 120 A T	3	2.2	3~230 - 400 V	8.5-4.9				106	99	87	73	53
VLR 4 - 140 A T	4	3	3~230 - 400 V	11.6-6.7				124	115	102	85	62
VLR 4 - 160 A T	4	3	3~230 - 400 V	11.6-6.7				142	131	117	97	71
VLR 4 - 190 F T	5.5	4	3~230 - 400 V	14.3-8.3				168	156	138	115	84
VLR 4 - 220 F T	5.5	4	3~230 - 400 V	14.3-8.3				195	181	160	134	97
VLR 4 - 240 F T	7.5	5.5	3~400 - 690 V	11.3-8.5				213	197	175	146	106
VLR 4 - 260 F T	7.5	5.5	3~400 - 690 V	11.3-8.5				230	214	189	158	115

- VLR 4 version "A" models are supplied complete with oval 1" GAS flanges
- VLR 4 version "F" models are supplied with optional round counterflanges

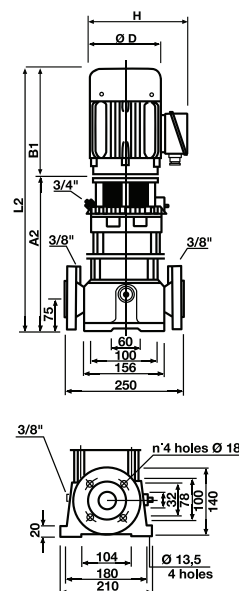
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Net weight (kg)	
	A ₁	B ₁	L ₁	A ₂	L ₂	D	H		
VLR 4 - 20	238	213	451	-	-	142	109	20	-
VLR 4 - 30	265	213	478	-	-	142	109	21	-
VLR 4 - 40	269	237	533	-	-	160	131	23	-
VLR 4 - 50	323	237	560	-	-	160	131	25	-
VLR 4 - 60	350	237	587	-	-	160	131	26	-
VLR 4 - 80/7	423	265	688	-	-	185	130	33	-
VLR 4 - 80	423	265	688	-	-	185	130	33	-
VLR 4 - 100	477	265	742	-	-	185	130	36	-
VLR 4 - 120	531	265	796	-	-	185	130	37	-
VLR 4 - 140	589	315	904	-	-	200	140	41	-
VLR 4 - 160	643	315	958	-	-	200	140	43	-
VLR 4 - 190	-	335	-	749	1084	200	140	-	61
VLR 4 - 220	-	335	-	830	1165	200	140	-	63
VLR 4 - 240	-	385	-	911	1298	260	185	-	87
VLR 4 - 260	-	385	-	965	1350	260	185	-	89

Design with oval flanges
VLR 4-20 VLR 4-160



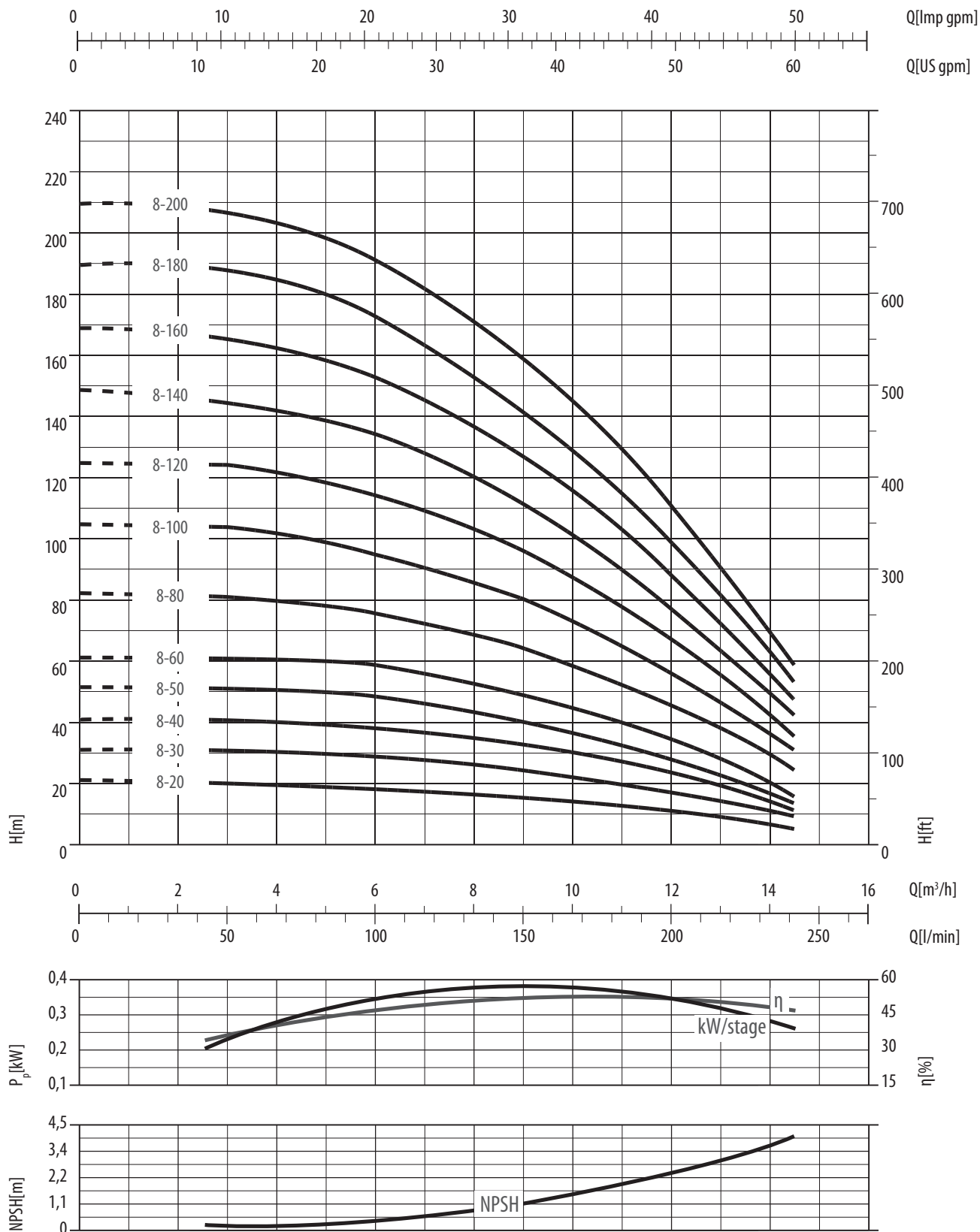
Design with flanges
PIN 10 DIN 2534/ISO 7005-2



NOCCHI VLR 8

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg} / \text{dm}^3$ at 20°C

VLR8	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 8

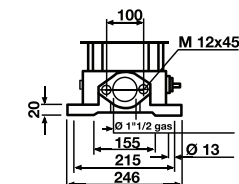
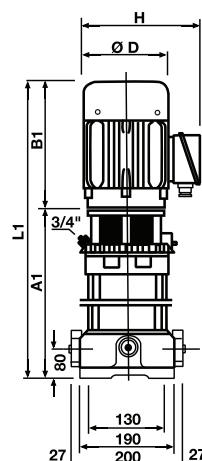
VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	50	100	150	175	200
	HP	kW					m³/h	3	6	9	10.5	12
VLR 8 - 20 A M VLR 8 - 20 A T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-1.9	25	m.c.a. / m.w.c.	21	19	16	14	11	
VLR 8 - 30 A M VLR 8 - 30 A T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5		31	29	24	21	16	
VLR 8 - 40 A M VLR 8 - 40 A T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36		41	38	32	27	22	
VLR 8 - 50 A T	3	2.2	3~230 - 400 V	8.5-4.9			52	48	40	34	27	
VLR 8 - 60 A T	3	2.2	3~230 - 400 V	8.5-4.9			62	58	48	41	33	
VLR 8 - 80 A T	4	3	3~230 - 400 V	11.6-6.7			82	77	64	55	44	
VLR 8 - 100 A T	5.5	4	3~230 - 400 V	14.3-8.3			103	96	80	69	55	
VLR 8 - 120 A T	5.5	4	3~230 - 400 V	14.3-8.3			124	115	96	82	65	
VLR 8 - 140 F T	7.5	5.5	3~400 - 690 V	11.3-8.5			144	134	112	96	76	
VLR 8 - 160 F T	7.5	5.5	3~400 - 690 V	11.3-8.5			165	154	128	110	87	
VLR 8 - 180 F T	10	7.5	3~400 - 690 V	14.3-8.3			185	173	144	123	98	
VLR 8 - 200 F T	10	7.5	3~400 - 690 V	14.3-8.3			206	192	160	137	109	

- VLR 8 version "A" models are supplied complete with oval 1" GAS counterflanges
- VLR 8 version "F" models are supplied with optional round counterflanges

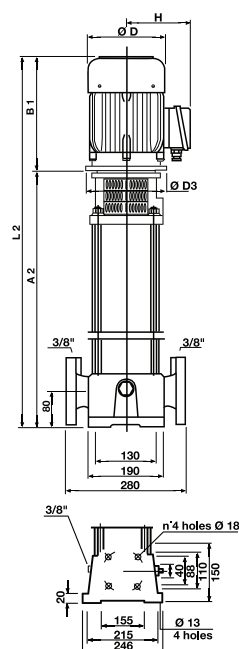
Design with oval flanges
VLR 8-20 VLR 8-120



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Net weight (kg)	
	A ₁	B ₁	L ₁	A ₂	L ₂	D	H	D ₃		
VLR 8 - 20	245	237	482	-	-	160	131	-	30	-
VLR 8 - 30	375	237	612	-	-	160	131	-	32	-
VLR 8 - 40	420	265	685	-	-	185	130	-	40	-
VLR 8 - 50	450	265	715	-	-	185	130	-	42	-
VLR 8 - 60	480	265	745	-	-	185	130	-	43	-
VLR 8 - 80	545	315	860	-	-	200	140	-	51	-
VLR 8 - 100	605	335	940	-	-	200	140	-	52	-
VLR 8 - 120	665	335	1000	-	-	200	140	-	56	-
VLR 8 - 140	-	385	-	745	1130	260	185	300	-	85
VLR 8 - 160	-	385	-	805	1190	260	185	300	-	86
VLR 8 - 180	-	385	-	865	1250	260	185	300	-	90
VLR 8 - 200	-	385	-	925	1310	260	185	300	-	91

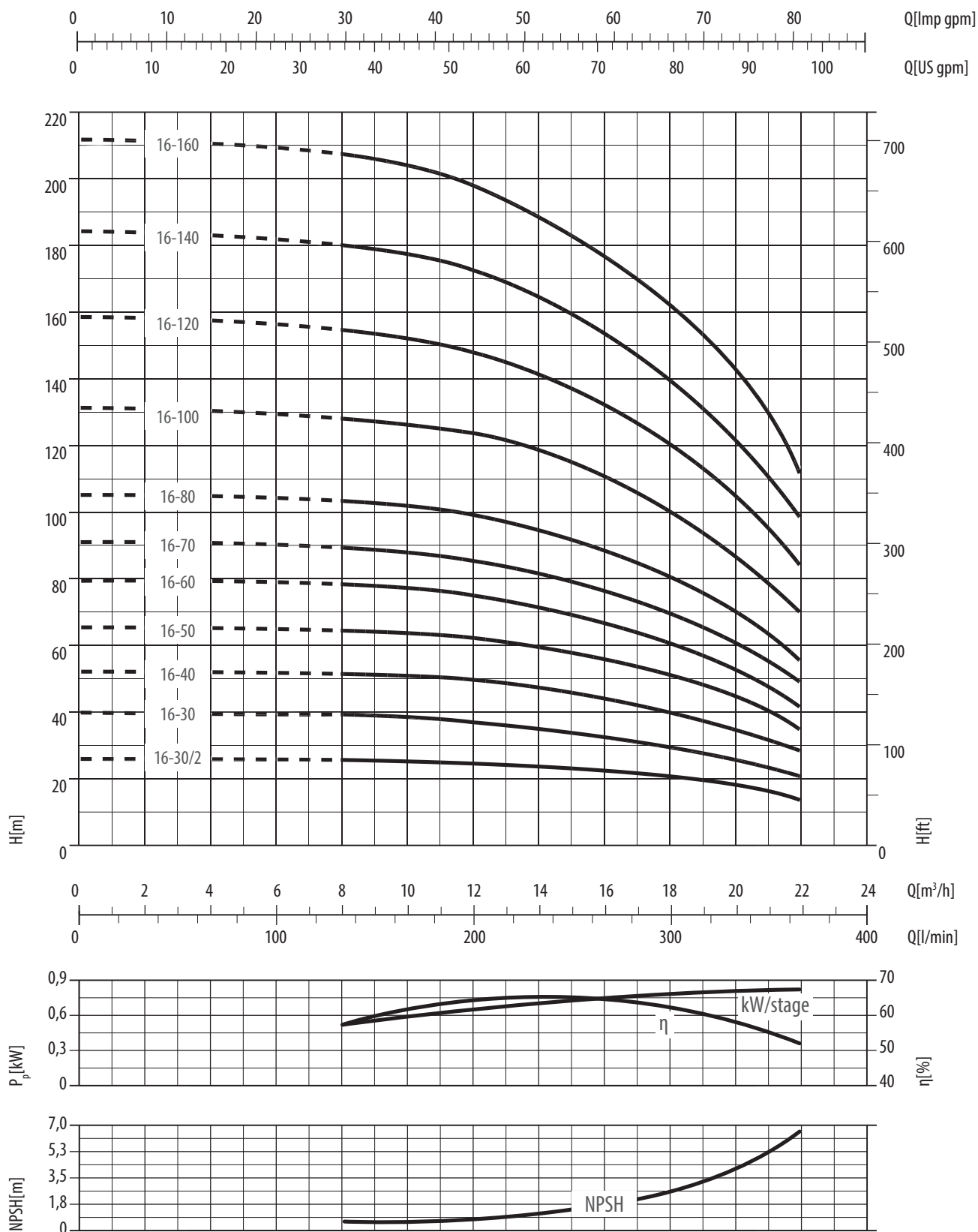
Design with flanges
PIN 10 DIN 2534/ISO 7005-2



NOCCHI VLR 16

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



VLR 16	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

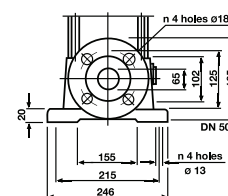
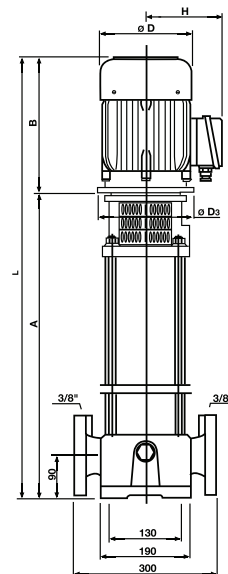
NOCCHI VLR 16

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	100	200	250	300	350
	HP	kW				m³/h	6	12	15	18	21
VLR 16 - 30/2 F T	3	2.2	3-230 - 400 V	8.5-4.9	m.c.a. / m.w.c.	26	25	23	20	16	
VLR 16 - 30 F T	4	3	3-230 - 400 V	11.6-6.7		39	37	34	30	24	
VLR 16 - 40 F T	5.5	4	3-230 - 400 V	14.3-8.3		52	49	46	40	32	
VLR 16 - 50 F T	7.5	5.5	3-400 - 690 V	11.3-8.5		65	62	57	51	40	
VLR 16 - 60 F T	7.5	5.5	3-400 - 690 V	11.3-8.5		78	74	69	61	47	
VLR 16 - 70 F T	10	7.5	3-400 - 690 V	14.3-8.3		91	86	80	71	55	
VLR 16 - 80 F T	10	7.5	3-400 - 690 V	14.3-8.3		104	98	92	81	63	
VLR 16 - 100 F T	15	11	3-400 - 690 V	21-12.1		130	123	115	101	79	
VLR 16 - 120 F T	15	11	3-400 - 690 V	21-12.1		156	148	137	121	95	
VLR 16 - 140 F T	20	15	3-400 - 690 V	28-12.6		182	172	160	142	111	
VLR 16 - 160 F T	20	15	3-400 - 690 V	28-12.6		208	197	183	162	126	

Flanges DN50 PN25 DIN 2534/ISO 7005-2 (with thru-diameter of 65 mm). Counterflanges optional



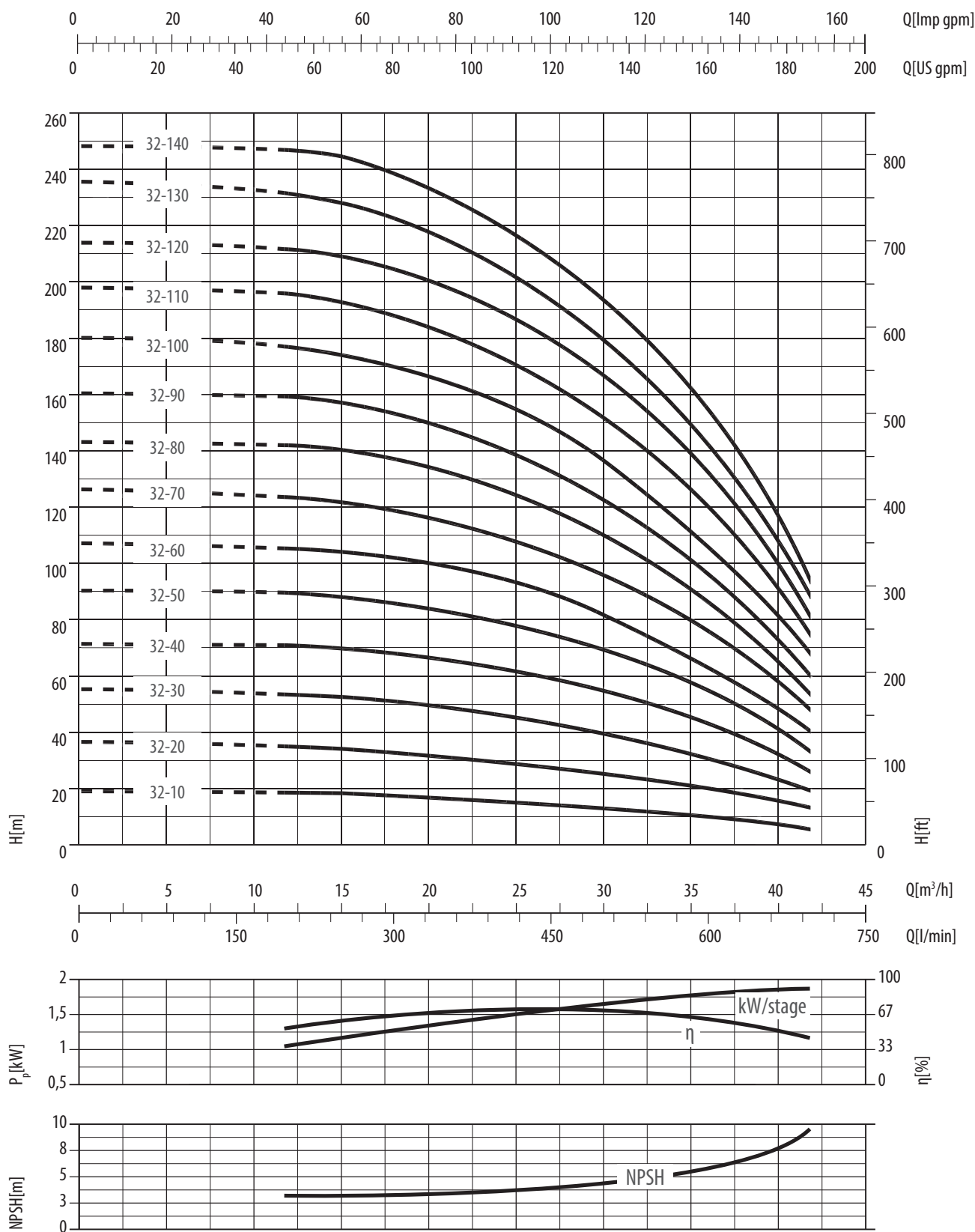
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Net weight (kg)
	A	B	L	D	H	D ₃	
VLR 16 - 30/2 F T	460	265	725	185	130	140	52
VLR 16 - 30 F T	464	315	779	200	140	250	56
VLR 16 - 40 F T	509	335	844	200	140	250	59
VLR 16 - 50 F T	575	385	960	260	185	300	82
VLR 16 - 60 F T	620	385	1005	260	185	300	84
VLR 16 - 70 F T	665	385	1050	260	185	300	90
VLR 16 - 80 F T	710	385	1095	260	185	300	92
VLR 16 - 100 F T	830	495	1325	260	185	350	136
VLR 16 - 120 F T	920	495	1425	260	185	350	140
VLR 16 - 140 F T	1010	495	1505	310	230	350	181
VLR 16 - 160 F T	1100	495	1595	310	230	350	185

NOCCHI VLR 32

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLR 32	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 32

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

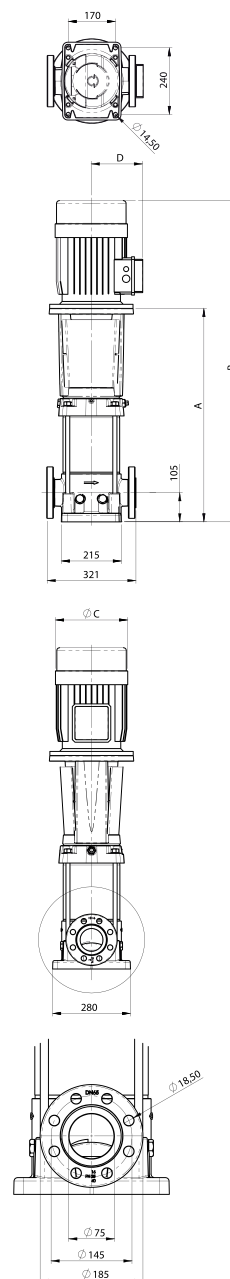
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	200	400	500	600	700
	HP	kW				m³/h	12	24	30	36	42
VLR 32-1	3	2.2	3 ~ 230 - 400 V	8.65-5	m.c.a. / m.w.c.	18	16	14	11	7	
VLR 32-2	5.5	4	3 ~ 400 - 690 V	8.6		35	31	27	22	14	
VLR 32-3	7.5	5.5	3 ~ 400 - 690 V	10.9		53	47	41	33	20	
VLR 32-4	10	7.5	3 ~ 400 - 690 V	14.7		71	63	55	44	27	
VLR 32-5	15	11	3 ~ 400 - 690 V	21		89	79	69	55	34	
VLR 32-6	15	11	3 ~ 400 - 690 V	21		106	94	82	66	41	
VLR 32-7	20	15	3 ~ 400 - 690 V	29		124	110	96	77	48	
VLR 32-8	20	15	3 ~ 400 - 690 V	29		142	126	110	88	54	
VLR 32-9	25	18.5	3 ~ 400 - 690 V	35		159	141	123	99	61	
VLR 32-10	30	22	3 ~ 400 - 690 V	42		177	157	137	110	68	
VLR 32-11	30	22	3 ~ 400 - 690 V	42		195	173	151	121	75	
VLR 32-12	40	30	3 ~ 400 - 690 V	55		212	188	164	132	82	
VLR 32-13	40	30	3 ~ 400 - 690 V	55		230	204	178	143	88	
VLR 32-14	40	30	3 ~ 400 - 690 V	55		248	220	192	154	95	

Flanges DN50 PN25 DIN 2534/ISO 7005-2. Counterflanges optional

OVERALL DIMENSIONS AND WEIGHTS

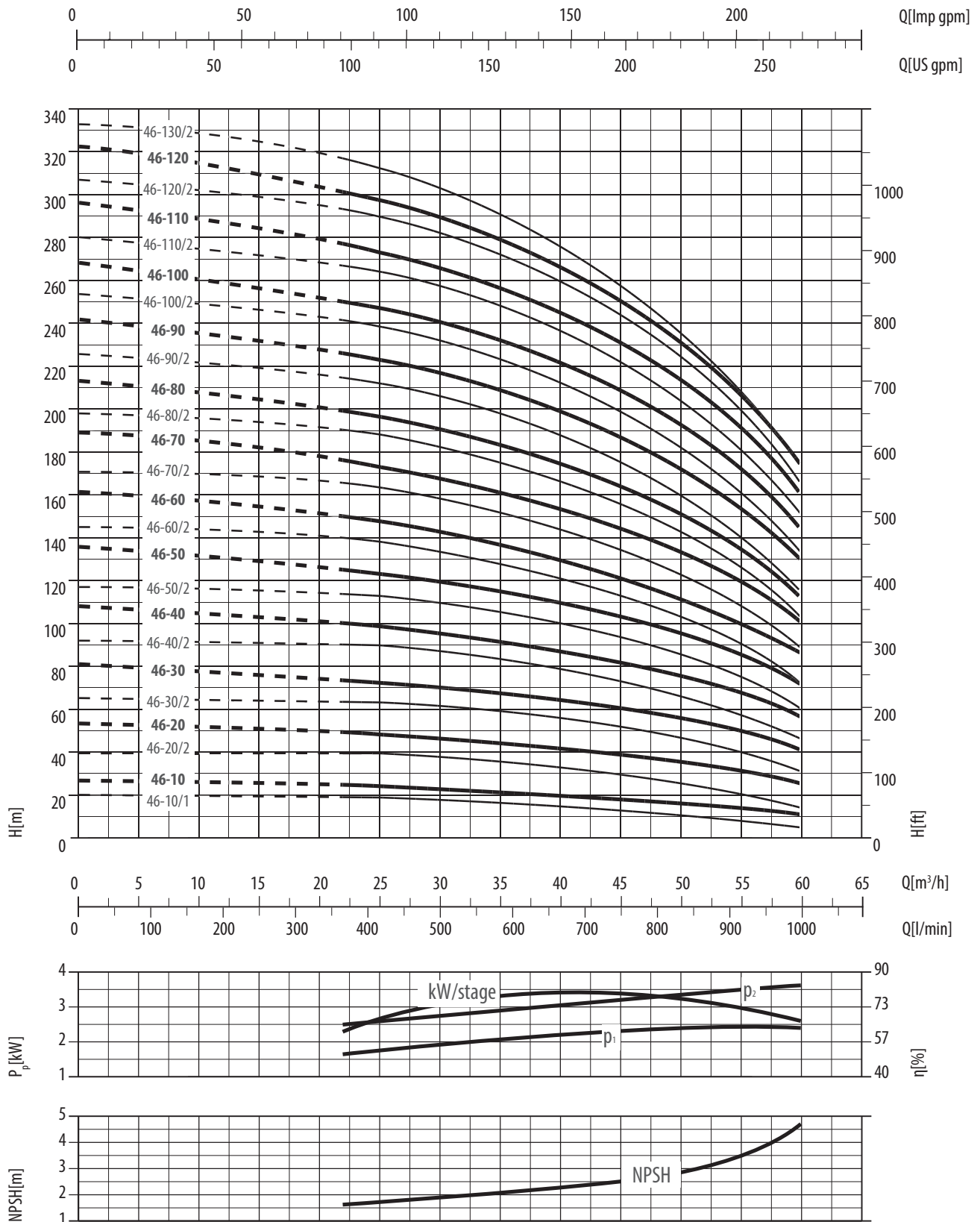
MODEL	Dimensions (mm)				Net weight (kg)
	A	B	L	D	
VLR 32-1	580	850	185	145	78
VLR 32-2	650	950	210	155	93.5
VLR 32-3	770	1160	260	200	114
VLR 32-4	840	1230	260	200	121
VLR 32-5	910	1370	260	215	153
VLR 32-6	980	1440	260	215	157.5
VLR 32-7	1050	1510	260	215	166.5
VLR 32-8	1120	1580	260	215	177.5
VLR 32-9	1190	1650	320	245	200
VLR 32-10	1260	1800	320	245	218
VLR 32-11	1330	1870	320	245	222.5
VLR 32-12	1400	1980	320	245	236
VLR 32-13	1480	2120	360	275	269
VLR 32-14	1550	2190	360	275	280



NOCCHI VLR 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLR 46	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 46

ELECTRIC VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	367	417	500	583	667	750	900	1000
	HP	kW				m³/h	22	25	30	35	40	45	54	60
VLR 46-10/1	4	3	3-230 - 400 V	5	m.c.a. / m.w.c.	19	19	18	17	15	13	9	5	
VLR 46-10	5.5	4	3-230 - 400 V	8.6		24	24	23	21	20	18	14	11	
VLR 46-20/2	7.5	5.5	3-400 - 690 V	10.9		40	39	38	36	33	29	21	14	
VLR 46-20	10	7.5	3-400 - 690 V	14.7		49	48	46	44	42	39	31	25	
VLR 46-30/2	15	11	3-400 - 690 V	21		65	64	62	60	56	52	40	31	
VLR 46-30	15	11	3-400 - 690 V	21		74	73	71	68	65	60	50	41	
VLR 46-40/2	20	15	3-400 - 690 V	29		91	90	87	83	79	73	58	46	
VLR 46-40	20	15	3-400 - 690 V	29		100	98	96	92	87	82	68	56	
VLR 46-50/2	25	18.5	3-400 - 690 V	35		115	113	110	106	100	93	75	60	
VLR 46-50	25	18.5	3-400 - 690 V	35		125	123	120	116	110	103	86	72	
VLR 46-60/2	30	22	3-400 - 690 V	42		139	138	134	129	122	113	92	73	
VLR 46-60	30	22	3-400 - 690 V	42		150	148	144	139	132	124	104	86	
VLR 46-70/2	40	30	3-400 - 690 V	55		165	163	158	152	144	134	110	89	
VLR 46-70	40	30	3-400 - 690 V	55		176	173	168	162	155	145	122	101	
VLR 46-80/2	40	30	3-400 - 690 V	55		190	188	182	176	166	155	127	103	
VLR 46-80	40	30	3-400 - 690 V	55		199	196	191	184	175	164	137	113	
VLR 46-90/2	40	30	3-400 - 690 V	55		215	212	206	198	187	174	143	116	
VLR 46-90	50	37	3-400 - 690 V	65		225	222	217	209	199	187	157	130	
VLR 46-100/2	50	37	3-400 - 690 V	65		241	238	232	223	212	198	164	134	
VLR 46-100	50	37	3-400 - 690 V	65		250	247	241	232	221	208	174	145	
VLR 46-110/2	60	45	3-400 - 690 V	80		267	264	258	249	237	222	184	151	
VLR 46-110	60	45	3-400 - 690 V	80		276	273	266	257	245	230	194	161	
VLR 46-120/2	60	45	3-400 - 690 V	80		293	289	282	272	259	243	202	166	
VLR 46-120	60	45	3-400 - 690 V	80		301	297	290	280	267	250	210	175	
VLR 46-130/2	60	45	3-400 - 690 V	80		316	312	304	292	277	259	214	175	

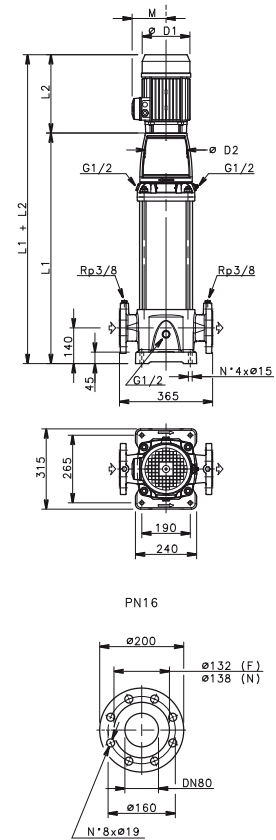
Flanges DN80 PN16 (VLR46-10/1, VLR 46-50); PN25 from VLR 46-60/2 to 46-90; PN 40 from VLR 46-100 TO 46-130/2. Counterflanges optional.

NOCCHI VLR 46

ELECTRIC VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

OVERALL DIMENSIONS AND WEIGHTS

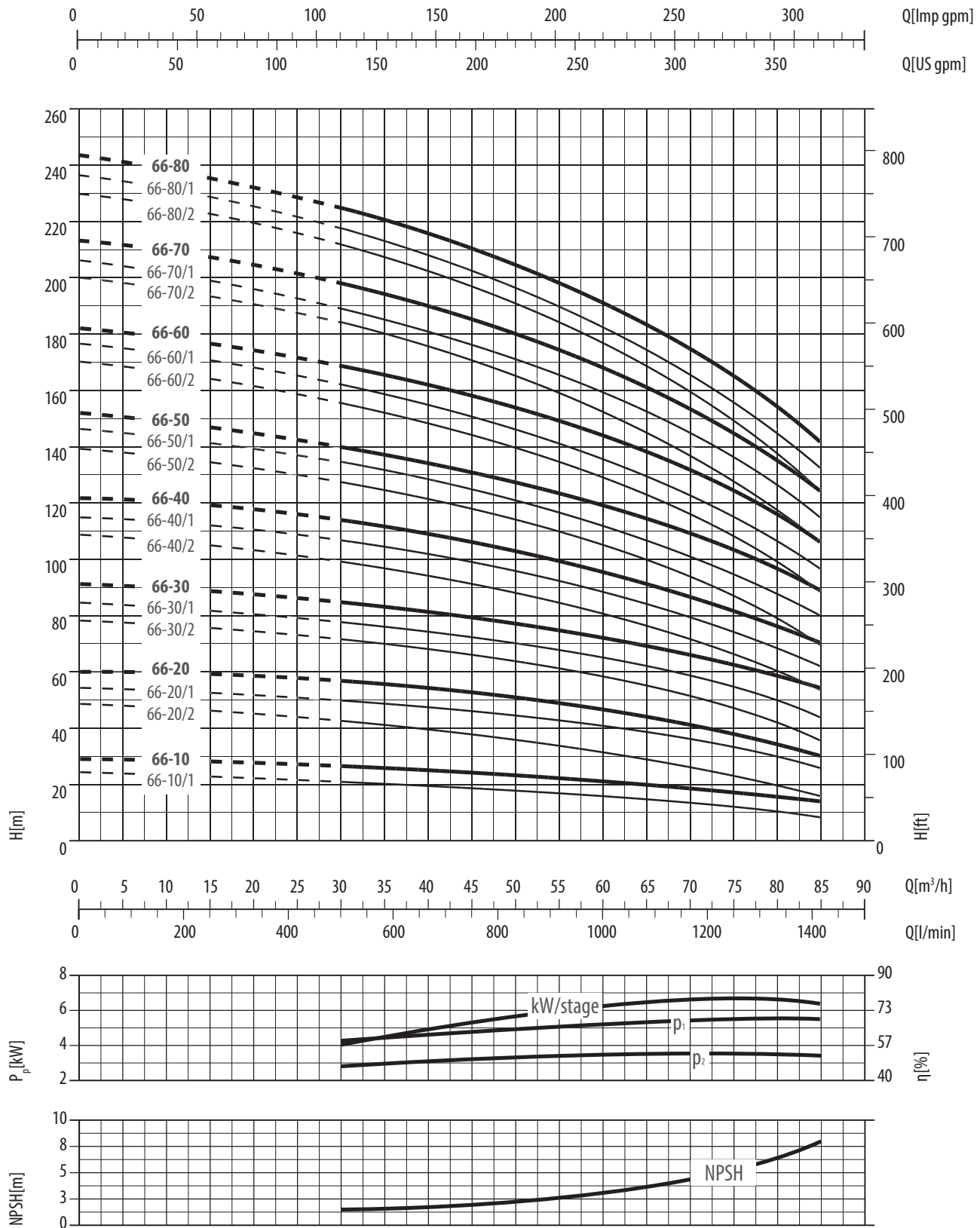
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLR 46-10/1	529	298	174	164	134	79
VLR 46-10	529	319	197	164	154	84.5
VLR 46-20/2	624	375	214	300	168	104
VLR 46-20	624	367	356	300	191	122
VLR 46-30/2	734	428	256	350	191	144
VLR 46-30	734	428	256	350	191	144
VLR 46-40/2	809	494	313	350	240	180
VLR 46-40	809	494	313	350	240	180
VLR 46-50/2	884	494	313	350	240	193
VLR 46-50	884	494	313	350	240	193
VLR 46-60/2	959	494	313	350	240	208
VLR 46-60	959	494	313	350	240	208
VLR 46-70/2	1034	613	354	400	278	230
VLR 46-70	1034	613	354	400	278	230
VLR 46-80/2	1109	613	354	400	278	234
VLR 46-80	1109	613	354	400	278	234
VLR 46-90/2	1184	613	354	400	278	238
VLR 46-90	1184	613	354	400	278	238
VLR 46-100/2	1259	613	354	400	278	248
VLR 46-100	1259	613	354	400	278	257
VLR 46-110/2	1334	710	411	450	298	257
VLR 46-110	1334	710	411	450	298	345
VLR 46-120/2	1409	710	411	450	298	345
VLR 46-120	1409	710	411	450	298	350
VLR 46-130/2	1484	710	411	450	298	354



NOCCHI VLR 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

VLR 66	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	500	600	700	750	900	1000	1200	1300	1417
	HP	kW				m³/h	30	36	42	45	54	60	72	78	85
VLR 66-10/1	5.5	4	3~230 - 400 V	8.6	m.c.a. / m.w.c.		21	21	20	19	18	17	13	11	8
VLR 66-10	7.5	5.5	3~400 - 690 V	10.9			26	25	24	23	22	21	18	16	14
VLR 66-20/2	10	7.5	3~400 - 690 V	14.7			43	41	40	39	36	33	26	22	16
VLR 66-20/1	15	11	3~400 - 690 V	21			50	48	47	46	43	41	35	31	26
VLR 66-20	15	11	3~400 - 690 V	21			56	54	53	52	49	47	42	39	35
VLR 66-30/2	20	15	3~400 - 690 V	29			72	70	67	66	62	58	49	43	35
VLR 66-30/1	20	15	3~400 - 690 V	29			78	76	74	72	68	65	56	51	44
VLR 66-30	25	18.5	3~400 - 690 V	35			85	83	81	79	75	72	64	60	54
VLR 66-40/2	25	18.5	3~400 - 690 V	35			100	97	94	92	86	82	70	63	53
VLR 66-40/1	30	22	3~400 - 690 V	42			106	103	100	99	93	89	78	71	62
VLR 66-40	30	22	3~400 - 690 V	42			113	110	107	105	100	96	86	79	71
VLR 66-50/2	40	30	3~400 - 690 V	55			128	124	120	118	111	106	92	83	70
VLR 66-50/1	40	30	3~400 - 690 V	55			134	131	127	125	118	112	99	91	80
VLR 66-50	40	30	3~400 - 690 V	55			140	137	133	131	125	119	107	99	89
VLR 66-60/2	40	30	3~400 - 690 V	55			156	152	147	144	136	129	113	103	88
VLR 66-60/1	40	30	3~400 - 690 V	55			162	158	153	151	143	136	121	111	97
VLR 66-60	50	37	3~400 - 690 V	65			169	164	160	158	150	143	128	119	106
VLR 66-70/2	50	37	3~400 - 690 V	65			184	179	174	171	161	153	134	122	106
VLR 66-70/1	50	37	3~400 - 690 V	65			190	185	180	177	168	160	142	131	115
VLR 66-70	60	45	3~400 - 690 V	80			197	192	187	184	174	167	150	139	124
VLR 66-80/2	60	45	3~400 - 690 V	80			212	206	200	197	186	177	156	142	124
VLR 66-80/1	60	45	3~400 - 690 V	80			218	213	207	204	193	184	163	150	133
VLR 66-80	60	45	3~400 - 690 V	80			225	219	213	210	199	191	171	159	142

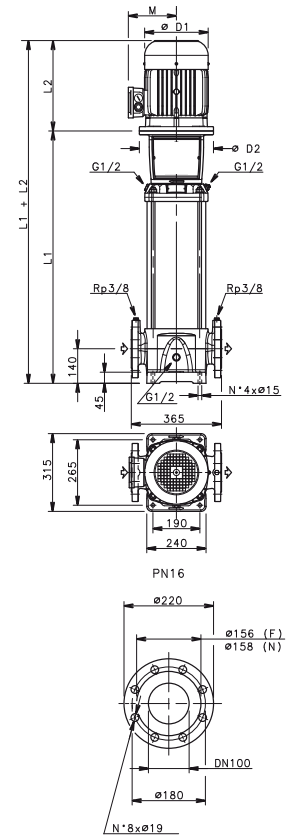
Flanges DN 100 PN 16 from VLR 66-10/1 to 66-80. PN 25 from VLR 66-60 to 66-80. Counterflanges optional.

NOCCHI VLR 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

OVERALL DIMENSIONS AND WEIGHTS

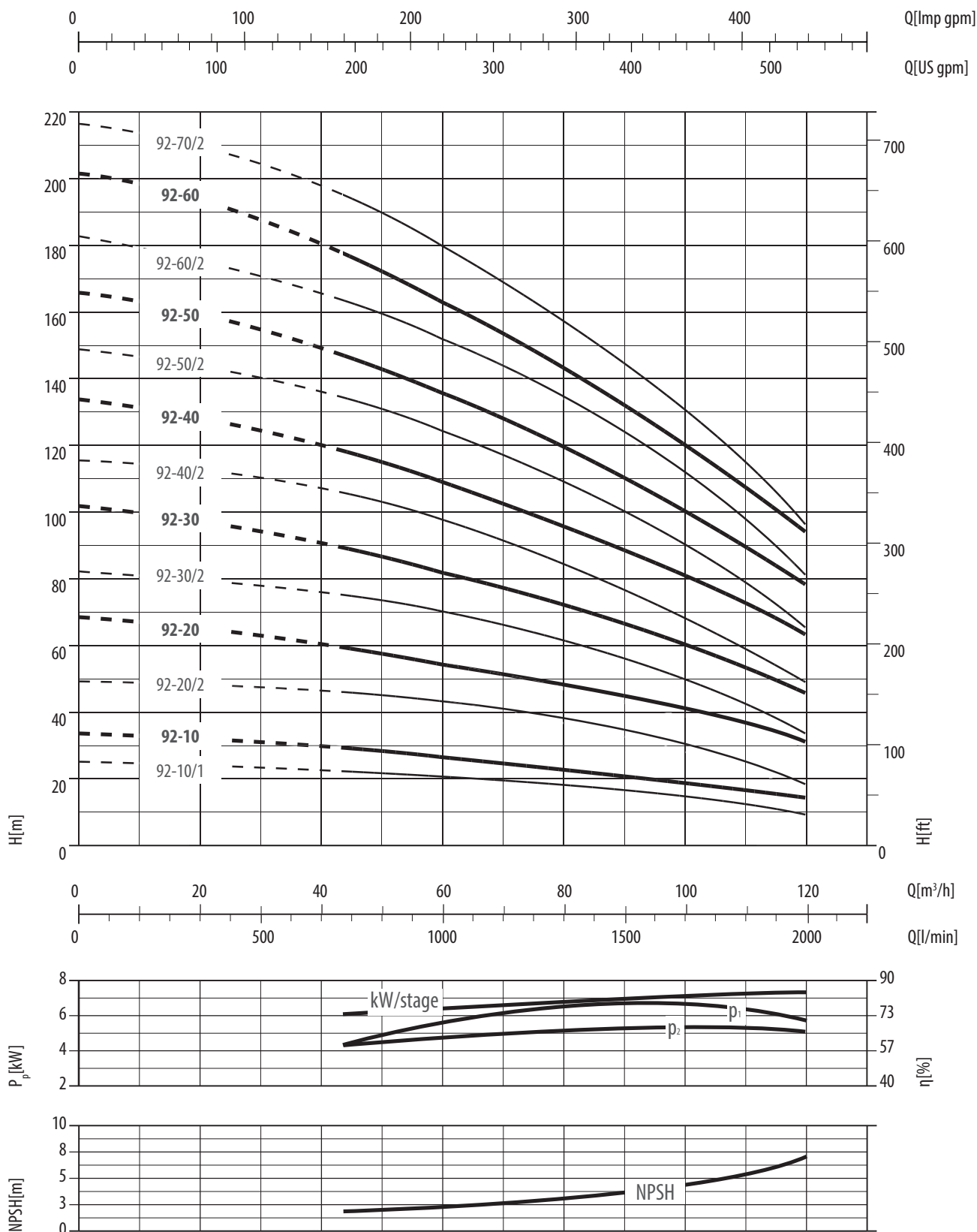
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLR 66-10/1	554	319	197	164	154	92.5
VLR 66-10	574	375	214	300	168	110
VLR 66-20/2	664	367	256	300	191	133
VLR 66-20/1	699	428	256	300	191	151
VLR 66-20	699	428	256	350	191	151
VLR 66-30/2	789	494	313	350	240	188
VLR 66-30/1	789	494	313	350	240	188
VLR 66-30	789	494	313	350	240	197
VLR 66-40/2	879	494	313	350	240	203
VLR 66-40/1	879	494	313	350	240	214
VLR 66-40	879	494	313	350	240	214
VLR 66-50/2	969	613	354	400	278	237
VLR 66-50/1	969	613	354	400	278	237
VLR 66-50	969	613	354	400	278	245
VLR 66-60/2	1059	613	354	400	278	245
VLR 66-60/1	1059	613	354	400	278	255
VLR 66-60	1059	613	354	400	278	255
VLR 66-70/2	1149	613	354	400	278	261
VLR 66-70/1	1149	613	354	400	278	261
VLR 66-70	1149	710	411	450	298	341
VLR 66-80/2	1239	710	411	450	298	346
VLR 66-80/1	1239	710	411	450	298	346
VLR 66-80	1239	710	411	450	298	346



NOCCHI VLR 92

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLR 92	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLR 92

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS

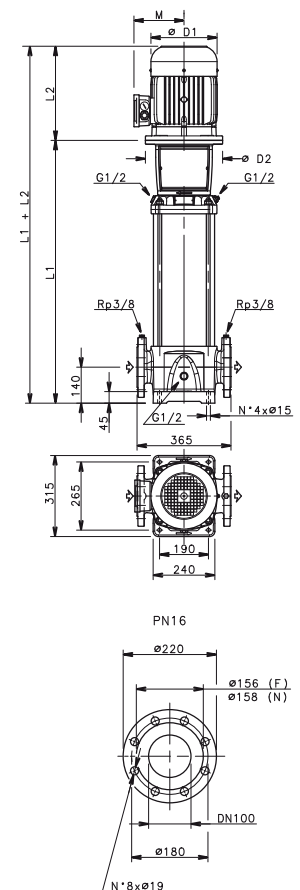
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	750	900	1000	1200	1300	1417	1600	1800	2000
	HP	kW				m³/h	45	54	60	72	78	85	96	108	120
VLR 92-10/1	7.5	5.5	3-400 - 690 V	10.9	m.c.a./m.w.c.	22	22	21	19	19	17	15	12	8	
VLR 92-10	10	7.5	3-400 - 690 V	14.7		29	27	26	24	23	22	20	18	14	
VLR 92-20/2	15	11	3-400 - 690 V	21		45	44	43	40	38	36	31	25	17	
VLR 92-20	20	15	3-400 - 690 V	29		58	55	53	50	48	45	41	36	30	
VLR 92-30/2	25	18.5	3-400 - 690 V	35		74	72	70	65	62	59	52	44	33	
VLR 92-30	30	22	3-400 - 690 V	42		88	84	81	76	73	69	63	56	46	
VLR 92-40/2	40	30	3-400 - 690 V	55		104	100	97	90	87	82	74	63	49	
VLR 92-40	40	30	3-400 - 690 V	55		117	112	108	101	97	92	85	75	63	
VLR 92-50/2	50	37	3-400 - 690 V	65		122	128	124	116	111	105	95	81	65	
VLR 92-50	50	37	3-400 - 690 V	65		146	140	135	126	121	115	106	94	78	
VLR 92-60/2	60	45	3-400 - 690 V	80		163	156	152	141	135	129	117	101	81	
VLR 92-60	60	45	3-400 - 690 V	80		176	168	163	151	146	139	127	113	94	
VLR 92-70/2	60	45	3-400 - 690 V	80		192	184	179	167	160	152	138	120	97	

Flanges DN 100 PN 16 from VLR 92-10/1 to 92-40. PN25 from VLR 92-50/2 to 92-70/2. Counterflanges optional.

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLR 92-10/1	574	375	214	300	168	109
VLR 92-10	574	367	256	300	191	127
VLR 92-20/2	699	428	256	350	191	150
VLR 92-20	699	494	313	350	240	182
VLR 92-30/2	789	494	313	350	240	197
VLR 92-30	789	494	313	350	240	208
VLR 92-40/2	879	613	354	400	278	232
VLR 92-40	879	613	354	400	278	232
VLR 92-50/2	969	613	354	400	278	250
VLR 92-50	969	613	354	400	278	250
VLR 92-60/2	1059	710	411	450	298	335
VLR 92-60	1059	710	411	450	298	335
VLR 92-70/2	1149	710	411	450	298	340



NOCCHI VLRI/X

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HIGH HYDRAULIC EFFICIENCY, ENTIRELY IN AISI 304 STAINLESS STEEL (VLRI) OR AISI 316 (VLRX), STANDARDIZED MOTOR

The VLRI/X series offers vertical multi-stage centrifugal pumps with in-line suction and delivery ports. Directly coupled with an electric motor. Completely in AISI 304 STAINLESS STEEL / 316 for sea water and special applications. Non self-priming.

APPLICATIONS

- Water supply
- Pressure increase system
- Irrigation
- High pressure washing
- Fire fighting systems
- Boiler supply
- Liquid transfer

MOTOR

- Electric asynchronous motor with closed casing and external ventilation. The main dimensions are in line with the provisions envisaged by the standards DIN and IEC.
- Construction design: Up to 4.0 Kw V18.
- From 5.5 Kw V1.
- Insulation class F.
- Protection rating IP 55.
- Maximum ambient temperature: 40° C.
- Rotation speed 2900 rpm.
- Oversized bearings for optimal load support.



IDENTIFICATION SYMBOL

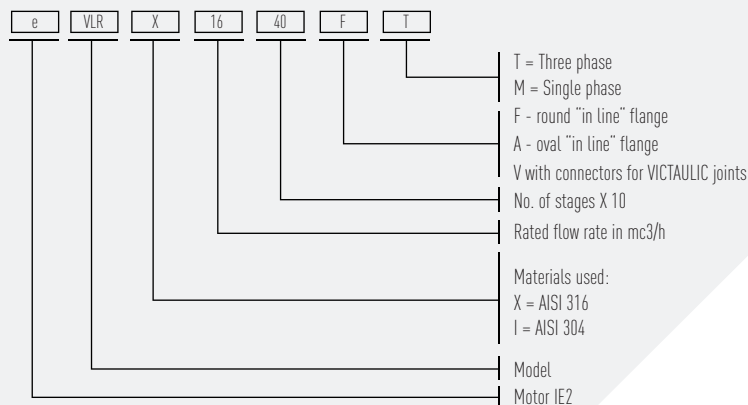
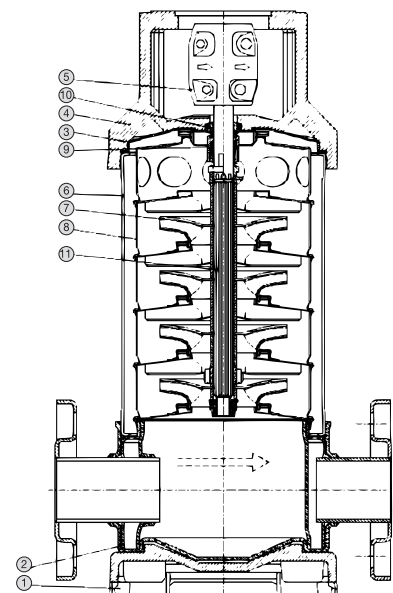


TABLE OF MATERIALS

COMPONENT		VLRI 2B - 4 - 8 - 16	VLRX 2B - 4 - 8 - 16	VLRX 33 - 46 - 66 - 92
1	Support base	Cast iron EN GJL 200		N/A
2	Pump body	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel GX5CrNiMo19-11-2 (AISI 316 cast)
3	Gasket case	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel GX5CrNiMo19-11-2 (AISI 316 cast)
4	Motor housing	Cast iron EN GJL 200		
5	Motor coupling	Cast iron EN GJS 400		Cast iron EN GJL 200
6	Casing	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X2CrNiMo17-12-2 (AISI 316L)
7	Impeller	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X2CrNiMo17-12-2 (AISI 316L)
8	Diffuser	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X2CrNiMo17-12-2 (AISI 316L)
9	Rotary gasket	Silicon carbide		
10	Fixed gasket	Carbon		
11	Shaft	Stainless steel X2CrNiMo17-12-3 (AISI 316)		Stainless steel X2CrNiMo22-5-3 (UNS S 31803)
12	Seals	EPDM		



NOCCHI VLRI/X

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

APPLICATION DATA

	VLRI / X 2B	VLRI / X 4	VLRI / X 8	VLRI / X 16
Liquid temperature	from -15 to +120° C	from -15 to +120° C	from -15 to +120° C	from -15 to +120° C
Max. operating pressure (including suction head)	25 bar (max temp 40° C) 21 bar (max temp 120° C)	25 bar (max temp 40° C) 21 bar (max temp 120° C)	25 bar (max temp 40° C) 23 bar (max temp 120° C)	VLRI/X 16/30-2 - VLRI/X 16/160 25 bar (max temp 85° C) VLRI/X 16/30-2 - VLRI/X 16/160 23 bar (max temp 120° C)
Minimum suction head	NPSH plus safety margin of 0.5 m			

APPLICATION DATA

	VLRX 33	VLRX 46	VLRX 66	VLRX 92
Liquid temperature	from -20 to +120° C	from -30 to +120° C	from -30 to +120° C	from -30 to +120° C
Max. operating pressure (including suction head)	16 bar up to VLRX 33-60/2 25 bar up to VLRX 33-130/1	16 bar up to VLRX 46-50 25 bar up to VLRX 46-90 40 bar up to VLRX 46-130/2	16 bar up to VLRX 66-50 25 bar up to VLRX 66-80	16 bar up to VLRX 92-40 25 bar up to VLRX 92-70/2
Minimum suction head	NPSH plus safety margin of 0.5 m			

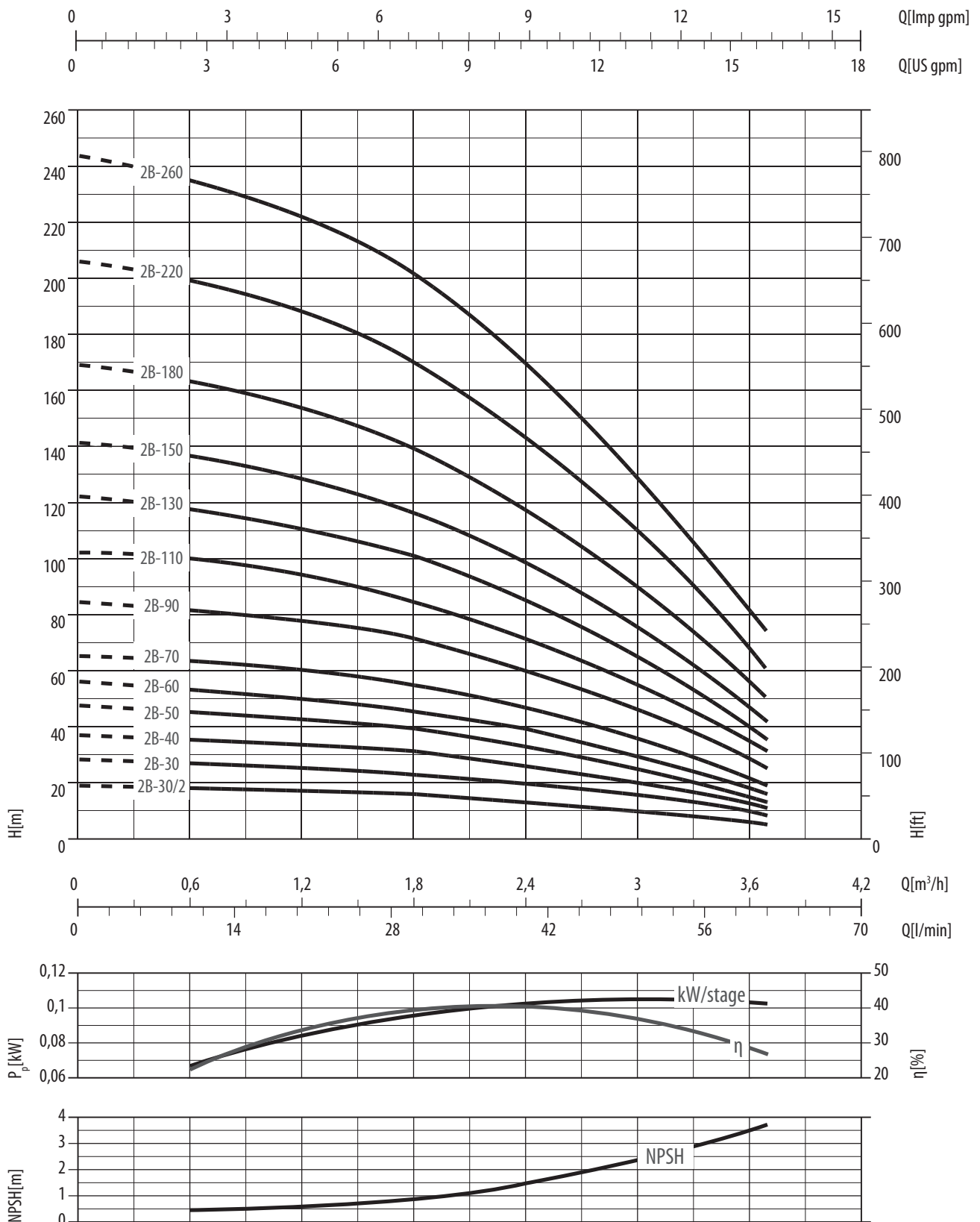
VERSIONS AVAILABLE

VERSIONS		F - in line ports with ROUND FLANGES (counterflanges optional)	A - in line ports with OVAL FLANGES complete with threaded counterflange	V - in line ports with connectors for VICTAULIC joints
2B	VLRI	X	X	
	VLRX	X	X	X
4	VLRI	X	X	
	VLRX	X	X	X
8	VLRI	X		
	VLRX	X		X
16	VLRI	X		
	VLRX	X		
33	VLRX	X		
46	VLRX	X		
66	VLRX	X		
92	VLRX	X		

NOCCHI VLRI/X 2B

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRI/X 2B	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 2B

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

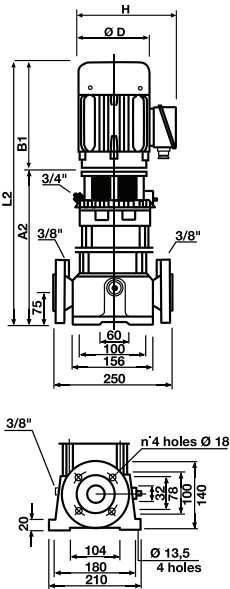
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	µF.	Q	L/min	10	20	30	40	50
	HP	kW					m³/h	0.6	1.2	1.8	2.4	3
VLRI/X 2B- 30/2 F M VLRI/X 2B- 30/2 F T	0.5	0.37	1~230 V 3~230 - 400 V	2.8 1.7-1.0	12.5	m.c.a./m.w.c.		18	17	16	13	10
VLRI/X 2B- 30 F M VLRI/X 2B- 30 F T	0.5	0.37	1~230 V 3~230 - 400 V	2.8 1.7-1.0	12.5			27	26	23	20	15
VLRI/X 2B- 40 F M VLRI/X 2B- 40 F T	0.75	0.55	1~230 V 3~230 - 400 V	4.2 2.6-1.5	16			36	34	31	26	20
VLRI/X 2B- 50 F M VLRI/X 2B- 50 F T	0.75	0.55	1~230 V 3~230 - 400 V	4.2 2.6-1.5	16			45	43	39	33	25
VLRI/X 2B- 60 F M VLRI/X 2B- 60 F T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-2	25			54	51	46	39	30
VLRI/X 2B- 70 F M VLRI/X 2B- 70 F T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-2	25			64	60	54	46	35
VLRI/X 2B- 90 F M VLRI/X 2B- 90 F T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			82	77	70	59	45
VLRI/X 2B-110 F M VLRI/X 2B-110 F T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			100	94	85	72	55
VLRI/X 2B-130 F M VLRI/X 2B-130 F T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			118	111	101	85	65
VLRI/X 2B-150 F M VLRI/X 2B-150 F T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			136	128	116	99	75
VLRI/X 2B-180 F T	3	2.2	3~230 - 400 V	8.5-4.9				163	154	139	118	90
VLRI/X 2B-220 F T	3	2.2	3~230 - 400 V	8.5-4.9				199	188	170	144	110
VLRI/X 2B-260 F T	4	3	3~230 - 400 V	11.6-6.7				235	222	201	170	130

- F : in-line ports with round flanges 1" 1/4 (DN32). Optional counterflanges 1/4 GAS .
- A : (optional from VLRI/X 2B-150) with oval flanges 1" 1/4 (DN32). Optional counterflanges 1/4 GAS .
- V : (optional only for VLRX): in line ports 1" 1/4 with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

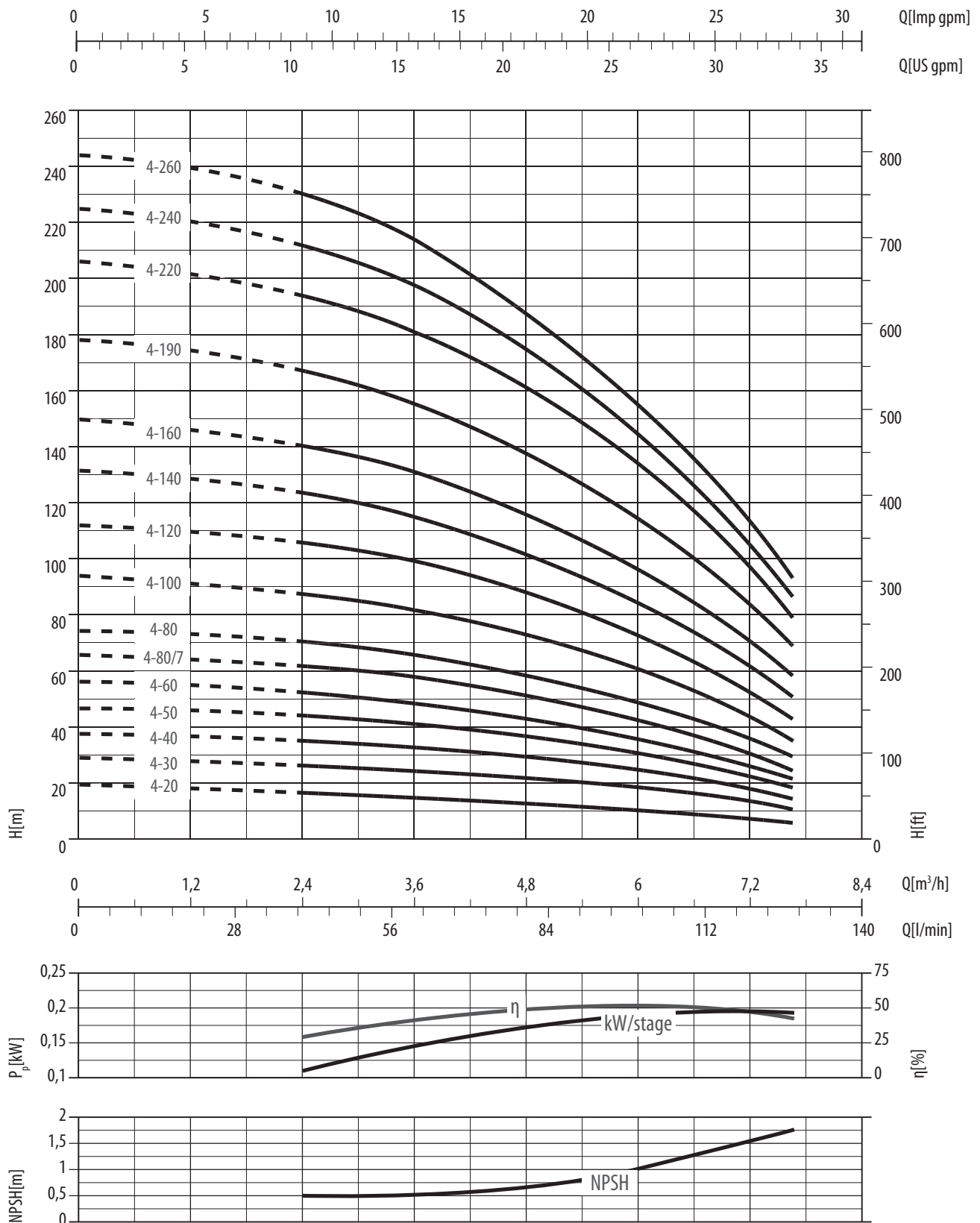
MODEL	Dimensions (mm)					Net weight (kg)
	A	B	L	D	H	
VLRI/X 2B - 30/2 F	250	215	465	158	168	26
VLRI/X 2B - 30 F	250	215	465	158	168	27
VLRI/X 2B - 40 F	268	215	483	158	168	29
VLRI/X 2B - 50 F	268	215	501	158	168	31
VLRI/X 2B - 60 F	308	245	553	170	203	32
VLRI/X 2B - 70 F	326	245	571	170	203	39
VLRI/X 2B - 90 F	362	245	607	170	203	39
VLRI/X 2B - 110 F	388	245	633	170	203	42
VLRI/X 2B - 130 F	453	255	708	180	205	43
VLRI/X 2B - 150 F	489	255	744	180	205	49
VLRI/X 2B - 180 F	568	280	848	180	205	49
VLRI/X 2B - 220 F	640	280	920	180	205	61
VLRI/X 2B - 260	716	300	1016	196	235	63



NOCCHI VLRI/X 4

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

VLRI/X 4	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 4

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

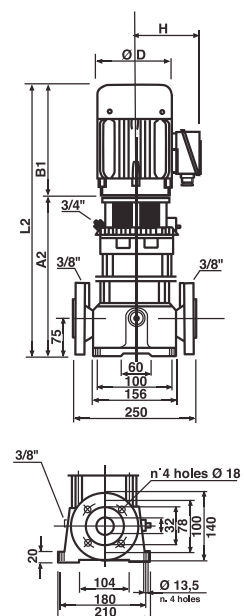
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	40	60	80	100	120
	HP	kW					m³/h	2.4	3.6	4.8	6	7.2
VLRI/X 4- 20 F M VLRI/X 4- 20 F T	0.5	0.37	1-230 V 3-230 - 400 V	2.8 1.7-1.0	12.5	m.c.a./m.w.c.	18	16	15	12	9	
VLRI/X 4- 30 F M VLRI/X 4- 30 F T	0.75	0.55	1-230 V 3-230 - 400 V	4.2 2.6-1.5	16		27	25	22	18	13	
VLRI/X 4- 40 F M VLRI/X 4- 40 F T	1	0.75	1-230 V 3-230 - 400 V	5 3.5-2	25		35	33	29	24	18	
VLRI/X 4- 50 F M VLRI/X 4- 50 F T	1.5	1.1	1-230 V 3-230 - 400 V	7.9 4.5-2.6	31.5		44	41	36	30	22	
VLRI/X 4- 60 F M VLRI/X 4- 60 F T	1.5	1.1	1-230 V 3-230 - 400 V	7.9 4.5-2.6	31.5		53	49	44	36	27	
VLRI/X 4- 80/7 F M VLRI/X 4- 80/7 F T	2	1.5	1-230 V 3-230 - 400 V	10.5 6.1-3.5	36		62	58	51	43	31	
VLRI/X 4- 80 F M VLRI/X 4- 80 F T	2	1.5	1-230 V 3-230 - 400 V	10.5 6.1-3.5	36		71	66	58	49	35	
VLRI/X 4-100 F T	3	2.2	3-230 - 400 V	8.5-4.9			89	82	73	61	44	
VLRI/X 4-120 F T	3	2.2	3-230 - 400 V	8.5-4.9			106	99	87	73	53	
VLRI/X 4-140 F T	4	3	3-230 - 400 V	11.6-6.7			124	115	102	85	62	
VLRI/X 4-160 F T	4	3	3-230 - 400 V	11.6-6.7			142	131	117	97	71	
VLRI/X 4-190 F T	5.5	4	3-230 - 400 V	14.3-8.3			168	156	138	115	84	
VLRI/X 4-220 F T	5.5	4	3-230 - 400 V	14.3-8.3			195	181	160	134	97	
VLRI/X 4-240 F T	7.5	5.5	3-400 - 690 V	11.3-8.5			213	197	175	146	106	
VLRI/X 4-260 F T	7.5	5.5	3-400 - 690 V	11.3-8.5			230	214	189	158	115	

- F : in-line ports with round flanges 1" 1/4 (DN32). Optional counterflanges " 1/4 GAS .
- A : (optional from VLRI/X 4-160) with oval flanges 1" 1/4 (DN32). Optional counterflanges " 1/4 GAS .
- V : (optional only for VLRI/X): in line ports 1" 1/4 with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

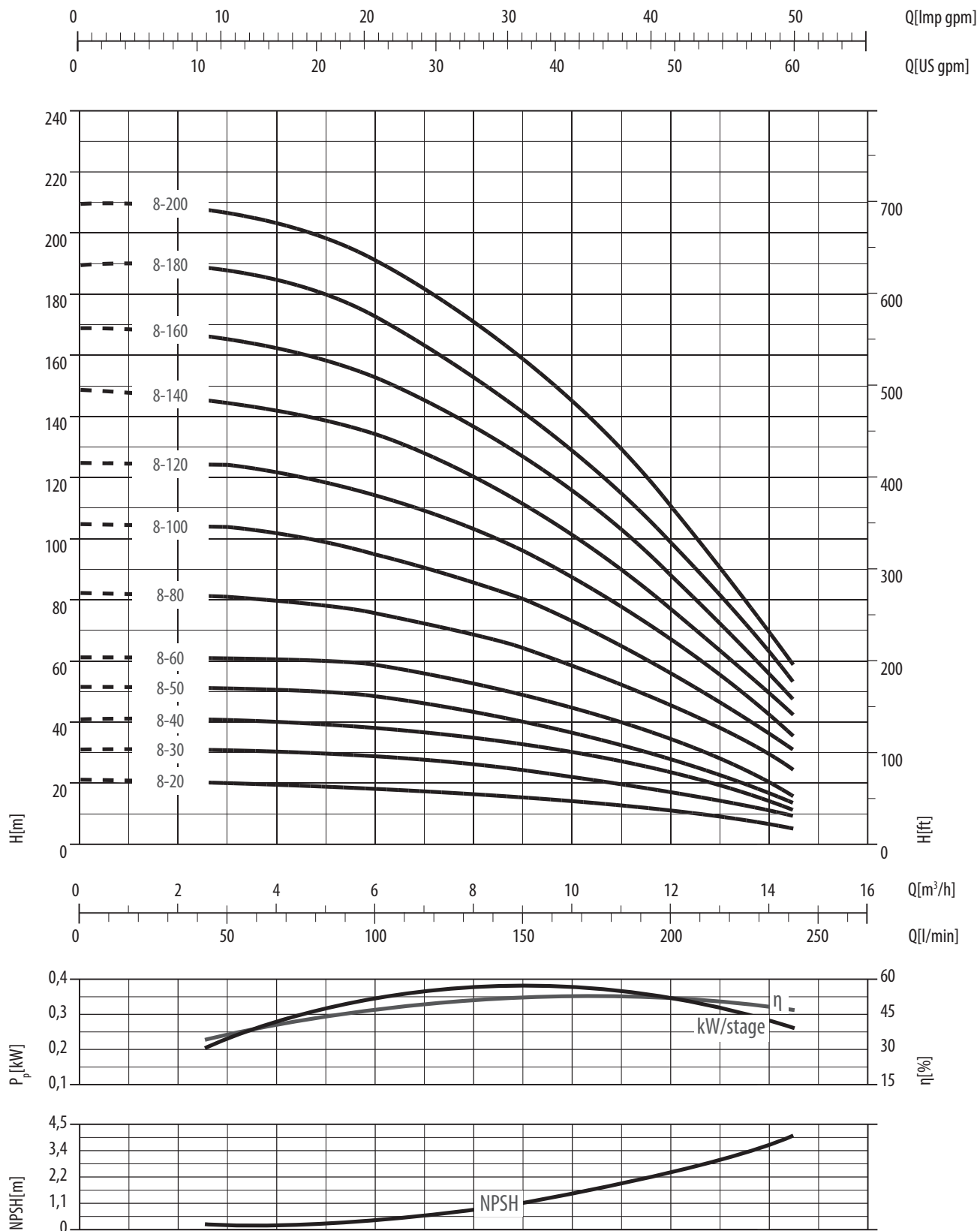
MODEL	Dimensions (mm)					Net weight (kg)
	A	B	L	D	H	
VLRI/X 4 - 20 F	250	215	465	158	168	26
VLRI/X 4 - 30 F	277	215	492	158	168	27
VLRI/X 4 - 40 F	308	245	553	170	203	29
VLRI/X 4 - 50 F	335	245	580	170	203	31
VLRI/X 4 - 60 F	362	245	607	170	203	32
VLRI/X 4 - 80/7 F	435	255	690	180	205	39
VLRI/X 4 - 80 F	435	255	690	180	205	39
VLRI/X 4 - 100 F	489	280	769	180	205	42
VLRI/X 4 - 120 F	543	280	823	180	205	43
VLRI/X 4 - 140 F	601	300	901	196	235	49
VLRI/X 4 - 160 F	655	300	955	196	235	49
VLRI/X 4 - 190 F	761	325	1086	218	256	61
VLRI/X 4 - 220 F	842	325	1167	218	256	63
VLRI/X 4 - 240 F	923	390	1313	350	350	87
VLRI/X 4 - 260 F	977	390	1367	350	350	89



NOCCHI VLRI/X 8

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

VLRI/X 8	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 8

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

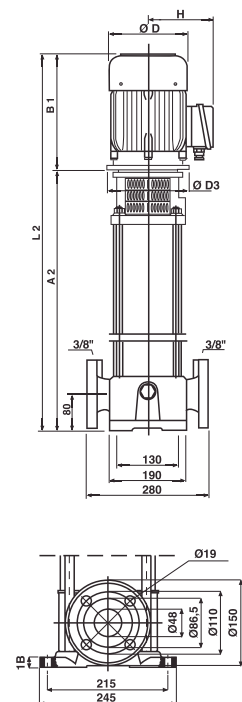
MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	50	100	150	175	200
	HP	kW					m³/h	3	6	9	10.5	12
VLRI/X 8 - 20 F M VLRI/X 8 - 20 F T	1	0.75	1-230 V 3-230 - 400 V	5 3.5-1.9	25	m.c.a./m.w.c.	21	19	16	14	11	
VLRI/X 8 - 30 F M VLRI/X 8 - 30 F T	1.5	1.1	1-230 V 3-230 - 400 V	7.9 4.5-2.6	31.5		31	29	24	21	16	
VLRI/X 8 - 40 F M VLRI/X 8 - 40 F T	2	1.5	1-230 V 3-230 - 400 V	10.5 6.1-3.5	36		41	38	32	27	22	
VLRI/X 8 - 50 F T	3	2.2	3-230 - 400 V	8.5-4.9			52	48	40	34	27	
VLRI/X 8 - 60 F T	3	2.2	3-230 - 400 V	8.5-4.9			62	58	48	41	33	
VLRI/X 8 - 80 F T	4	3	3-230 - 400 V	11.6-6.7			82	77	64	55	44	
VLRI/X 8 - 100 F T	5.5	4	3-230 - 400 V	14.3-8.3			103	96	80	69	55	
VLRI/X 8 - 120 F T	5.5	4	3-230 - 400 V	14.3-8.3			124	115	96	82	65	
VLRI/X 8 - 140 F T	7.5	5.5	3-400 - 690 V	11.3-8.5			144	134	112	96	76	
VLRI/X 8 - 160 F T	7.5	5.5	3-400 - 690 V	11.3-8.5			165	154	128	110	87	
VLRI/X 8 - 180 F T	10	7.5	3-400 - 690 V	14.3-8.3			185	173	144	123	98	
VLRI/X 8 - 200 F T	10	7.5	3-400 - 690 V	14.3-8.3			206	192	160	137	109	

- F : in-line ports with round flanges 1" 1/4 (DN40). Optional counterflanges 1/2 GAS .

- V : (optional only for VLRX): in line ports 2" with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

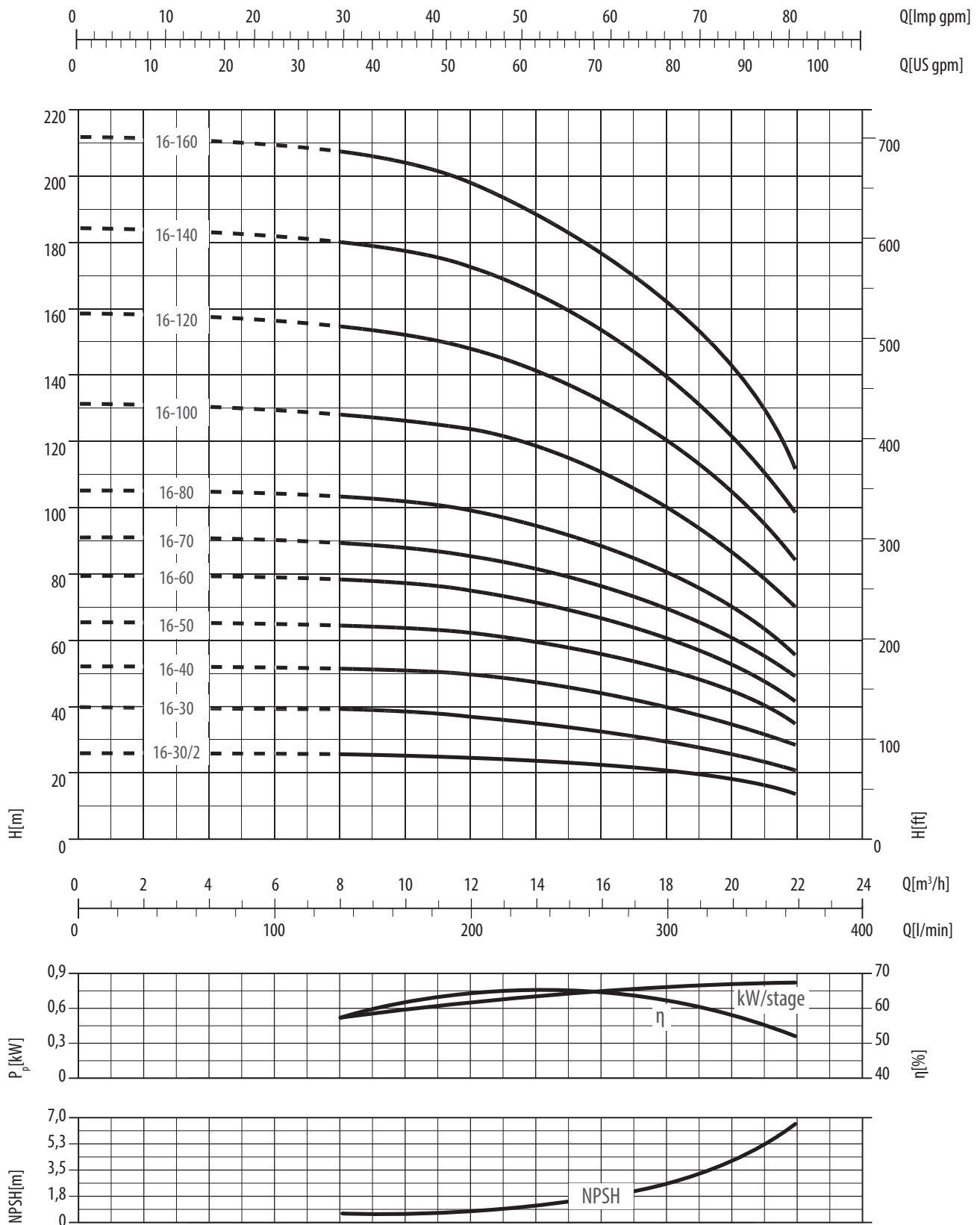
MODEL	Dimensions (mm)						Net weight (kg)
	A	B	L	D	H	D ₃	
VLRI/X 8 - 20 F	245	237	422	160	131	-	33
VLRI/X 8 - 30 F	375	237	612	160	131	-	35
VLRI/X 8 - 40 F	420	265	685	185	130	-	43
VLRI/X 8 - 50 F T	450	265	715	185	130	-	45
VLRI/X 8 - 60 F T	480	265	745	185	130	-	46
VLRI/X 8 - 80 F T	545	315	860	200	140	-	54
VLRI/X 8 - 100 F T	605	335	940	200	140	-	55
VLRI/X 8 - 120 F T	665	335	1000	200	140	-	59
VLRI/X 8 - 140 F T	745	385	1130	260	185	300	80
VLRI/X 8 - 160 F	805	385	1190	260	185	300	81
VLRI/X 8 - 180 F T	865	385	1250	260	185	300	85
VLRI/X 8 - 200 F T	925	385	1310	260	185	300	86



NOCCHI VLRI/X 16

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



VLRI/X 16	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 16

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

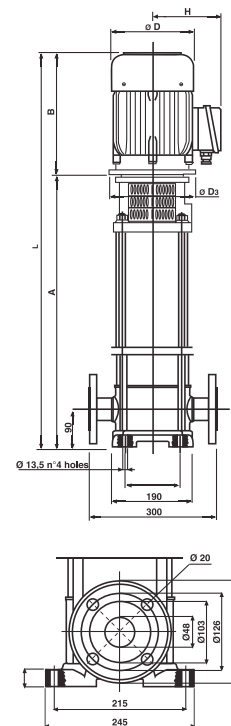
MODEL	Motor output		Volt	In (A)	Q	L/min	100	200	250	300	350
	HP	kW				m³/h	6	12	15	18	21
VLRI/X 16 - 30/2F T	3	2.2	3-230 - 400 V	8.5-4.9	m.c.a. / m.w.c.	26	25	23	20	16	
VLRI/X 16 - 30 F T	4	3	3-230 - 400 V	11.6-6.7		39	37	34	30	24	
VLRI/X 16 - 40 F T	5.5	4	3-230 - 400 V	14.3-8.3		52	49	46	40	32	
VLRI/X 16 - 50 F T	7.5	5.5	3-400 - 690 V	11.3-8.5		65	62	57	51	40	
VLRI/X 16 - 60 F T	7.5	5.5	3-400 - 690 V	11.3-8.5		78	74	69	61	47	
VLRI/X 16 - 70 F T	10	7.5	3-400 - 690 V	14.3-8.3		91	86	80	71	55	
VLRI/X 16 - 80 F T	10	7.5	3-400 - 690 V	14.3-8.3		104	98	92	81	63	
VLRI/X 16 - 100 F T	15	11	3-400 - 690 V	21-12.1		130	123	115	101	79	
VLRI/X 16 - 120 F T	15	11	3-400 - 690 V	21-12.1		156	148	137	121	95	
VLRI/X 16 - 140 F T	20	15	3-400 - 690 V	28-12.6		182	172	160	142	111	
VLRI/X 16 - 160 F T	20	15	3-400 - 690 V	28-12.6		208	197	183	162	126	

- F : in-line ports with round flanges 2" (DN50). Optional counterflanges 2" GAS .

- V : (optional only for VLRX): in line ports 2" with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

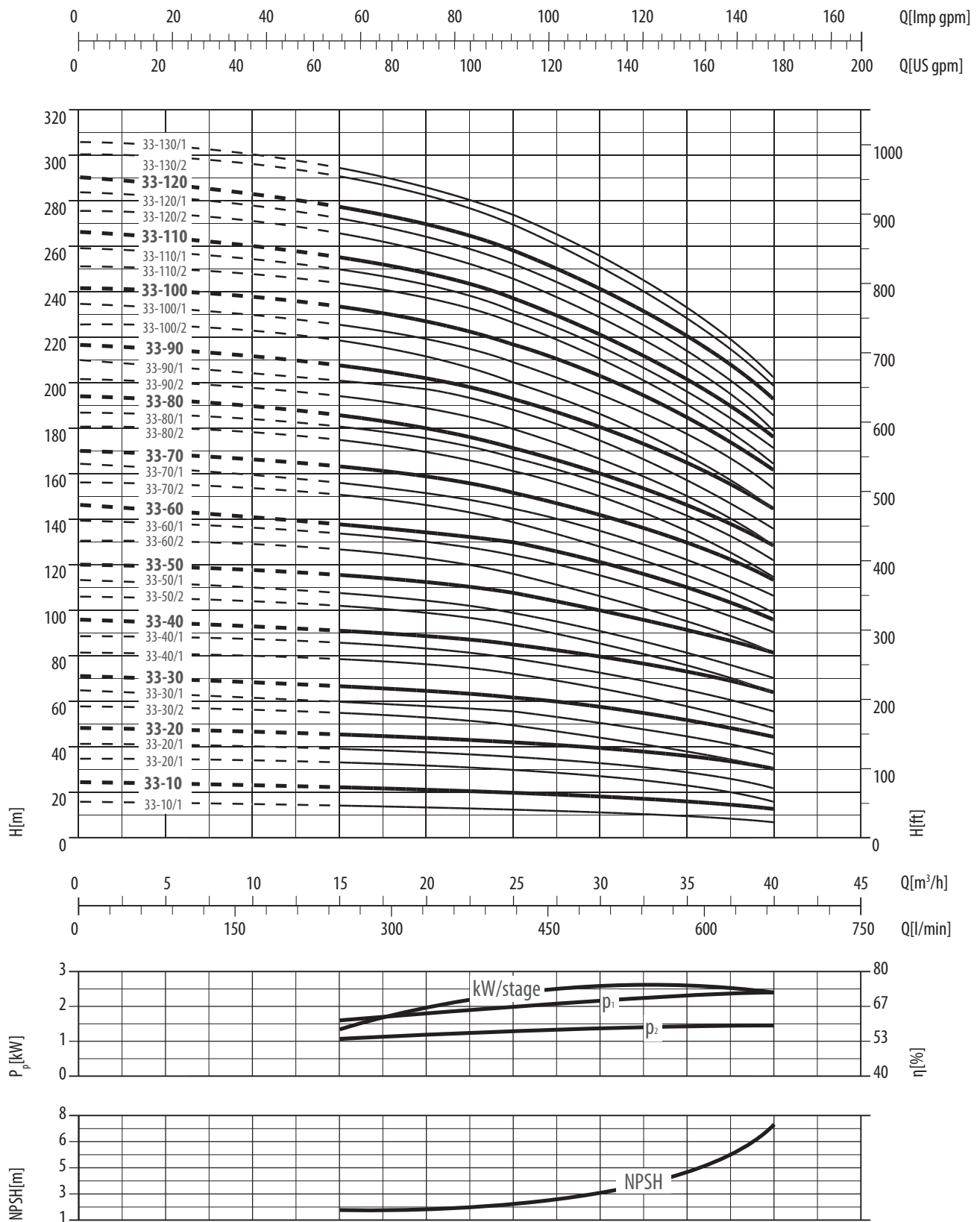
MODEL	Dimensions (mm)						Net weight (kg)
	A	B	L	D	H	D ₃	
VLRI/X 16 - 20 F T	460	265	725	185	130	140	52
VLRI/X 16 - 30 F T	464	315	779	200	140	250	56
VLRI/X 16 - 40 F T	509	335	844	200	140	250	59
VLRI/X 16 - 50 F T	575	385	960	260	185	300	82
VLRI/X 16 - 60 F T	620	385	1005	260	185	300	84
VLRI/X 16 - 70 F T	665	385	1050	260	185	300	90
VLRI/X 16 - 80 F T	710	385	1095	260	185	300	92
VLRI/X 16 - 100 F T	830	495	1325	260	185	350	136
VLRI/X 16 - 120 F T	920	495	1425	260	185	350	140
VLRI/X 16 - 140 F T	1010	495	1505	310	230	350	181
VLRI/X 16 - 160 F T	1100	495	1595	310	230	350	185



NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH valid for water with $\rho=1.0 \text{ kg/dm}^3$ at 20° C of condensity

VLRX 33	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	0	300	417	500	667
	HP	kW				m³/h	0	18	25	30	40
VLRX 33-10/1 T	3	2.2	3 ~ 230-400 V	7.6-4.4	m.c.a./m.w.c.	17	16	14	12	7	
VLRX 33-10 T	4	3	3 ~ 230-400 V	10.2-5.9		24	21	20	18	13	
VLRX 33-20/2 F T	5.5	4	3 ~ 230-400 V	13.5-7.8		35	33	30	27	17	
VLRX 33-20/1 F T	5.5	4	3 ~ 230-400 V	13.5-7.8		41	38	35	32	22	
VLRX 33-20 F T	7.5	5.5	3 ~ 400-690 V	10.2-5.9		48	44	41	39	30	
VLRX 33-30/2 F T	7.5	5.5	3 ~ 400-690 V	10.2-5.9		58	54	49	44	30	
VLRX 33-30/1 F T	10	7.5	3 ~ 400-690 V	13.8-7.9		65	60	56	51	37	
VLRX 33-30 F T	10	7.5	3 ~ 400-690 V	13.8-7.9		72	66	62	58	45	
VLRX 33-40/2 F T	10	7.5	3 ~ 400-690 V	13.8-7.9		82	77	72	66	47	
VLRX 33-40/1 F T	15	11	3 ~ 400-690 V	20.2-11.7		89	83	78	73	55	
VLRX 33-40 F T	15	11	3 ~ 400-690 V	20.2-11.7		96	90	85	80	63	
VLRX 33-50/2 F T	15	11	3 ~ 400-690 V	20.2-11.7		106	100	93	85	63	
VLRX 33-50-1 F T	15	11	3 ~ 400-690 V	20.2-11.7		113	105	99	92	70	
VLRX 33-50 F T	20	15	3 ~ 400-690 V	27-15.6		120	113	107	101	81	
VLRX 33-60/2 F T	20	15	3 ~ 400-690 V	27-15.6		131	125	116	108	81	
VLRX 33-60/1 F T	20	15	3 ~ 400-690 V	27-15.6		139	131	124	116	90	
VLRX 33-60 F T	20	15	3 ~ 400-690 V	27-15.6		146	137	129	121	96	
VLRX 33-70/2 F T	20	15	3 ~ 400-690 V	27-15.6		156	147	138	128	98	
VLRX 33-70/1 F T	25	18.5	3 ~ 400-690 V	33-19		163	154	145	136	106	
VLRX 33-70 F T	25	18.5	3 ~ 400-690 V	33-19		170	160	152	142	113	
VLRX 33-80/2 F T	25	18.5	3 ~ 400-690 V	33-19		181	171	161	150	115	
VLRX 33-80/1 F T	25	18.5	3 ~ 400-690 V	33-19		187	177	166	156	122	
VLRX 33-80 F T	30	22	3 ~ 400-690 V	39-22.6		194	182	172	161	128	
VLRX 33-90/2 F T	30	22	3 ~ 400-690 V	39-22.6		202	191	179	166	128	
VLRX 33-90/1 F T	30	22	3 ~ 400-690 V	39-22.6		210	198	186	174	136	
VLRX 33-90 F T	30	22	3 ~ 400-690 V	39-22.6		217	204	193	181	144	
VLRX 33-100/2 F T	30	22	3 ~ 400-690 V	39-22.6		226	213	200	186	144	
VLRX 33-100/1 F T	40	30	3 ~ 400-690 V	51.8-30		235	221	209	196	154	
VLRX 33-100 F T	40	30	3 ~ 400-690 V	51.8-30		242	228	216	203	162	
VLRX 33-110-2 F T	40	30	3 ~ 400-690 V	51.8-30		252	240	226	211	164	
VLRX 33-110/1 F T	40	30	3 ~ 400-690 V	51.8-30		259	245	232	217	171	
VLRX 33-110 F T	40	30	3 ~ 400-690 V	51.8-30		266	250	236	222	177	
VLRX 33-120/2 F T	40	30	3 ~ 400-690 V	51.8-30		276	262	246	229	178	
VLRX 33-120/1 F T	40	30	3 ~ 400-690 V	51.8-30		283	267	252	236	186	
VLRX 33-120 F T	40	30	3 ~ 400-690 V	51.8-30		290	272	258	242	193	
VLRX 33-130/2 F T	40	30	3 ~ 400-690 V	51.8-30		301	286	270	252	198	
VLRX 33-130/1 F T	40	30	3 ~ 400-690 V	51.8-30		307	290	274	256	202	

Flanges DN65 PN 16 up to VLRX 33-60/2; PN25 from VLRX 33-60 to 33-10; PN40 from VLRX 33-110/2 to 33-130/1. Counterflanges optional.

NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

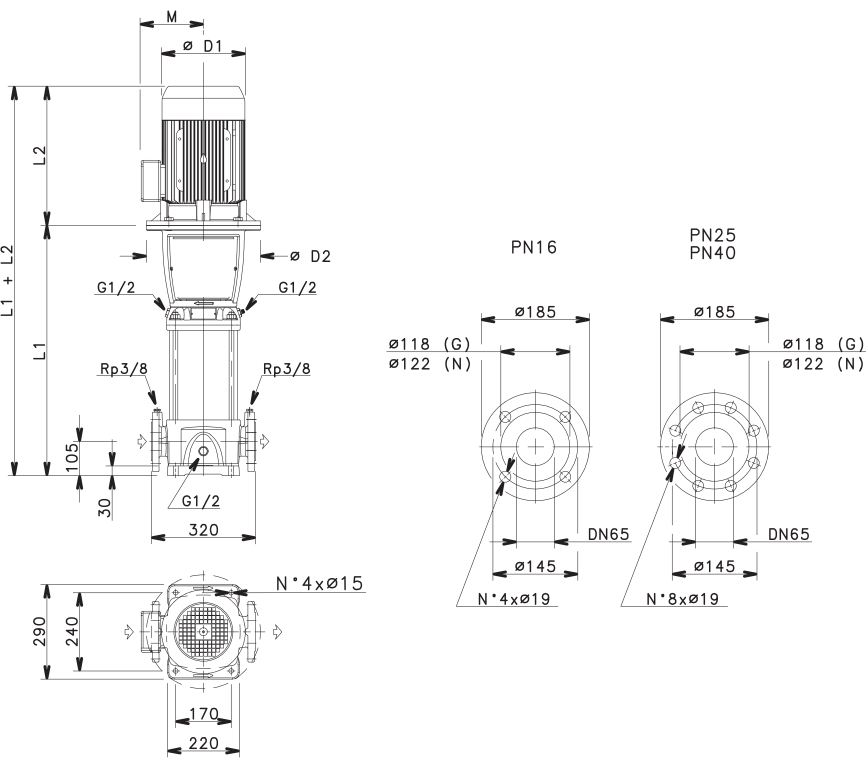
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	PN	
VLRX 33-10/1 T	489	268	178	164	137	16	68
VLRX 33-10 T	489	268	178	164	137	16	71
VLRX 33-20/2 F T	564	319	197	164	154	16	82.5
VLRX 33-20/1 F T	564	319	197	164	154	16	82.5
VLRX 33-20 F T	584	375	214	300	168	16	98.5
VLRX 33-30/2 F T	659	375	214	300	168	16	103
VLRX 33-30/1 F T	659	367	256	300	191	16	121
VLRX 33-30 F T	659	367	256	300	191	16	121
VLRX 33-40/2 F T	734	367	256	300	191	16	125
VLRX 33-40/1 F T	769	428	256	350	191	16	143
VLRX 33-40 F T	769	428	256	350	191	16	143
VLRX 33-50/2 F T	844	428	256	350	191	16	147
VLRX 33-50-1 F T	844	428	256	350	191	16	147
VLRX 33-50 F T	844	494	313	350	240	16	179
VLRX 33-60/2 F T	919	494	313	350	240	16	183
VLRX 33-60/1 F T	919	494	313	350	240	25	183
VLRX 33-60 F T	919	494	313	350	240	25	183
VLRX 33-70/2 F T	994	494	313	350	240	25	186
VLRX 33-70/1 F T	994	494	313	350	240	25	195
VLRX 33-70 F T	994	494	313	350	240	25	195
VLRX 33-80/2 F T	1069	494	313	350	240	25	199
VLRX 33-80/1 F T	1069	494	313	350	240	25	199
VLRX 33-80 F T	1069	494	313	350	240	25	210
VLRX 33-90/2 F T	1144	494	313	350	240	25	214
VLRX 33-90/1 F T	1144	494	313	350	240	25	214
VLRX 33-90 F T	1144	494	313	350	240	25	214
VLRX 33-100/2 F T	1219	494	313	350	240	25	218
VLRX 33-100/1 F T	1219	657	402	400	317	25	319
VLRX 33-100 F T	1219	657	402	400	317	25	319
VLRX 33-110-2 F T	1294	657	402	400	317	40	333
VLRX 33-110/1 F T	1294	657	402	400	317	40	333
VLRX 33-110 F T	1294	657	402	400	317	40	333
VLRX 33-120/2 F T	1369	657	402	400	317	40	337
VLRX 33-120/1 F T	1369	657	402	400	317	40	337
VLRX 33-120 F T	1369	657	402	400	317	40	337
VLRX 33-130/2 F T	1444	657	402	400	317	40	342
VLRX 33-130/1 F T	1444	657	402	400	317	40	342

NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

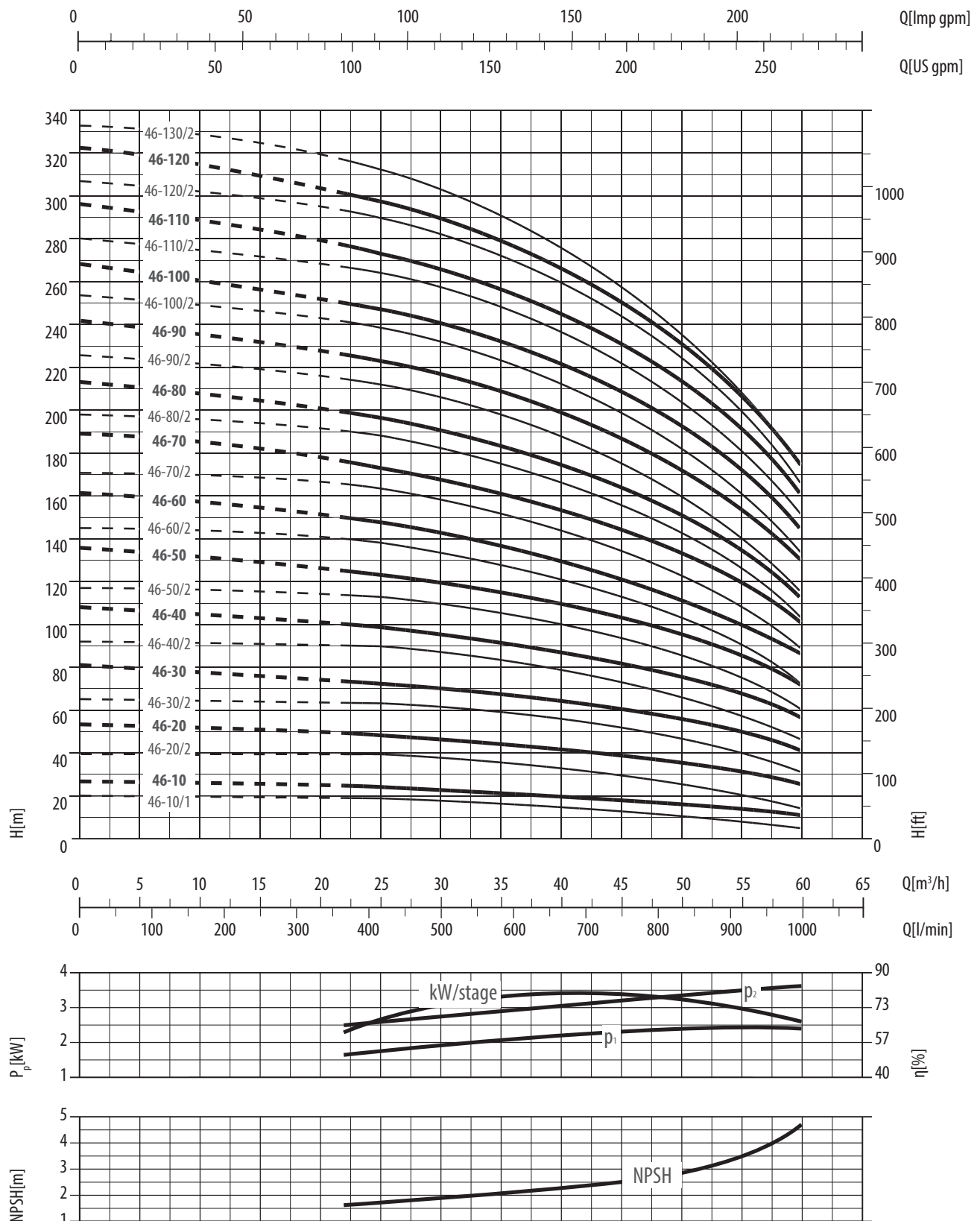
OVERALL DIMENSIONS AND WEIGHTS



NOCCHI VLRX 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRX 46	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	367	417	500	583	667	750	900	1000
	HP	kW				m³/h	22	25	30	35	40	45	54	60
VLRX 46-10/1	4	3	3-230 - 400 V	5	m.c.a. / m.w.c.	19	19	18	17	15	13	9	5	
VLRX 46-10	5.5	4	3-230 - 400 V	8.6		24	24	23	21	20	18	14	11	
VLRX 46-20/2	7.5	5.5	3-400 - 690 V	10.9		40	39	38	36	33	29	21	14	
VLRX 46-20	10	7.5	3-400 - 690 V	14.7		49	48	46	44	42	39	31	25	
VLRX 46-30/2	15	11	3-400 - 690 V	21		65	64	62	60	56	52	40	31	
VLRX 46-30	15	11	3-400 - 690 V	21		74	73	71	68	65	60	50	41	
VLRX 46-40/2	20	15	3-400 - 690 V	29		91	90	87	83	79	73	58	46	
VLRX 46-40	20	15	3-400 - 690 V	29		100	98	96	92	87	82	68	56	
VLRX 46-50/2	25	18.5	3-400 - 690 V	35		115	113	110	106	100	93	75	60	
VLRX 46-50	25	18.5	3-400 - 690 V	35		125	123	120	116	110	103	86	72	
VLRX 46-60/2	30	22	3-400 - 690 V	42		139	138	134	129	122	113	92	73	
VLRX 46-60	30	22	3-400 - 690 V	42		150	148	144	139	132	124	104	86	
VLRX 46-70/2	40	30	3-400 - 690 V	55		165	163	158	152	144	134	110	89	
VLRX 46-70	40	30	3-400 - 690 V	55		176	173	168	162	155	145	122	101	
VLRX 46-80/2	40	30	3-400 - 690 V	55		190	188	182	176	166	155	127	103	
VLRX 46-80	40	30	3-400 - 690 V	55		199	196	191	184	175	164	137	113	
VLRX 46-90/2	40	30	3-400 - 690 V	55		215	212	206	198	187	174	143	116	
VLRX 46-90	50	37	3-400 - 690 V	65		225	222	217	209	199	187	157	130	
VLRX 46-100/2	50	37	3-400 - 690 V	65		241	238	232	223	212	198	164	134	
VLRX 46-100	50	37	3-400 - 690 V	65		250	247	241	232	221	208	174	145	
VLRX 46-110/2	60	45	3-400 - 690 V	80		267	264	258	249	237	222	184	151	
VLRX 46-110	60	45	3-400 - 690 V	80		276	273	266	257	245	230	194	161	
VLRX 46-120/2	60	45	3-400 - 690 V	80		293	289	282	272	259	243	202	166	
VLRX 46-120	60	45	3-400 - 690 V	80		301	297	290	280	267	250	210	175	
VLRX 46-130/2	60	45	3-400 - 690 V	80		316	312	304	292	277	259	214	175	

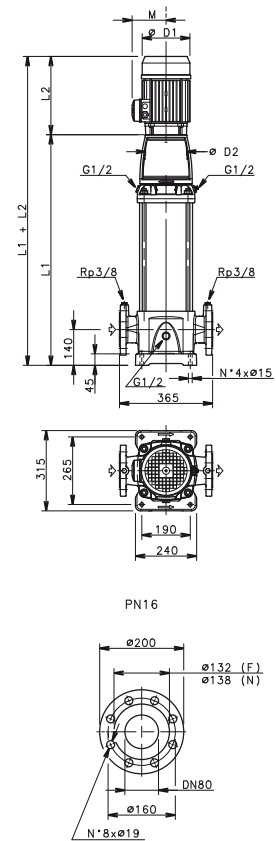
Flanges DN80 PN16 (VLR46-10/1, VLR 46-50); PN25 from VLR 46-60/2 to 46-90; PN 40 from VLR 46-100 to 46-130/2 oval flanges. Counterflanges optional.

NOCCHI VLRX 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

OVERALL DIMENSIONS AND WEIGHTS

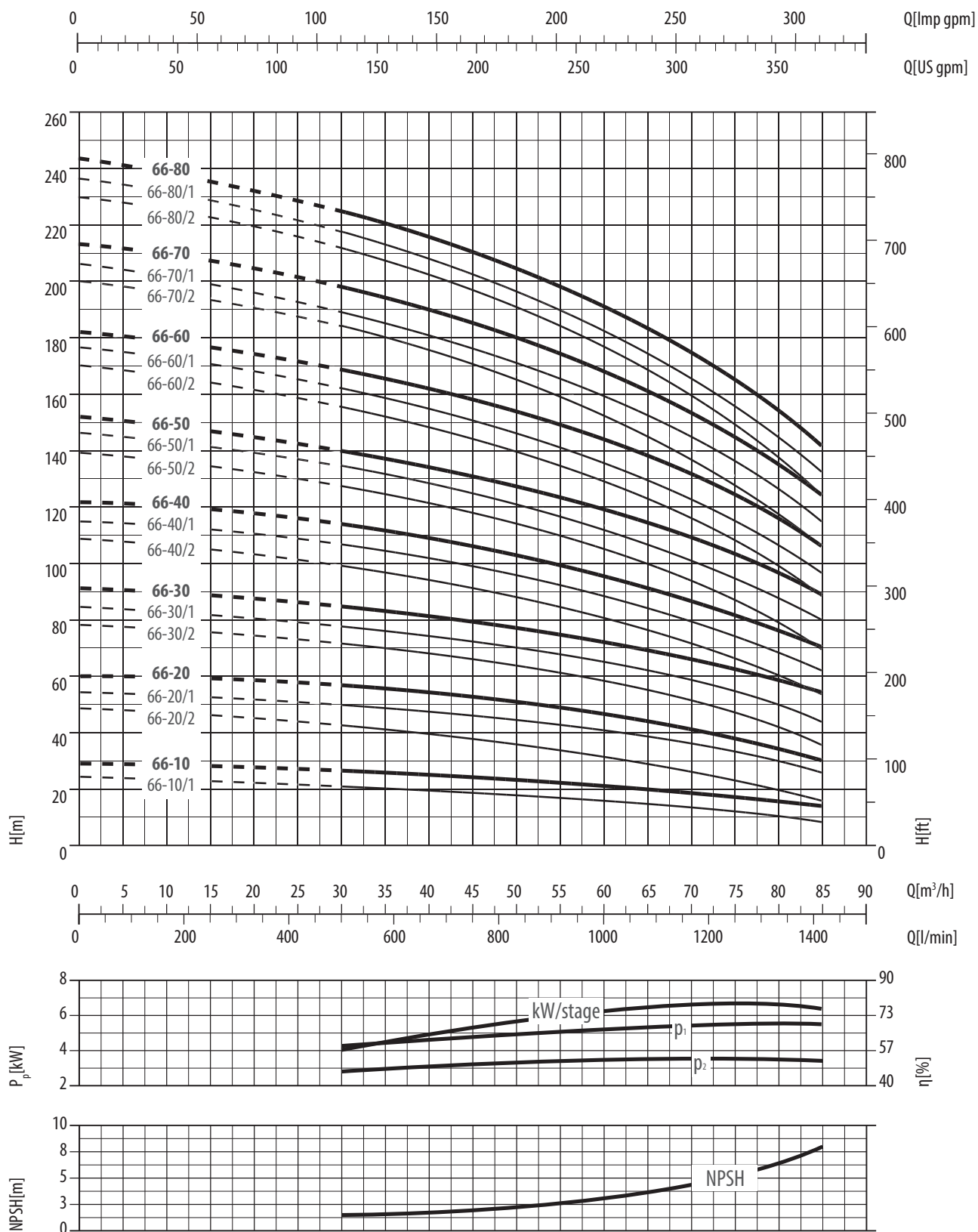
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLRX 46-10/1	529	298	174	164	134	79
VLRX 46-10	529	319	197	164	154	84,5
VLRX 46-20/2	624	375	214	300	168	104
VLRX 46-20	624	367	356	300	191	122
VLRX 46-30/2	734	428	256	350	191	144
VLRX 46-30	734	428	256	350	191	144
VLRX 46-40/2	809	494	313	350	240	180
VLRX 46-40	809	494	313	350	240	180
VLRX 46-50/2	884	494	313	350	240	193
VLRX 46-50	884	494	313	350	240	193
VLRX 46-60/2	959	494	313	350	240	208
VLRX 46-60	959	494	313	350	240	208
VLRX 46-70/2	1034	613	354	400	278	230
VLRX 46-70	1034	613	354	400	278	230
VLRX 46-80/2	1109	613	354	400	278	234
VLRX 46-80	1109	613	354	400	278	234
VLRX 46-90/2	1184	613	354	400	278	238
VLRX 46-90	1184	613	354	400	278	238
VLRX 46-100/2	1259	613	354	400	278	248
VLRX 46-100	1259	613	354	400	278	257
VLRX 46-110/2	1334	710	411	450	298	257
VLRX 46-110	1334	710	411	450	298	345
VLRX 46-120/2	1409	710	411	450	298	345
VLRX 46-120	1409	710	411	450	298	350
VLRX 46-130/2	1484	710	411	450	298	354



NOCCHI VLRX 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH valid for water with $\rho=1.0 \text{ kg/dm}^3$ at 20° C of condensity

VLRX 66	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	500	600	700	750	900	1000	1200	1300	1417
	HP	kW				m³/h	30	36	42	45	54	60	72	78	85
VLRX 66-10/1	5.5	4	3-230 - 400 V	8.6	m.c.a. / m.w.c.	21	21	20	19	18	17	13	11	8	
VLRX 66-10	7.5	5.5	3-400 - 690 V	10.9		26	25	24	23	22	21	18	16	14	
VLRX 66-20/2	10	7.5	3-400 - 690 V	14.7		43	41	40	39	36	33	26	22	16	
VLRX 66-20/1	15	11	3-400 - 690 V	21		50	48	47	46	43	41	35	31	26	
VLRX 66-20	15	11	3-400 - 690 V	21		56	54	53	52	49	47	42	39	35	
VLRX 66-30/2	20	15	3-400 - 690 V	29		72	70	67	66	62	58	49	43	35	
VLRX 66-30/1	20	15	3-400 - 690 V	29		78	76	74	72	68	65	56	51	44	
VLRX 66-30	25	18.5	3-400 - 690 V	35		85	83	81	79	75	72	64	60	54	
VLRX 66-40/2	25	18.5	3-400 - 690 V	35		100	97	94	92	86	82	70	63	53	
VLRX 66-40/1	30	22	3-400 - 690 V	42		106	103	100	99	93	89	78	71	62	
VLRX 66-40	30	22	3-400 - 690 V	42		113	110	107	105	100	96	86	79	71	
VLRX 66-50/2	40	30	3-400 - 690 V	55		128	124	120	118	111	106	92	83	70	
VLRX 66-50/1	40	30	3-400 - 690 V	55		134	131	127	125	118	112	99	91	80	
VLRX 66-50	40	30	3-400 - 690 V	55		140	137	133	131	125	119	107	99	89	
VLRX 66-60/2	40	30	3-400 - 690 V	55		156	152	147	144	136	129	113	103	88	
VLRX 66-60/1	40	30	3-400 - 690 V	55		162	158	153	151	143	136	121	111	97	
VLRX 66-60	50	37	3-400 - 690 V	65		169	164	160	158	150	143	128	119	106	
VLRX 66-70/2	50	37	3-400 - 690 V	65		184	179	174	171	161	153	134	122	106	
VLRX 66-70/1	50	37	3-400 - 690 V	65		190	185	180	177	168	160	142	131	115	
VLRX 66-70	60	45	3-400 - 690 V	80		197	192	187	184	174	167	150	139	124	
VLRX 66-80/2	60	45	3-400 - 690 V	80		212	206	200	197	186	177	156	142	124	
VLRX 66-80/1	60	45	3-400 - 690 V	80		218	213	207	204	193	184	163	150	133	
VLRX 66-80	60	45	3-400 - 690 V	80		225	219	213	210	199	191	171	159	142	

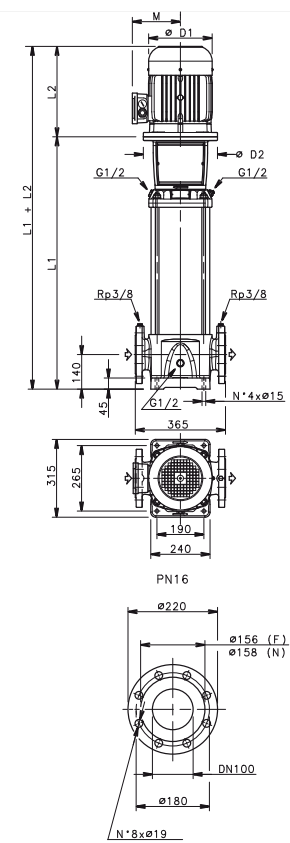
Flanges DN 100 PN 16 from VLR 66-10/1 to 66-80. PN 25 from VLR 66-60 to 66-80 oval flanges. Counterflanges optional.

NOCCHI VLRX 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

OVERALL DIMENSIONS AND WEIGHTS

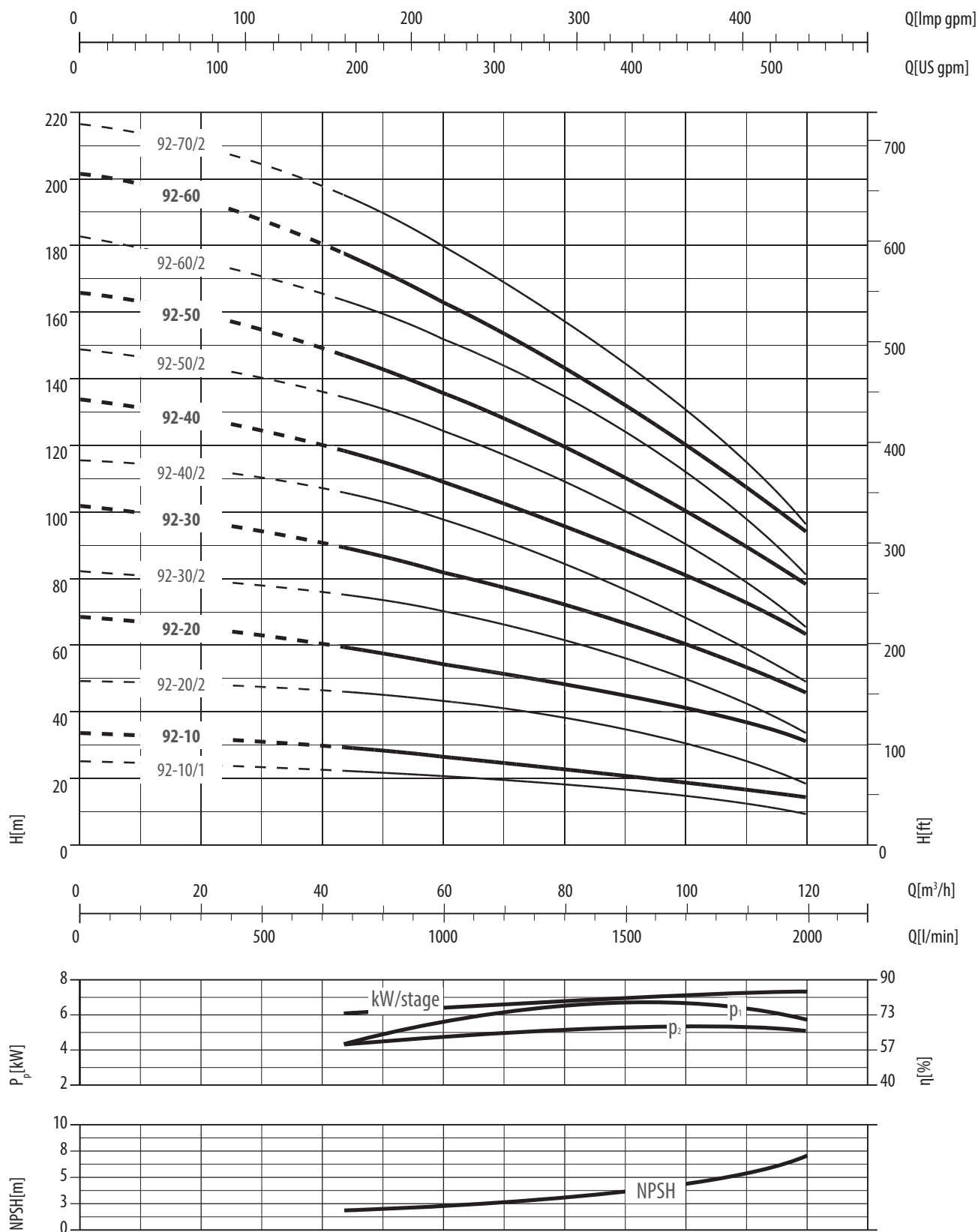
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLRX 66-10/1	554	319	197	164	154	92.5
VLRX 66-10	574	375	214	300	168	110
VLRX 66-20/2	664	367	256	300	191	133
VLRX 66-20/1	699	428	256	300	191	151
VLRX 66-20	699	428	256	350	191	151
VLRX 66-30/2	789	494	313	350	240	188
VLRX 66-30/1	789	494	313	350	240	188
VLRX 66-30	789	494	313	350	240	197
VLRX 66-40/2	879	494	313	350	240	203
VLRX 66-40/1	879	494	313	350	240	214
VLRX 66-40	879	494	313	350	240	214
VLRX 66-50/2	969	613	354	400	278	237
VLRX 66-50/1	969	613	354	400	278	237
VLRX 66-50	969	613	354	400	278	245
VLRX 66-60/2	1059	613	354	400	278	245
VLRX 66-60/1	1059	613	354	400	278	255
VLRX 66-60	1059	613	354	400	278	255
VLRX 66-70/2	1149	613	354	400	278	261
VLRX 66-70/1	1149	613	354	400	278	261
VLRX 66-70	1149	710	411	450	298	341
VLRX 66-80/2	1239	710	411	450	298	346
VLRX 66-80/1	1239	710	411	450	298	346
VLRX 66-80	1239	710	411	450	298	346



NOCCHI VLRX 92

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRX 92	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 92

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

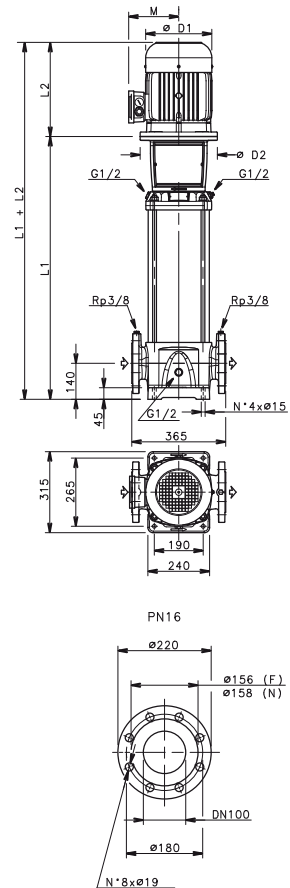
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	750	900	1000	1200	1300	1417	1600	1800	2000
	HP	kW				m³/h	45	54	60	72	78	85	96	108	120
VLRX 92-10/1	7.5	5.5	3~400 - 690 V	10.9	m.c.a. / m.w.c.		22	22	21	19	19	17	15	12	8
VLRX 92-10	10	7.5	3~400 - 690 V	14.7			29	27	26	24	23	22	20	18	14
VLRX 92-20/2	15	11	3~400 - 690 V	21			45	44	43	40	38	36	31	25	17
VLRX 92-20	20	15	3~400 - 690 V	29			58	55	53	50	48	45	41	36	30
VLRX 92-30/2	25	18.5	3~400 - 690 V	35			74	72	70	65	62	59	52	44	33
VLRX 92-30	30	22	3~400 - 690 V	42			88	84	81	76	73	69	63	56	46
VLRX 92-40/2	40	30	3~400 - 690 V	55			104	100	97	90	87	82	74	63	49
VLRX 92-40	40	30	3~400 - 690 V	55			117	112	108	101	97	92	85	75	63
VLRX 92-50/2	50	37	3~400 - 690 V	65			122	128	124	116	111	105	95	81	65
VLRX 92-50	50	37	3~400 - 690 V	65			146	140	135	126	121	115	106	94	78
VLRX 92-60/2	60	45	3~400 - 690 V	80			163	156	152	141	135	129	117	101	81
VLRX 92-60	60	45	3~400 - 690 V	80			176	168	163	151	146	139	127	113	94
VLRX 92-70/2	60	45	3~400 - 690 V	80			192	184	179	167	160	152	138	120	97

Flanges DN100 PN16 from VLRX 92-10/2 to 92-40; PN25 from VLRX 92-50/2 to 92-70/2 oval flanges. Counterflanges optional.

OVERALL DIMENSIONS AND WEIGHTS

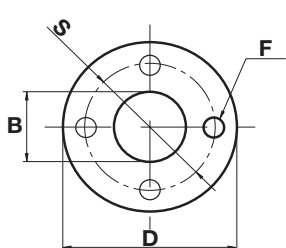
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLRX 92-10/1	574	375	214	300	168	109
VLRX 92-10	574	367	256	300	191	127
VLRX 92-20/2	699	428	256	350	191	150
VLRX 92-20	699	494	313	350	240	182
VLRX 92-30/2	789	494	313	350	240	197
VLRX 92-30	789	494	313	350	240	208
VLRX 92-40/2	879	613	354	400	278	232
VLRX 92-40	879	613	354	400	278	232
VLRX 92-50/2	969	613	354	400	278	250
VLRX 92-50	969	613	354	400	278	250
VLRX 92-60/2	1059	710	411	450	298	335
VLRX 92-60	1059	710	411	450	298	335
VLRX 92-70/2	1149	710	411	450	298	340



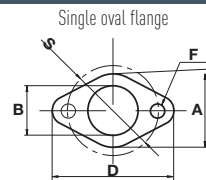
NOCCHI VLR/VLRI/VLRX

ACCESSORIES

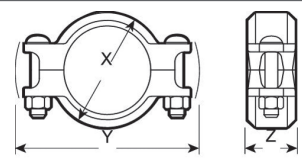
CIRCULAR FLANGES

CODE	DESCRIPTION	Material	Ext D	inter. S	N° Holes	D Holes F	Hole B		PN	STANDARD
							Thread- ed	To weld		
D3086KKK	 Pair of circular flanges complete with bolts and gaskets	STEEL	140	100	4	18	1 1/4"	-	16	UNI EN 1092-1
B7098KKK			150	110	4	18	-	DN40	16	UNI EN 1092-1
B7097KKK			150	110	4	18	1 1/2"	-	16	UNI EN 1092-1
ZB901890			165	125	4	18	-	DN50	16	UNI EN 1092-1
B7050KKK			165	125	4	18	2"	-	16	UNI EN 1092-1
B7051KKK			165	125	4	18	2 1/2"	-	16	N/A
ZB901920			220	180	8	18	-	DN100	16	UNI EN 1092-1
B7698KKK			185	145	8	18	-	DN65	25	UNI EN 1092-1
ZB902350			235	190	8	22	-	DN100	25	UNI EN 1092-1
ZA008460		STAINLESS STEEL AISI 316	140	99.2	4	20	1 1/4"	DN32	16	N/A
ZB902120			150	110	4	20	1 1/2"	DN40	16	N/A
ZB902130			165	126	4	20	2"	DN50	16	N/A

OVAL FLANGES

CODE	DESCRIPTION	Material	ext. D	ext. A	inter. S	Ø Holes F	Hole B threaded
ZC001270	 Single oval flange	CAST IRON	95	68	65	11	1"
ZC001290		CAST IRON	95	68	65	11	1 1/4"
ZC001280		CAST IRON	128	75	100	14	1 1/2"
ZA008560	Pair of oval flanges complete with bolts 1 1/4" and gaskets	STAINLESS STEEL cast AISI 316	95	68	65	11	1 1/4"

VICTAULIC JOINTS

CODE	DESCRIPTION	Material	Dimensions			CONNECTOR
			X	Y	Z	
ZA009020	 VICTAULIC joint	CAST IRON	68	117	45	1" 1/4 42.2
ZA009030			87	133	48	2" 60.3

NOCCHI VLR/VLRI/VLRX

ACCESSORIES

GUIDE TO SELECTION

Port dimensions	1¼"	1½"	DN40	2"	2½"	DN 50	DN 65	DN 100	DN 100	DN 32	DN 40	DN 50	1"	1¼"	1½"	1½"
Notes	PN 16	PN 16	PN 16	PN 16	-	PN 25	PN 25	PN 16	PN 25	PN 16	PN 16	PN 16	CAST IRON	CAST IRON	CAST IRON	CAST IRON
CODE → TYPE ↓	D3086KKK	B7097KKK	B7098KKK	B7050KKK	B7051KKK	ZB901890	B7698KKK	ZB901920	ZB902350	ZA008460	ZB902120	ZB902130	* ZC001270	* ZC001290	* ZC001280	ZA008560
VLR 2B FLANGE A													●			
VLR 2B FLANGE F	○															
VLR 4 FLANGE A														●		
VLR 4 FLANGE F	○															
VLR 8 FLANGE A															●	
VLR 8 FLANGE F		○	○													
VLR 16 FLANGE F				○	○	○										
VLR 32 FLANGE F							○									
VLR 66 FLANGE F → 66-50								○								
VLR 66 FLANGE F 66-60 →									○							
VLR 92 FLANGE F → 92-40																
VLR 92 FLANGE F 92-50 →																

* These codes refer to a single flange without screws and without gaskets

● Component assembled as standard ○ Component optional

NOCCHI CPS 10

ELECTRONIC FREQUENCY CONVERTER

EASY TO INSTALL, LOW ENERGY CONSUMPTION, COMPACT SIZE

CPS is an electronic device designed to vary the frequency of an electric pump. It is incorporated directly on the motor to enable control of the speed and provide the utility with constant pressure even in the event of changes in water demands. CPS offers a compact, essential, reliable and practical solution, also designed to ensure the utmost comfort and benefits when applied in the sectors of irrigation, greenhouses, light industry, fountains and water features.

The system comprises an electric pump and electronic control system (inverter) to ensure that pressure is kept constant in the system, reducing or increasing the speed of motor rotation on the electric pump as required. When the system pressure falls below the set threshold, the module starts

up the pump to restore the set point pressure; the pump rotation speed varies according to water demand and therefore increases speed on requests for increased quantities, through to the maximum setting. On decrease in water demand, the pump speed is decreased through to the minimum setting, after which, if no further decreases in pressure occur (i.e. new water demands) the pump is stopped on standby until a new cycle starts.



APPLICATIONS

- Pressure booster systems
- Water supply
- Industry
- Construction
- Washing

PROTECTION DEVICES

- Dry-running
- Current overload
- Electronics overheating
- Anti-freeze via external device

TECHNICAL SPECIFICATIONS

- Power supply voltage: inverter 1x230 Vac $\pm$ 10 %.
- Inverter output voltage: 3x230 Vac $\pm$ 10 %.
- Maximum nominal power: 1,5 Kw.
- Input frequency: 50/60 Hz + 3%.
- Maximum nominal output current: 6.5 Amp.
- Protection rating IP55 (if installed on motors with protection rating of IP55 or higher).
- Ambient temperature from +0°C to +40°C.
- Waveform: sinusoidal.
- Inlet filter compliant with EMC directive.
- Pressure transducer 0 - 5 Volt - 0 - 10 Bar.
- Set-point 2.
- Interface connectivity: RS 485 serial port.
- 3 optional contacts (external set-point, alarm, system disable).

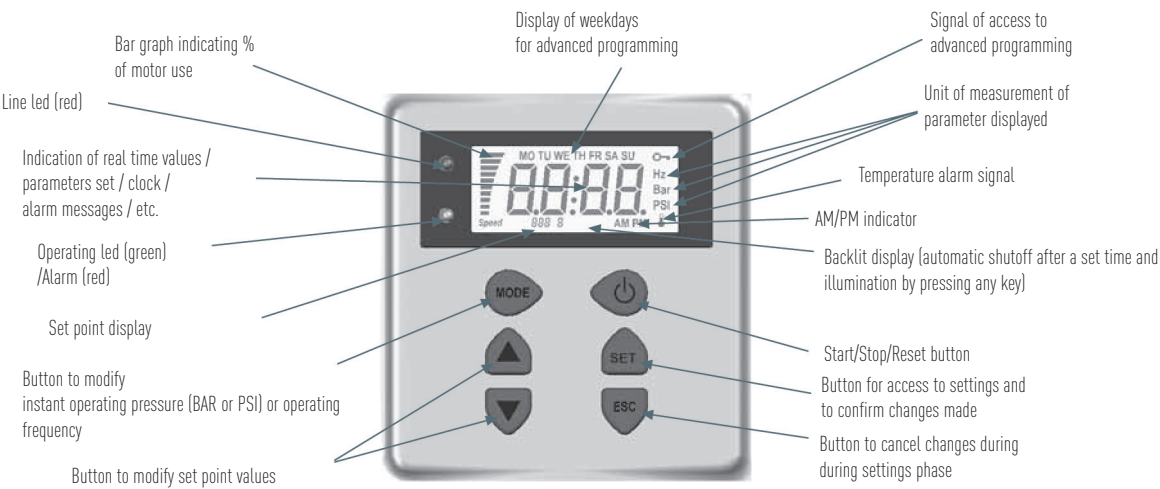
NOCCHI CPS 10

ELECTRONIC FREQUENCY CONVERTER

VERSIONS AVAILABLE

VERTICAL	HORIZONTAL	SELF-PRIMING
CPS10/VLR 2B-60 A	CPS10/MULTINOX-VE 200/80	CPS10/MULTINOX-XC 120/45
CPS10/VLR 2B-110 A	CPS10/DHI 4-50	CPS10/MULTINOX-XC 120/60
CPS10/VLR 4-80 A	CPS10/DHI 2-70	CPS10/JET 1000
CPS10/VLR 8-40 A	CPS10/DHR 4-50	CPS10/MULTINOX-A 200/40
CPS10/VLR 4-100 A	CPS10/DHR 9-40	CPS10/MULTINOX-A 200/65
CPS10/MULTINOX-VE 200/65	CPS10/DHR 9-60	CPS10/MULTINOX-A 200/80
CPS10/MULTINOX-VE 200/40	CPS10/MULTINOX-XC 80/48	

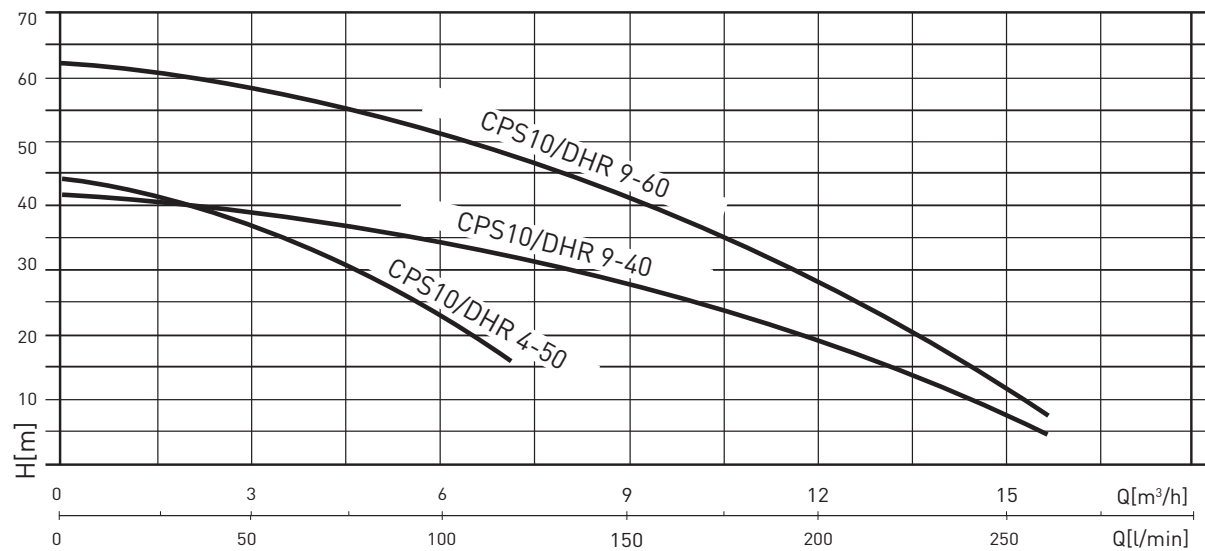
CONTROL PANEL



NOCCHI CPS10/DHR

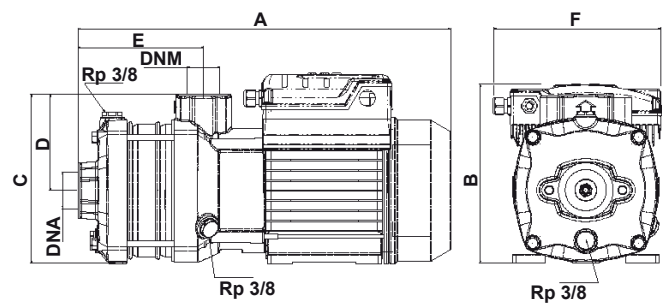
ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	0	40	60	80	100	120	160	200	240	260
	HP	kW				m³/h	0	2.4	3.6	4.8	6	7.2	9.6	12	14.4	15.6
CPS10/DHR 4-50	1.5	0.9	1 ~ 230	9.1	m.c.a./m.w.c.	44	39	35	30	24	17					
CPS10/DHR 9-40	1.74	1.3	1 ~ 230	12.5		41.5	40	39	38	35	33	27	19	10	5	
CPS10/DHR 9-60	2.4	1.8	1 ~ 230	15.8		62	60	58	56	52	49	40	29	14	6	



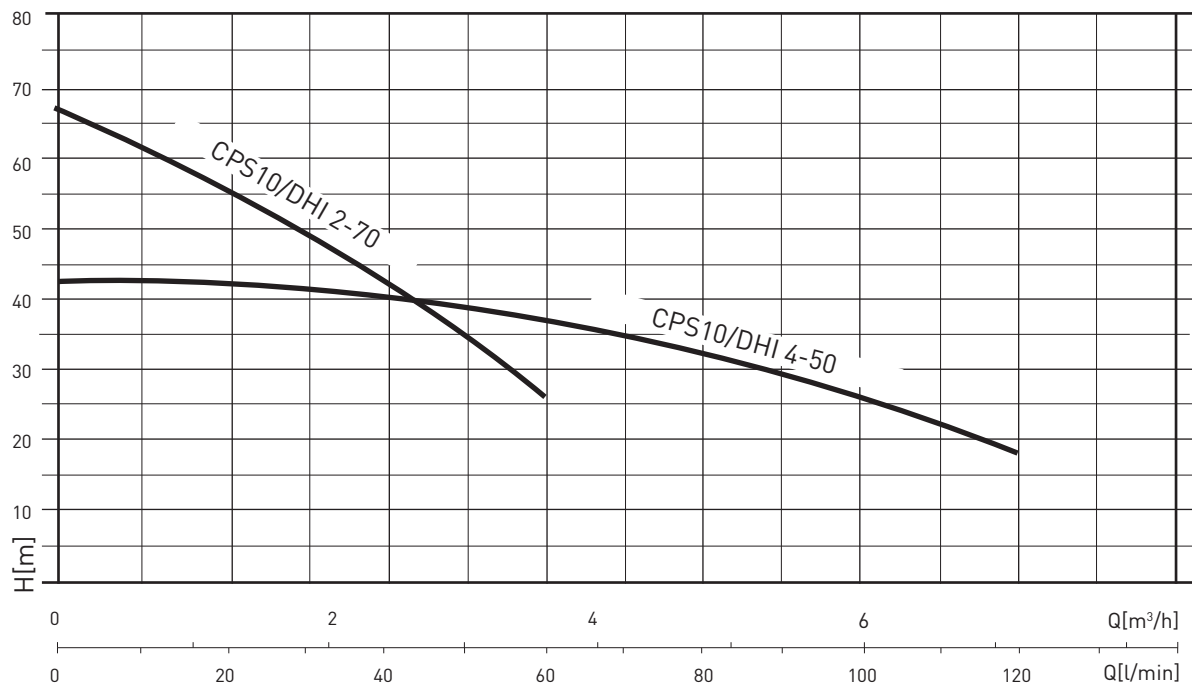
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Weight kg
	A	B	C	D	E	F	DNA	DNM	
CPS10/DHR 4-50	445	225	155	65	190	232	1" 1/4	1"	18
CPS10/DHR 9-40	408	215	185	105	137	232	1" 1/4	1" 1/4	21.1
CPS10/DHR 9-60	468	215	185	105	198	232	1" 1/2	1" 1/4	26

NOCCHI CPS10/DHI

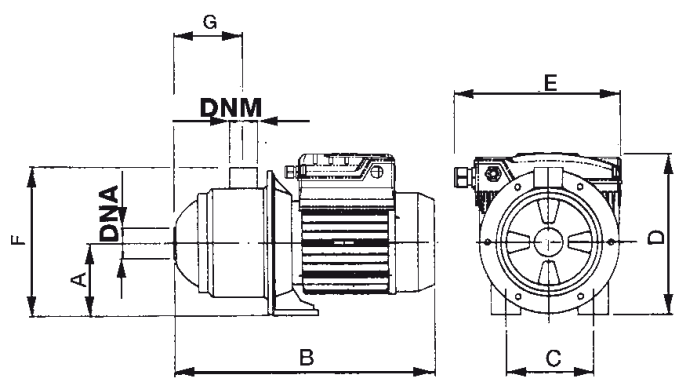
ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	0	10	20	30	40	50	60	80	100	120
	HP	kW				m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.8	6	7.2
CPS10/DHI 2-70	1.25	0.9	1 ~ 230	10.6	mca/ m.w.c.		68	63	57	50	43	35	26			
CPS10/DHI 4-50	1.25	0.9	1 ~ 230	10.6			43				42	39	36	33	27	18



OVERALL DIMENSIONS AND WEIGHTS

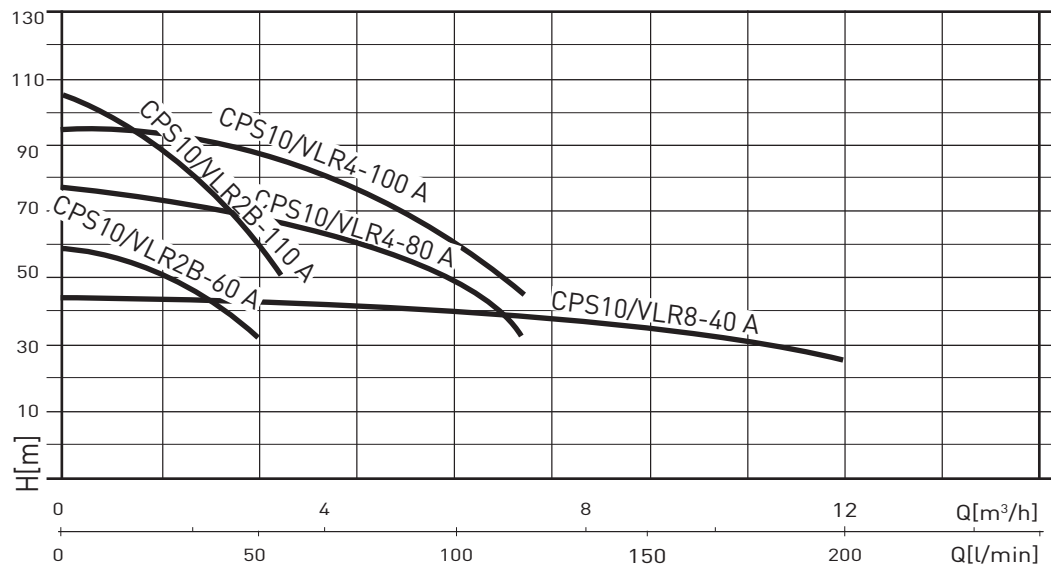
MODEL	Dimensions (mm)									Weight kg
	A	B	C	D	E	F	G	DNA	DNM	
CPS10/DHI 2-70	105	460	141	245	232	235	135	1" 1/4	1" 1/4	17.4
CPS10/DHI 4-50	105	460	141	245	232	235	135	1" 1/4	1" 1/4	17.4

NOCCHI CPS10/VLR

ELECTRONIC FREQUENCY CONVERTER

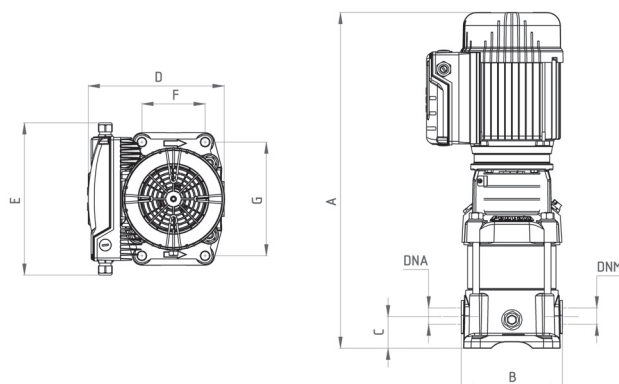


HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	0	10	20	30	40	50	60	80	100	120	150	175	200
	HP	kW				m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.8	6	7.2	10	10.5	12
CPS10/VLR 2B-60 A	1	0.75	1 ~ 230	5.9	m.c.a./m.w.c.	58	56	51	48	42	33								
CPS10/VLR 2B-110 A	1.5	1.1	1 ~ 230	10.2		105	100	93	84	74	60								
CPS10/VLR 4-80 A	2	1.5	1 ~ 230	13.7		77				71	69	67	59	50	37				
CPS10/VLR 4-100 A	3	1.75	1 ~ 230	14.7		94				89	86	82	73	61	44				
CPS10/VLR 8-40 A	2	1.5	1 ~ 230	13.7		44					42	41	41	40	38	35	30	26	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	D	E	F	G	
CPS10/VLR 2B-60 A	533	160	50	135	232	100	180	28
CPS10/VLR 2B-110 A	623	160	50	135	232	100	180	38
CPS10/VLR 4-80 A	688	160	50	155	232	100	180	35
CPS10/VLR 4-100 A	742	160	50	155	232	100	180	38
CPS10/VLR 8-40 A	685	200	80	155	232	130	215	42

NOCCHI CPS3-10

THREE-PHASE ELECTRONIC FREQUENCY CONVERTER



EASY TO INSTALL, LOW ENERGY CONSUMPTION, COMPACT SIZE

CPS 3-10 is an electronic device designed to vary the frequency of an electric pump. It is incorporated directly on the motor to enable control of the speed to provide the utility with a constant pressure even in the event of changes in water demands. CPS offers a compact, essential, reliable and practical solution, also designed to ensure the utmost comfort and benefits when applied a wide range of sectors, such as irrigation, pressure booster systems and water transfer, residential, commercial and industrial applications. The CPS range features a discreet and stylish design with a back lit graphic display that updates the user in real time on all operating parameters.

This operating principle of this device is simple and effective. CPS supplies the electric motor of the pump where it is installed and, via a feedback system using a pressure transducer, varies the power supply frequency of the electric motor according to changes in water demands, with the aim of maintaining

constant pressure levels on outlet from the pump according to a set point value set on the device. CPS ensures high levels of efficiency and improved flexibility in performance, guaranteeing optimal savings in energy and eliminating the need for supplementary control devices. The range offers a host of functions:

- Pressure measurement with the option of managing 2 separate levels settable via an internal timer or via an external connection;
- Start and stop;
- Internal clock;
- Calculation of motor speed;
- Protection against dry-running;
- Protection against overcurrent and undercurrent;
- Protection against overvoltage and undervoltage.



APPLICATIONS

- Pressure booster systems
- Water supply
- Industry
- Construction
- Washing

PROTECTION DEVICES

- Dry-running
- Current overload
- Electronics overheating
- System disable via external contact

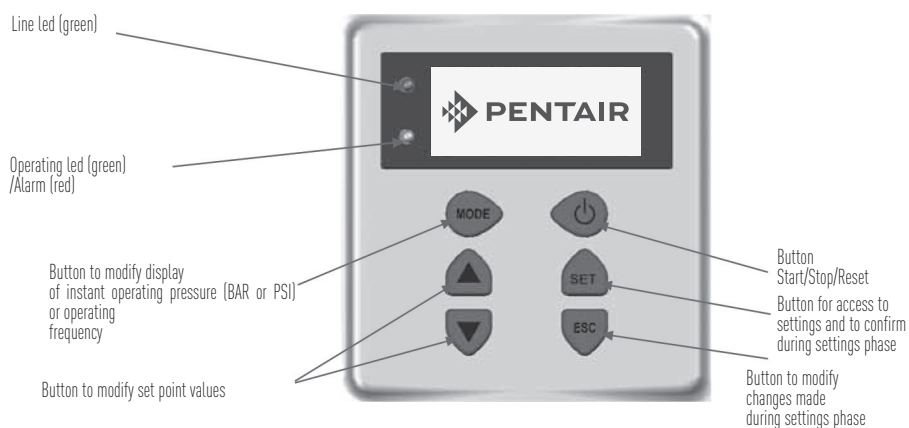
TECHNICAL SPECIFICATIONS

- Power supply voltage: inverter 3x380 - 3x500 Vac $\pm$ 10% sinusoidal 50/60 Hz.
- Inverter output voltage: 3x400 Vac $\pm$ 10 %.
- Maximum nominal power: 7.5 kW.
- Input frequency: 50/60 Hz + 3%.
- Maximum nominal output current: 16 A.
- Protection rating IP55 (if installed on motors with protection rating of IP55 or higher).
- Ambient temperature from +0°C to 50°C.
- Waveform: sinusoidal.
- Inlet filter compliant with EMC directive.
- Pressure transducer 0 - 5 Volt - 0 - 10 Bar 0 - 20 Bar depending on pump model.
- Set-point 2.
- Interface connectivity: RS 485 serial port.
- 3 optional contacts (external set-point, alarm, system disable).

NOCCHI CPS3-10

THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

CONTROL PANEL

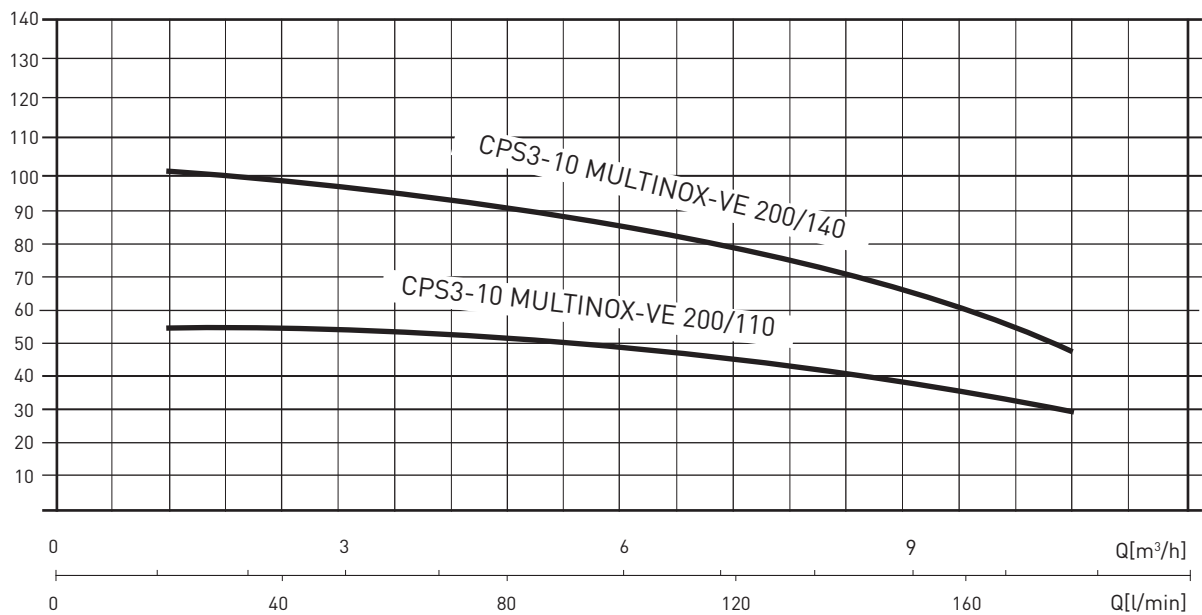


- Backlit display (automatic shutoff after a set time and illumination by pressing any key).
- Bar graph indicating percentage of motor use.
- Display of weekdays.
- Display of instant values / set parameters / clock / alarm messages / etc.
- Signal of access to programming.
- Unit of measurement of parameter displayed.

NOCCHI CPS3-10 MULTINOX-VE

THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

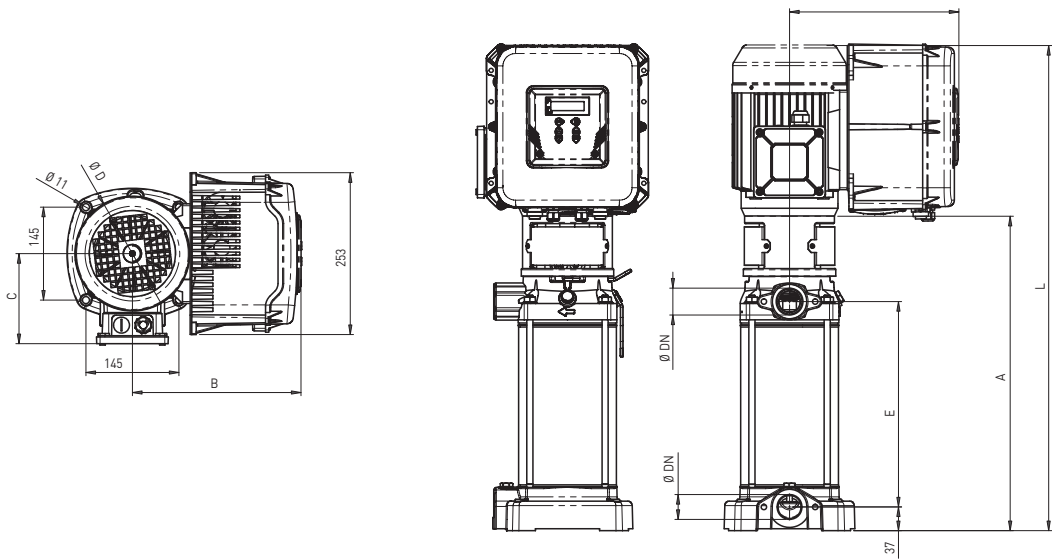
HYDRAULIC PERFORMANCE



MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
 For efficiency data, see electric pump series MULTINOX-VE

PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	20	60	100	140	180
	HP	kW				m³/h	1.2	3.6	6	8.4	10.8
CPS3-10 MULTINOX-VE 200/110	3.5	2.6	3 ~ 400	7	m.c.a./ m.w.c.		54	51	46	39	30
CPS3-10 MULTINOX-VE 200/140	5.5	4.0	3 ~ 400	8.2			100	94	85	72	55



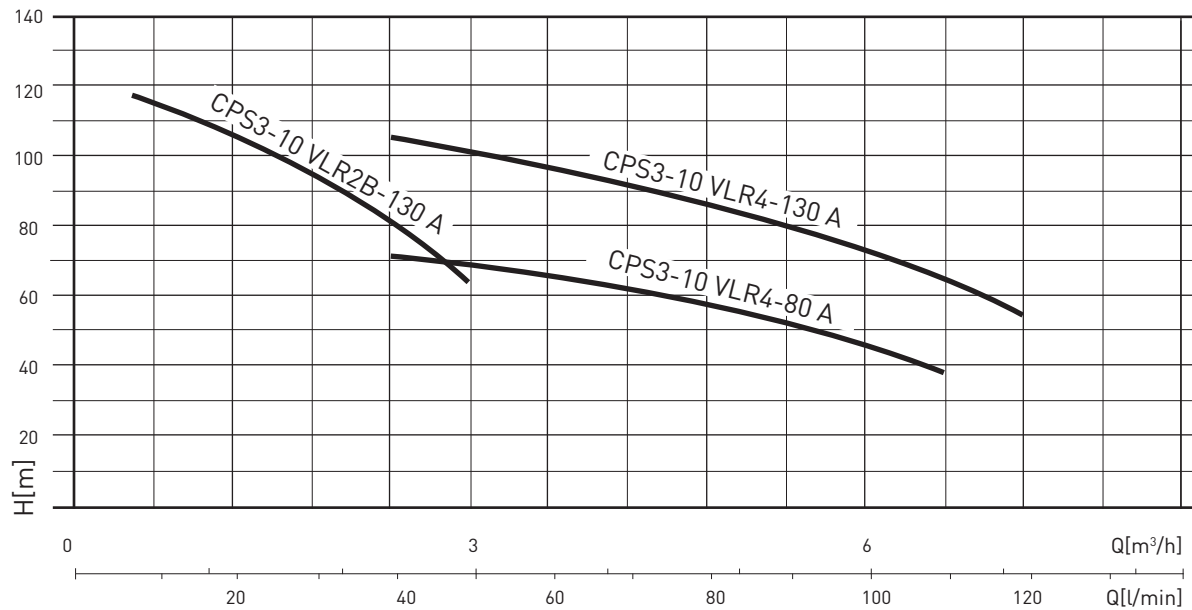
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	D	E	DN	L	
CPS3-10 MULTINOX-VE 200/110	491	265	140	177	320	1"1/4	760	42
CPS3-10 MULTINOX-VE 200/140	575	275	145	198	404	1"1/4	875	45

NOCCHI CPS3-10 VLR

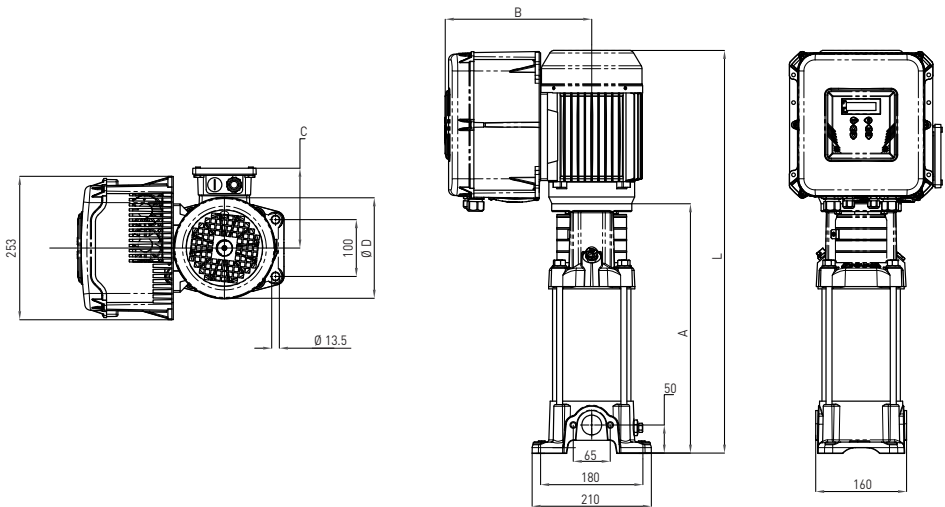
THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In [A]	Q	L/min	10	20	30	40	50	60	80	100	120
	HP	kW				m³/h	0.6	1.2	1.8	2.4	3	3.6	4.8	6	7.2
CPS3-10 VLR 2B-130 A	2	1.5	3 ~ 400	3.7	m.c.a./m.w.c.	118	111	101	85	65					
CPS3-10 VLR 4-80 A	2	1.5	3 ~ 400	4					71	69	66	58	49	35	
CPS3-10 VLR 4-120 A	3	2.2	3 ~ 400	5.8					106	103	99	87	73	53	



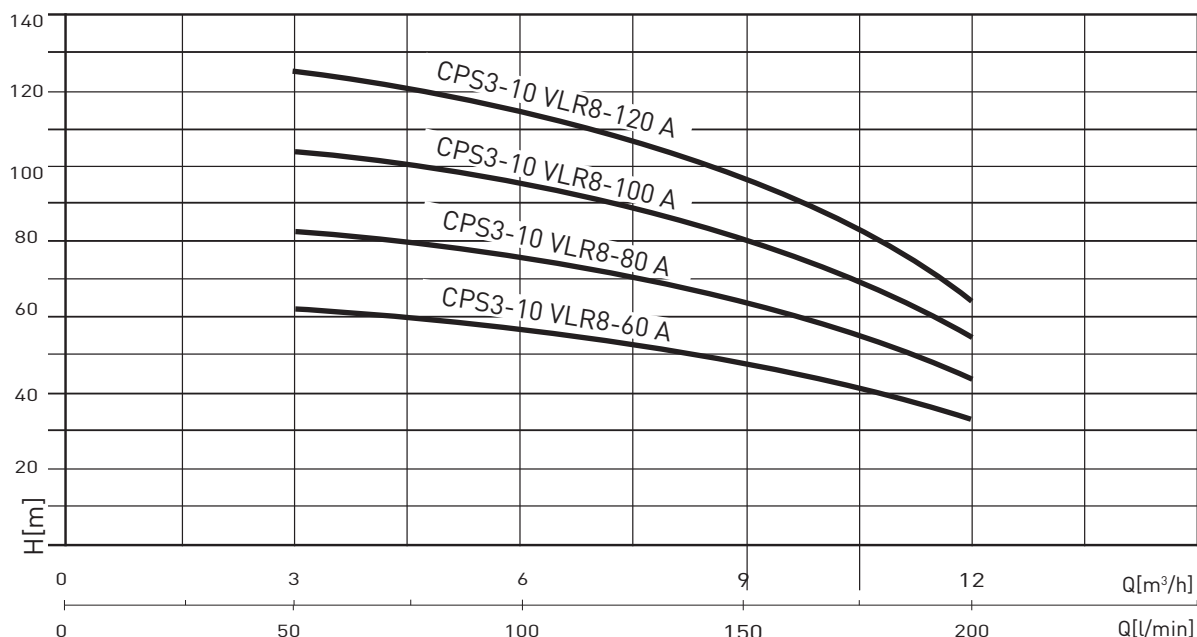
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	D	L	
CPS3-10 VLR 2B-130 A	440	258	140	177	725	43
CPS3-10 VLR 4-80 A	422	258	140	177	707	39
CPS3-10 VLR 4-120 A	530	258	140	177	815	43

NOCCHI CPS3-10 VLR

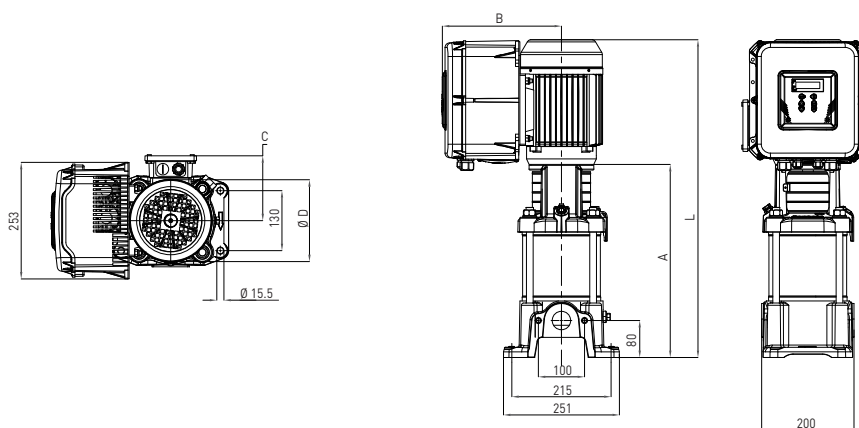
THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	50	100	150	175	200
	HP	kW				m³/h	3	6	9	10.5	12
CPS3-10 VLR 8-60 A	3	2.2	3 ~ 400	5.2	m.c.a./m.w.c.		62	58	48	41	33
CPS3-10 VLR 8-80 A	3	3	3 ~ 400	6.7			82	77	64	55	44
CPS3-10 VLR 8-100 A	5.5	3	3 ~ 400	8.2			103	96	80	69	55
CPS3-10 VLR 8-120 A	5.5	4	3 ~ 400	9.9			124	115	96	82	65



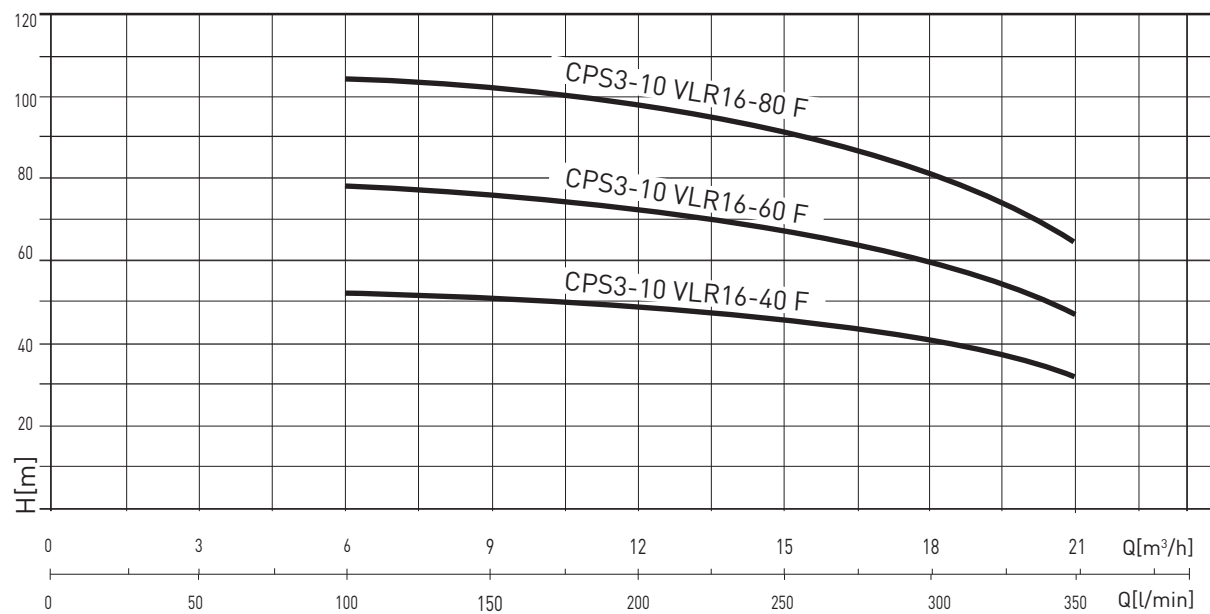
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	D	L	
CPS3-10 VLR 8-60 A	450	258	140	177	735	49
CPS3-10 VLR 8-80 A	515	268	145	198	832	57
CPS3-10 VLR 8-100 A	575	268	145	198	832	58
CPS3-10 VLR 8-120 A	635	268	145	198	952	62

NOCCHI CPS3-10 VLR

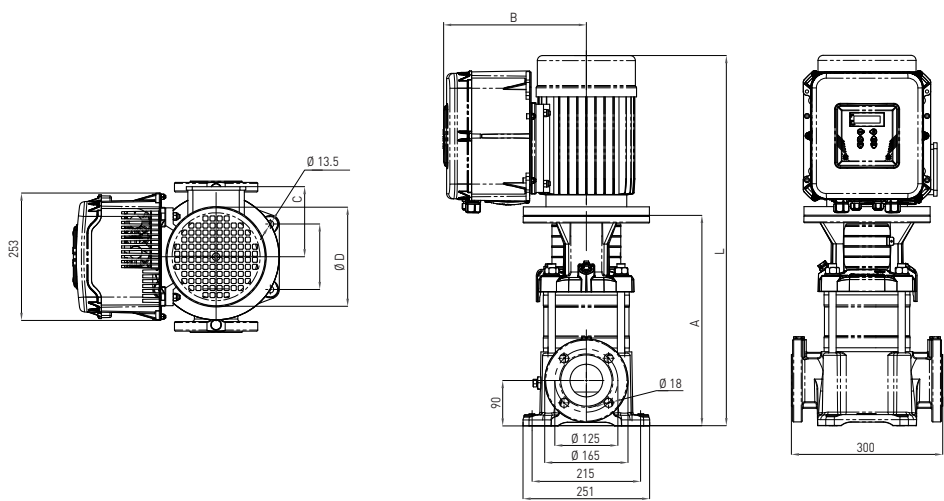
THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	100	200	250	300	350
	HP	kW				m³/h	6	12	15	18	21
CPS3-10 VLR 16-40 F	5.5	4.0	3 ~ 400	8.4	m.c.a./m.w.c.		52	49	46	40	32
CPS3-10 VLR 16-60 F	7.5	5.5	3 ~ 400	12.3			78	74	69	61	47
CPS3-10 VLR 16-80 F	10	7.5	3 ~ 400	15.1			104	98	92	81	63



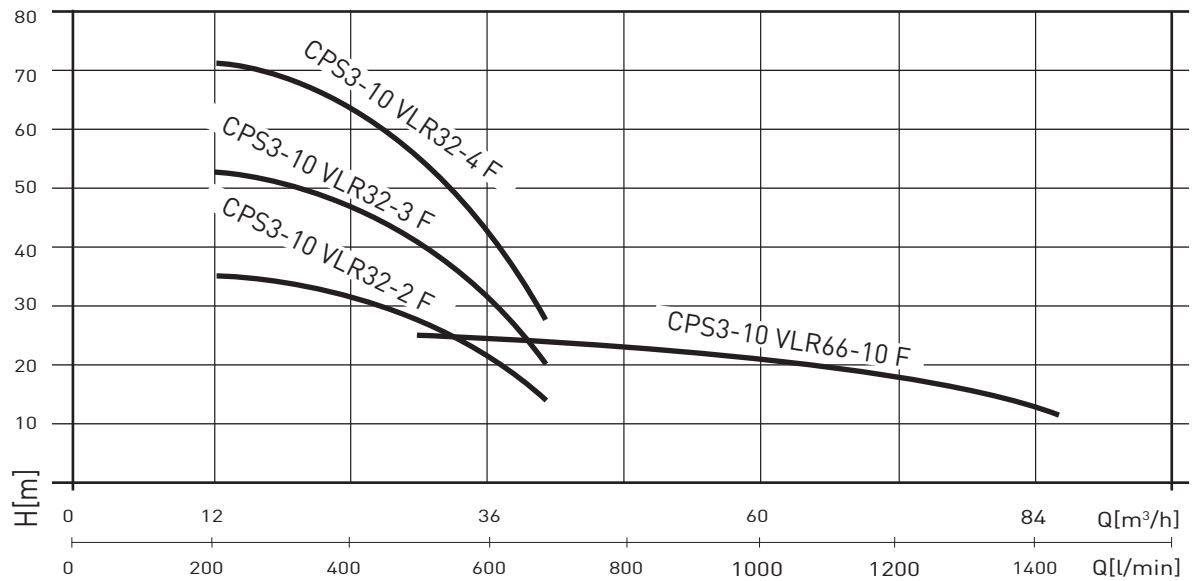
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	D	L	
CPS3-10 VLR 16-40 F	462	285	145	198	780	65
CPS3-10 VLR 16-60 F	573	315	185	260	970	90
CPS3-10 VLR 16-80 F	663	315	185	260	1100	98

NOCCHI CPS3-10 VLR

THREE-PHASE ELECTRONIC FREQUENCY CONVERTER

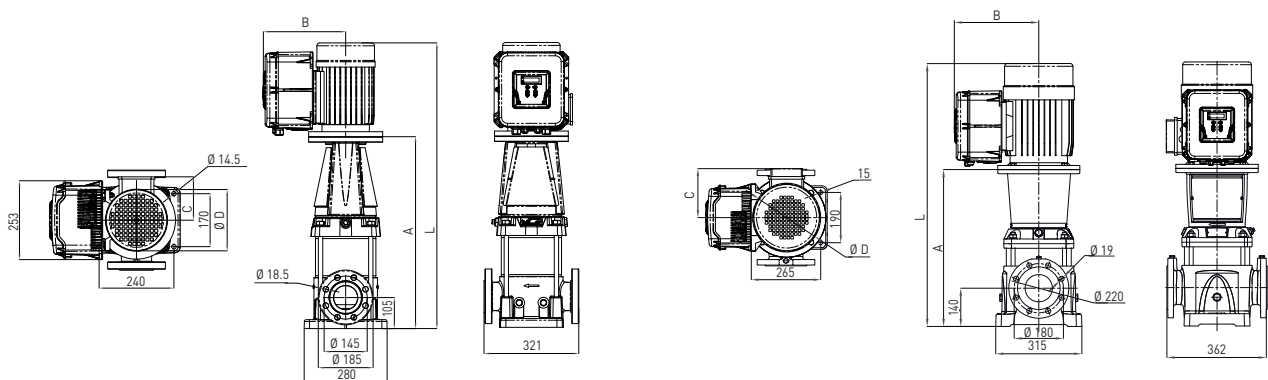
HYDRAULIC PERFORMANCE



MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see electric pump series VLR

PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	200	400	500	600	700	800	1000	1200	1300	1417
	HP	kW				m³/h	12	24	30	36	42	48	60	72	78	85
CPS3-10 VLR 32-2 F	5.5	4.0	3 ~ 400	8.5	m.c.a./m.w.c.	35	31	27	22	14						
CPS3-10 VLR 32-3 F	7.5	5.5	3 ~ 400	12.9		53	47	41	33	20						
CPS3-10 VLR 32-4 F	10	7.5	3 ~ 400	15.8		71	63	55	44	27						
CPS3-10 VLR 66-10 F	7.5	5.5	3 ~ 400	13.5				26	25	24	23	21	18	16	13	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	D	L	
CPS3-10 VLR 32-2 F	650	285	145	220	975	100
CPS3-10 VLR 32-3 F	770	315	185	260	1160	110
CPS3-10 VLR 32-4 F	840	315	185	260	1270	127
CPS3-10 VLR 66-10 F	574	315	185	260	970	113

NOCCHI SSCX

MONOBLOC SINGLE IMPELLER CENTRIFUGAL PUMPS WITH AXIAL SUCTION AND RADIAL DELIVERY

IMPELLER AND DIFFUSER IN AISI 304 STAINLESS STEEL; HIGH HYDRAULIC EFFICIENCY, OPTIMAL RELIABILITY

centrifugal pumps in the series SSCX are constructed in AISI 304 stainless steel, with a 2-pole self-ventilated asynchronous motor. Recommended for pumping clean water and liquids that are not chemically aggressive in the domestic, agricultural and industrial sectors.

APPLICATIONS

- Pressure booster systems
- Irrigation
- Conveying non aggressive water and liquids
- Gardening

VERSIONS

- Standard: mechanical seal in graphite/ceramic and gaskets in NBR.
- Special: mechanical gasket in silicon carbide/silicon carbide and gaskets in Viton.

APPLICATION DATA

- Type of liquid: clean water and liquids that are not chemically aggressive, without suspended solid bodies.
- Maximum liquid temperature: 90°C.
- Maximum operating pressure: 8 bar (PN8).

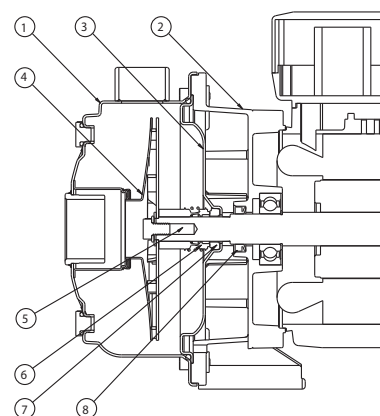
MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 55.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Rotation speed 2850 rpm.
- Continuous duty.



TABLE OF MATERIALS

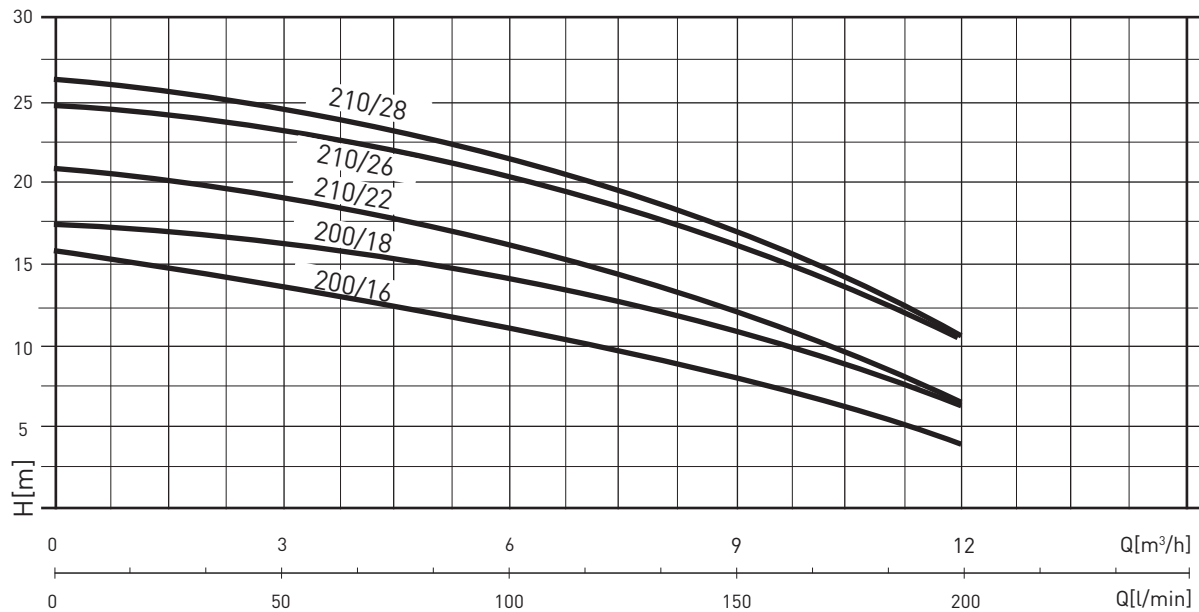
Component		Material
1	Pump body	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
2	Motor bracket	Aluminum AISI 12 UNI 5076
3	Seal holder base	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
4	Impeller	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
5	Shaft (hydraulic section)	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
6	Mechanical seal (rotary section)	Graphite or silicon carbide
7	Counterface (fixed section)	Ceramic or silicon carbide
8	Seals	NBR 70Shore or Viton



NOCCHI SSCX

MONOBLOC SINGLE IMPELLER CENTRIFUGAL PUMPS WITH AXIAL SUCTION AND RADIAL DELIVERY

HYDRAULIC PERFORMANCE

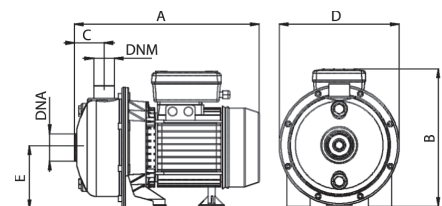


PERFORMANCE TABLE

MODEL	Motor output (P2)		Motor output (P1)		VOLT	I_n (A)	μF	Q	L/min m³/h	0	20	40	80	120	160	200
	HP	kW	HP	kW						0	1.2	2.4	4.8	7.2	9.6	12
SSCX 200/16M SSCX 200/16T	0.75	0.55	1	0.75	1 ~ 230 V 3 ~ 230 - 400 V	3.5 3.1-1.8	12.5	m.c.a. / m.w.c.	16	14.5	14	12.5	9.5	6.5	4	
SSCX 200/18M SSCX 200/18T	1	0.75	1.2	0.9	1 ~ 230 V 3 ~ 230 - 400 V	4 3.1-1.8	16		18	17	16	15	13	10.5	6	
SSCX 210/22M SSCX 210/22T	1.15 1.1	0.85 0.8	1.5 1.4	1.1 1.05	1 ~ 230 V 3 ~ 230 - 400 V	4.9 3.8-2.2	25		21.5	20	19	17	15	11	6	
SSCX 210/26M SSCX 210/26T	1.35	1	1.9	1.4	1 ~ 230 V 3 ~ 230 - 400 V	6.7 5-2.9	25		25.5	24	23	21.5	19	15.5	10	
SSCX 210/28M SSCX 210/28T	1.5 1.4	1.1 1.05	2.1 2	1.55 1.5	1 ~ 230 V 3 ~ 230 - 400 V	7.3 5.6-3.2	25		27	25.5	24.5	23	19.5	16	10	

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	DNA	DNM	
SSCX 200/16	320	240	50.5	210	105	1" 1/4	1"	8.7
SSCX 200/18	320	240	50.5	210	105	1" 1/4	1"	9.5
SSCX 210/22	350	250	50.5	210	105	1" 1/4	1"	12.1
SSCX 210/26	350	250	50.5	210	105	1" 1/4	1"	13.6
SSCX 210/28	350	250	50.5	210	105	1" 1/4	1"	13.8



NOCCHI NRM

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

RUGGED AND RESISTANT, WIDE RANGE, HIGH HYDRAULIC PERFORMANCE



The pumps in the NRM series are monobloc single impeller models with the hydraulic section and motor connected by means of the housing, and pump body constructed in compliance with the standard EN733/DIN24255. The pumps can be installed in all positions, except for that with the suction port directed upwards. The Horizontal single impeller

MOTOR

- Induction, closed, ventilated
- Protection rating: IP 55
- Insulation class F
- Construction design: B3/B5
- Speed of rotation:
- NRM4 1450 rpm
- NRM4 2900 rpm

APPLICATIONS

- Central heating and air conditioning systems.
- Collection of water from lakes, rivers, wells.
- Gravity and sprinkler irrigation systems.
- Water supply, fire fighting and pressure booster systems.

APPLICATION DATA

- Type of liquid: non aggressive, non explosive, free of solid bodies and fibers.
- Hot water for heating.
- Coolant fluids.
- Ambient temperature: 40°C.
- Pumped liquid temperature -10°C + 130°C.
- Maximum operating pressure: 10 bar.

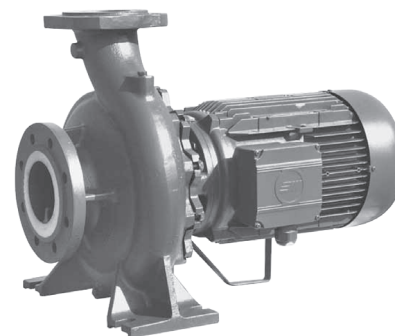


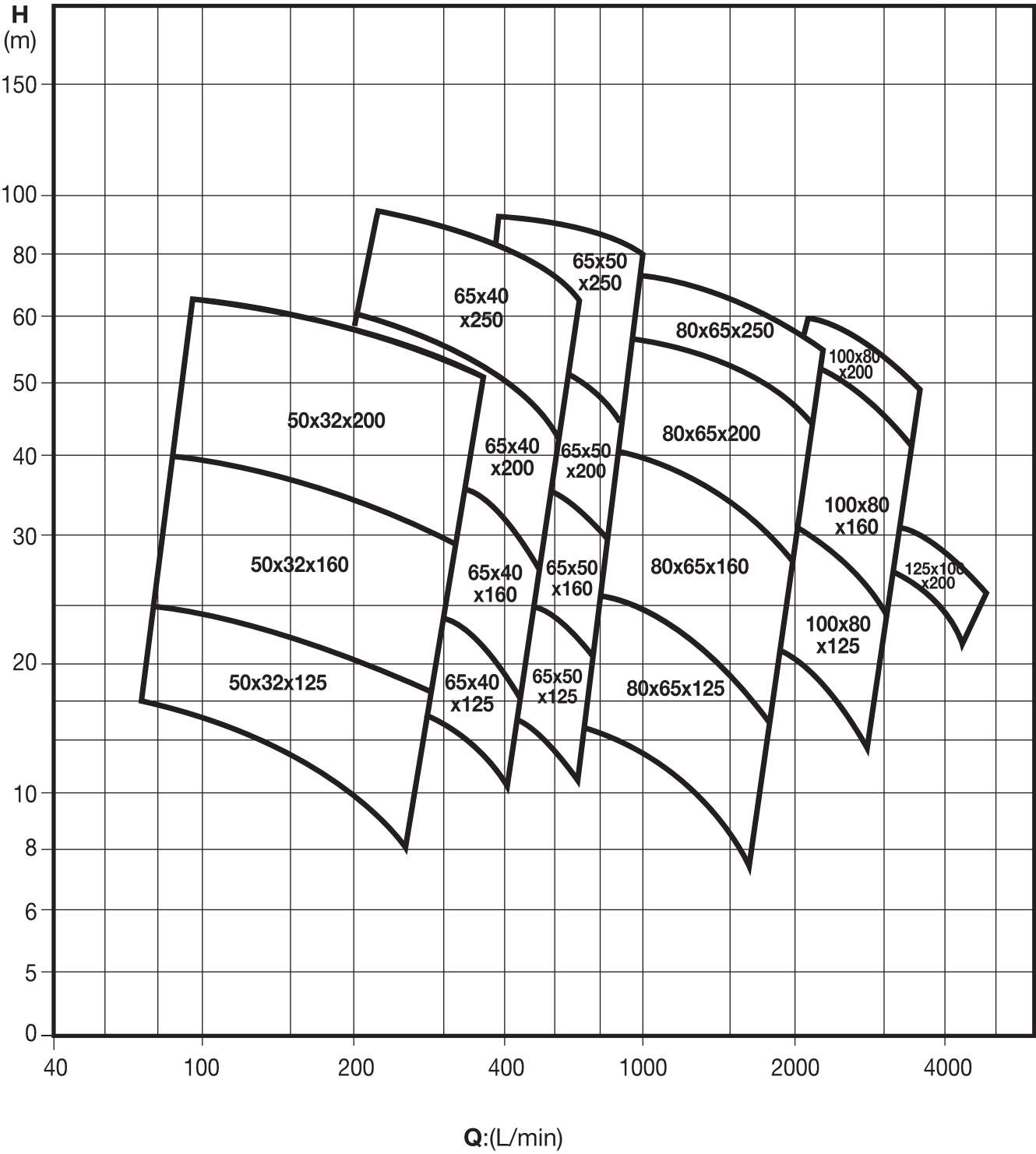
TABLE OF MATERIALS

Component		Material
1	Pump body	Cast iron EN GJL 200 (ex G20)
2	Motor bracket	Cast iron EN GJL 200 (ex G20)
3	Impeller	Cast iron EN GJL 200 (ex G20) AISI 304 on request
4	Shaft	Stainless steel AISI 420
5	Mechanical gasket	Silicon carbide/Silicon carbide/NBR

NOCCHI NRM2

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

HYDRAULIC PERFORMANCE



NOCCHI NRM2 50x32

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A)	Q	L/min	100	125	150	175	200	225	250	275	300	350	400
	HP	kW				m³/h	6	7.5	9	10.5	12	13.5	15	16.5	18	21	24
NRM2 50x32x125C	1	0.75	230/400	1.7	m.c.a. / m.w.c.	15.5	14.5	13.5	12.4	11.5	10.3	9	7.5	6			
NRM2 50x32x125B	1.5	1.1	230/400	2.5		20.5	20	19	18	17	16	15	13.5	11.5	7.5		
NRM2 50x32x125A	2	1.5	230/400	3.4		24.5	24	23.5	23	22	21	20	18.5	16.5	13		
NRM2 50x32x160C	3	2.2	230/400	4.4		28.5	28	27.5	26.5	25.5	24	23	21.5	20	15		
NRM2 50x32x160B	4	3	230/400	5.9		33.5	33	32.5	32	31	30	29	27.5	26	22.5		
NRM2 50x32x160A	4	3	230/400	5.9		38	37.5	37	36	35	34	33	31.5	30	26.5		
NRM2 50x32x200C	5.5	4	230/400	7.8		47	46.5	46	45	44	43	42	41	39.5	37.5	35	
NRM2 50x32x200C	5.5		400/690	7.8													
NRM2 50x32x200B	7.5	5.5	230/400	10.4		55	54.5	54	53.5	53	52	51	49.5	48	45	42	
NRM2 50x32x200B			400/690	10.4													
NRM2 50x32x200A	10	7.5	230/400	14.2		62	61.5	61	60	59.2	58.5	57.5	56.4	55	52.5	49	
NRM2 50x32x200A			400/690	14.2													

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

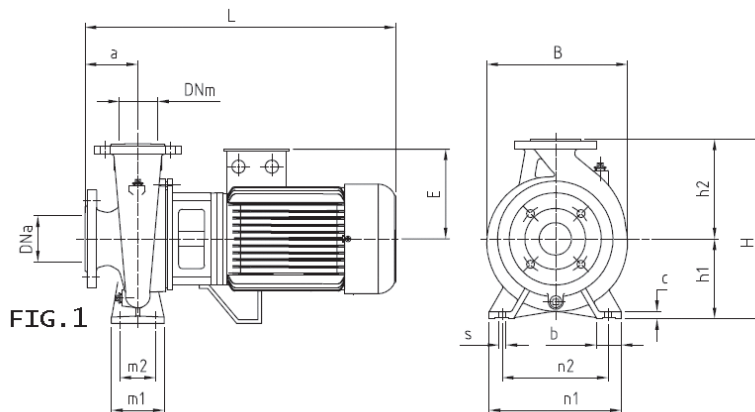


FIG. 1

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
32	78	100	140	4	18
50	102	125	165	4	18

OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 50x32x125C	71	32	50	1	80	112	140	50	100	70	190	140	14	12	-	421	200	252	23.3
NRM2 50x32x125B	80	32	50	1	80	112	140	50	100	70	190	140	14	12	-	421	200	252	23.6
NRM2 50x32x125A	80	32	50	1	80	112	140	50	100	70	190	140	14	12	-	421	200	252	25.9
NRM2 50x32x160C	80	32	50	1	80	132	160	50	100	70	240	190	14	12	-	426	240	292	31
NRM2 50x32x160B	100	32	50	1	80	132	160	50	100	70	240	190	14	12	-	495	240	292	36.5
NRM2 50x32x160A	100	32	50	1	80	132	160	50	100	70	240	190	14	12	-	495	240	292	38.5
NRM2 50x32x200C	100	32	50	1	80	160	180	50	100	70	240	190	14	12	-	495	240	340	46.9
NRM2 50x32x200B	112	32	50	1	80	160	180	50	100	70	240	190	14	12	-	517	240	340	51.1
NRM2 50x32x200A	112	32	50	1	80	160	180	50	100	70	240	190	14	12	-	539	240	340	59.6

NOCCHI NRM2 65x40

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

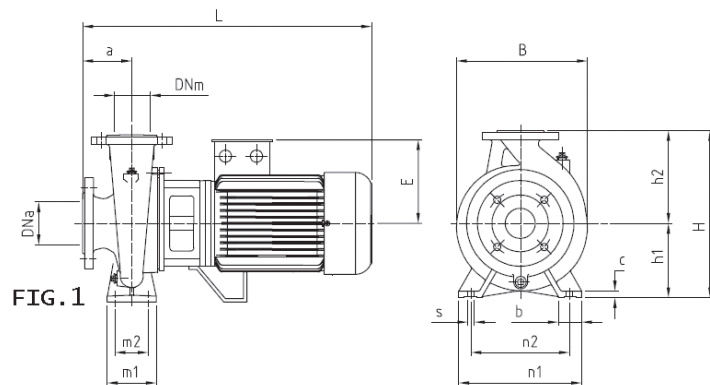
PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3x440	Q	L/min m³/h	250	275	300	350	400	450	500	550	600	650	700
	HP	kW					15	16.5	18	21	24	27	30	33	36	39	42
NRM2 65X40X125C	2	1.5	230/400	3.4	m.c.a. / m.w.c.	15.5	15.3	15	14.1	13	11.8	10.5	9	7			
NRM2 65X40X125B	3	2.2	230/400	4.4		19	18.8	18.5	17.5	16.5	15.5	14.5	13	10.5			
NRM2 65X40X125A	4	3	230/400	5.9		24.5	24.3	24	23.5	23	22	20.5	19	17			
NRM2 65X40X160B	4	3	230/400	5.9		30	29.5	29	28	26.5	25	23	20.5	18			
NRM2 65X40X160A	5.5	4	230/400	7.8		36.5	36	35.5	34.5	33.5	32.5	31	29	27			
NRM2 65X40X160A			400/690	7.8													
NRM2 65X40X200C	7.5	5.5	230/400	10.4		45.3	44.8	44	43	41.5	39	37	34	31			
NRM2 65X40X200C			400/690	10.4													
NRM2 65X40X200B	10	7.5	230/400	14.2		51	50.5	50	49	47.5	45	42.5	40	37			
NRM2 65X40X200B			400/690	14.2													
NRM2 65X40X200A	10	7.5	230/400	14.2		56.5	56	55.5	54.5	53	51	49	47	44			
NRM2 65X40X200A			400/690	14.2													
NRM2 65X40X250D	15	11	230/400	19.8		69	68.5	68	66.5	65	63	61	59	57	54		
NRM2 65X40X250D			400/690	19.8													
NRM2 65X40X250C	20	15	400/690	27		77	76.5	76	74.5	73	71	69	67	65	62.5	60	
NRM2 65X40X250B	20	15	400/690	27		90	89.8	89.2	88.2	87	85.3	83.2	80.7	78	75	71	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
40	83	110	150	4	18
65	122	145	185	4	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 65X40X125C	80	40	65	1	80	112	140	50	100	70	240	140	14	12	-	421	215	252	26.9
NRM2 65X40X125B	90	40	65	1	80	112	140	50	100	70	210	140	14	12	-	426	215	252	28
NRM2 65X40X125A	100	40	65	1	80	112	140	50	100	70	210	140	14	12	-	495	215	252	33.5
NRM2 65X40X160B	100	40	65	1	80	132	160	50	100	70	240	190	14	12	-	495	270	292	33.5
NRM2 65X40X160A	100	40	65	1	80	132	160	50	100	70	240	190	14	12	-	495	280	292	43.1
NRM2 65X40X200C	112	40	65	1	100	160	180	50	100	70	265	190	14	12	-	537	270	340	47.9
NRM2 65X40X200B	112	40	65	1	100	160	180	50	100	70	265	190	14	12	-	559	270	340	55.4
NRM2 65X40X200A	132	40	65	1	100	160	180	50	100	70	265	190	14	12	-	559	270	340	60.6
NRM2 65X40X250D	132	40	65	1	100	180	225	65	125	95	320	250	14	12	-	654	315	405	82.5
NRM2 65X40X250C	132	40	65	1	100	180	225	65	125	95	320	250	14	12	-	705	315	405	87
NRM2 65X40X250B	132	40	65	1	100	180	225	65	125	95	320	250	14	12	-	705	315	405	94

NOCCHI NRM2 65x50

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

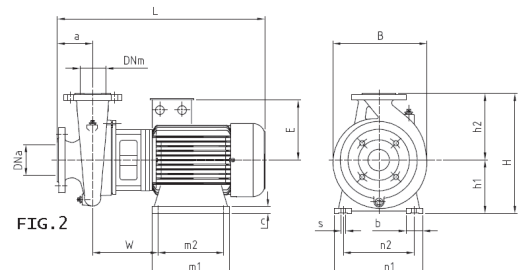
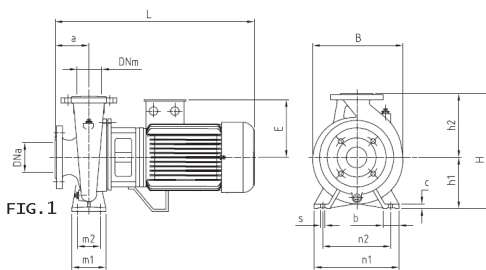
PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	400	450	500	550	600	650	700	750	800	900	1000
	HP	kW				m³/h	24	27	30	33	36	39	42	45	48	54	60
NRM2 65X50X125C	3	2.2	230/400	4.4	m.c.a. / m.w.c.	17	16.5	16	15.5	15	14	13	12	11	9		
NRM2 65X50X125B	4	3	230/400	5.9		21	20.5	20	19.5	19	18.3	17.5	16.8	16	14	12	
NRM2 65X50X125A	5.5	4	230/400	7.8		25.5	25.3	25	24.5	24	23.5	23	22.5	21.5	20	18	
NRM2 65X50X125A			400/690	7.8													
NRM2 65X50X160B	7.5	5.5	230/400	10.4		32.5	32	31.5	31	30.5	30	29.5	29	28	26	23.5	
NRM2 65X50X160B			400/690	10.4													
NRM2 65X50X160A	10	7.5	230/400	14.2		37	36.5	36	35.5	35	34.5	34	33.5	32.5	31	29	
NRM2 65X50X160A			400/690	14.2													
NRM2 65X50X200B	15	11	230/400	19.8		51	50.5	50	49	48	47	45.5	44.5	43	39.5	37	
NRM2 65X50X200B			400/690	19.8													
NRM2 65X50X200A	20	15	400/690	27		58	57.5	57	56	55	54	53	51.5	50	46.5	42.5	
NRM2 65X50X250D	20	15	400/690	27		72	71	70	69	68	67	66	64.5	63	60	56	
NRM2 65X50X250C	25	18.5	400/690	33.3		80.5	80	79.5	78.5	77.5	76.5	75.5	74.5	73.5	71	67.5	
NRM2 65X50X250B	30	22	400/690	38.6		92	91.8	91.5	91	90	89	88	87	86	83	80	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
50	102	125	165	4	18
65	122	145	185	4	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 65X50X125C	90	50	65	1	100	132	160	50	100	70	240	190	14	12	-	446	245	292	34.5
NRM2 65X50X125B	100	50	65	1	100	132	160	50	100	70	240	190	14	12	-	515	270	292	40
NRM2 65X50X125A	100	50	65	1	100	132	160	50	100	70	240	190	14	12	-	515	280	292	44.1
NRM2 65X50X160B	112	50	65	1	100	160	180	50	100	70	265	212	14	12	-	537	270	340	53.4
NRM2 65X50X160A	112	50	65	1	100	160	180	50	100	70	265	212	14	12	-	559	270	340	58.1
NRM2 65X50X200B	132	50	65	1	100	160	200	50	100	70	265	212	14	12	-	654	285	360	73.5
NRM2 65X50X200A	132	50	65	1	100	160	200	50	100	70	265	212	14	12	-	705	285	360	77
NRM2 65X50X250D	132	50	65	1	100	180	225	50	100	70	265	212	14	12	-	705	320	405	95
NRM2 65X50X250C	160	50	65	2	100	180	225	76	420	370	320	254	14	20	210	802	320	405	146
NRM2 65X50X250B	160	50	65	2	100	180	225	76	420	370	320	254	14	20	210	802	320	405	167

NOCCHI NRM2 80x65

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

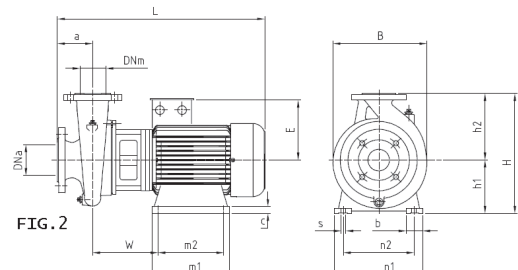
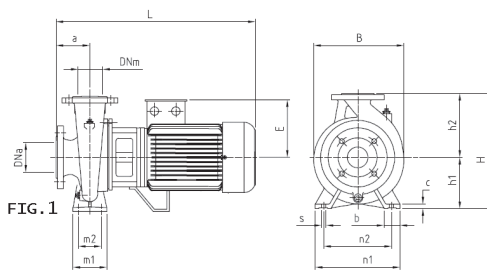
PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	600	650	700	750	800	900	1000	1250	1500	1750	2000	2250
	HP	kW				m³/h	36	39	42	45	48	54	60	75	90	105	120	135
NRM2 80X65X125C	5.5	4	230/400	7.8	m.c.a. / m.w.c.	17.5	17.3	17	16.5	16	15.5	14.5	12	9				
NRM2 80X65X125C			400/690	7.8														
NRM2 80X65X125B	7.5	5.5	230/400	10.4		21	20.8	20.6	20.3	20	19.5	19	17	14.5	11			
NRM2 80X65X125B			400/690	10.4														
NRM2 80X65X125A	10	7.5	230/400	14.2		25	24.8	24.6	24.3	24	23.5	23	21.5	19	16			
NRM2 80X65X125A			400/690	14.2														
NRM2 80X65X160C	15	11	230/400	19.8				30.5	30.3	30	29.5	29	26.5	24	20.5	16		
NRM2 80X65X160C			400/690	19.8														
NRM2 80X65X160B	20	15	400/690	27				36.5	36.3	36	35.5	34.5	33	30	27	23	19	
NRM2 80X65X160A	20	15	400/690	27				41	40.8	40.5	40	39.5	38	35.5	33	29	24	
NRM2 80X65X200D	20	15	400/690	27						44	43.5	43	41.5	39	35.5	31.5		
NRM2 80X65X200C	25	18.5	400/690	33.3						51	50	49.5	48.5	46.5	43.5	39.5	35	
NRM2 80X65X200B	30	22	400/690	38.6						57	56.5	56	55	53.5	51	48	42.5	
NRM2 80X65X250D	30	22	400/690	38.6						64	63.5	63	61	57	53			

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 80X65X125C	100	65	80	1	100	160	180	65	125	95	280	212	14	14	-	515	280	340	44.9
NRM2 80X65X125B	112	65	80	1	100	160	180	65	125	95	280	212	14	14	-	537	280	340	47.1
NRM2 80X65X125A	112	65	80	1	100	160	180	65	125	95	280	212	14	14	-	559	280	340	57.6
NRM2 80X65X160C	132	65	80	1	100	160	200	65	125	95	280	212	14	14	-	654	280	360	75.5
NRM2 80X65X160B	132	65	80	1	100	160	200	65	125	95	280	212	14	14	-	705	280	360	79
NRM2 80X65X160A	132	65	80	1	100	160	200	65	125	95	280	212	14	14	-	705	280	360	85
NRM2 80X65X200D	132	65	80	1	100	180	225	65	125	95	280	212	14	14	-	705	330	405	89.5
NRM2 80X65X200C	160	65	80	2	100	180	225	65	420	370	320	254	14	20	210	802	330	405	140
NRM2 80X65X200B	160	65	80	2	100	180	225	65	420	370	320	254	14	20	210	802	330	405	144
NRM2 80X65X250D	160	65	80	2	100	180	250	65	420	370	320	254	14	20	222	814	365	430	172

NOCCHI NRM2 100x80

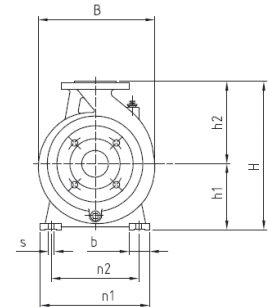
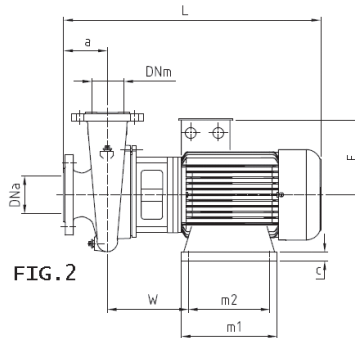
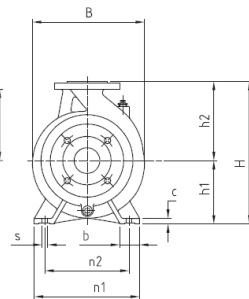
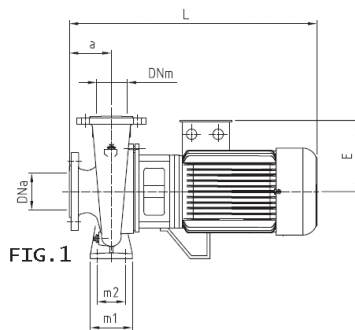
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500	5000
	HP	kW				m³/h	60	75	90	105	120	135	150	165	180	210	240	270	300
NRM2 100X80X160D	15	11	230/400	19.8	m.c.a./m.w.c.		24	23	22	21	19.5	18	16.5	15					
NRM2 100X80X160D			400/690	19.8															
NRM2 100X80X160C	20	15	400/690	27			28.5	28	27	26	24.5	23	21.5	20	18.5				
NRM2 100X80X160B	20	15	400/690	27			34	33.3	32.5	31.8	31	29	27.5	26	24.5				
NRM2 100X80X200D	25	18.5	400/690	33.3			42	41	40	38.5	37	35	33	30.5					
NRM2 100X80X200C	30	22	400/690	38.6			47	46.5	45.5	44.5	43	41	39	37					

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
80	138	160	200	8	18
100	158	180	220	8	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	(kg)
NRM2 100X80X160D	132	80	100	1	125	180	225	65	125	95	320	250	14	14	-	679	315	405	79.5
NRM2 100X80X160C	132	80	100	1	125	180	225	65	125	95	320	250	14	14	-	730	315	405	83.5
NRM2 100X80X160B	132	80	100	1	125	180	225	65	125	95	320	250	14	14	-	730	315	405	90.5
NRM2 100X80X200D	160	80	100	2	125	180	250	65	420	370	320	254	14	20	222	839	360	430	150
NRM2 100X80X200C	160	80	100	2	125	180	250	65	420	370	320	254	14	20	222	839	360	430	192

NOCCHI NRM2 125x100

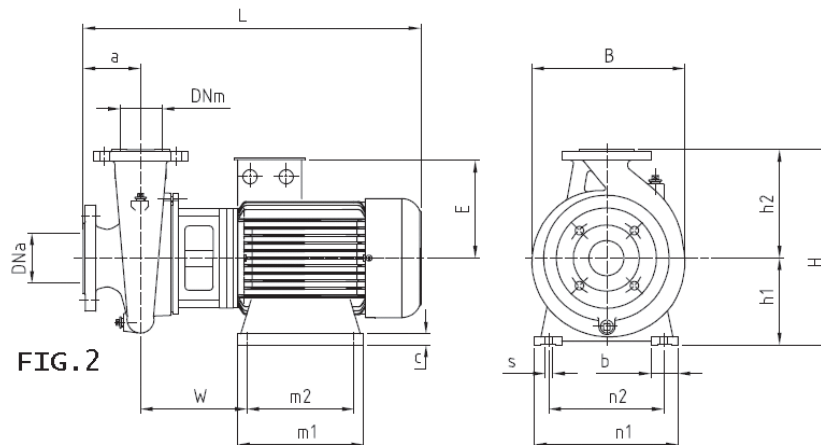
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q m.c.a. / m.w.c.	L/min	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500	5000
	HP	kW				m³/h	60	75	90	105	120	135	150	165	180	210	240	270	300
NRM2 125x100x200D	30	22	400/690	38.6					39	38	37	36	34.5	33	31.5	28	24		

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
100	158	180	220	8	18
125	188	210	250	8	18

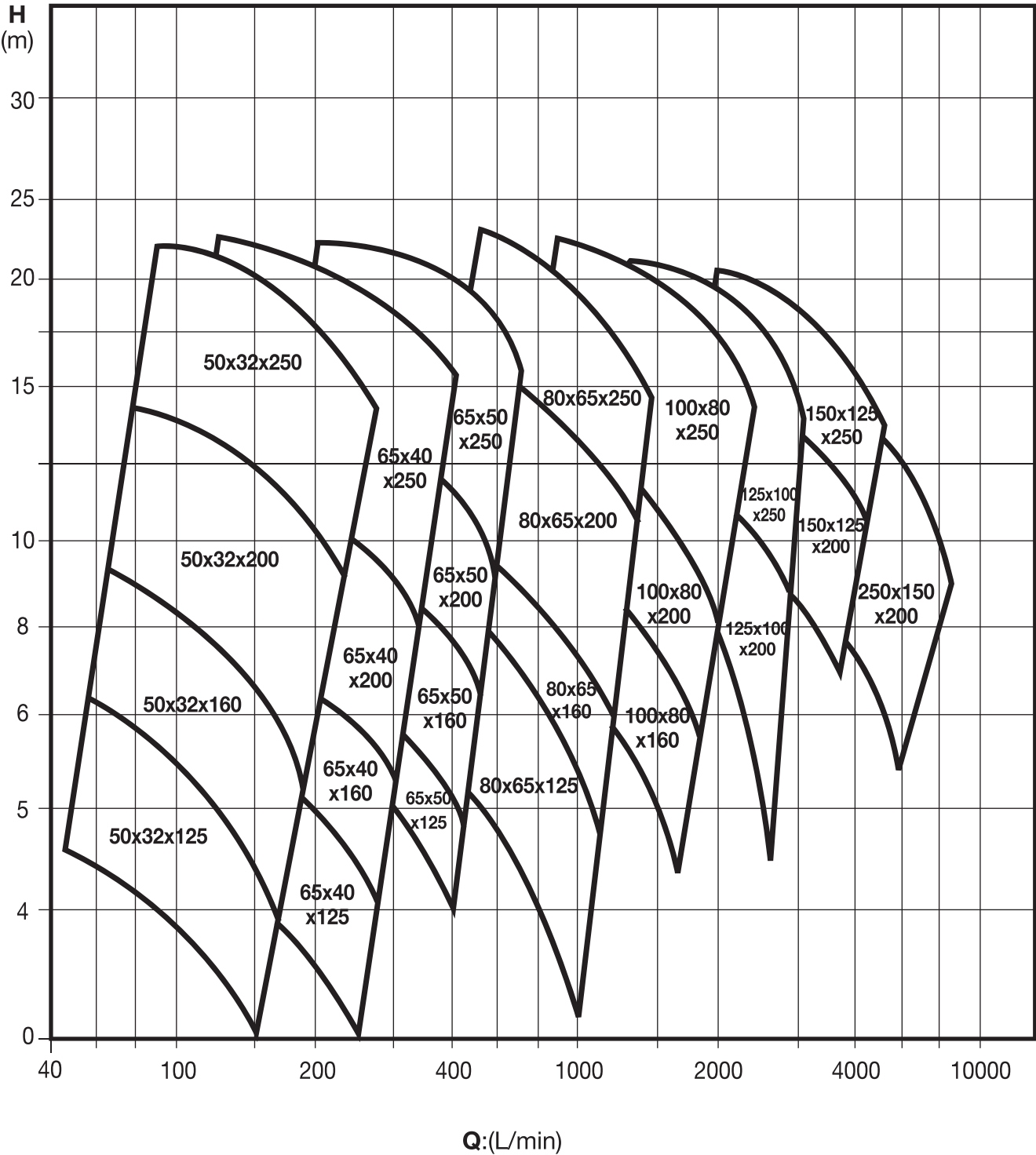


OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 125x100x200D	160	100	125	2	125	180	280	65	420	370	320	254	14	20	222	839	380	460	160

NOCCHI NRM4
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

HYDRAULIC PERFORMANCE



NOCCHI NRM4 50x32

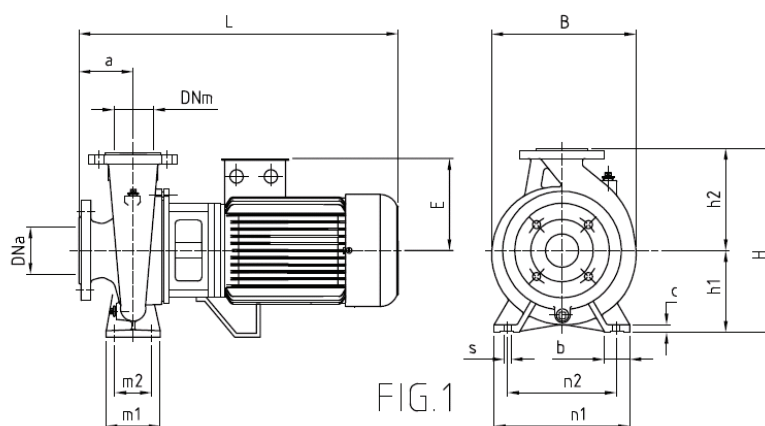
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	50	75	100	125	150	175	200	225	250	275	300
	HP	kW				m³/h	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18
NRM4 50x32x125Y	0.33	0.25	230/400	0.9	m.c.a. / m.w.c.	4.4	4	3.5	3	2.2							
NRM4 50x32x125X	0.33	0.25	230/400	0.9		6.2	6	5.8	5.2	4.5	3.9	3					
NRM4 50x32x160X	0.5	0.37	230/400	1.2		9.4	9.2	8.9	8.3	7.7	6.9	5.8	4.7				
NRM4 50x32x200Y	1	0.75	230/400	1.8		13	12.8	12.4	11.9	11.3	10.6	9.8	9	8	7	6	
NRM4 50x32x200X	1.5	1.1	230/400	2.5			14.5	14.3	13.8	13.3	12.7	11.8	10.9	10	9	8	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
32	78	100	140	4	18
50	102	125	165	4	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 50x32x125Y	71	32	50	1	80	50	12	100	70	190	140	14	112	140	252	205	405	110	19.5
NRM4 50x32x125X	71	32	50	1	80	50	12	100	70	190	140	14	112	140	252	205	405	110	19.5
NRM4 50x32x160X	71	32	50	1	80	50	12	100	70	240	190	14	132	160	292	240	405	110	23
NRM4 50x32x200Y	80	32	50	1	80	50	12	100	70	240	190	14	160	180	340	255	421	129	31.7
NRM4 50x32x200X	90	32	50	1	80	50	12	100	70	240	190	14	160	180	340	255	456	138	36.8

NOCCHI NRM4 65x40

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	100	125	150	175	200	225	250	275	300	350	400
	HP	kW				m³/h	6	7.5	9	10.5	12	13.5	15	16.5	18	21	24
NRM4 65x40x125Y	0.33	0.25	230/400	0.9	m.c.a. / m.w.c.	4.6	4.5	4.3	4.1	3.9	3.6	3.3	2.9	2.4			
NRM4 65x40x125X	0.5	0.37	230/400	1.2		6.3	6.2	6.1	6	5.8	5.5	5.2	4.9	4.4	3		
NRM4 65x40x160X	0.75	0.55	230/400	1.7		8.8	8.6	8.3	8	7.7	7.3	6.9	6.4	5.9	4.5		
NRM4 65x40x200Y	1.5	1.1	230/400	2.5		12.7	12.5	12.1	11.7	11.2	10.7	10.1	9.3	8.5	7		
NRM4 65x40x200X	1.5	1.1	230/400	2.5		14.2	14	13.8	13.4	13	12.5	11.8	11	10.2	8.3	6	
NRM4 65x40x250Y	2	1.5	230/400	3.4		18.3	18	17.7	17.4	17	16.6	16.2	15.6	15	13.7	12	
NRM4 65x40x250X	3	2.2	230/400	5.1		22.5	22.3	22	21.7	21.4	21	20.5	20	19.5	18.5	17	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
40	88	110	150	4	18
65	122	145	185	4	18

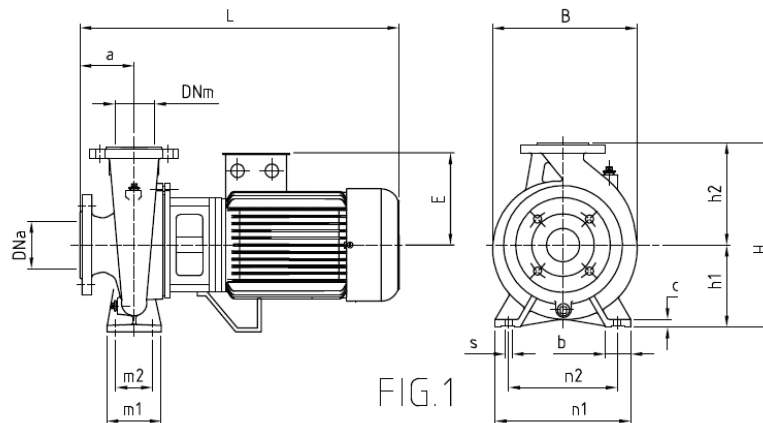


FIG.1

OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)														Weight (kg)	
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~		E ~
NRM4 65x40x125Y	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	20.5
NRM4 65x40x125X	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	21.5
NRM4 65x40x160X	71	40	65	1	80	50	12	100	70	240	190	14	132	160	292	230	405	110	25
NRM4 65x40x200Y	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	285	476	138	39.9
NRM4 65x40x200X	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	242	476	138	39.9
NRM4 65x40x250Y	90	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	476	138	49.4
NRM4 65x40x250X	100	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	415	145	56.9

NOCCHI NRM4 65x50

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In [A] 3X440	Q	L/min	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700
	HP	kW				m³/h	9	10.5	12	13.5	15	16.5	18	21	24	27	30	33	36	39	42
NRM4 65x50x125Y	0.5	0.37	230/400	1.2	m.c.a. / m.w.c.	5.3	5.3	5.2	5.1	5	4.9	4.8	4.5	4.1	3.6	3					
NRM4 65x50x125X	0.75	0.55	230/400	1.7		6.4	6.3	6.2	6.1	6	5.9	5.8	5.5	5.2	4.9	4.4					
NRM4 65x50x160Y	1	0.75	230/400	1.8				8.2	8	7.9	7.8	7.7	7.4	7.1	6.6	5.8	5	4			
NRM4 65x50x160X	1.5	1.1	230/400	2.5				9	8.9	8.8	8.7	8.6	8.4	8.1	7.7	7.2	6.5	5.5			
NRM4 65x50x200Y	1.5	1.1	230/400	2.5				12.4	12.2	12	11.8	11.5	10.8	10	9	8	7	5.8			
NRM4 65x50x200X	2	1.5	230/400	3.4				14.3	14.2	14.1	14	13.7	13	12.3	11.3	10.2	9.1	7.8	6.4	5	
NRM4 65x50x250Y	3	2.2	230/400	5.1				18.5	18.3	18.1	17.8	17.5	17	16.2	15.5	14.5	13.5	12.5	11.2	10	
NRM4 65x50x250X	4	3	230/400	6.5				22.5	22.4	22.3	22.2	22	21.5	20.9	20.2	19.4	18.5	17.5	16.3	15	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
50	102	125	165	4	18
65	122	145	185	4	18

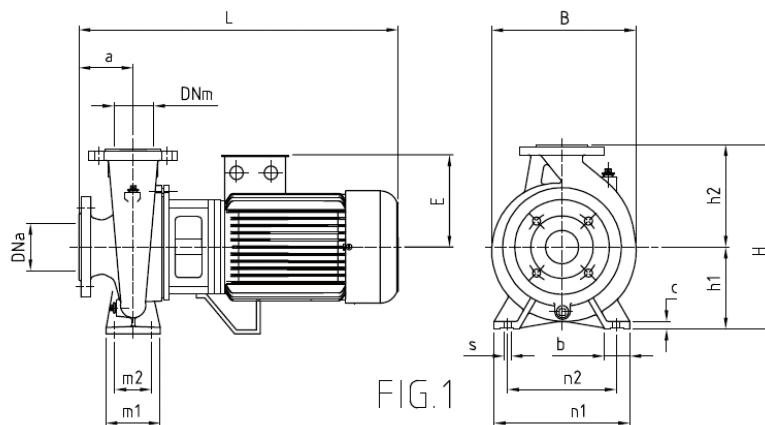


FIG.1

OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 65x50x125Y	71	50	65	1	100	50	12	100	70	240	190	14	132	160	292	246	425	110	25
NRM4 65x50x125X	71	50	65	1	100	50	12	100	70	240	190	14	132	160	292	246	425	110	26
NRM4 65x50x160Y	80	50	65	1	100	50	12	100	70	265	212	14	160	180	340	269	441	129	33.7
NRM4 65x50x160X	90	50	65	1	100	50	12	100	70	265	212	14	160	180	340	269	476	138	38.8
NRM4 65x50x200Y	90	50	65	1	100	50	12	100	70	265	250	14	160	200	360	285	476	138	41.9
NRM4 65x50x200X	90	50	65	1	100	50	12	100	70	265	212	14	160	200	360	285	476	138	41.9
NRM4 65x50x250Y	100	50	65	1	100	65	14	125	95	320	250	14	180	225	405	333	415	145	59.9
NRM4 65x50x250X	100	50	65	1	100	65	14	125	95	320	250	14	180	225	405	333	515	145	67

NOCCHI NRM4 80x65

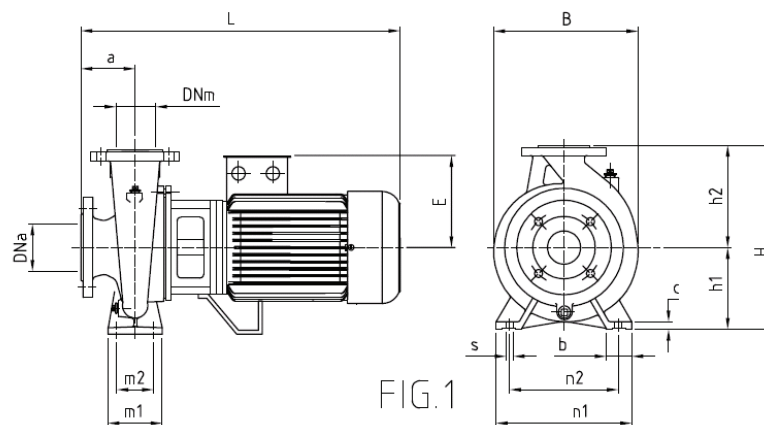
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400
	HP	kW				m³/h	18	21	24	27	30	33	36	42	48	54	60	66	72	78	84
NRM4 80x65x125X	1	0.75	230/400	1.8	m.c.a. / m.w.c.	5.8	5.7	5.6	5.5	5.3	5.1	4.9	4.5	4							
NRM4 80x65x160Y	1.5	1.1	230/400	2.5		8.6	8.5	8.4	8.3	8.2	8.1	8	7.5	6.8	6	5					
NRM4 80x65x160X	2	1.5	230/400	3.4		10.2	10.1	10	9.9	9.8	9.6	9.4	9	8.5	7.7						
NRM4 80x65x200Y	3	2.2	230/400	5.1				12.5	12.4	12.3	12.2	12.1	11.7	11.1	10.5	9.6	8.5				
NRM4 80x65x200X	4	3	230/400	6.5						15.2	15.1	15	14.6	14.3	13.6	12.8	12	11			
NRM4 80x65x250Y	5.5	4	230/400	8.5						19.5	19.3	19.1	18.4	17.5	16.5	15.5	14	12.5	10.5		
NRM4 80x65x250Y			400/690	8.5																	
NRM4 80x65x250X	7.5	5.5	230/400	10.8						23	22.8	22.6	22.2	21.4	20.6	19.7	18.7	17.5	16	14	
NRM4 80x65x250X			400/690	10.8																	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)															Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 65x40x125Y	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	20.5
NRM4 65x40x125X	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	21.5
NRM4 65x40x160X	71	40	65	1	80	50	12	100	70	240	190	14	132	160	292	230	405	110	25
NRM4 65x40x200Y	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	285	476	138	39.9
NRM4 65x40x200X	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	242	476	138	39.9
NRM4 65x40x250Y	90	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	476	138	49.4
NRM4 65x40x250X	100	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	415	145	56.9

NOCCHI NRM4 100x80

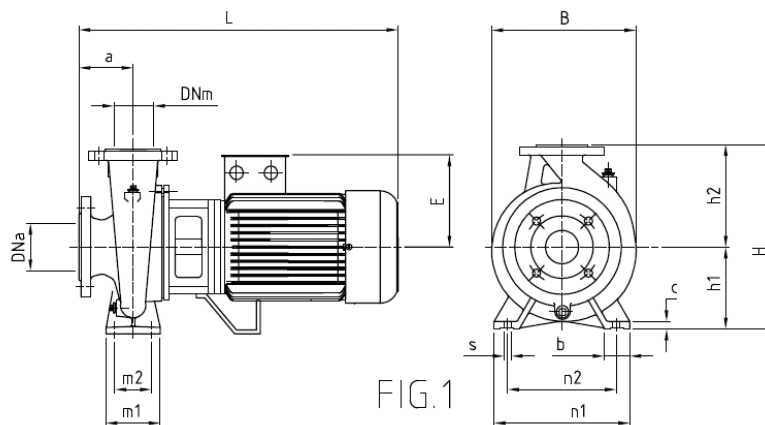
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250
	HP	kW				m³/h	36	39	42	48	54	60	66	72	78	84	90	105	120	135
NRM4 100x80x160Y	2	1.5	230/400	3.4	m.c.a. / m.w.c.	7.7	7.6	7.5	7.3	7	6.7	6.4	6.1	5.8	5.4	5				
NRM4 100x80x160X	3	2.2	230/400	5.1		9.7	9.6	9.5	9.3	9	8.8	8.5	8.2	7.9	7.5	7.1	6			
NRM4 100x80x200Y	4	3	230/400	6.5		12	11.9	11.8	11.5	11.3	11	10.5	10	9.5	9	8.5	7			
NRM4 100x80x200X	5.5	4	230/400	8.5		14.5	14.4	14.2	14	13.8	13.5	13.1	12.7	12.2	11.6	11	9	6.5		
NRM4 100x80x200X			400/690	8.5																
NRM4 100x80x250Y	7.5	5.5	230/400	10.8						19	18.5	18	17.5	17	16.5	16	14	12		
NRM4 100x80x250Y			400/690	10.8																
NRM4 100x80x250X	10	7.5	230/400	14.4						22	21.9	21.7	21.2	20.8	20.5	20	18.5	16.8	14.5	
NRM4 100x80x250X			400/690	14.4																

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
80	138	160	200	8	18
100	158	180	220	8	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)														Weight (kg)	
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~		E ~
NRM4 100x80x160Y	90	80	100	1	125	65	14	125	95	320	250	14	180	225	405	330	501	138	46.9
NRM4 100x80x160X	100	80	100	1	125	65	14	125	95	320	250	14	180	225	405	330	440	145	53.9
NRM4 100x80x200Y	100	80	100	1	125	65	12	125	95	345	280	14	180	250	430	355	552	145	70
NRM4 100x80x200X	112	80	100	1	125	65	12	125	95	345	280	14	180	250	430	355	574	160	81.9
NRM4 100x80x250Y	132	80	100	1	125	80	14	160	120	400	315	18	200	280	480	400	631	194	113.1
NRM4 100x80x250X	132	80	100	1	125	80	14	160	120	400	315	18	200	280	480	400	671	194	127

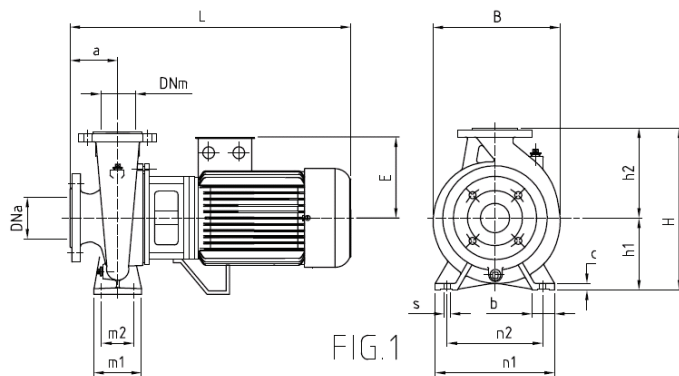
NOCCHI NRM4 125x100

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

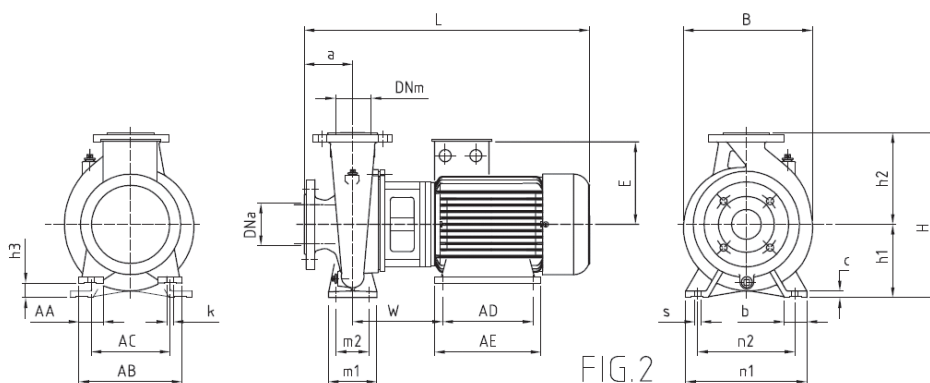
PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000
	HP	kW				m³/h	54	60	66	72	78	84	90	105	120	135	150	165	180
NRM4 125x100x200Y	5.5	4	230/400	8.5	m.c.a./m.w.c.	12.4	12.2	12	11.8	11.6	11.4	11.2	10.3	9.3	8.2	6.8	4.8		
NRM4 125x100x200Y			400/690	8.5															
NRM4 125x100x200X	7.5	5.5	230/400	10.8		14.5	14.4	14.2	14	13.8	13.6	13.4	12.8	12	11	10	8.5		
NRM4 125x100x200X			400/690	10.8															
NRM4 125x100x250Y	10	7.5	230/400	14.4			19.5	19.3	19.1	18.9	18.7	18.5	17.5	16.5	15.2	14	12		
NRM4 125x100x250Y			400/690	14.4															
NRM4 125x100x250X	15	11	230/400	22			22	21.9	21.8	21.7	21.6	21.3	20.5	19.6	18.5	17	15	13	
NRM4 125x100x250X			400/690	22															

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)																							Weight (kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	h3	H	AA	AB	AC	AD	AE	k	W	B	L ~	E ~	
NRM4 125x100x200Y	112	100	125	1	125	80	14	160	120	360	280	18	200	280	-	480	-	-	-	-	-	-	-	385	574	160	79.9
NRM4 125x100x200X	132	100	125	1	125	80	14	160	120	360	280	18	200	280	-	480	-	-	-	-	-	-	-	385	631	194	107.1
NRM4 125x100x250Y	132	100	125	1	140	80	14	160	120	400	315	18	225	280	-	505	-	-	-	-	-	-	-	420	686	194	126
NRM4 125x100x250X	160	100	125	2	140	80	14	160	120	400	315	18	225	280	65	505	76	320	254	210	270	14	191	420	779	238	161

NOCCHI NRM4 150x125

STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	1800	2000	2500	3000	3500	4000	4500	5000
	HP	kW				m³/h	108	120	150	180	210	240	270	300
NRM4 150x125x200W	7.5	5.5	400/690	10.8	m.c.a. / m.w.c.	10.4	10.2	9.4	8.3	6.8				
NRM4 150x125x200Z	10	7.5	400/690	14.4		11.6	11.5	10.9	9.9	8.6	7			
NRM4 150x125x200Y	10	7.5	400/690	14.4		13	12.8	12.3	11.6	10.5	9.1	7.5		
NRM4 150x125x200X	15	11	400/690	22		14.3	14.2	13.8	13.2	12.3	11.1	9.6	8	
NRM4 150x125x250Z	15	11	400/690	22		17	16.6	15.7	14.4	12.6				
NRM4 150x125x250Y	20	15	400/690	29			19.8	19	18	16.6	15			
NRM4 150x125x250X	20	15	400/690	29			20.8	19.7	18.6	17	15.2	13.2		

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18

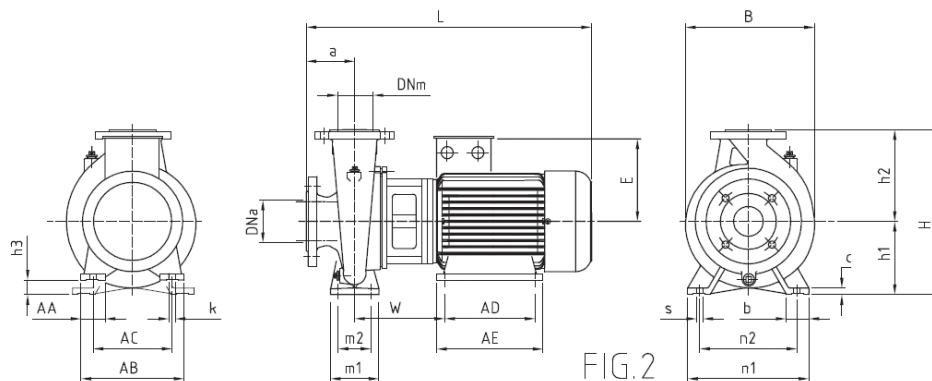


FIG.2

OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)																								Weight
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	h3	H	AA	AB	AC	AD	AE	k	W	B	L ~	E ~	(kg)	
NRM4 150x125x200W	132	125	150	2	140	80	14	160	120	400	315	18	250	280	118	565	59	256	216	140	180	12	230	470	657	194	137.1	
NRM4 150x125x200Z	132	125	150	2	140	80	14	160	120	400	315	18	250	315	118	565	59	256	216	178	218	12	241	470	697	194	148	
NRM4 150x125x200Y	132	125	150	2	140	80	14	160	120	400	315	18	250	315	118	565	59	256	216	178	218	12	241	470	697	194	155	
NRM4 150x125x200X	160	125	150	2	140	80	14	160	120	400	315	18	250	315	90	565	76	320	254	210	270	14	241	470	790	238	187	
NRM4 150x125x250Z	160	125	150	2	140	80	16	160	120	400	315	18	250	355	90	605	76	320	254	210	270	14	260	470	790	238	197.5	
NRM4 150x125x250Y	160	125	150	2	140	80	16	160	120	400	315	18	250	355	90	605	76	320	254	254	310	14	260	470	854	238	205	
NRM4 150x125x250X	160	125	150	2	140	80	16	160	120	400	315	18	250	355	90	605	76	320	254	254	310	14	280	470	854	238	205	

NOCCHI NRM4 200x150

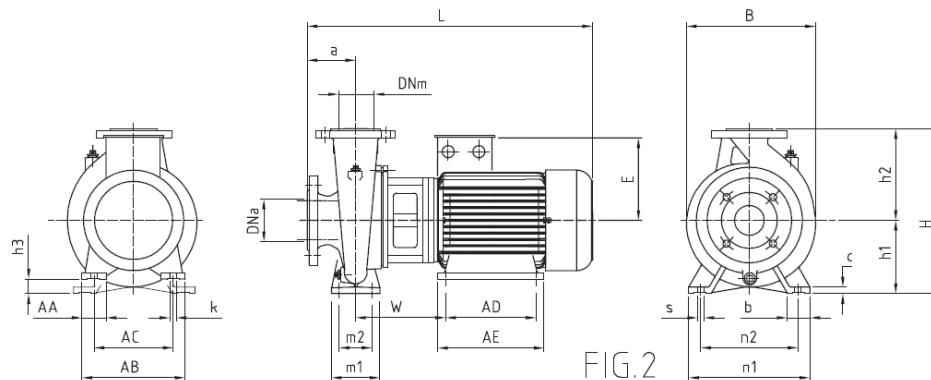
STANDARDIZED MONOBLOC CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	2500	3000	3500	4000	4500	5000	5500	6000	6500
	HP	kW				m³/h	150	180	210	240	270	300	330	360	390
NRM4 200x150x200W	7.5	5.5	400/690	14.4	m.c.a. / m.w.c.	10.4	9.7	8.9	7.9	6.7	5.5				
NRM4 200x150x200Z	15	11	400/690	22		11.5	10.9	10.2	9.3	8.3	7	5.8			
NRM4 200x150x200Y	15	11	400/690	22			13.3	12.6	12	11.1	10.1	9	7.6		
NRM4 200x150x200X	20	15	400/690	29			14.5	14	13.2	12.5	11.6	10.6	9.4	8	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions (mm)																				Weight			
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	h3	H	AA	AB	AC	AD	AE	k	W	B	L ~	E ~	(kg)
NRM4 200x150x200W	132	150	200	2	160	100	22	200	155	550	450	24	280	400	148	680	59	256	216	178	218	12	280	550	717	194	181
NRM4 200x150x200Z	160	150	200	2	160	100	22	200	155	550	450	24	280	400	120	680	76	320	254	210	270	14	241	550	810	238	210.5
NRM4 200x150x200Y	160	150	200	2	160	100	22	200	155	550	450	24	280	400	120	680	76	320	254	210	270	14	260	550	810	238	218
NRM4 200x150x200X	160	150	200	2	160	100	22	200	155	550	450	24	280	400	120	680	76	320	254	254	310	14	260	550	874	238	220

NOCCHI NRB

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2 - 4 POLE)

RUGGED AND RESISTANT, WIDE RANGE

The electric pumps in the series NRB are single stage centrifugal on a horizontal axis, and designed in compliance with the standard EN733/DIN24255 to ensure maximum interchangeability of components. The impeller is dynamically and hydraulically balanced. The shaft is specially oversized to ensure stability and is supported by rugged ball bearings lubricated in grease.

MOTOR

- Closed, ventilated from exterior.
- Protection rating IP 55.
- Construction design B3.
- Insulation class F.
- Three phase power supply.
- Rotation speed 2850 rpm.
- Continuous duty.

APPLICATIONS

- Aqueducts
- Irrigation
- Water distribution
- Industrial applications

APPLICATION DATA

- Pumped liquid temperature:
- -10°C / +130°C.
- Flow rate up to 330 m³/h.
- Head up to 95 m.
- Max. pressure on intake: 4 bar.
- Maximum operating pressure: 10 bar.
- Operating temp.: -10°C / +130.

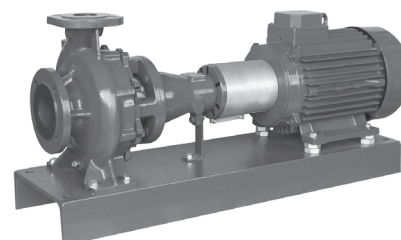


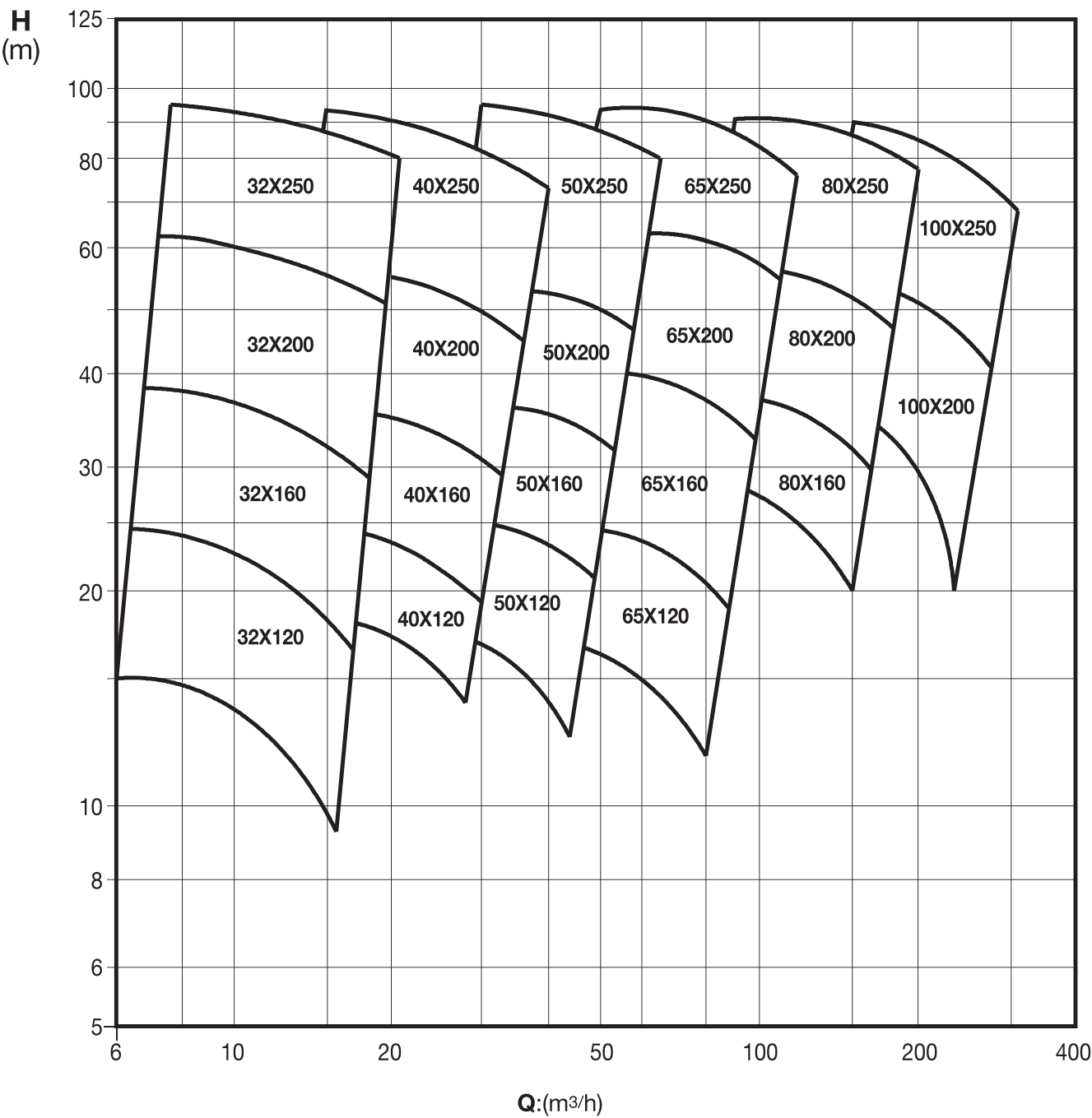
TABLE OF MATERIALS

Component	Material
Pump body	Cast iron EN GJL 200 (ex G20)
Motor bracket	Cast iron EN GJL 200 (ex G20) Bronze on request
Body cover	Cast iron EN GJL 200 (ex G20)
Pump support	Cast iron EN GJL 200 (ex G20)
Shaft	Stainless steel AISI 420
Mechanical gasket	Ceramic/Graphite/EPDM - Carbide/Carbide/EPDM (on request)

NOCCHI NRB2

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2 - 4 POLE)

HYDRAULIC PERFORMANCE



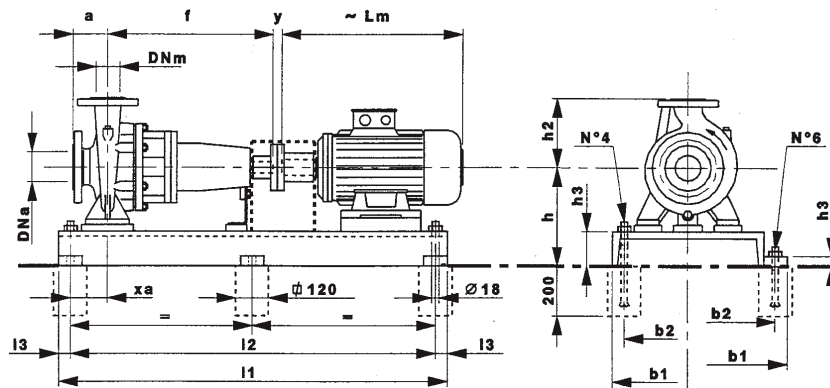
NOCCHI NRB2 32

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	100	150	225	250	300	350	400	450
	HP	kW				m³/h	6	9	13.5	15	18	21	24	27
NRB2 32x120C	1	0.75	230/400	1.7	m.c.a./m.w.c.		15.5	14.5	12	9				
NRB2 32x120B	1.5	1.1	230/400	2.3			21	20	18	15	11.5			
NRB2 32x120A	2	1.5	230/400	3			24.5	23.5	22	19.5	16.5	13		
NRB2 32x160C	3	2.2	230/400	4.3			31.5	30	28	25.5	22			
NRB2 32x160B	4	3	230/400	5.6			34.5	33.5	31.5	29	26			
NRB2 32x160A	4	3	230/400	5.6			38	36.5	35	32.5	30	26.5		
NRB2 32X200C	5.5	4	230/400	7.1			47.5	46.5	44.5	42.5	39	35		
NRB2 32X200B	7.5	5.5	400	9.9			56	55	53.5	51.5	49.5	46	42	37
NRB2 32X200A	10	7.5	400	13.7			61	60.5	59	57.5	55	52.5	49	45

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNM	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB2 32x120A	90 S2	302	16	32	50	80	360	140	240	170	850	800	25	197	85	100	65
NRB2 32x120B	80 B2	280	16	32	50	80	360	140	240	170	850	800	25	197	85	100	63
NRB2 32x120C	80 A2	280	16	32	50	80	360	140	240	170	850	800	25	197	85	100	61
NRB2 32x160A	100 L2	369	22	32	50	80	360	140	240	170	850	800	25	217	85	100	80
NRB2 32x160B	90 L2	369	22	32	50	80	360	140	240	170	850	800	25	217	85	100	80
NRB2 32X160C	90 L2	327	16	32	50	80	360	140	240	170	850	800	25	217	85	100	74
NRB2 32X200A	112 MC2	386	22	32	50	80	360	140	240	170	850	800	25	245	85	100	98
NRB2 32X200B	112 MB2	386	22	32	50	80	360	140	240	170	850	800	25	245	85	100	95
NRB2 32X200C	112 M2	386	22	32	50	80	360	140	240	170	850	800	25	245	85	100	95

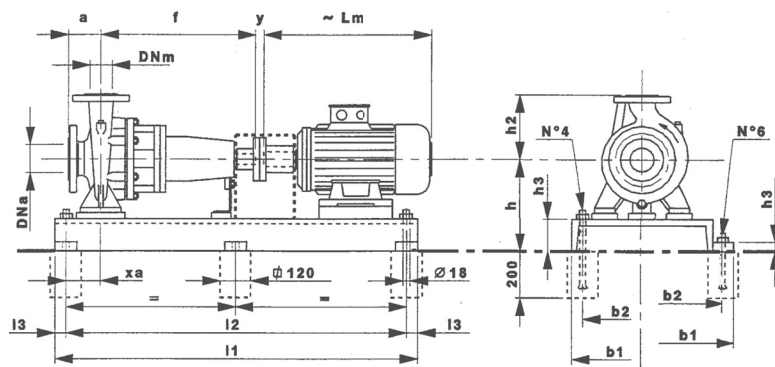
NOCCHI NRB2 40

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	200	250	300	350	400	450	500	550	600	650	700	750
	HP	kW				m³/h	12	15	18	21	24	27	30	33	36	39	42	45
NRB2 40x120C	2	1.5	230/400	3	m.c.a./m.w.c.	18	17.5	17	15.5	14								
NRB2 40x120B	3	2.2	230/400	4.3		21.5	21	20.5	20	19	17.5	15.5						
NRB2 40x120A	4	3	230/400	5.6		25	24.5	24	23.5	23	22	20.5	18.5					
NRB2 40x160C	4	3	230/400	5.6		31	30	29	28	26.5	25	22.5	19.5					
NRB2 40x160B	5.5	4	230/400	7.1		34	33	32	31	30	28.5	26.5	24.5	21.5				
NRB2 40x160A	5.5	4	230/400	7.1		37	36.5	35.5	34.5	33.5	32.5	31	29	26.5				
NRB2 40X200C	7.5	5.5	400	9.9		43.5	43	42	40	38	36	33	29	24				
NRB2 40X200B	10	7.5	400	13.7		52	51	50	49	47	45	43	40	37	33	28		
NRB2 40X200A	15	11	400	19.4		57	56.5	55.5	54	53	51	49	47	44	41	37		
NRB2 40X250C	15	11	400	19.4		73	72	71	70	67.5	65	62	57	51	44			
NRB2 40X250B	20	15	400	26.1		82.5	82	81	80	79	77	75	72	68	63	56		
NRB2 40X250A	25	18.5	400	31.7		93	92.5	92	91	90	88	86	84	81	77	72	67	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB2 40x120A	100 L2	369	22	40	65	80	360	140	240	170	850	800	25	197	85	100	75
NRB2 40x120B	90 L2	327	16	40	65	80	360	140	240	170	850	800	25	197	85	100	69
NRB2 40x120C	90 S2	302	16	40	65	80	360	140	240	170	850	800	25	197	85	100	67
NRB2 40x160A	112 M2	386	22	40	65	80	360	160	240	170	850	800	25	217	85	100	91
NRB2 40x160B	112 M2	386	22	40	65	80	360	160	240	170	850	800	25	217	85	100	91
NRB2 40x160C	100 L2	369	22	40	65	80	360	160	240	170	850	800	25	217	85	100	81
NRB2 40X200A	132 MB2	498	24	40	65	100	360	180	280	210	950	900	25	255	95	100	128
NRB2 40X200B	112 MC2	386	22	40	65	100	360	180	280	210	950	900	25	255	95	100	112
NRB2 40X200C	112 MC2	386	22	40	65	100	360	180	280	210	950	900	25	255	95	100	109
NRB2 40X250A	160 L2	645	24	40	65	100	360	225	350	280	1120	1070	25	280	100	100	282
NRB2 40X250B	132 MD2	498	24	40	65	100	360	225	350	280	950	900	25	280	100	100	173
NRB2 40X250C	132 MD2	498	24	40	65	100	360	225	350	280	950	900	25	280	100	100	165

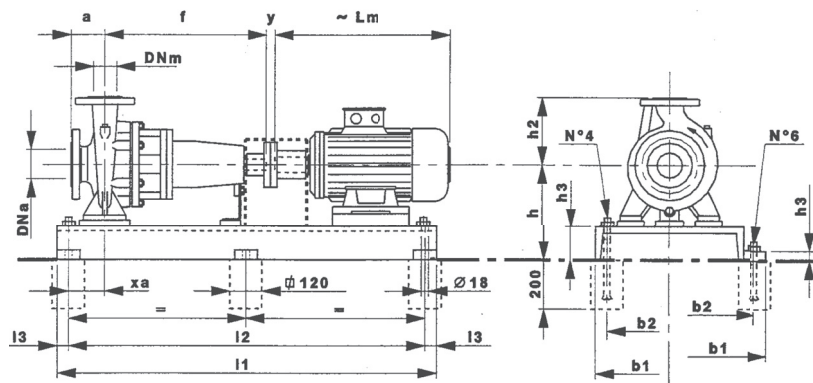
NOCCHI NRB2 50

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	400	450	500	600	700	800	900	1000	1100	1200	1300
	HP	kW				m³/h	24	27	30	36	42	48	54	60	66	72	78
NRB2 50x120C	3	2.2	230/400	4.3	m.c.a. / m.w.c.	18	17.5	17	15.5	13.5							
NRB2 50x120B	4	3	230/400	5.6		22	21.5	21	20	18.6	16.5						
NRB2 50x120A	5.5	4	230/400	7.1		25.5	25.2	24.9	24	23	21.5	19.5	17.5				
NRB2 50x160C	5.5	4	230/400	7.1		27.5	27	26.5	25.5	23.5	21						
NRB2 50x160B	7.5	5.5	400	9.9		33	32.5	32	31	29.5	27.5	25.5	22				
NRB2 50x160A	10	7.5	400	13.7		37	36.5	36	35	34	32.5	31	29	26			
NRB2 50X200C	10	7.5	400	13.7		47	46.5	45	43	40	36	31.5					
NRB2 50X200B	15	11	400	19.4		52.5	52	51.5	49.5	46.5	43.5	39.5	35				
NRB2 50X200A	15	11	400	19.4		57.5	57	56.5	55	53	50	46.5	43				
NRB2 50X250D	20	15	400	26.1			70	69.5	67.5	65	61.5	57.5	51				
NRB2 50X250C	25	18.5	400	31.7			77	76.5	75	72.5	69.5	66	61.5	55.5			
NRB2 50X250B	30	22	400	37.8			88	87.5	86	84	82	78.5	74.5	69			
NRB2 50x250A	40	30	400	50.7			94.5	94	93	91.5	89.5	86.5	83.5	80	75.5	70	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y			a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB2 50x120A	112 M2	386	22	50	65	100	360	160	240	170	850	800	25	217	85	100	90
NRB2 50x120B	100 L2	369	22	50	65	100	360	160	240	170	850	800	25	217	85	100	80
NRB2 50x120C	90 L2	327	16	50	65	100	360	160	240	170	850	800	25	217	85	100	74
NRB2 50x160A	112 MC2	386	22	50	65	100	360	180	280	210	950	900	25	255	95	100	108
NRB2 50x160B	112 MB2	386	22	50	65	100	360	180	280	210	950	900	25	255	95	100	105
NRB2 50x160C	112 M2	386	22	50	65	100	360	180	280	210	950	900	25	255	95	100	105
NRB2 50X200A	132 MC2	498	24	50	65	100	360	200	280	210	950	900	25	255	95	100	134
NRB2 50X200B	132 MB2	498	24	50	65	100	360	200	280	210	950	900	25	255	95	100	129
NRB2 50X200C	100 L2	386	22	50	65	100	360	200	280	210	950	900	25	255	95	100	113
NRB2 50X250A	112 MC2	775	28	50	65	100	360	225	400	330	1320	1270	25	310	110	100	394
NRB2 50X250B	200 LA2	670	28	50	65	100	360	225	400	330	1120	1070	25	290	110	100	316
NRB2 50X250C	180 M2	645	24	50	65	100	360	225	350	280	1120	1070	25	280	100	100	283
NRB2 50x250D	160 L2	498	24	50	65	100	360	225	350	280	950	900	25	280	100	100	185

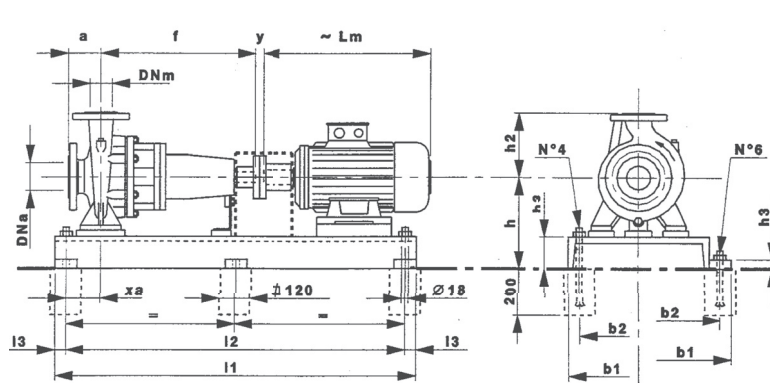
NOCCHI NRB2 65

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2250
	HP	kW				m³/h	36	42	48	54	60	66	72	78	84	90	96	108	120	135
NRB2 65x120C	5.5	4	230/400	7.1	m.c.a. / m.w.c.	18	17.6	17.2	16.6	15.8	15	14	12.5							
NRB2 65x120B	7.5	5.5	400	9.9		21.4	21.1	20.5	20.3	19.8	19.2	18.4	17.5	16.4						
NRB2 65x120A	10	7.5	400	13.7			23.6	23.4	23	22.6	22	21.5	20.7	20	19	17.6				
NRB2 65x160C	15	11	400	19.4			30.8	30	28.5	27.5	26.5	25.5	24.5	22.5	21					
NRB2 65x160B	15	11	400	19.4			33.8	33	32.5	32	31.5	30.5	29.5	28.5	27	25.5	22.5			
NRB2 65x160A	20	15	400	26.1			40.8	40	39.5	39	38.5	38	37.5	36.5	35.5	34.5	32	29		
NRB2 65x200C	25	18.5	400	31.7				51	50.6	50.4	50.2	50.1	49.7	48.6	47.5	46	43	39		
NRB2 65x200B	30	22	400	37.8				57.5	57	56.6	56.5	56.3	56	55.5	54.5	53.5	50.5	47.5	42.5	
NRB2 65x200A	40	30	400	50.7				62	61.7	61.5	61.3	61.1	61	60.5	60	59	57.5	55	50	
NRB2 65x250C	40	30	400	50.7				72	71.5	71	70	68.5	67	65	63.3	61.2	57			
NRB2 65x250B	50	37	400	62.4				82.5	82	81.5	80.5	79.5	78.5	77	75.5	70	70	65.5	59.5	
NRB2 65x250A	60	45	400	75.9					92.5	92	91.5	91	90	89	88	87	86	82	78	72.5

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB2 65x120A	112 MC2	386	22	65	80	100	360	180	280	210	950	900	25	255	95	100	106
NRB2 65x120B	112 MB2	386	22	65	80	100	360	180	280	210	950	900	25	255	95	100	106
NRB2 65x120C	112 M2	386	22	65	80	100	360	180	280	210	950	900	25	255	95	100	106
NRB2 65x160A	132 MD2	498	24	65	80	100	360	200	280	210	950	900	25	255	95	100	142
NRB2 65x160B	132MC2	498	24	65	80	100	360	200	280	210	950	900	25	255	95	100	134
NRB2 65x160C	132 MB2	498	24	65	80	100	360	200	280	210	950	900	25	255	95	100	129
NRB2 65x200A	200 LA2	775	28	65	80	100	360	225	400	330	1320	1270	25	310	110	100	388
NRB2 65x200B	180 M2	670	28	65	80	100	360	225	400	330	1120	1070	25	290	110	100	310
NRB2 65x200C	160 L2	815	24	65	80	100	360	225	350	280	1120	1070	25	280	100	100	277
NRB2 65x250A	225 M2	775	33	65	80	100	470	250	580	540	1400	1300	50	335	20	100	543
NRB2 65x250B	200 LB2	815	28	65	80	100	470	250	400	330	1320	1270	25	310	110	125	419
NRB2 65x250C	200 LA2	775	28	65	80	100	470	250	400	330	1320	1270	25	310	110	125	399

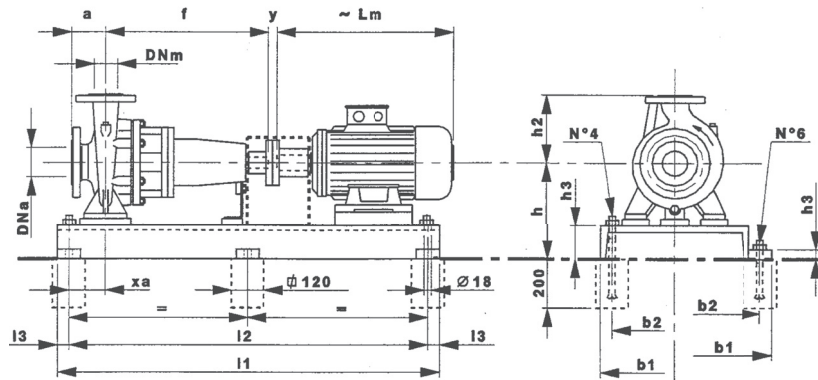
NOCCHI NRB2 80

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	1200	1300	1400	1500	1600	1800	2000	2250	2500	2750	3000	3250	3500	4000
	HP	kW				m³/h	72	78	84	90	96	108	120	135	150	165	180	195	210	240
NRB2 80x160C	15	11	400	19.4	m.c.a. / m.w.c.	28.5	28	27.5	27	26.5	26	24.8	22.5	20						
NRB2 80x160B	20	15	400	26.1		33.6	33.5	33.4	33	32.5	32	31	29.5	28	24.5	23				
NRB2 80x160A	25	18.5	400	31.7		38	37.8	37.6	37.2	36.8	36.5	35.5	34.5	33	31.5	29	27			
NRB2 80x200C	30	22	400	37.8		44.6	44.5	44	43.5	43	42	40.5	38.5	36.5	33.5	31				
NRB2 80x200B	40	30	400	50.7		53	52.5	52	51.5	51	50.5	49.5	48	46	44	41.5	38.5			
NRB2 80x200A	50	37	400	62.4		58.5	58	57.5	57	56.5	56	55.5	54	52.5	50.5	48.5	46	43.5		
NRB2 80x250D	50	37	400	62.4					68	67.5	66.5	65	62.5	60	56	51				
NRB2 80x250C	60	45	400	75.9					74.6	74.5	73.5	72.5	70.5	68	65	61.5	57.5	53		
NRB2 80x250B	75	55	400	92					84	83.5	83	82	81	78.5	76	73.5	70	66		
NRB2 80x250A	100	75	400	127					90.5	90	89.5	89	87.5	86	84	81.5	78.5	75	66	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB2 80x160A	160 L2	645	24	80	100	125	360	350	280	210	1120	1070	25	280	100	100	278
NRB2 80x160B	132 MD2	498	24	80	100	125	360	350	280	210	950	900	25	280	100	100	180
NRB2 80x160C	132 MC2	498	24	80	100	125	360	350	280	210	950	900	25	280	100	100	172
NRB2 80x200A	200 LB2	775	28	80	100	125	470	400	330	210	1320	1270	25	310	110	100	424
NRB2 80x200B	200 LA2	775	28	80	100	125	470	400	330	210	1320	1270	25	310	110	100	404
NRB2 80x200C	180 M2	670	28	80	100	125	470	400	330	210	1320	1270	25	290	110	100	341
NRB2 80x250A	280 S2	1000	33	80	100	125	470	660	620	330	1600	1500	50	415	20	100	833
NRB2 80x250B	250 L2	930	33	80	100	125	470	660	620	330	1600	1500	50	390	20	100	683
NRB2 80x250C	225 M2	815	33	80	100	125	470	580	54	280	1400	1300	50	335	20	100	553
NRB2 80x250D	200 LB2	775	28	80	100	125	470	330	330	540	1320	1320	25	310	110	125	5429

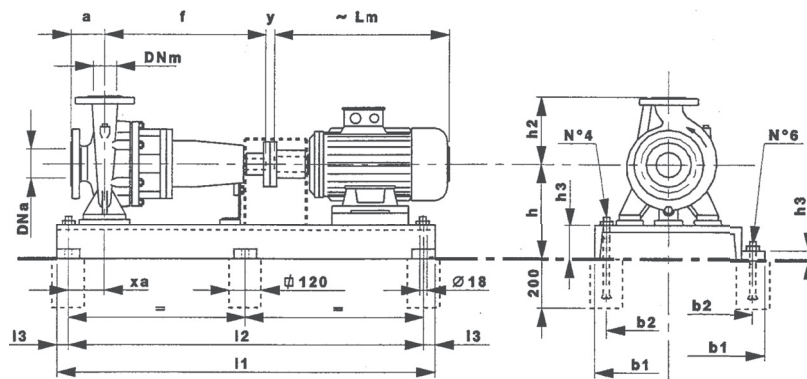
NOCCHI NRB2 100

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	2000	2250	2500	2750	3000	3250	3500	4000	4500	5000	5500
	HP	kW				m³/h	120	135	150	165	180	195	210	240	270	300	330
NRB2 100x200D	30	22	400	37.8	m.c.a. / m.w.c.	37.5	36.5	35	33.5	31.5	29	27	20.5				
NRB2 100x200C	40	30	400	50.7		45	44.5	43.5	42.5	41	39.5	37.5	33	27			
NRB2 100x200B	50	37	400	62.4		50.5	50	49.5	48.5	47.5	46.5	45	41.5	36.5	31		
NRB2 100x200A	60	45	400	75.9		55.5	55	54.5	54	53	52	51	48	43.5	38		
NRB2 100x250D	60	45	400	75.9		66.5	66	65	63.5	61.5	58.5	56	49.5				
NRB2 100x250C	75	55	400	92		73	72.5	72	71	69.5	68	66	61	53.5			
NRB2 100x250B	100	75	400	127		83	82.8	82.5	82	81	79.5	78	74	70	63	55	
NRB2 100x250A	125	90	400	152		89.5	89.3	89	88.2	87.5	86.5	85.5	82.5	78	73	65	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



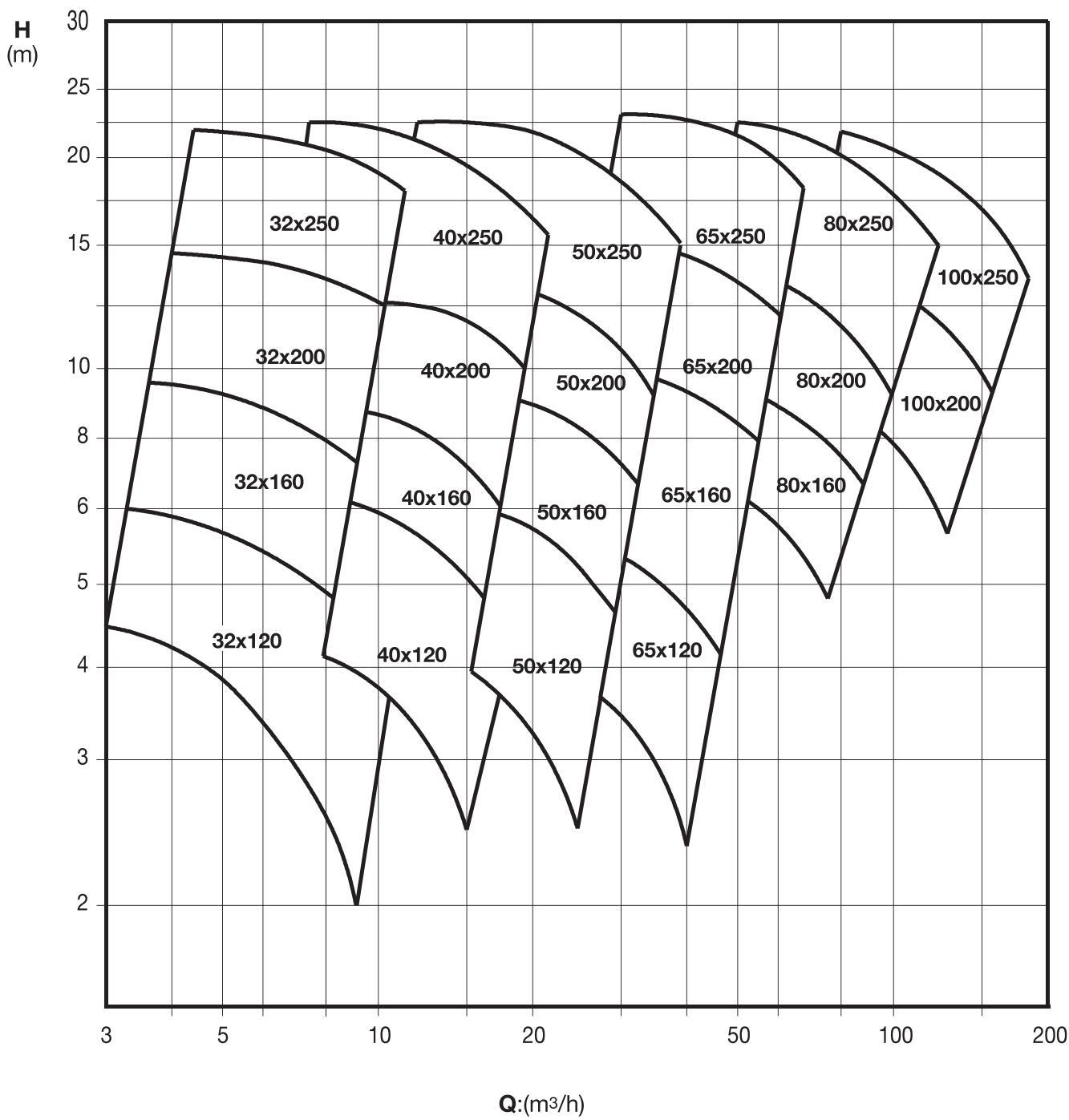
OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB2 100x200A	225 M2	815	33	100	125	125	470	280	580	540	1400	1300	50	355	20	100	550
NRB2 100x200B	200 LB2	775	28	100	125	125	470	280	400	330	1320	1270	25	310	110	125	426
NRB2 100x200C	200 LA2	775	28	100	125	125	470	280	400	330	1320	1270	25	310	110	125	406
NRB2 100X200D	180 M2	670	28	100	125	125	470	280	400	330	1320	1270	25	310	110	125	365
NRB2 100x250A	280 M2	1050	33	100	125	140	470	280	660	620	1600	1500	50	415	20	100	883
NRB2 100X250B	280 S2	1000	33	100	125	140	470	280	660	620	1600	1500	50	415	20	100	837
NRB2 100X250C	250 M2	930	33	100	125	140	470	280	660	620	1600	1500	50	390	20	100	695
NRB2 100X250D	225 M2	815	33	100	125	140	470	280	580	540	1400	1300	50	355	20	100	557

NOCCHI NRB4

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

HYDRAULIC PERFORMANCE



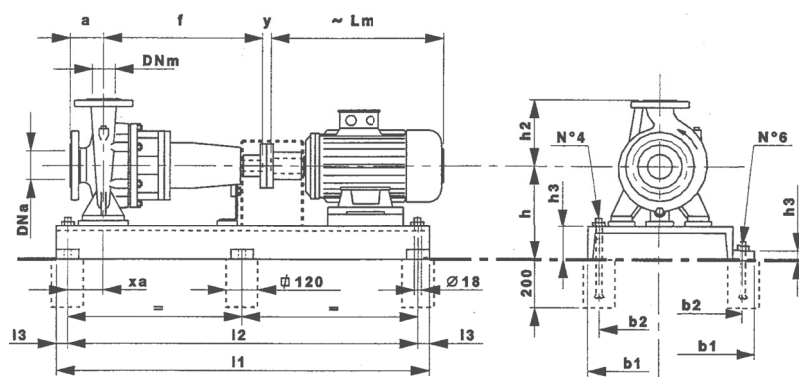
NOCCHI NRB4 32

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	50	75	100	125	150	175	200	225	250
	HP	kW				m³/h	3	4.5	6	7.5	9	11	12	14	15
NRB4 32x120C	0.33	0.25	230/400	0.9	m.c.a./m.w.c.	4.5	4.3	3.8	3	2.1					
NRB4 32x120B	0.33	0.25	230/400	0.9		5.4	5.2	4.8	4.2	3.4	2.5				
NRB4 32x120A	0.33	0.25	230/400	0.9		6.2	6	5.8	5.3	4.6	3.8	2.9			
NRB4 32x160C	0.33	0.25	230/400	0.9		7.8	7.6	7.2	6.5	5.6	4.6				
NRB4 32x160B	0.5	0.37	230/400	1.2		8.6	7.9	8	7.5	6.7	5.7	4.6			
NRB4 32x160A	0.5	0.37	230/400	1.2		9.4	9.2	8.9	8.4	7.7	6.8	5.8			
NRB4 32x200C	0.75	0.55	230/400	1.2			11.2	10.8	10.2	9.5	8.6	7.5	6.5		
NRB4 32x200B	1	0.75	230/400	1.7			13.2	13	12.5	11.8	11.1	10.3	9.2	8.2	
NRB4 32x200A	1.5	1.1	230/400	2.5			14.5	14.2	13.8	13.3	12.6	11.8	10.9	10	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y			a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB4 32x120A	71 A4	244	16	32	50	80	360	140	240	170	850	800	25	197	85	100	59
NRB4 32x120B	71 A4	244	16	32	50	80	360	140	240	170	850	800	25	197	85	100	59
NRB4 32x120C	71 A4	244	16	32	50	80	360	140	240	170	850	800	25	197	85	100	59
NRB4 32x160A	71 B4	244	16	32	50	80	360	160	240	170	850	800	25	217	85	100	66
NRB4 32x160B	71 B4	244	16	32	50	80	360	160	240	170	850	800	25	217	85	100	66
NRB4 32x160C	71 B4	244	16	32	50	80	360	160	240	170	850	800	25	217	85	100	66
NRB4 32x200A	90 S4	302	16	32	50	80	360	180	240	170	850	800	25	245	85	100	77
NRB4 32x200B	80 B4	280	16	32	50	80	360	180	240	170	850	800	25	245	85	100	75
NRB4 32x200C	80 A4	280	16	32	50	80	360	180	240	170	850	800	25	245	85	100	73

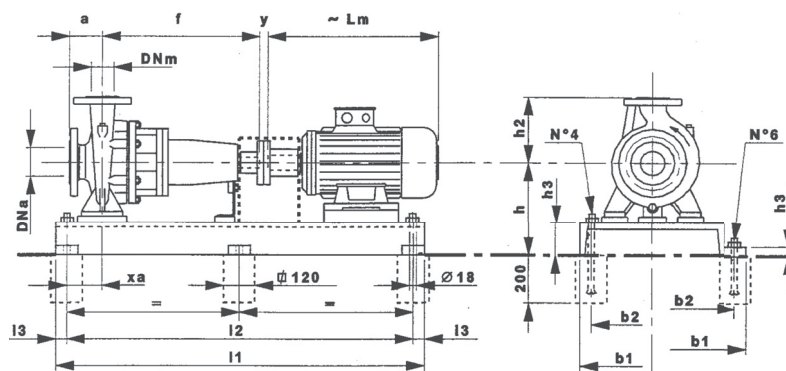
NOCCHI NRB4 40

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	100	125	150	175	200	225	250	275	300	350	400	450
	HP	kW				m³/h	6	7.5	9	10.5	12	13.5	15	16.5	18	21	24	27
NRB4 40x120C	0.33	0.25	230/400	0.9	m.c.a. / m.w.c.	4.6	4.5	4.3	4	3.7	3.3	2.5						
NRB4 40x120B	0.5	0.37	230/400	1.2		5.4	5.3	5.2	5	4.8	4.5	4.1	3.5					
NRB4 40x120A	0.5	0.37	230/400	1.2		6.3	6.2	6.1	6	5.8	5.5	5.2	4.9	4.4				
NRB4 40x160C	0.5	0.37	230/400	1.2		7.3	7	6.7	6.4	6	5.5	4.9	4.3					
NRB4 40x160B	0.75	0.55	230/400	1.2		8	7.8	7.5	7.2	6.8	6.4	5.9	5.3	4.7				
NRB4 40x160A	0.75	0.55	230/400	1.2		8.8	8.6	8.4	8.1	7.7	7.3	6.8	6.3	5.8				
NRB4 40x200C	1	0.75	230/400	1.7			11	10.5	10	9.4	8.5	7.6	6.6	5.4				
NRB4 40x200B	1.5	1.1	230/400	2.5			12.8	12.5	12.1	11.6	11	10.2	9.3	8.4	6.2			
NRB4 40x200A	1.5	1.1	230/400	2.5			14	13.8	13.5	13	12.4	11.8	11	10.2	8.3			
NRB4 40x250C	2	1.5	230/400	3.2			17.2	17	16.6	16	15.3	14.5	14	13	10.6			
NRB4 40x250B	3	2.2	230/400	4.6			19.7	19.5	19.2	18.6	18	17.5	16.8	16	14	11.5		
NRB4 40x250A	3	2.2	230/400	4.6			22.3	22	21.7	21.4	21	20.3	19.6	19	17.5	15.5	13	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB4 40x120A	71 B4	244	16	40	65	80	360	140	240	170	850	800	25	197	85	100	62
NRB4 40x120B	71 B4	244	16	40	65	80	360	140	240	170	850	800	25	197	85	100	62
NRB4 40x120C	71 A4	244	16	40	65	80	360	140	240	170	850	800	25	197	85	100	61
NRB4 40x160A	80 A4	280	16	40	65	80	360	160	240	170	850	800	25	217	85	100	69
NRB4 40x160B	80 A4	280	16	40	65	80	360	160	240	170	850	800	25	217	85	100	69
NRB4 40x160C	71 B4	244	16	40	65	80	360	160	240	170	850	800	25	217	85	100	67
NRB4 40x200CA	90 S4	302	16	40	65	100	360	180	280	210	950	900	25	255	95	100	91
NRB4 40x200B	90 S4	302	16	40	65	100	360	180	280	210	950	900	25	255	95	100	91
NRB4 40x200C	80 B4	280	16	40	65	100	360	180	280	210	950	900	25	255	95	100	89
NRB4 40x250A	100 LA4	369	22	40	65	100	360	225	350	280	950	900	25	280	100	100	131
NRB4 40x250B	100 LA4	369	22	40	65	100	360	225	350	280	950	900	25	280	100	100	131
NRB4 40x250C	90 L4	327	16	40	65	100	360	225	350	280	950	900	25	280	100	100	124

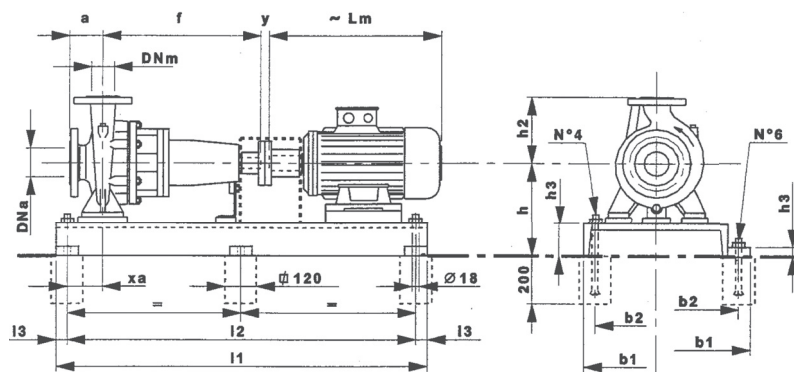
NOCCHI NRB4 50

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	150	200	250	300	350	400	450	500	550	600	700
	HP	kW				m³/h	9	12	15	18	21	24	27	30	33	36	42
NRB4 50x120C	0.33	0.25	230/400	0.9	m.c.a. / m.w.c.	4.4	4.2	4	3.6	3.2	2.6						
NRB4 50x120B	0.5	0.37	230/400	1.2		5.3	5.1	4.9	4.7	4.4	4	3.5					
NRB4 50x120A	0.75	0.55	230/400	1.2		6.3	6.1	5.9	5.7	5.5	5.2	4.8					
NRB4 50x160C	0.75	0.55	230/400	1.2			6.8	6.6	6.3	5.9	5.3	4.4					
NRB4 50x160B	1	0.75	230/400	1.7			8	7.8	7.6	7.4	7	6.4	5.6				
NRB4 50x160A	1.5	1.1	230/400	2.5			9	8.8	8.6	8.4	8.2	7.7	7.1	6.4			
NRB4 50x200C	1.5	1.1	230/400	2.5			11.6	11.2	10.5	9.6	8.6	7.4	6.2				
NRB4 50x200B	1.5	1.1	230/400	2.5			13	12.6	12.2	11.3	10.4	9.4	8.2				
NRB4 50x200A	2	1.5	230/400	3.2			14.3	14.1	13.7	13.1	12.3	11.4	10.2	9	7.8		
NRB4 50x250D	3	2.2	230/400	4.6			16.8	16.4	15.8	15.1	14.2	13.2	11.9	10.5			
NRB4 50x250C	3	2.2	230/400	4.6			18.4	18	17.6	17	16.2	15.2	14.2	12.8	11.5		
NRB4 50x250B	4	3	230/400	6.1			21	20.6	20.2	19.7	19.1	18.3	17.4	16.4	15.2		
NRB4 50x250A	4	3	230/400	6.1			22.5	22.3	22	21.5	20.9	20.2	19.4	18.5	17.4	14.7	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	(kg)
NRB4 50x120A	80 A4	280	16	50	65	100	360	160	240	170	850	800	25	217	85	100	68
NRB4 50x120B	71 B4	244	16	50	65	100	360	160	240	170	850	800	25	217	85	100	66
NRB4 50x120AC	71 A4	244	16	50	65	100	360	160	240	170	850	800	25	217	85	100	65
NRB4 50x160A	90 S4	302	16	50	65	100	360	180	280	210	950	900	25	255	95	100	87
NRB4 50x160B	80 B4	280	16	50	65	100	360	180	280	210	950	900	25	255	95	100	85
NRB4 50x160C	80 A4	280	16	50	65	100	360	180	280	210	950	900	25	255	95	100	83
NRB4 50x200A	90 L4	327	16	50	65	100	360	200	280	210	950	900	25	255	95	100	93
NRB4 50x200B	90 S4	302	16	50	65	100	360	200	280	210	950	900	25	255	95	100	92
NRB4 50x200C	90 S4	302	16	50	65	100	360	200	280	210	950	900	25	255	95	100	92
NRB4 50x250A	100 LB4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	135
NRB4 50x250B	100 LB4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	135
NRB4 50x250C	100 LA4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	132
NRB4 50x250D	100 LA4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	132

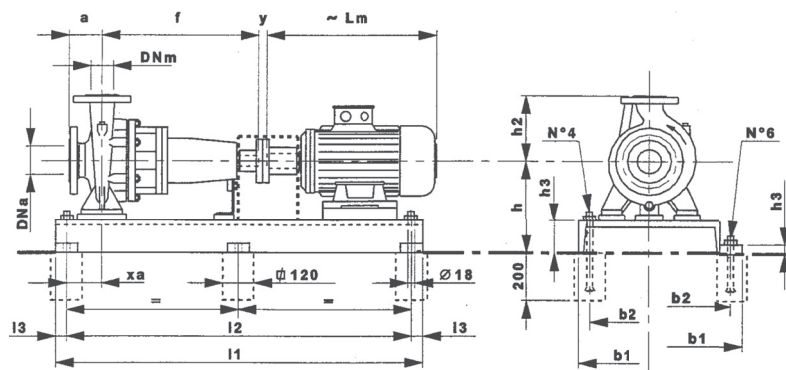
NOCCHI NRB4 65

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1400
	HP	kW				m³/h	15	18	21	24	27	30	33	36	42	48	54	60	66	72	84
NRB4 65x120C	0.75	0.55	230/400	1.2	m.c.a. / m.w.c.	4.2	4	3.9	3.8	3.7	3.5	3.3	3								
NRB4 65x120B	0.75	0.55	230/400	1.2		5	4.8	4.7	4.6	4.5	4.4	4.3	4.2	3.7							
NRB4 65x120A	1	0.75	230/400	1.7			5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.5	4						
NRB4 65x160C	1.5	1.1	230/400	2.5			7.7	7.6	7.5	7.3	7.1	6.8	6.5	5.7	4.7						
NRB4 65x160B	1.5	1.1	230/400	2.5			8.5	8.4	8.3	8.2	8	7.8	7.6	6.9	5.9	4.9					
NRB4 65x160A	2	1.5	230/400	3.2			10.2	10.1	10	9.9	9.8	9.6	9.4	9	8.4	7.5	6.5				
NRB4 65x200C	3	2.2	230/400	4.6						12.3	12.2	12.1	12	11.9	10.8	10	9				
NRB4 65x200B	4	3	230/400	6.1						15	14.9	13.5	13.4	13.3	13.1	12.6	11.9	11	10		
NRB4 65x200A	4	3	230/400	6.1						13.7	13.6	14.8	14.7	14.6	14.4	14.1	13.5	12.8	12	11	
NRB4 65x250C	4	3	230/400	6.1								17.2	17	16.6	15.7	14.6	13.2	1.6			
NRB4 65x250B	5.5	4	230/400	7.7								20	19.7	19.4	18.8	18	16.8	15.6	14.3	12.5	
NRB4 65x250A	7.5	5.5	400	10.9								23	22.8	22.6	22.1	21.5	20.7	19.7	18.6	17.4	14

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y			a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB4 65x120A	80 B4	280	16	65	80	100	360	180	280	210	950	900	25	255	85	100	86
NRB4 65x120B	80 A4	280	16	65	80	100	360	180	280	210	950	900	25	255	85	100	84
NRB4 65x120C	80 A4	280	16	65	80	100	360	180	280	210	950	900	25	255	85	100	84
NRB4 65x160A	90 L4	327	16	65	80	100	360	200	280	210	950	900	25	255	85	100	93
NRB4 65x160B	90 S4	302	16	65	80	100	360	200	280	210	950	900	25	255	85	100	92
NRB4 65x160C	90 S4	302	16	65	80	100	360	200	280	210	950	900	25	255	85	100	92
NRB4 65x200A	100 LB4	369	22	65	80	100	360	225	350	280	950	900	25	280	95	100	129
NRB4 65x200B	100 LB4	369	22	65	80	100	360	225	350	280	950	900	25	280	95	100	129
NRB4 65x200C	100 LA4	369	22	65	80	100	360	225	350	280	950	900	25	280	95	100	126
NRB4 65x250A	112 MC4	386	22	65	80	100	470	225	400	330	1120	1070	25	310	100	125	181
NRB4 65x250B	112 M4	386	22	65	80	100	470	250	400	330	1120	1070	25	310	100	125	181
NRB4 65x250C	100 LB4	369	22	65	80	100	470	250	400	330	1120	1070	25	310	100	125	172

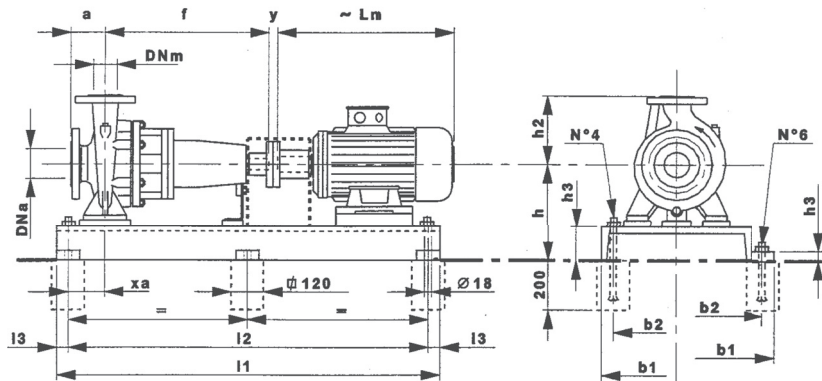
NOCCHI NRB4 80

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2250
	HP	kW				m³/h	36	42	48	54	60	66	72	78	84	90	96	108	120	135
NRB4 80x160C	2	1.5	230/400	3.2	m.c.a./m.w.c.	7.1	6.9	6.6	6.3	6	5.7	5.2	4.8							
NRB4 80x160B	3	2.2	230/400	4.6		8.5	8.3	8.1	7.9	7.6	7.3	6.9	6.5	6.1	5.6					
NRB4 80x160A	3	2.2	230/400	4.6		9.6	9.4	9.2	9	8.8	8.5	8.2	7.9	7.5	7.1	6.6				
NRB4 80x200C	3	2.2	230/400	4.6			10.4	10	9.8	9.6	9	8.6	8	7.2	6.5					
NRB4 80x200B	4	3	230/400	6.1			12.5	12.3	12.1	11.8	11.4	11	10.6	10	9.4	8.8	7.2			
NRB4 80x200A	5.5	4	230/400	7.7			14.2	14	13.8	13.5	13.1	12.7	12.2	11.7	11.2	10.6	9.2	7.6		
NRB4 80x250D	7.5	5.5	400	10.9			16.3	16	15.7	15.4	14.9	14.4	13.7	13	12.3	11.5				
NRB4 80x250C	7.5	5.5	400	10.9			17.9	17.7	17.4	17	16.7	16.2	15.7	15	14.4	13.7	11.9			
NRB4 80x250B	10	7.5	400	14.5			20.5	20.3	20	19.7	19.4	19	18.6	18.1	17.6	17	15.6	13.9		
NRB4 80x250A	10	7.5	400	14.5			22.2	22	21.7	21.5	21.1	20.8	20.4	20	19.5	19	17.6	16.2	14	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y			a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB4 80x160A	100 LA4	369	22	80	100	125	360	225	350	280	950	900	25	280	100	100	127
NRB4 80x160B	100 LA4	369	22	80	100	125	360	225	350	280	950	900	25	280	100	100	127
NRB4 80x160C	90 L4	327	16	80	100	125	360	225	350	280	950	900	25	280	100	100	120
NRB4 80x200A	112 M4	386	22	80	100	125	470	250	350	280	1120	1070	25	280	100	100	166
NRB4 80x200B	112 M4	386	22	80	100	125	470	250	350	280	1120	1070	25	280	100	100	166
NRB4 80x200C	100 LB4	369	22	80	100	125	470	250	350	280	1120	1070	25	280	100	100	156
NRB4 80x250A	132 MA4	498	24	80	100	125	470	280	400	330	1120	1070	25	310	110	125	213
NRB4 80x250B	132 MA4	498	24	80	100	125	470	280	400	330	1120	1070	25	310	110	125	213
NRB4 80x250C	112 MC4	386	22	80	100	125	470	280	400	330	1120	1070	25	310	110	125	191
NRB4 80x250D	112 MC4	386	22	80	100	125	470	280	400	330	1120	1070	25	310	110	125	191

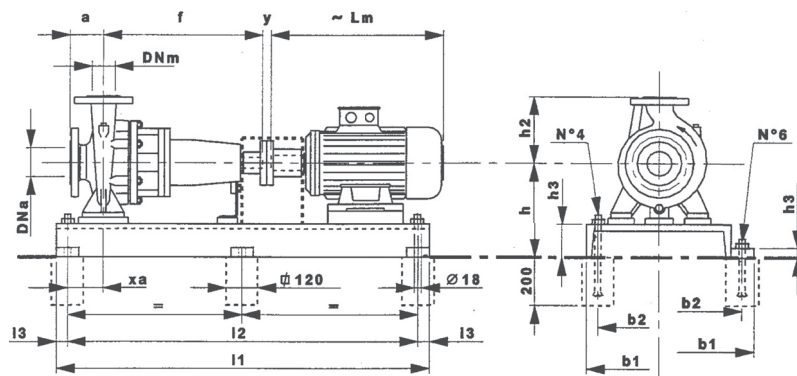
NOCCHI NRB4 100

STANDARDIZED CLOSE COUPLED CENTRIFUGAL PUMPS (2-4 POLE)

PERFORMANCE TABLE

MOD.	P2		Volt	In (A) 3X440	Q	L/min	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2250	2500	2750	3000
	HP	kW				m³/h	54	60	66	72	78	84	90	96	108	120	135	150	165	180
NRB4 100x200D	4	3	230/400	6.1	m.c.a. / m.w.c.	9.8	9.6	9.4	9.1	8.8	8.5	8.1	7.7	6.9	6					
NRB4 100x200C	5.5	4	230/400	7.7		11.8	11.6	11.4	11.2	11	10.8	10.5	10.2	9.4	8.6	7.5				
NRB4 100x200B	7.5	5.5	400	10.9		13.2	13.1	12.9	12.7	12.5	12.3	12	11.7	11.1	10.3	9.3	8.2			
NRB4 100x200A	7.5	5.5	400	10.9		14.4	14.3	14.2	14	13.8	13.6	13.4	13.2	12.6	12	11	9.8	8.5		
NRB4 100x250D	7.5	5.5	400	10.9			16.4	16.2	15.9	15.6	15.3	14.9	14.4	13.2	11.9	9.8				
NRB4 100x250C	10	7.5	400	14.5			18	17.8	17.6	17.4	17.1	16.8	16.4	15.3	14.2	12.4	10.4			
NRB4 100x250B	15	11	400	20.7			20.4	20.3	20.2	20	19.8	19.6	19.3	18.6	17.7	16.2	14.5	12.4		
NRB4 100x250A	15	11	400	20.7			22	21.9	21.8	21.7	21.6	21.4	21.1	20.4	19.7	18.5	17	15	12.8	

MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts
For efficiency data, see www.nocchi.it



OVERALL DIMENSIONS AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions (mm)											Weight (kg)
	Type	Lm	Y	PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	h3	xa	
NRB4 100x200A	112 MC4	386	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	188
NRB4 100x200B	112 MC4	386	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	188
NRB4 100x200C	112 M4	386	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	188
NRB4 100x200D	100 LB4	369	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	179
NRB4 100x250A	132 MB4	498	24	100	125	140	470	280	400	330	1120	1070	25	355	110	125	227
NRB4 100x250B	132 MB4	498	24	100	125	140	470	280	400	330	1120	1070	25	355	110	125	227
NRB4 100x250C	132 MA4	498	24	100	125	140	470	280	400	330	1120	1070	25	355	110	125	225
NRB4 100x250D	112 MC4	386	22	100	125	140	470	280	400	330	1120	1070	25	355	110	125	203

NOCCHI A2L - A4L

"IN LINE" MONOBLOC PUMP

Single impeller centrifugal pump coupled via housing to asynchronous motor in closed construction with external ventilation. Mechanical type gasket on shaft. Single design. The catalog operating and data plate specifications refer to continuous duty and clean water (spec. weight = 1000 Kg / m³) with maximum manometric suction height of 2 m.c.a.

MOTOR - THREE PHASE ASYNCHRONOUS

- Protection rating: IP 55.
- Standard voltage: 50Hz ; V 220 / 400 (+ - 10%).
- Insulation class F.
- Version A2L: 2-pole.
- Version A4L: 4-pole.

APPLICATION DATA

- Maximum operating pressure: 10 bar.
- Maximum conveyed liquid temperature: + 130 °C.
- Minimum conveyed liquid temperature: - 10 °C.
- Maximum ambient temperature: + 40 °C (request checks for higher values).
- Maximum viscosity of conveyed liquid: 5 °E Central heating and air

TABLE OF MATERIALS

COMPONENT	MATERIAL
Mechanical gasket	Silicon carbide/Silicon carbide O-Ring EPDM
Pump body	Cast iron EN-GJL 200 (ex G20)
Impeller	Cast iron EN-GJL 200 (ex G20)
Shaft	Stainless steel AISI 420
Shield, housing, cover	Cast iron EN-GJL 200 (ex G20)

APPLICATIONS

- conditioning systems
- Collection of water from lakes, rivers, wells.
- Gravity and sprinkler irrigation systems.
- Water supply systems for communities, homes, etc.
- Autoclaves
- Industrial facilities.
- Hygiene facility water distribution.

TOLERANCES

- Pump: ISO 2548 class C ann. B
- Motor: to standards C.E.I.

ON REQUEST

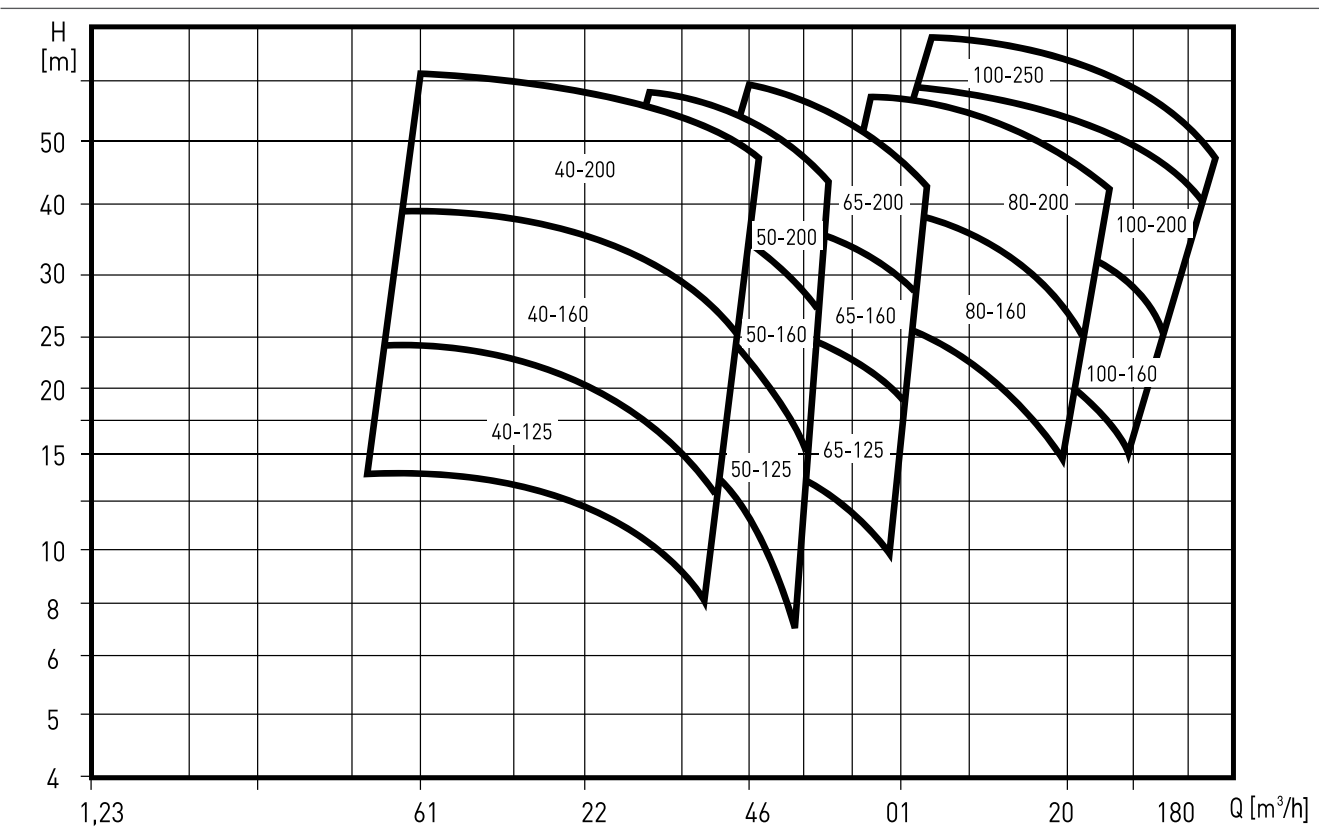
- Version with brass impeller.
- Version with condensate drain holes to ensure reliable pump operation in systems with cold water.



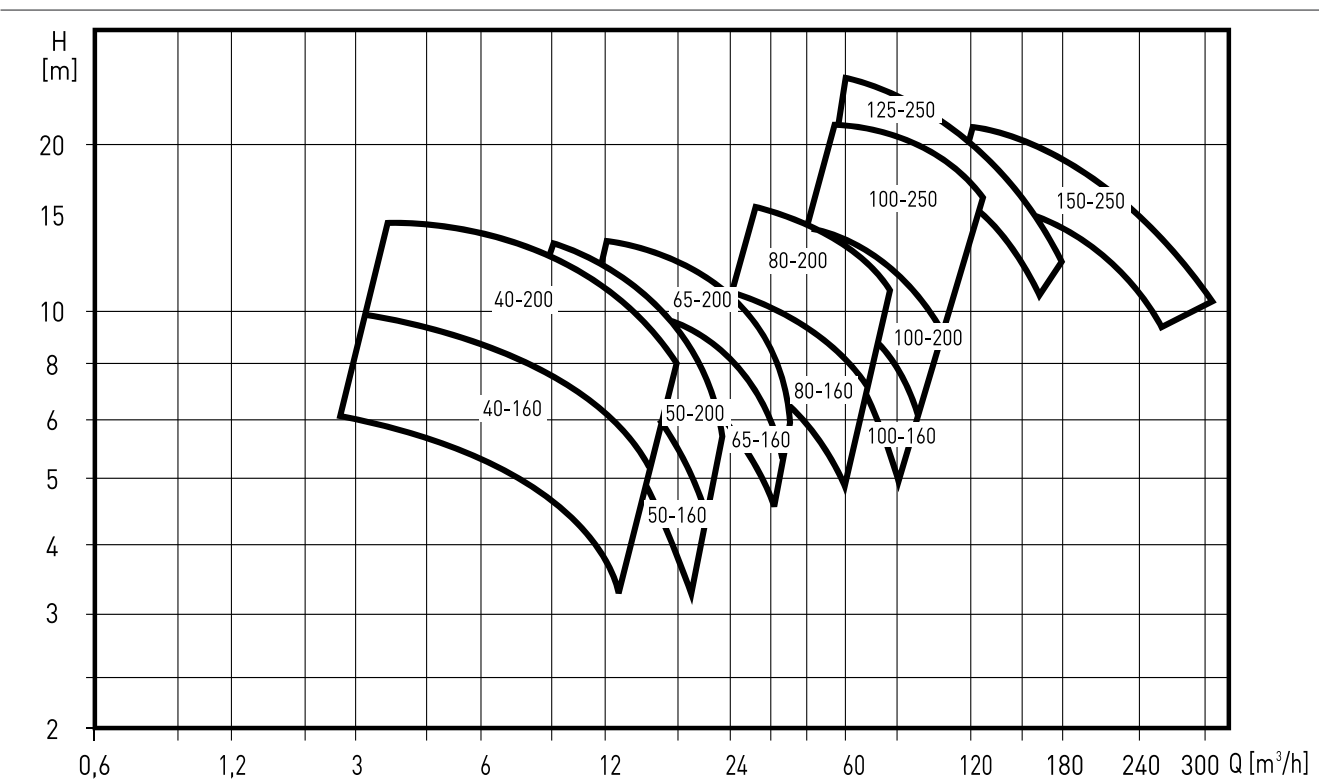
NOCCHI A2L - A4L

"IN LINE" MONOBLOC PUMP

PERFORMANCE RANGE - A2L SINGLE DESIGN 2-POLE



PERFORMANCE RANGE - A4L SINGLE DESIGN 4-POLE



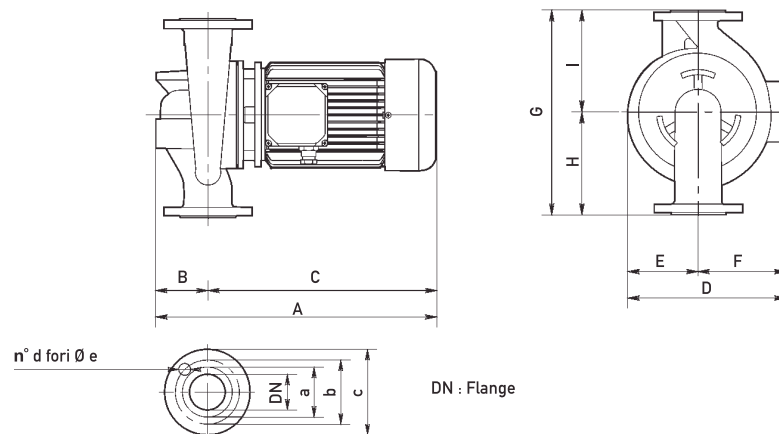
NOCCHI A2L - A4L 40

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m³/h	50	75	100	125	150	175	200	225	250	300	350	400
		kW	3x400 V	3x230 V				3	4.5	6	7.5	9	10.5	12	13.5	15	18	21	24
N8020380	A4L 40 - 160 X	0.37	1.15	2	4-pole	Manometric height m.c.a. / m.w.c.		9.4	9.2	8.9	8.9	7.7	6.9	5.8	4.7				
N8020390	A4L 40 - 200 Y	0.75	2	3.5	4-pole			13	12.8	12.4	11.9	11.3	10.6	9.8	9	8	6		
N8020400	A4L 40 - 200 X	0.9	2.4	4.2	4-pole				14.5	14.3	13.8	13.3	12.7	11.8	10.9	10	8		
N8020000	A2L 40 - 125 C	0.75	1.9	3.3	2-pole					16.5	15.5	14.5	13.5	12.3	11	9.5	6		
N8020010	A2L 40 - 125 B	1.0	2.4	4.2	2-pole					20.5	20	19	18	17	16	15	11.5	7.5	
N8020020	A2L 40 - 125 A	1.5	3.6	6.2	2-pole					24.5	24	23.5	23	22	21	20	16.5	13	
N8020030	A2L 40 - 160 C	2.0	4.4	7.7	2-pole					28.5	28	27.5	26.5	25.5	24	23	20	15	
N8020040	A2L 40 - 160 B	3.0	6.4	11	2-pole					33.5	33	32.5	32	31	30	29	26	22.5	
N8020050	A2L 40 - 160 A	3.0	6.4	11	2-pole					38	37.5	37	36	35	34	33	30	26.5	
N8020060	A2L 40 - 200 C	4.0	8.8	15.2	2-pole					47	46.5	46	45	44	43	42	39.5	37.5	35
N8020070	A2L 40 - 200 B	5.5	11.3	-	2-pole					55	54.5	54	53.5	53	52	51	48	45	42
N8020080	A2L 40 - 200 A	6.3	12.8	-	2-pole					62	61.5	61	60	59	58	57	54	52.5	49

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)									Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	
A4L 40 - 160 X	71	40 PN10	88	110	150	4	18	425	100	325	215	103	107	230	170	150	23
A4L 40 - 200 X	80	40 PN10	88	110	150	4	18	445	100	345	245	127	118	380	200	180	31
A4L 40 - 200 Y	80	40 PN10	88	110	150	4	18	445	100	345	245	127	118	380	200	180	30
A2L 40 - 125 A	80	40 PN10	88	110	150	4	18	445	100	345	211	93	118	300	160	140	26
A2L 40 - 125 B	80	40 PN10	88	110	150	4	18	445	100	345	211	93	118	300	160	140	25
A2L 40 - 125 C	71	40 PN10	88	110	150	4	18	425	100	325	200	93	107	300	160	140	24
A2L 40 - 160 A	90	40 PN10	88	110	150	4	18	485	100	385	257	108	149	320	170	150	37
A2L 40 - 160 B	90	40 PN10	88	110	150	4	18	485	100	385	257	108	149	320	170	150	35
A2L 40 - 160 C	80	40 PN10	88	110	150	4	18	445	100	345	226	108	118	320	170	150	30
A2L 40 - 200 A	112	40 PN10	88	110	150	4	18	535	100	435	286	127	159	380	200	180	56
A2L 40 - 200 B	112	40 PN10	88	110	150	4	18	535	100	435	286	127	159	380	200	180	55
A2L 40 - 200 C	110	40 PN10	88	110	150	4	18	525	100	425	286	127	159	380	200	180	50

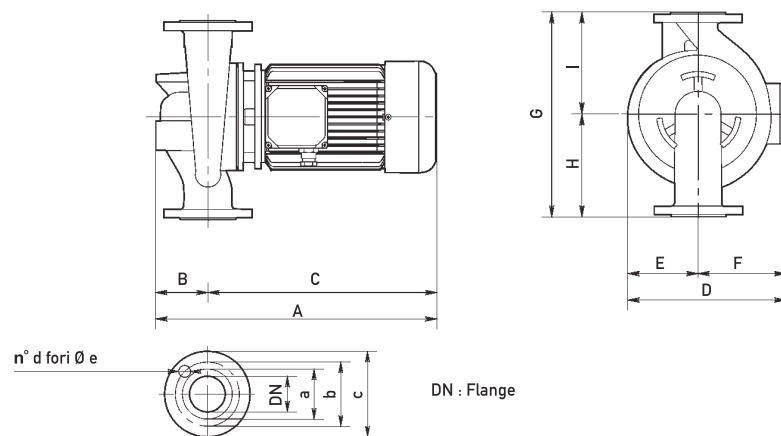
NOCCHI A2L - A4L 50

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min	100	125	150	175	20	225	250	300	350	400	450	500	600
		kW	3x400 V	3x230 V			m³/h	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36
N8020410	A4L 50 - 160 X	0.5	1.6	2.8	4-pole	Manometric height m.c.a. / m.w.c.		8.8	8.6	8.3	8.0	7.7	7.3	6.9	5.9	4.5				
N8020420	A4L 50 - 200 Y	1.1	2.6	4.5	4-pole			12.7	12.5	12.1	11.7	11.2	10.7	10.1	8.5	7				
N8020430	A4L 50 - 200 X	1.1	2.6	4.5	4-pole			14.2	14	13.8	13.4	13	12.5	12	10	8.3	6			
N8020090	A2L 50 - 125 C	1.5	3.6	6.2	2-pole									15.5	15	14.1	13	11.8	10.5	7
N8020100	A2L 50 - 125 B	2.0	4.4	7.7	2-pole									19	18.5	17.5	16.5	15.5	14.5	10.5
N8020110	A2L 50 - 125 A	3.0	8.8	15.2	2-pole									24.5	24	23.5	23	22	20.5	17
N8020120	A2L 50 - 160 B	3.0	6.4	11	2-pole									30	29	28	26.5	25	23	18
N8020130	A2L 50 - 160 A	4.0	8.8	15.2	2-pole									36.5	35.5	34.5	33.5	32.5	31	27
N8020140	A2L 50 - 200 C	5.5	11.3	-	2-pole									46	44	43	41.5	39	37	31
N8020150	A2L 50 - 200 B	6.3	12.8	-	2-pole									51	50	49	47.5	45	42.5	37
N8020160	A2L 50 - 200 A	7.5	17.3	-	2-pole									56.5	55.5	54.5	53	51	49	44

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)									Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	
A4L 50 - 160 X	71	50 PN10	102	125	165	4	18	435	110	325	220	113	107	340	180	160	25
A4L 50 - 200 X	90	50 PN10	102	125	165	4	18	495	110	385	280	131	149	400	220	180	36
A4L 50 - 200 Y	90	50 PN10	102	125	165	4	18	495	110	385	280	131	149	400	220	180	36
A2L 50 - 125 A	90	50 PN10	102	125	165	4	18	495	110	385	252	103	149	320	180	140	32
A2L 50 - 125 B	80	50 PN10	102	125	165	4	18	455	110	145	221	103	118	320	180	140	28
A2L 50 - 125 C	80	50 PN10	102	125	165	4	18	455	110	345	221	103	118	320	180	140	27
A2L 50 - 160 A	100	50 PN10	102	125	165	4	18	535	110	425	272	113	159	340	180	160	42
A2L 50 - 160 B	90	50 PN10	102	125	165	4	18	495	110	385	262	113	149	340	180	160	32
A2L 50 - 200 A	132	50 PN10	102	125	165	4	18	650	110	540	315	131	184	400	220	180	64
A2L 50 - 200 B	112	50 PN10	102	125	165	4	18	545	110	435	290	131	159	400	220	180	57
A2L 50 - 200 C	112	50 PN10	102	125	165	4	18	545	110	435	290	131	159	400	220	180	56

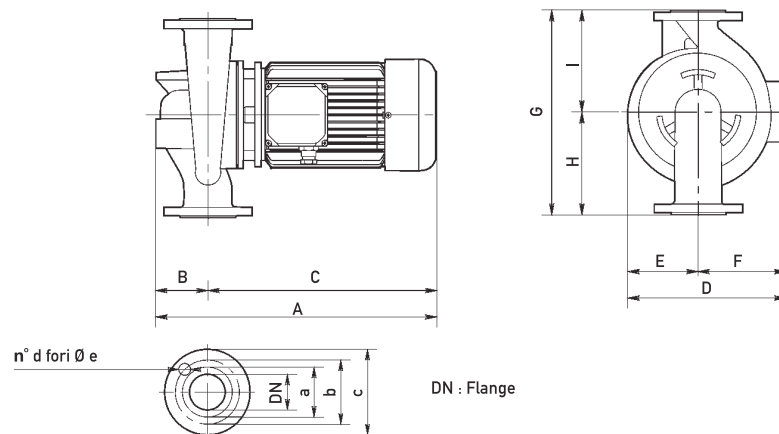
NOCCHI A2L - A4L 65

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m³/h	200	225	250	300	400	350	450	500	600	700	800	900	1000
		kW	3x400 V	3x230 V				12	13.5	15	18	21	24	27	30	36	42	48	54	60
N8020440	A4L 65 - 160 Y	0.75	2	3.5	4-pole	Manometric height m.c.a. / m.w.c.		8.2	8	7.9	7.7	7.4	7.0	6.6	6.0	4.0				
N8020450	A4L 65 - 160 X	0.9	2.4	4.2	4-pole			9.0	8.9	8.8	8.6	8.4	8.1	7.7	7.2	5.5				
N8020460	A4L 65 - 200 Y	1.1	2.6	4.5	4-pole			12.4	12.2	12	11.5	10.8	10	9.0	8.0	5.8				
N8020470	A4L 65 - 200 X	1.5	3.5	6.1	4-pole			14.3	14.2	14.1	13.7	13	12.3	11.3	10.2	7.8	5.0			
N8020180	A2L 65 - 125 C	2.0	4.4	7.7	2-pole								17	16.5	16	15	13	11	9	
N8020170	A2L 65 - 125 B	3.0	6.4	11	2-pole								21	20.5	20	19	17.5	16	14	12
N8020190	A2L 65 - 125 A	4.0	8.8	15.2	2-pole								25.5	25.3	25	24	23	21.5	20	18
N8020200	A2L 65 - 160 B	5.5	11.3	-	2-pole								32.5	32	31.5	30.5	29.5	28	26	23.5
N8020210	A2L 65 - 160 A	7.5	17.3	-	2-pole								37	36.5	36	35	34	32.5	31	29
N8020220	A2L 65 - 200 B	10	22.5	-	2-pole								51	50.5	50	48	45.5	42	39.5	37
N8020230	A2L 65 - 200 A	12.5	27	-	2-pole								58	57.5	57	55	53	50	46.5	42.8

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)									Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	
A4L 65 - 160 X	80	65 PN10	122	145	185	4	18	485	140	345	240	122	118	400	220	180	33
A4L 65 - 160 Y	80	65 PN10	122	145	185	4	18	485	140	345	240	122	118	400	2250	180	32
A4L 65 - 200 X	90	65 PN10	122	145	185	4	18	525	140	385	285	136	149	440	240	200	40
A4L 65 - 200 Y	90	65 PN10	122	145	185	4	18	525	140	385	285	136	149	440	240	200	38
A2L 65 - 125 A	100	65 PN10	122	145	185	4	18	565	140	425	267	108	159	360	205	155	43
A2L 65 - 125 B	90	65 PN10	122	145	185	4	18	525	140	385	257	108	149	360	205	155	39
A2L 65 - 125 C	80	65 PN10	122	145	185	4	18	485	140	345	226	108	118	360	205	155	32
A2L 65 - 160 A	132	65 PN10	122	145	185	4	18	680	140	540	306	122	184	400	220	180	61
A2L 65 - 160 B	112	65 PN10	122	145	185	4	18	575	140	435	281	122	159	400	220	180	54
A2L 65 - 200 A	132	65 PN10	122	145	185	4	18	680	140	540	320	136	184	440	240	200	77
A2L 65 - 200 B	132	65 PN10	122	145	185	4	18	680	140	540	320	136	184	440	240	200	70

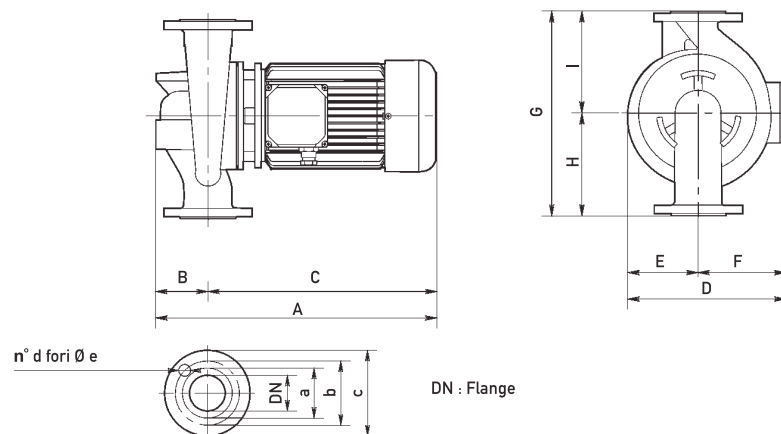
NOCCHI A2L - A4L 80

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/min m ³ /h	300	350	400	450	500	600	700	800	900	1000	1100	1200	1250	1500	1750	2000	2250
		kW	3x400 V	3x230 V				18	21	24	27	30	36	42	48	54	60	66	72	75	90	105	120	135
N8020480	A4L 80 - 160 Y	1.1	2.6	4.5	4-pole	Manometric height m.c.a. / m.w.c.		8.6	8.5	8.4	8.3	8.2	8.0	7.5	6.8	6.0	5.0							
N8020490	A4L 80 - 160 X	1.5	3.5	6.1	4-pole			10.2	10.1	10	9.9	9.8	9.4	9.0	8.5	7.7	6.5							
N8020500	A4L 80 - 200 Y	2.2	5.1	8.9	4-pole					12.5	12.4	12.3	12.1	11.7	11.7	10.5	9.6	8.5						
N8020510	A4L 80 - 200 X	3.0	6.9	12	4-pole							15.2	15	14.6	14.3	13.6	12.8	12	11					
N8020240	A2L 80 - 160 C	10	22.5	-	2-pole									30.5	30	29.5	29	28.2	27.3	26.5	24	20.5	16	
N8020250	A2L 80 - 160 B	12.5	27	-	2-pole									36.5	36	35.5	34.5	34	33.2	33	30	27	23	19
N8020260	A2L 80 - 160 A	15	32	-	2-pole									41	40.5	40	39.5	38.7	38	37.5	35.5	33	29	24
N8020270	A2L 80 - 200 D	15	32	-	2-pole										44	43.5	43	42.6	42	41.5	39	35.5	31.5	
N8020280	A2L 80 - 200 C	18.5	38	-	2-pole										51	50	49.5	49	48.5	48.3	46.5	43.5	39.5	35
N8020290	A2L 80 - 200 B	22	44.5	-	2-pole										57	56.5	56	55.6	55.4	55	53.5	51	48	42.5

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)									Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	
A4L 80 - 160 X	90	80 PN10	138	160	200	8	18	545	140	325	280	131	149	440	240	200	40
A4L 80 - 160 Y	90	80 PN10	138	160	200	8	18	545	140	325	280	131	149	440	240	200	38
A4L 80 - 200 X	100	80 PN10	138	160	200	80	18	585	140	345	305	146	159	500	275	225	57
A4L 80 - 200 Y	100	80 PN10	138	160	200	80	18	585	140	345	305	146	159	500	275	225	51
A2L 80 - 160 A	132	80 PN10	138	160	200	80	18	700	160	54	0315	131	184	440	240	200	85
A2L 80 - 160 B	132	80 PN10	138	160	200	8	18	700	160	54	0315	131	184	440	240	200	79
A2L 80 - 160 C	132	80 PN10	138	160	200	8	18	700	160	54	0315	131	184	440	240	200	72
A2L 80 - 200 B	180	80 PN10	138	160	200	80	18	860	160	700	375	146	229	500	275	225	142
A2L 80 - 200 C	160	80 PN10	138	160	200	80	18	860	160	700	375	146	229	500	275	225	124
A2L 80 - 200 D	132	80 PN10	138	160	200	80	18	700	160	540	330	146	184	500	275	225	91

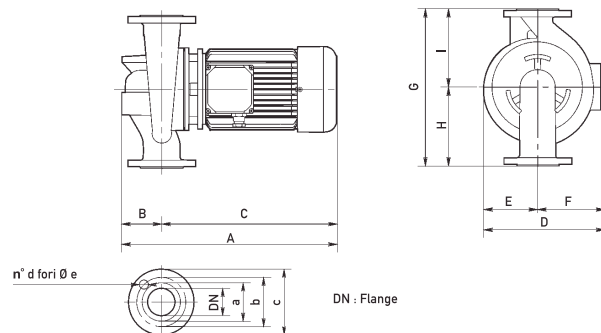
NOCCHI A2L - A4L 100

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m³/h	600	700	800	900	1000	1100	1200	1250	1300	1500	1750	2000	2250	2500	2750	3000	3500
		kW	3x400 V	3x230 V				36	42	48	54	60	66	72	75	78	90	105	120	135	150	165	180	210
N8020520	A4L 100 - 160 Y	1.5	3.5	6.1	4-pole	Manometric height m.c.a. / m.w.c.		7.7	7.5	7.3	7.0	6.7	6.4	6.1	5.7	5.8	5.0							
N8020530	A4L 100 - 160 X	2.2	5.1	8.9	4-pole			9.7	9.5	9.3	9.0	8.8	8.5	8.2	8	7.9	7.1	6.0						
N8020540	A4L 100 - 200 Y	3.0	6.9	12	4-pole			12	11.7	11.5	11.3	11	10.5	10	9.8	9.5	8.5	7.0						
N8020550	A4L 100 - 200 X	4.0	9.2	16	4-pole			14.5	14.2	14	13.8	13.5	13.1	12.7	12.4	12.2	11	9.0	6.5					
N8020560	A4L 100 - 250 Y	5.5	12	-	4-pole						19	18.5	18	17.5	17.4	17	16	14	12					
N8020570	A4L 100 - 250 X	7.5	16	-	4-pole						22	21.9	21.7	21.5	21.1	21.9	20	19	17					
N8020300	A2L 100 - 160 D	10	22.5	-	2-pole							24	23.6	23.2	23	22.8	22	21	19.5	18	16.5	15		
N8020310	A2L 100 - 160 C	12.5	27	-	2-pole							28.5	28.3	28	27.8	27.7	27	26	24.5	23	21.5	20	18.5	
N8020320	A2L 100 - 160 B	15	32	-	2-pole							34	33.7	33.5	33.3	33.2	32.5	31.8	31	29	27.5	26	24.5	
N8020330	A2L 100 - 200 D	18.5	38	-	2-pole							42	41.5	41.2	41	40.8	40	38.5	37	35	33	30.5	38	
N8020340	A2L 100 - 200 C	22	44.5	-	2-pole							47	46.7	46.5	46.5	46.2	45.5	44.5	43	41	39	37	34	
N8020350	A2L 100 - 200 B	30	58	-	2-pole							55	54.5	54.3	54	54	53	52	51	49	47	45	43	37
N8020360	A2L 100 - 200 A	37	71	-	2-pole							57	56.9	56.8	56.8	56.6	56.5	56	55	54	52.5	51	48	42
N8020370	A2L 100 - 250 D	37	71	-	2-pole										68	67.5	67	66	65	63	61	58	55	47

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)									Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	
A4L 100 - 160 X	100	100 PN10	158	180	220	8	18	615	190	425	295	136	159	525	300	225	50
A4L 100 - 160 Y	90	100 PN10	158	180	220	8	18	575	190	385	285	136	149	525	300	225	45
A4L 100 - 200 X	112	100 PN10	158	180	220	8	18	625	190	435	315	156	159	550	300	250	73
A4L 100 - 200 Y	100	100 PN10	158	180	220	8	18	615	190	425	315	156	159	550	300	250	66
A4L 100 - 250 X	132	100 PN10	158	180	220	8	18	730	190	540	360	176	184	600	320	280	106
A4L 100 - 250 Y	132	100 PN10	158	180	220	8	18	730	190	540	360	176	184	600	320	280	96
A2L 100 - 160 B	132	100 PN10	158	180	220	8	18	730	190	540	320	136	184	525	300	225	91
A2L 100 - 160 C	132	100 PN10	158	180	220	8	18	730	190	540	320	136	184	525	300	225	84
A2L 100 - 160 D	132	100 PN10	158	180	220	8	18	730	190	540	320	136	184	525	300	225	76
A2L 100 - 200 A	200	100 PN10	158	180	220	8	18	995	190	805	413	156	257	550	300	250	213
A2L 100 - 200 B	200	100 PN10	158	180	220	8	18	995	190	805	413	156	257	550	300	250	195
A2L 100 - 200 C	180	100 PN10	158	180	220	8	18	890	190	710	386	156	230	550	300	250	153
A2L 100 - 200 D	160	100 PN10	158	180	220	8	18	890	190	710	386	156	230	550	300	250	135
A2L 100 - 250 D	200	100 PN10	158	180	220	8	18	995	190	805	433	176	257	600	320	280	220

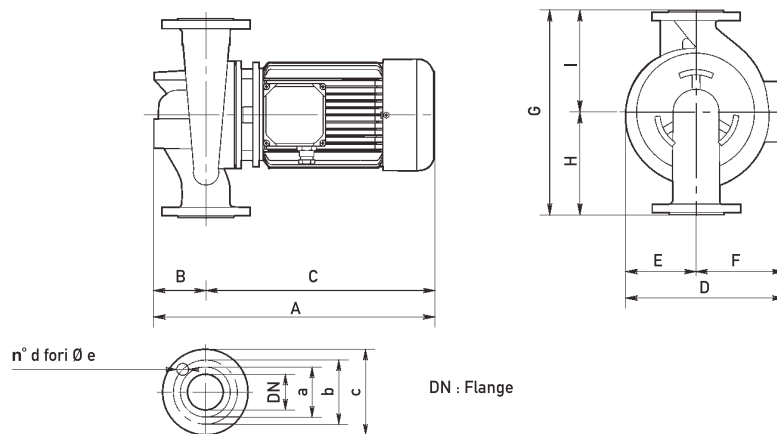
NOCCHI A2L - A4L 125

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Output yield		VOLTAGE	Amp.	n (min ⁻¹)	Q	L/min	1000	1100	1200	1500	1750	2000	2250	2500	2750	3000	3500
		HP	KW					m ³ /h	60	66	72	90	105	120	135	150	165	180	210
N8020960	A4L 125 - 250 Y	10	7.5	380/415	17.3	4-pole	Manometric height m.c.a. / m.w.c.	19.5	19.3	19.1	18.9	18.5	17.5	16.5	15.2	14	12		
N8020970	A4L 125 - 250 X	12.5	9.2	380/415	19	4-pole		22	21.9	21.8	21.7	21.5	20.5	19.5	18.5	17	15	13	

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4L 125 - 250X	132	125 PN16	188	210	250	8	18	745	195	550	415	195	220	620	340	280	28	120
A4L 125 - 250Y	132	125 PN16	188	210	250	8	18	745	195	550	415	195	220	620	340	280	28	120

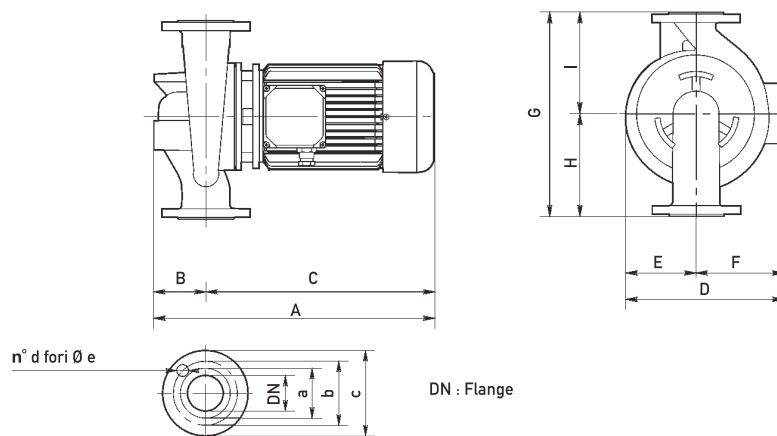
NOCCHI A2L - A4L 150

"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Output		VOLTAGE	Amp.	n (min ⁻¹)	Q	L/min	1750	2000	2250	2500	2750	3000	3500	4000	4500	5000
		HP	KW					m ³ /h	105	120	135	150	165	180	21	240	270	300
N8020980	A4L 150 - 250 Z	15	11	380/415	22.5	4-pole	Manometric height m.c.a. / m.w.c.	17.3	16.6	16.2	15.7	14.7	14.2	12.4	10			
N8020990	A4L 150 - 250 Y	20	15	380/415	32	4-pole		20.2	19.8	19.3	19	18.4	18	16.5	14.8	12.6		
N8021000	A4L 150 - 250 X	20	15	380/415	32	4-pole			20.8	20.2	19.7	19.1	18.6	17	15.2	13.2	11	

COUNTERFLANGES OPTIONAL



OVERALL DIMENSIONS AND WEIGHTS

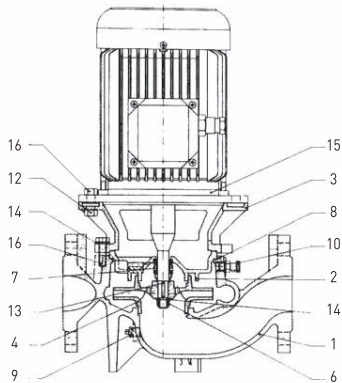
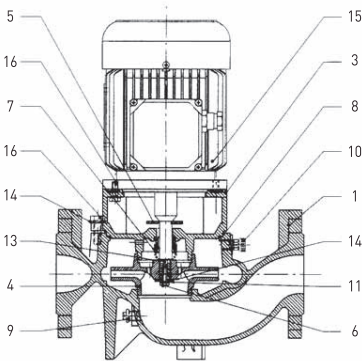
MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4L 150 - 250Z	132	150 PN16	212	240	285	8	22	775	220	555	460	210	250	700	370	330	30	160
A4L 150 - 250Y	132	150 PN16	212	240	285	8	22	975	220	755	510	210	300	700	370	330	30	195
A4L 150 - 250X	132	150 PN16	212	240	285	8	22	975	220	755	510	210	300	700	370	330	30	195

NOCCHI A2L - A4L

"IN LINE" MONOBLOC PUMP

ILLUSTRATION SECTION

Component	
1	Pump body
2	Gland cover
3	Housing - Cover
4	Impeller
5	Deflector
6	Rotary nut
7	Mechanical gasket
8	Flat seal
9	Drain plug
10	Bleed plug
11	Rubber washer
12	Hex nut
13	Tab
14	Washer
15	Motor
16	Screw



NOCCHI A2LD - A4LD TWIN "IN LINE" MONOBLOC PUMPS

Single impeller centrifugal pump coupled via housing to asynchronous motor in closed construction with external ventilation. Mechanical type gasket on shaft.

Twin design.

The catalog operating and data plate specifications refer to continuous duty and clean water.

(spec. weight = 1000 Kg / m³) with maximum manometric suction height 2 m.w.c.

MOTOR - THREE PHASE ASYNCHRONOUS

- Protection rating: IP 55.
- Standard voltage:
50Hz : V 220 / 400 (+ - 10%).
- Insulation class F.
- Version A2LD: 2-pole.
- Version A4LD: 4-pole.

APPLICATION DATA

- Maximum operating pressure:
10 bar.
- Maximum conveyed liquid temperature: + 130 °C.
- Minimum conveyed liquid temperature: - 10 °C.
- Maximum ambient temperature:
+ 40 °C (request checks for higher values).
- Maximum viscosity of conveyed liquid: 5 °E Central heating and air conditioning systems.

APPLICATIONS

- Collection of water from lakes, rivers, wells.
- Gravity and sprinkler irrigation systems.
- Water supply systems for communities, homes, etc.
- Autoclaves
- Industrial facilities.
- Hygiene facility water distribution.

TOLERANCES

- Pump: ISO 2548 class C ann. B
- Motor: to standards C.E.I.

ON REQUEST

- Version with brass impeller.
- Version with condensate drain holes to ensure reliable pump operation in systems with cold water.

UNIT INSTALLATION

The suction and delivery ports are diametrically opposed. They can be installed horizontally or vertically in line with the pipes. Never install the pump with motor directed downwards. Counterflanges optional.



TABLE OF MATERIALS

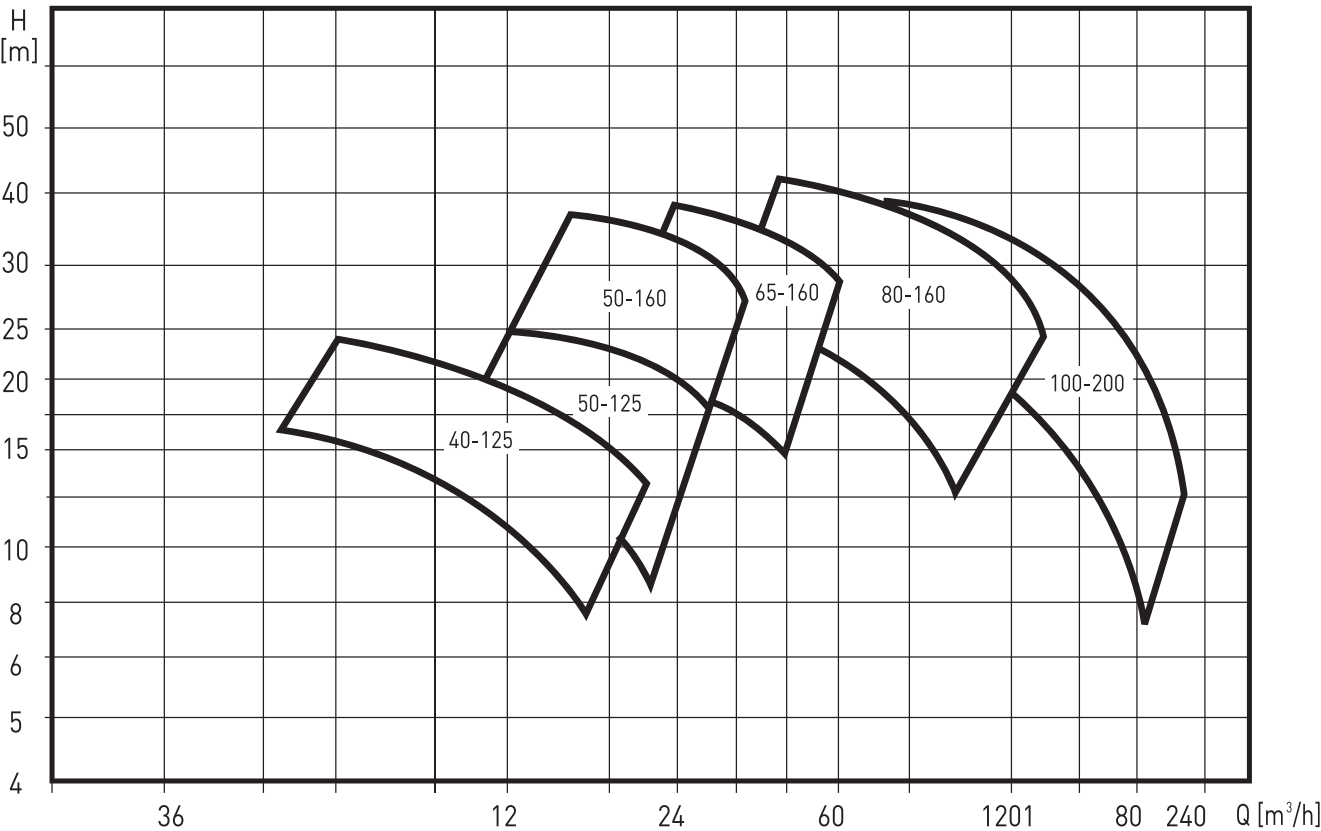
COMPONENT	MATERIAL
Mechanical gasket	Silicon carbide/Silicon carbide O-Ring EPDM
Pump body	Cast iron EN-GJL 200 (ex G20)
Impeller	Cast iron EN-GJL 200 (ex G20)
Shaft	Stainless steel AISI 420
Shield, housing, cover	Cast iron EN-GJL 200 (ex G20)

The twin version has an incorporated check valve in the delivery port to prevent the circulation of water in the unit when set to standby, and is supplied as standard with a blank flange to enable maintenance or one of the two motors.

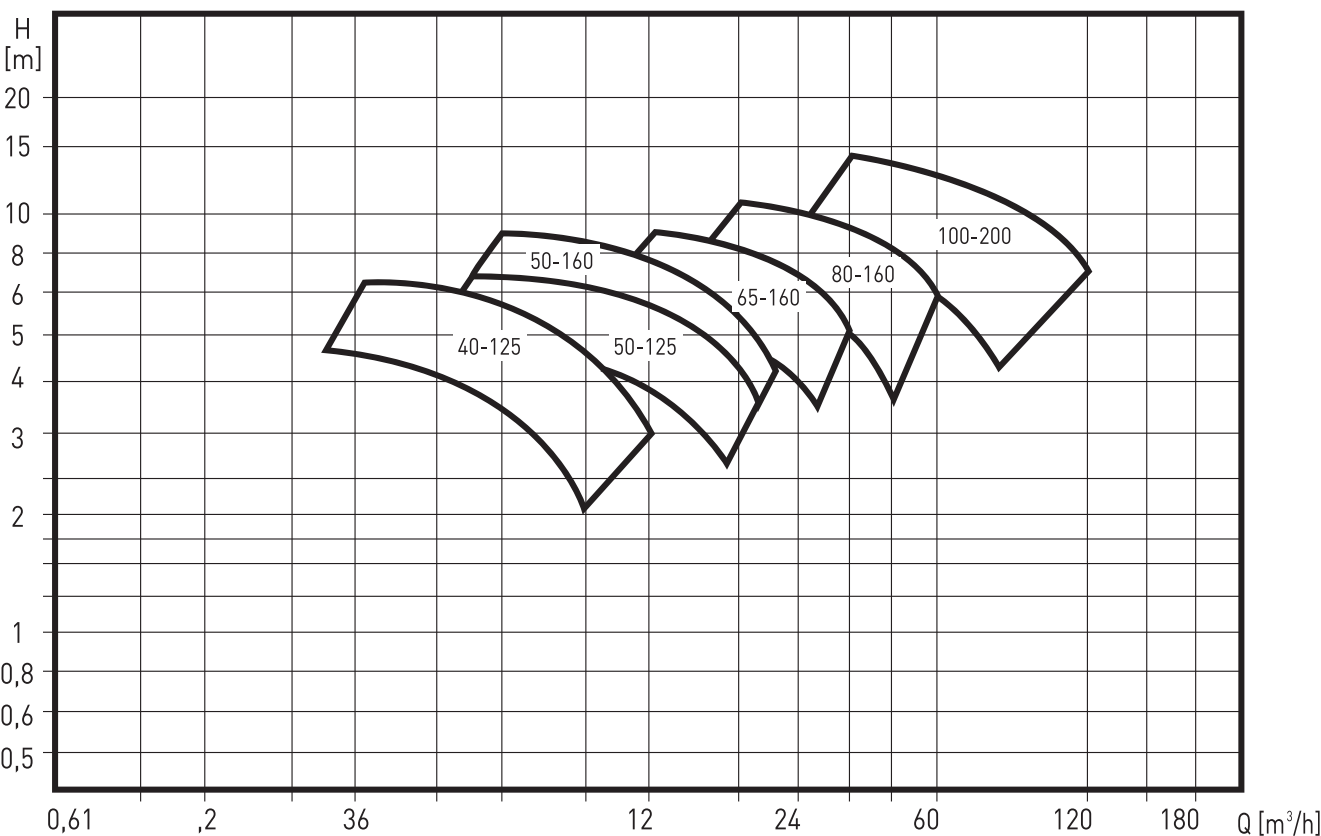
NOCCHI A2LD - A4LD

TWIN "IN LINE" MONOBLOC PUMPS

PERFORMANCE RANGE - A2LD TWIN DESIGN 2-POLE



PERFORMANCE RANGE - A4LD TWIN DESIGN 4-POLE



NOCCHI A2LD - A4LD 40

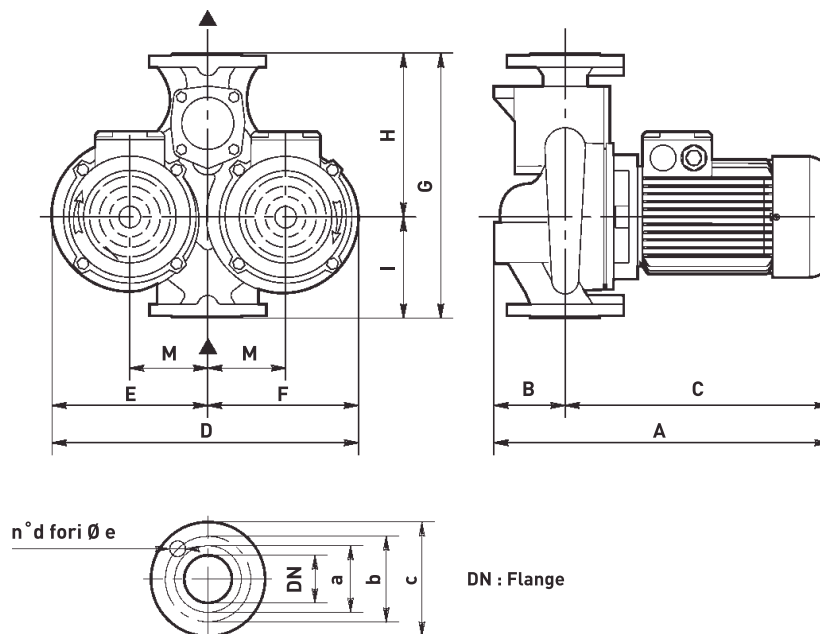
TWIN "IN LINE" MONOBLOC PUMPS

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m³/h	40	50	75	100	125	150	175	200	225	250	300	350
		kW	3x400 V	3x230 V				2.4	3	4.5	6	7.5	9	10.5	12	135	15	18	21
N8020800	A4LD 40 - 125 Y	0.25	0.85	1.46	4-pole	Manometric height m.c.a. / m.w.c.	4.6	4.5	4.1	3.6	3.0	2.2							
N8020810	A4LD 40 - 125 X	0.25	0.85	1.46	4-pole			6.2	6.0	5.8	5.2	4.5	3.9	3.0					
N8020580	A2LD 40 - 125 C	0.75	1.9	3.3	2-pole					16.5	15.5	14.5	13.5	12.3	11	9.5	6		
N8020590	A2LD 40 - 125 B	1.0	2.4	4.4	2-pole					20.5	20	19	18	17	16	15	11.5	7.5	
N8020600	A2LD 40 - 125 A	1.5	3.6	6.2	2-pole					24.5	24	23.5	23	22	21	20	16.5	13	

COUNTERFLANGES OPTIONAL

*Performance data refer to a single head in operation



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4L 40 - 160 X	71	40 PN10	88	110	150	4	18	425	100	325	397	200	197	340	130	210	100	41
A4L 40 - 200 X	71	40 PN10	88	110	150	4	18	445	100	325	397	200	197	340	130	210	100	41
A4L 40 - 200 Y	80	40 PN10	88	110	150	4	18	445	100	345	397	200	197	340	130	210	100	54
A2L 40 - 125 A	80	40 PN10	88	110	150	4	18	445	100	345	397	200	197	340	130	210	100	52
A2L 40 - 125 B	71	40 PN10	88	110	150	4	18	445	100	325	397	200	197	340	130	210	100	50

NOCCHI A2LD - A4LD 50

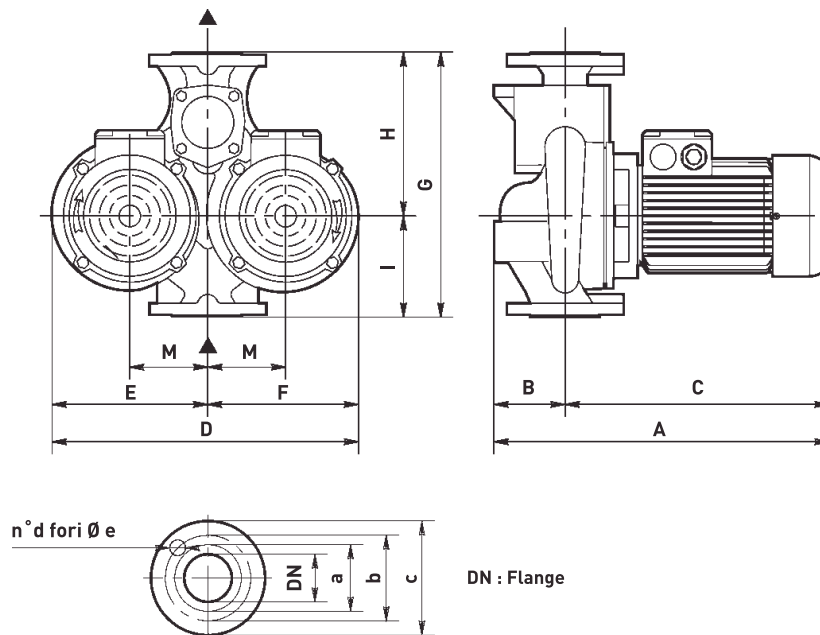
"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m³/h	100	125	150	175	200	225	250	300	350	400	450	500	600
		kW	3x400 V	3x230 V				6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36
N8020820	A4LD 50 - 125 X	0.37	1.15	2	4-pole	Manometric height m.c.a. / m.w.c.		6.3	6.2	6.1	6.0	5.8	5.5	5.2	4.6	3.0				
N8020830	A4LD 50 - 160 X	0.5	1.6	2.8	4-pole			8.8	8.6	8.3	8.0	7.7	7.3	6.9	5.9	4.5				
N8020610	A2LD 50 - 125 C	1.5	3.6	6.2	2-pole									15.5	15	14.1	13	11.8	10.5	7
N8020620	A2LD 50 - 125 B	2.0	4.4	7.7	2-pole									19	18.5	17.5	16.5	15.5	14.5	10.5
N8020630	A2LD 50 - 125 A	3.0	6.4	11	2-pole									24.5	24	23.5	23	22	20.5	17
N8020640	A2LD 50 - 160 B	3.0	6.4	11	2-pole									30	29	28	26.5	25	23	18
N8020650	A2LD 50 - 160 A	4.0	8.8	15.2	2-pole									36.5	35.5	34.5	33.5	32.5	31	27

COUNTERFLANGES OPTIONAL

*Performance data refer to a single head in operation



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4LD 50 - 125 X	71	50 PN10	102	125	165	4	18	435	110	325	427	217	210	365	145	220	105	46
A4LD 50 - 160 X	71	50 PN10	102	125	165	4	18	435	110	325	480	245	235	410	170	240	120	52
A2LD 50 - 125 A	90	50 PN10	102	125	165	4	18	495	110	385	427	217	210	365	145	220	105	66
A2LD 50 - 125 B	80	50 PN10	102	125	165	4	18	455	110	345	427	217	210	365	145	220	105	58
A2LD 50 - 125 C	80	50 PN10	102	125	165	4	18	455	110	345	427	217	210	365	145	220	105	56
A2LD 50 - 160 A	80	50 PN10	102	125	165	4	18	455	110	345	427	217	210	365	145	220	105	86
A2LD 50 - 160 B	100	50 PN10	102	125	165	4	18	535	110	425	480	245	235	410	170	240	120	67

NOCCHI A2LD - A4LD 65

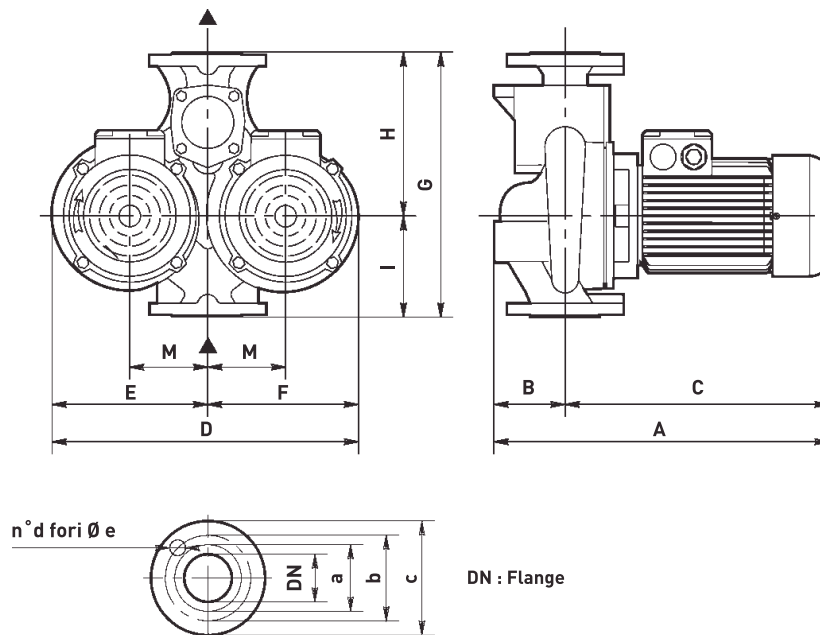
"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m³/h	200	225	250	300	400	350	450	500	600	700	800	900	1000
		kW	3x400 V	3x230 V				12	13.5	15	18	21	24	27	30	36	42	48	54	60
N8020840	A4LD 65 - 160 Z	0.55	1.6	2.7	4-pole	Manometric height m.c.a. / m.w.c.		6.7	6.6	6.4	6.1	5.7	5.1	4.3	3.3					
N8020850	A4LD 65 - 160 Y	0.75	2	3.5	4-pole			8.2	8.0	7.9	7.7	7.4	7.0	6.6	6.0	4.0				
N8020860	A4LD 65 - 160 X	0.9	2.4	4.2	4-pole			9.0	8.9	8.8	8.6	8.4	8.1	7.7	7.2	5.5				
N8020660	A2LD 65 - 160 D	3	6.4	11	2-pole							23	22.5	22	21.5	19.8	17.5	15		
N8020670	A2LD 65 - 160 C	4	8.8	15.2	2-pole								26.5	26	25.5	24.3	22.6	20.2	18	
N8020680	A2LD 65 - 160 B	5.5	11.3	-	2-pole								32.5	32	31.5	30.5	29.5	28	26	23.5
N8020700	A2LD 65 - 160 A	7.5	17.3	-	2-pole								37	36.5	36	35	34	32.5	31	29

COUNTERFLANGES OPTIONAL

*Performance data refer to a single head in operation



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4LD 65 - 160 X	80	65 PN10	122	145	185	4	18	475	130	345	543	275	268	450	180	270	140	67
A4LD 65 - 160 Y	80	65 PN10	122	145	185	4	18	475	130	345	543	275	268	450	180	270	140	65
A4LD 65 - 160 Z	80	65 PN10	122	145	185	4	18	475	130	345	543	275	268	450	180	270	140	65
A2LD 65 - 160 A	90	65 PN10	122	145	185	4	18	495	110	385	480	245	235	410	170	240	120	67
A2LD 65 - 160 B	132	65 PN10	122	145	185	4	18	670	130	540	543	275	268	450	180	270	140	125
A2LD 65 - 160 C	100	65 PN10	122	145	185	4	18	565	130	435	543	275	268	450	180	270	140	101
A2LD 65 - 160 D	90	65 PN10	122	145	185	4	18	485	130	345	543	275	268	450	180	270	140	81

NOCCHI A2LD - A4LD 80

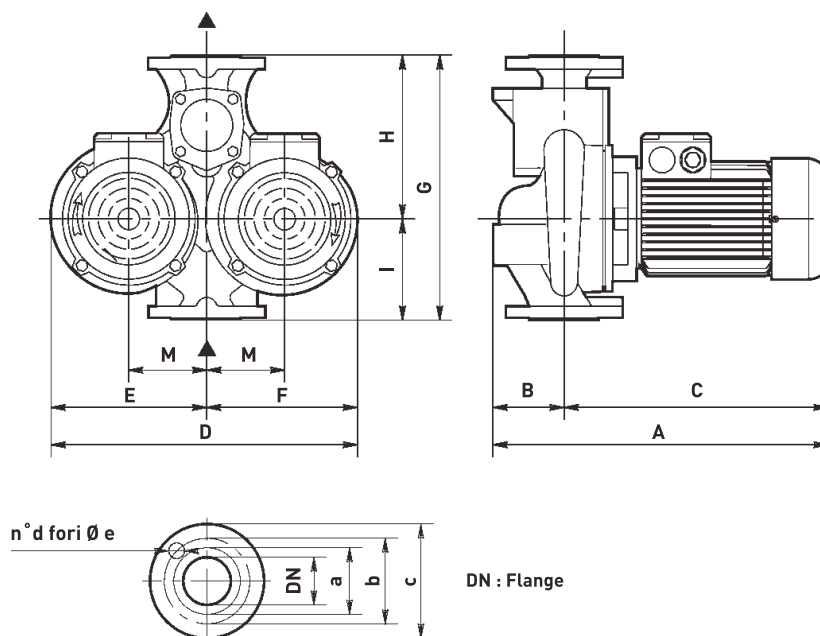
"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/min	300	350	400	450	500	600	700	800	900	1000	1250	1500	1750	2000	2250
		kW	3x400 V	3x230 V			m ³ /h	18	21	24	27	30	36	42	48	54	60	75	90	105	120	135
N8020870	A4LD 80 - 160 W	0.75	2.25	3.9	4-pole	Manometric height m.c.a. / m.w.c.	6.3	6.2	6.1	5.9	5.6	4.9	4.1	3.2								
N8020880	A4LD 80 - 160 Z	0.9	2.7	4.7	4-pole		7.3	7.2	7.1	7	6.8	6.3	5.6	4.8	3.9							
N8020890	A4LD 80 - 160 Y	1.1	2.6	4.5	4-pole		8.6	7.5	8.4	8.3	8.2	8.0	7.5	6.8	6.0	5.0						
N8020900	A4LD 80 - 160 X	1.5	3.5	6.1	4-pole		10.2	10.1	10	9.9	9.8	9.4	9.0	8.5	7.7	6.5						
N8020690	A2LD 80 - 160 D	7.5	17.3	-	2-pole								25	24.9	24.1	23.4	20.5	17	12.7			
N8020710	A2LD 80 - 160 C	10	22.5	-	2-pole								30.5	30	29.5	29	26.5	24	20.5	16		
N8020720	A2LD 80 - 160 B	12.5	27	-	2-pole								36.5	36	35.5	34.5	33	30	27	23	19	
N8020730	A2LD 80 - 160 A	15	32	-	2-pole								41	40.5	40	39.5	38	35.5	33	29	24	

COUNTERFLANGES OPTIONAL

*Performance data refer to a single head in operation



OVERALL DIMENSIONS AND WEIGHTS

MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4LD 80 - 160 X	90	80 PN10	138	160	200	8	18	535	150	385	550	280	270	510	205	305	135	83
A4LD 80 - 160 Y	90	80 PN10	138	160	200	8	18	535	150	385	550	280	270	510	205	305	135	79
A4LD 80 - 160 Z	80	80 PN10	138	160	200	8	18	485	150	335	550	280	270	510	205	305	135	74
A4LD 80 - 160 W	80	80 PN10	138	160	200	8	18	485	150	335	550	280	270	510	205	305	135	72
A2LD 80 - 160 A	112	80 PN10	138	160	200	8	18	565	130	435	543	275	268	450	180	270	140	110
A2LD 80 - 160 B	132	80 PN10	138	160	200	8	18	690	150	540	550	280	270	510	205	305	135	175
A2LD 80 - 160 C	132	80 PN10	138	160	200	8	18	690	150	540	550	280	270	510	205	305	135	162
A2LD 80 - 160 D	132	80 PN10	138	160	200	8	18	690	150	540	550	280	270	510	205	305	135	141

NOCCHI A2LD - A4LD 100

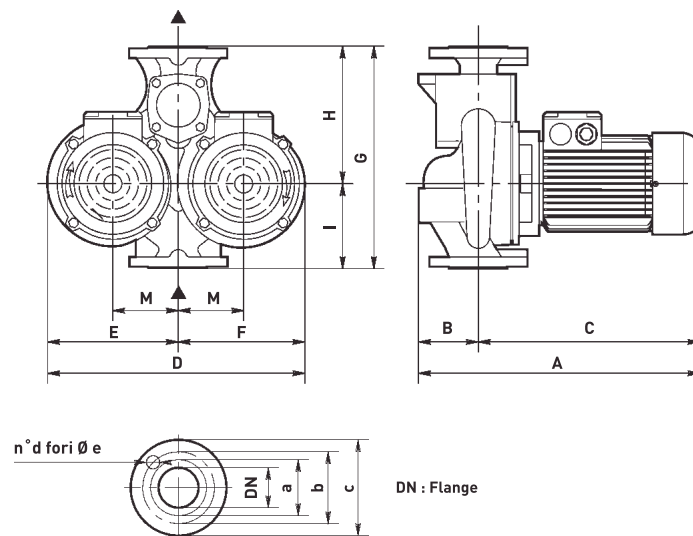
"IN LINE" MONOBLOC PUMP

PERFORMANCE TABLE

CODE	MODEL	Motor output	Amp.		n (min ⁻¹)	Q	L/ min m ³ /h	500	600	700	800	900	1000	1100	1200	1300	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
		kW	3x400 V	3x230 V				30	36	42	48	54	60	66	72	78	90	105	120	135	150	165	180	195	210	225	240
N8020910	A4LD 100 - 200W	1.5	38	6.6	4-pole	Manometric height m.c.a. / m.w.c.	8.2	7.8	7.4	7	6.5	6	5.3	4.6	4												
N8020920	A4LD 100 - 200Z	2.2	5.1	8.9	4-pole			10	9.7	9.3	8.9	8.5	8.0	7.5	7.0	6.0											
N8020930	A4LD 100 - 200Y	3.0	6.9	12	4-pole			12	11.7	11.5	11.3	11	10.5	10	9.5	8.5	7.0										
N8020940	A4LD 100 - 200X	4.0	9.2	16	4-pole			14.5	14.2	14	13.8	13.5	13.1	12.7	12.2	11	9.0	6.5									
N8020760	A2LD 100 - 200D	40	22.5	-	2-pole										23.3	22	20.5	18.5	16	10.5	7	3					
N8020770	A2LD 100 - 200C	12.5	27	-	2-pole										26.2	25.5	24	22	20	17.5	15	12	8.6	5			
N8020780	A2LD 100 - 200B	15	32	-	2-pole										27.8	27	25.5	23.5	21.5	19	16.5	13.8	10.8	7.5	3		
N8020790	A2LD 100 - 200A	15	32	-	2-pole											29	28	26	24.5	22	20	17.5	14	11.3	7.5	3.5	
N8020740	A2LD 100 - 200F	12.5	27	-	2-pole										32.1	31	29	27	24.5	22	19						
N8020750	A2LD 100 - 200E	15	32	-	2-pole											37.3	36.5	35	33	31	28.5	26					

COUNTERFLANGES OPTIONAL

*Performance data refer to a single head in operation



OVERALL DIMENSIONS AND WEIGHTS

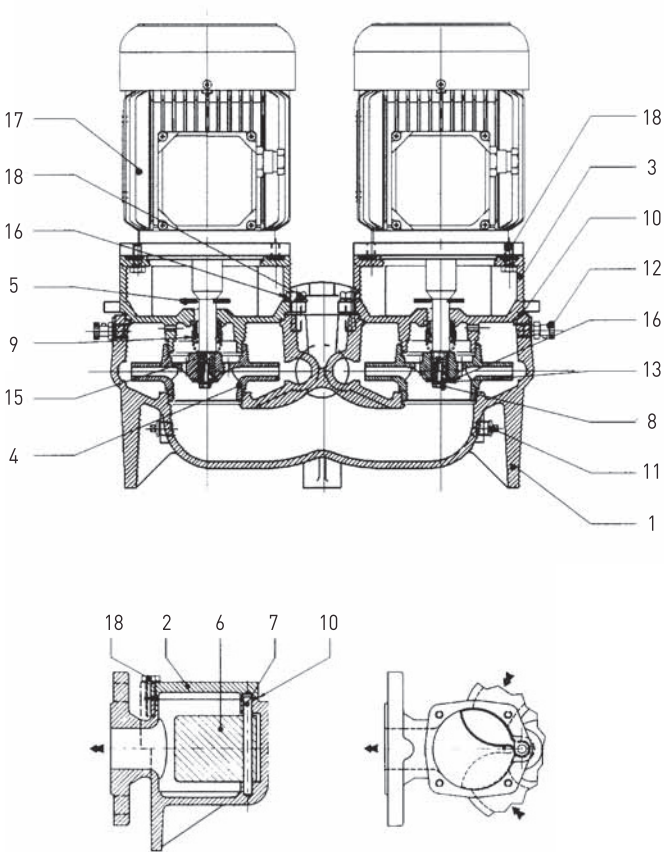
MODEL	MOTOR	DNa DNm	Flange mm.					Dimensions (mm)										Weight (kg)
			A	B	C	D	E	A	B	C	D	E	F	G	H	I	L	
A4LD 100 - 200 X	112	100 PN10	158	180	220	8	18	615	180	435	670	325	345	630	240	390	165	150
A4LD 100 - 200 Y	100	100 PN10	158	180	220	8	18	605	180	425	670	325	345	630	240	390	165	138
A4LD 100 - 200 Z	100	100 PN10	158	180	220	8	18	605	180	425	670	325	345	630	240	390	165	130
A4LD 100 - 200 W	90	100 PN10	158	180	220	8	18	535	180	355	670	325	345	630	240	390	165	110
A2LD 100 - 200 E	132	100 PN10	158	180	220	8	18	720	180	540	670	325	345	630	240	390	165	162
A2LD 100 - 200 F	132	100 PN10	158	180	220	8	18	720	180	540	670	325	345	630	240	390	165	162
A2LD 100 - 200 D	132	100 PN10	158	180	220	8	18	720	180	540	670	325	345	630	240	390	165	162
A2LD 100 - 200 C	132	100 PN10	158	180	220	8	18	720	180	540	670	325	345	630	240	390	165	162
A2LD 100 - 200 B	132	100 PN10	158	180	220	8	18	720	180	540	670	325	345	630	240	390	165	162
A2LD 100 - 200 A	132	100 PN10	158	180	220	8	18	720	180	540	670	325	345	630	240	390	165	162

NOCCHI A2LD - A4LD

"IN LINE" MONOBLOC PUMP

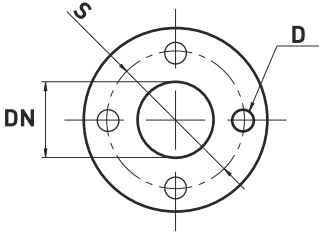
ILLUSTRATION SECTION

Component	
1	Pump body
2	Inspection cover
3	Housing - Cover
4	Impeller
5	Deflector
6	Shutter
7	Shutter pin
8	Rotary nut
9	Mechanical gasket
10	Flat seal
11	Drain plug
12	Bleed plug
13	Rubber washer
14	Hex nut
15	Tab
16	Washer
17	Motor
18	Screw



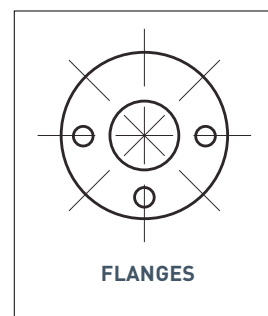
NOCCHI ACCESSORIES

CIRCULAR FLANGES

CODE	DESCRIPTION	MATERIAL	TYPE	S	D	n° F	PN	DN
B7098KKK			To weld	110	19	4	10 - 16	DN 40
B7097KKK			Threaded	110	19	4	10 - 16	1 1/2"
ZB901890			To weld	125	18	4	10 - 16	DN 50
B7050KKK			Threaded	125	18	4	10 - 16	2"
B7075KKK			To weld	145	18	4	10 - 16	DN 65
ZB901940			Threaded	145	18	8	10 - 16	2 1/2"
ZB901950			To weld	160	18	8	10 - 16	DN 80
ZB901900			Threaded	160	18	8	10 - 16	3"
ZB901920			To weld	180	18	8	10 - 16	DN 100
B7078KKK			To weld	210	18	8	10 - 16	DN 125
ZB901930				240	22	8	10 - 16	DN 150

GUIDE TO THE SELECTION OF PORTS AND COUNTERFLANGES

ACCESSORY	CIRCULAR FLANGES											
Port dimensions	1 1/2"	DN 40	2"	DN 50	DN 65	2 1/2"	3"	DN 80	DN 100	DN 125	DN 150	
PN	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	16	16	
	B7097KKK	B7098KKK	B7050KKK	ZB901890	B7075KKK	ZB901940	ZB901900	ZB901950	ZB901920	B7078KKK	ZB901930	
A2L/A4L (D) 40	●	●										
A2L/A4L (D) 50			●	●								
A2L/A4L (D) 65					●	●						
A2L/A4L (D) 80							●	●				
A2L/A4L (D) 100									●			
A4L 125										●		
A4L 150											●	



NOCCHI EASYBOOST

RESIDENTIAL - PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

COMPACT, ROBUST, HIGH HYDRAULIC PERFORMANCE, RELIABLE

NEW

These are units for the automatic pressure boosting on water distribution networks with single phase power supply, comprising: 2 electric pumps, electrical panel, base, suction and delivery manifolds, pressure switches, pressure gauge, delivery check valve.

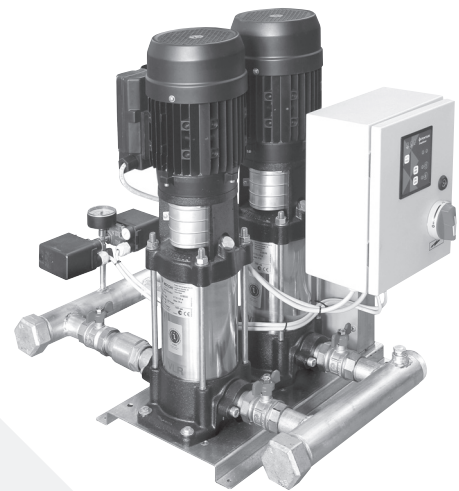
OPERATION DESCRIPTION

The pumps are controlled by two pressure switches with adjustable settings, connected to the electronic board via an electrical panel for:

- sequential start-up of the pumps
- inversion of start-up sequence
- provision for protection against dry-running
- timer settings (from 0 to 180").

When the mains pressure reaches the value for closure of the electric contact

of pressure switch no. 1, the pump is started up. If the pressure continues to fall, when the closing value of the second pressure switch is reached, the second pump is started up. When the mains pressure value increases, the pressure switches open their contact, leading to shutdown of the relative pump. At the end of each cycle, the automatic inverter changes the pump start-up sequence (pressure switch no. 1 associated with pump no. 1, then with pump no.2 in the next cycle, and so on).



NUMBER OF PUMPS		MAXIMUM FLOW RATE	
Main	Pilot	L/min	m³/h
2	-	from 200 to 360	from 12 to 21.6

APPLICATION DATA

APPLICATION DATA	CB	MULTINOX-XC	MULTINOX-A	MULTINOX-VE	DHR	VLR 2B	VLR 4
Maximum flow rate (m³/h)	16.8	12	19.2	19.2	28.8	6	14.4
Maximum head (m.c.a.)	60.5	53	72	83	63	125	109
Maximum operating pressure	9 bar	7	9 bar	9 bar. 12 bar (mxv 200/10)	10 bar	16 bar	16 bar
Power supply voltage	1~230 V / 3~400 V						
Frequency	50 Hz						
Control panel protection rating	IP55				IP54		
Electric pump protection rating	IP44				IP55		
Ambient temperature	+ 40°C			+ 50°C		+ 50°C	

NOCCHI EASYBOOST

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

ELECTRIC PUMP

- 2 CB - Twin impeller centrifugal on horizontal axis.
- 2 MULTINOX XC - Multi-cell centrifugal on horizontal axis.
- 2 MULTINOX A - Multi-cell self-priming centrifugal on horizontal axis.
- 2 MULTINOX VE - Multi-cell centrifugal on vertical axis.
- 2 DHR - Multi-cell centrifugal on vertical axis.
- 2 VLR - Multi-cell centrifugal on vertical axis.

BASE

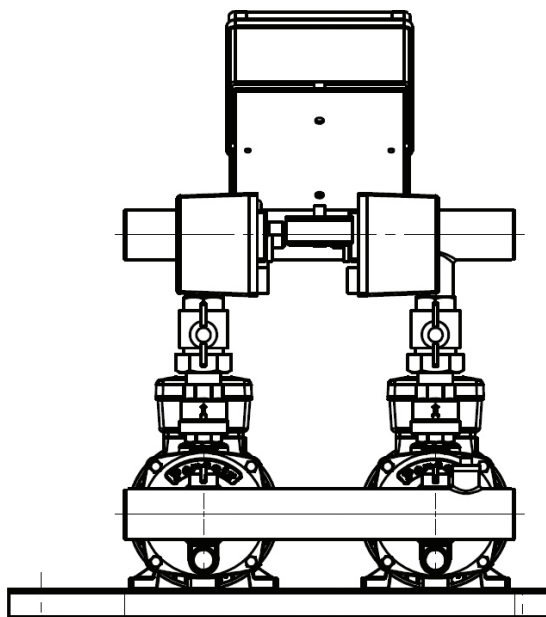
- In galvanized sheet steel

SUCTION MANIFOLD

- 2 brass ball valves
- 1 water filling hose

DELIVERY MANIFOLD

- 2 brass ball valves
- 2 check valves
- 1 pressure gauge
- 2 pressure switches



NOCCHI EASYBOOST

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

SINGLE PHASE ELECTRICAL PANEL

ELECTRICAL PANEL

- IP65 plastic enclosure
- Fuses
- Multi-function electronic board with integrated transformer for auxiliary circuit.
- Start-up relay for each pump.
- Overload protection by means of electronic board.
- Trimmer to set delay time from 0 to 180 sec, after opening of pressure switch contact (for each pump).

SIGNALS AND CONTROLS

- Manual-Automatic button
- ON/OFF buttons for each pump
- Power ON indicator led
- Pump running indicator led
- Indicator led to signal low level in tank on first collection or low pressure on suction manifold.
- Manual/Automatic mode indicator leds
- BMS with contacts for each pump indicating pump running and pump overload.

EXTERNAL CONTROL DEVICES

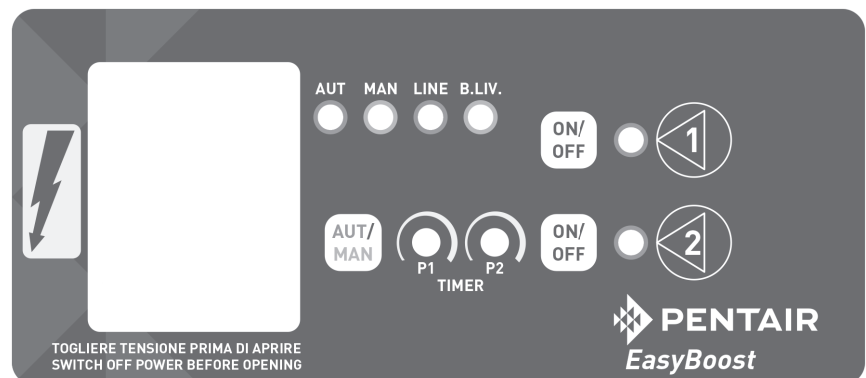
- Two differential ON/OFF pressure switches.

EXTERNAL CONTROL DEVICES

- ON/OFF float switch installed in the water collection tank, or
- Inverse pressure switch inserted in water supply line (aqueduct).

MAIN FUNCTIONS

- Sequential inversion of pump start-up at the end of each work cycle.
- ON/OFF control of tank level for first collection or pressure in supply pipeline via a float switch or other differential pressure switch.
- Settable pump timer.



NOCCHI EASYBOOST

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

THREE PHASE ELECTRICAL PANEL

ELECTRICAL PANEL

- IP 54 plastic enclosure
- Main switch
- Electronic boards
- Fuses and contactors for each pump
- Overload protection by means of electronic board
- Transformer with fuses for auxiliary circuit

MAIN FUNCTIONS

- Sequential inversion of pump start-up at the end of each work cycle.
- ON/OFF control of tank level for first collection or pressure in supply pipeline via a float switch or other differential pressure switch.
- Timer on last pump, settable between 0 and 180 sec., after opening of pressure switch operation contact.

SIGNALS AND CONTROLS

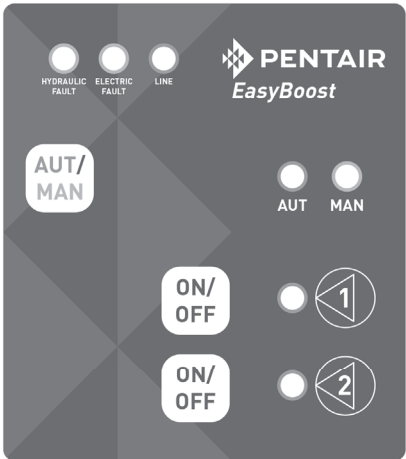
- M-0-T button (Manual - 0 - Automatic)
- ON/OFF buttons for each pump
- Power ON indicator led
- Pump running indicator led
- Indicator led to signal low level in tank on first collection or low pressure on suction manifold.
- Overload indicator led
- Manual/Automatic mode indicator leds
- BMS with contacts for each pump indicating pump running, pump overload, and water supply failure.
- RS232/RS485 communication.

EXTERNAL CONTROL DEVICES

- Two differential ON/OFF pressure switches.

EXTERNAL CONTROL DEVICES

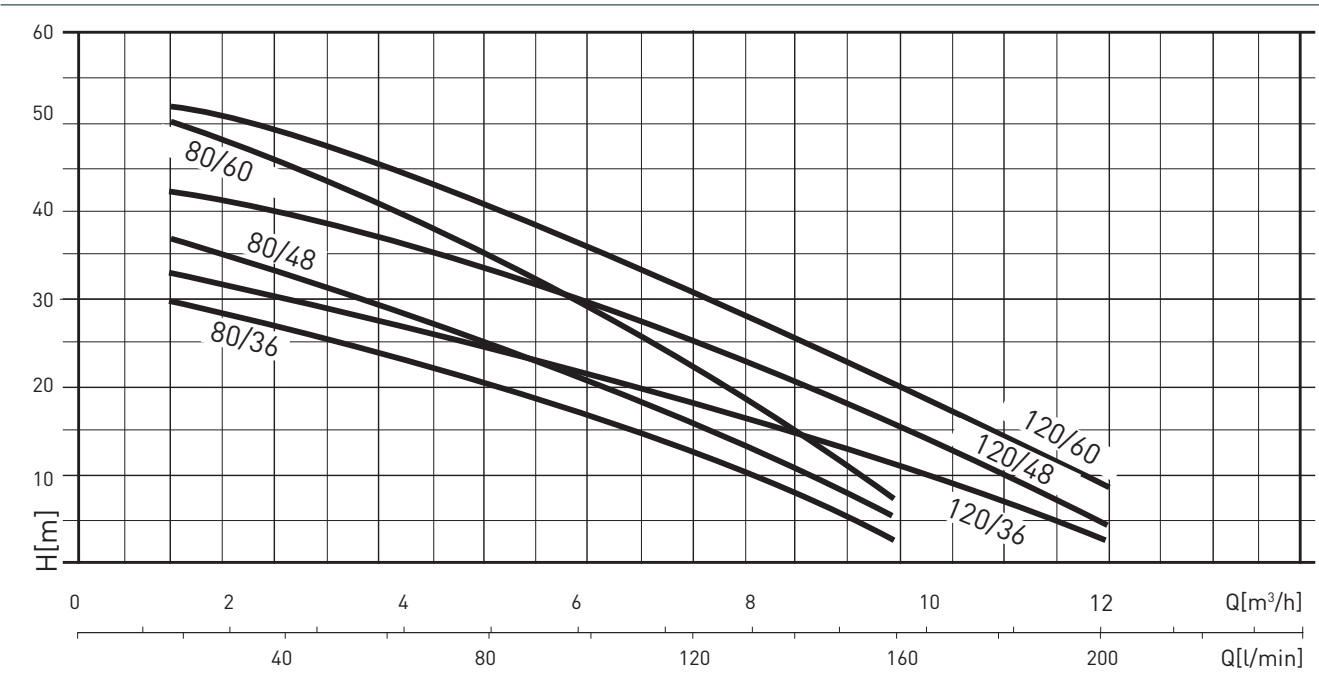
- ON/OFF float switch installed in the water collection tank, or
- Inverse pressure switch inserted in water supply line (aqueduct).



NOCCHI EASYBOOST - MULTINOX-XC

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	20	40	60	80	100	120	160	200
		m³/h	1.2	2.4	3.6	4.8	6	7.2	9.6	12
EASY20/MULTINOX-XC 80/36	2x0.3	m.c.a./m.w.c.	30	27	24	21	17	13	3	
EASY20/MULTINOX-XC 80/48	2x0.55		37	34	30	25	21	15	4	
EASY20/MULTINOX-XC 80/60	2x0.8		50	46	42	36	30	22	7	
EASY20/MULTINOX-XC 120/36	2x0.55		33	31	29	26	22	19	10	2
EASY20/MULTINOX-XC 120/48	2x0.75		42	39	37	34	30	25	15	4
EASY20/MULTINOX-XC 120/60	2x0.9		53	49	47	42	38	32	20	7

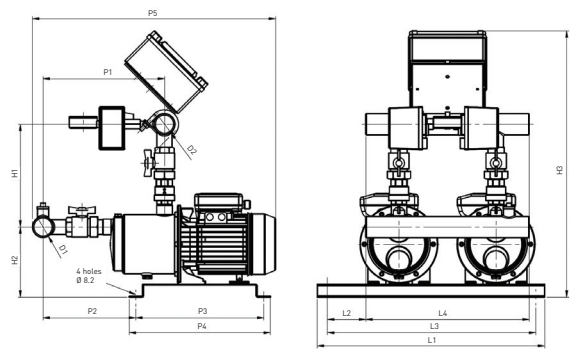
NOCCHI EASYBOOST - MULTINOX-XC

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

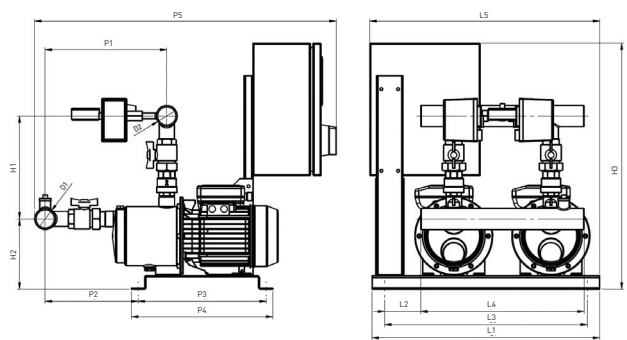
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V
EASY20/MULTINOX-XC 80/36M-GI	515	95	485	370	X	254	189	290	320	508	233	160	605	1-1/2"	1-1/2"	31	37
EASY20/MULTINOX-XC80/36T-GI	515	95	485	370	520	254	189	290	320	678	233	160	560	1-1/2"	1-1/2"	31	37
EASY20/MULTINOX-XC 80/48M-GI	515	95	485	370	X	254	189	290	320	508	233	160	605	1-1/2"	1-1/2"	35	41
EASY20/MULTINOX-XC80/48T-GI	515	95	485	370	520	254	189	290	320	678	233	160	560	1-1/2"	1-1/2"	35	41
EASY20/MULTINOX-XC 80/60M-GI	515	95	485	370	X	276	211	290	320	552	233	160	605	1-1/2"	1-1/2"	39	45
EASY20/MULTINOX-XC 80/60T-GI	515	95	485	370	520	276	211	290	320	700	233	160	560	1-1/2"	1-1/2"	39	45
EASY20/MULTINOX-XC 120/36M-GI	515	95	485	370	X	254	189	290	320	508	233	160	605	1-1/2"	1-1/2"	36	42
EASY20/MULTINOX-XC 120/36T-GI	515	95	485	370	520	254	189	290	320	678	233	160	560	1-1/2"	1-1/2"	36	42
EASY20/MULTINOX-XC 120/48M-GI	515	95	485	370	X	254	189	290	320	530	233	160	605	1-1/2"	1-1/2"	38	44
EASY20/MULTINOX-XC 120/48T-GI	515	95	485	370	520	254	189	290	320	678	233	160	560	1-1/2"	1-1/2"	38	44
EASY20/MULTINOX-XC 120/60M-GI	515	95	485	370	X	276	211	290	320	552	233	160	605	1-1/2"	1-1/2"	3	45
EASY20/MULTINOX-XC 120/60T-GI	515	95	485	370	520	276	211	290	320	700	233	160	560	1-1/2"	1-1/2"	3	45

SINGLE PHASE - MULTINOX-XC M



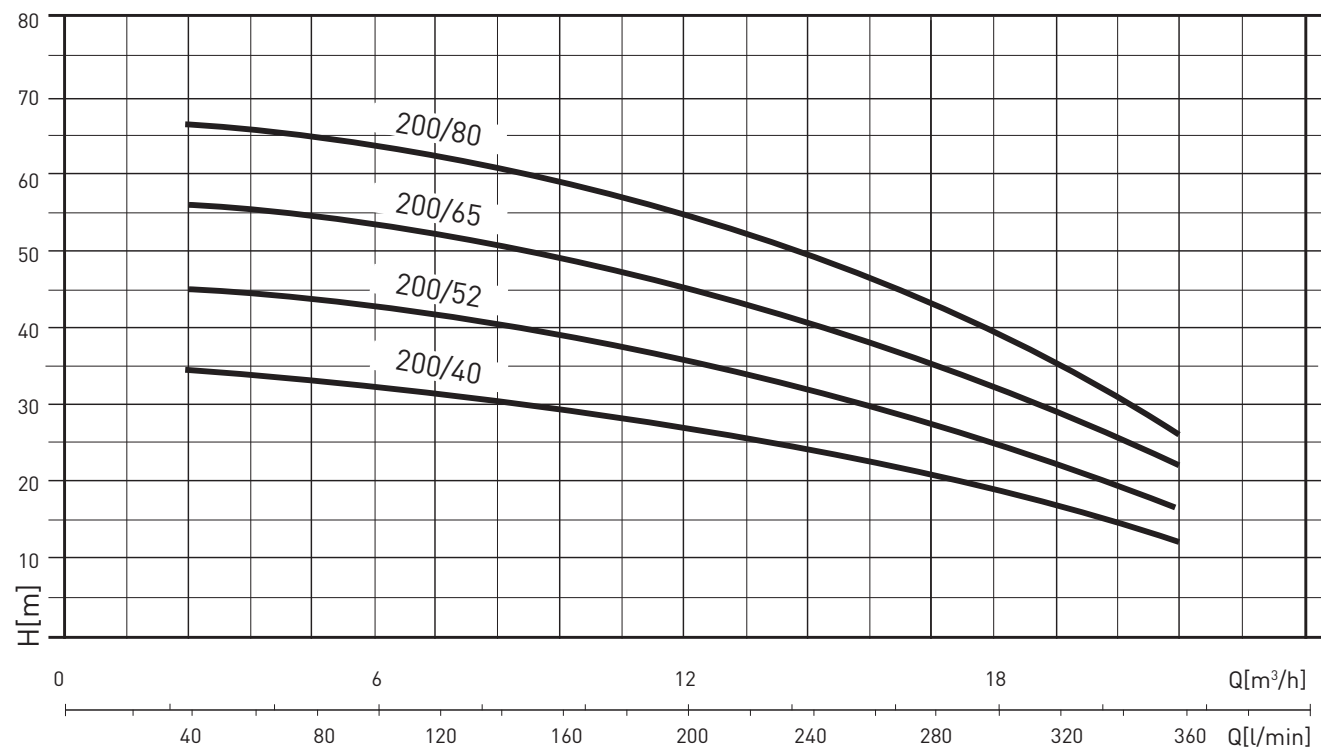
THREE PHASE - MULTINOX-XC T



NOCCHI EASYBOOST - MULTINOX-A

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	0	40	120	200	280	360
		m³/h	0	2.4	7.2	12	16.8	21.6
EASY20/MULTINOX-A 200/40	2x1	m.c.a./m.w.c.	35	34	32	28	22	13
EASY20/MULTINOX-A 200/52	2x1.2		47	45	43	37	29	18
EASY20/MULTINOX-A 200/65	2x1.5		58	56	53	46	36	22
EASY20/MULTINOX-A 200/80	2x1.7		68	67	64	55	43	26

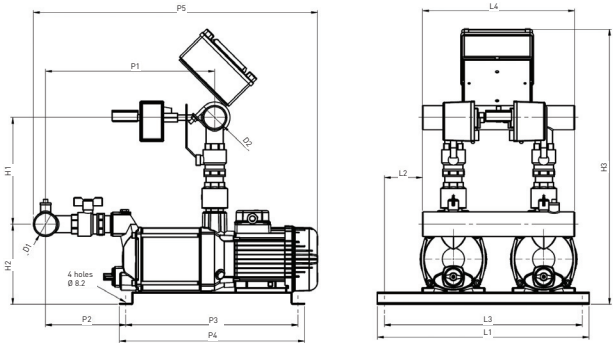
NOCCHI EASYBOOST - MULTINOX-A

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

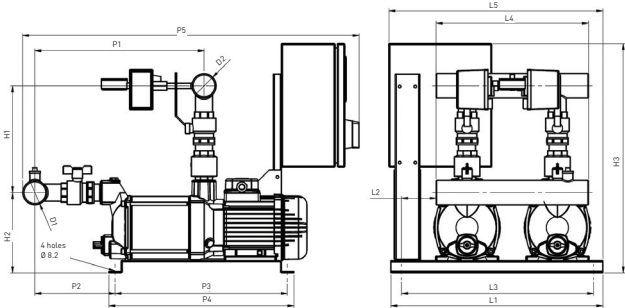
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V
EASY20/MULTINOX-A 200/40M-GI	515	95	485	370	X	331	114	420	450	611	260	195	670	2"	2"	49	55
EASY20/MULTINOX-A 200/40T-GI	515	95	485	370	520	331	114	420	450	740	260	195	560	2"	2"	49	55
EASY20/MULTINOX-A 200/52M-GI	515	95	485	370	X	358	141	420	450	638	260	195	670	2"	2"	53	59
EASY20/MULTINOX-A 200/52T-GI	515	95	485	370	520	358	141	420	450	766	260	195	560	2"	2"	53	59
EASY20/MULTINOX-A 200/65M-GI	515	95	485	370	X	385	168	420	450	665	260	195	670	2"	2"		63
EASY20/MULTINOX-A 200/65T-GI	515	95	485	370	520	385	168	420	450	794	260	195	560	2"	2"		63
EASY20/MULTINOX-A 200/80T-GI	515	95	485	370	520	412	195	420	450	820	260	195	560	2"	2"		67

SINGLE PHASE - MULTINOX-A M



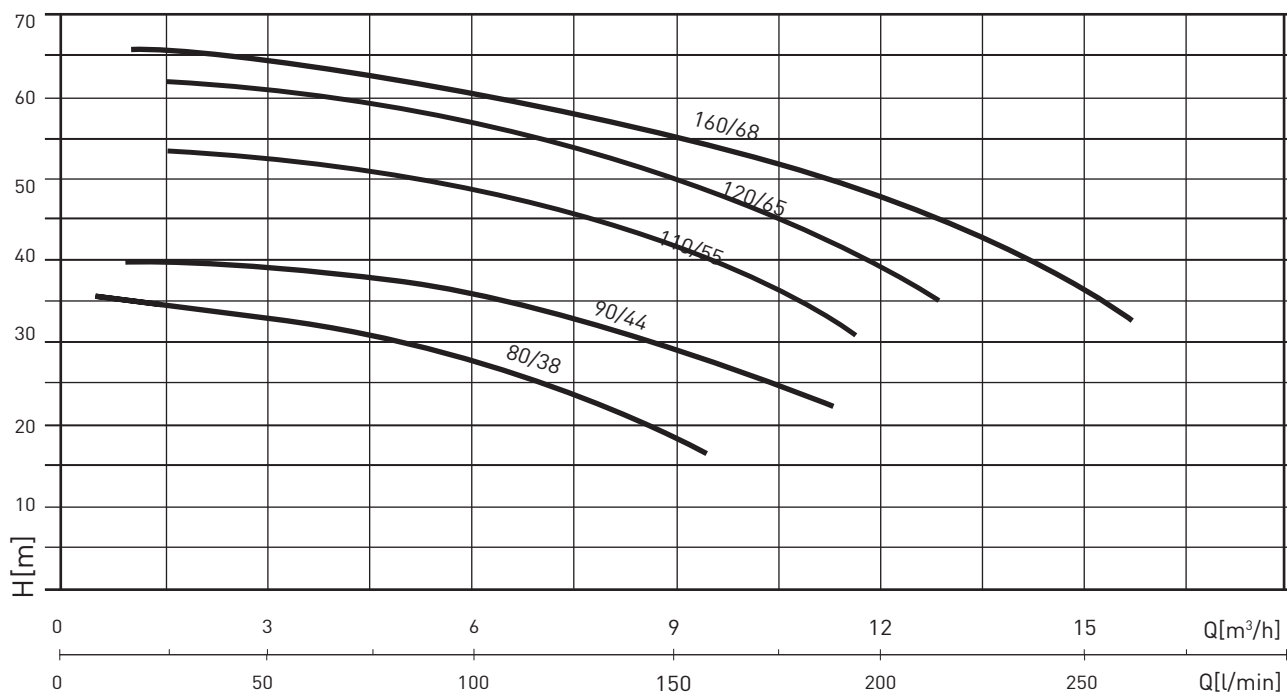
THREE PHASE - MULTINOX-A T



NOCCHI EASYBOOST - CB

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	40	80	100	160	180	200	220	280
		m³/h	2.4	4.8	6	9.6	10.8	12	13.2	16.8
EASY20/CB 80/38	2x0.55	m.c.a./m.w.c.	33	30	28	17				
EASY20/CB 90/44	2x0.74		40	37	35	27	21			
EASY20/CB 110/55	2x1.10		51	49	47	38	33	28		
EASY20/CB 120/65	2x1.50		61	59	57	50	47	40	33	
EASY20/CB 160/68	2x2.20			61	59	54	52	49	45	32

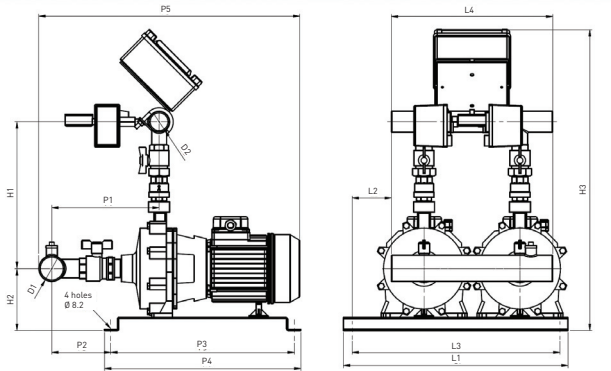
NOCCHI EASYBOOST - CB

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

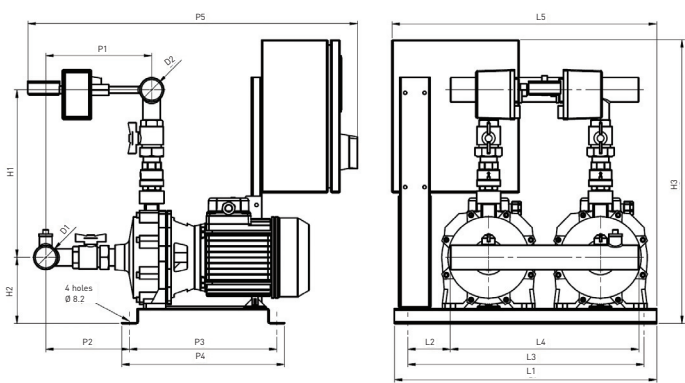
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)																Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V	
EASY20/CB 80/38M-GI	515	95	485	370	X	209	165	290	320	542	328	130	671	1-1/2"	1-1/2"	34	40	
EASY20/CB 80/38T-GI	515	95	485	370	520	209	165	290	320	652	328	130	560	1-1/2"	1-1/2"	34	40	
EASY20/CB 90/44M-GI	515	95	485	370	X	209	165	290	320	542	328	130	671	1-1/2"	1-1/2"	42	48	
EASY20/CB 90/44T-GI	515	95	485	370	520	209	165	290	320	652	328	130	560	1-1/2"	1-1/2"	42	48	
EASY20/CB 110/55M-GI	515	95	485	370	X	246	135	420	450	600	335	142	690	2"	1-1/2"	62	68	
EASY20/CB 110/55T-GI	515	95	485	370	520	246	135	420	450	758	335	142	560	2"	1-1/2"	62	68	
EASY20/CB 120/65M-GI	515	95	485	370	X	246	135	420	450	600	335	142	690	2"	1-1/2"		70	
EASY20/CB 120/65T-GI	515	95	485	370	520	246	135	420	450	758	335	142	560	2"	1-1/2"		70	
EASY20/CB 160/68T-GI	515	95	485	370	520	246	135	420	450	758	335	142	560	2"	1-1/2"	63	69	

SINGLE PHASE - CB M



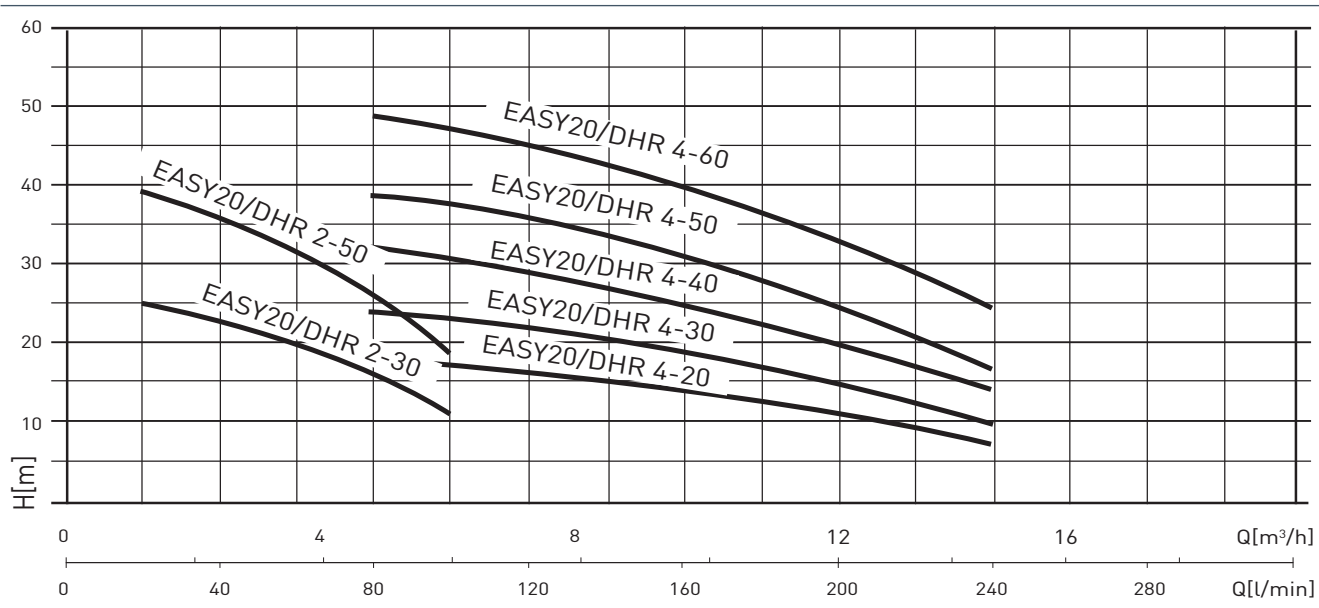
THREE PHASE - CB T



NOCCHI EASYBOOST - DHR 2/4

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	20	60	80	100	160	200	240
		m³ / h	1.2	3.6	4.8	6	9.6	12	14.4
EASY20/DHR 2-30	2x0.30	m.c.a. / m.w.c.	25	19	16	12			
EASY20/DHR 2-50	2x0.50		39	30	23	16			
EASY20/DHR 4-20	2x0.37				17	16	13	11	7
EASY20/DHR 4-30	2x0.5				24	23	18	14	10
EASY20/DHR 4-40	2x0.70				32	30	25	20	14
EASY20/DHR 4-50	2x0.90				39	38	31	25	17
EASY20/DHR 4-60	2x1.2				49	47	41	34	25

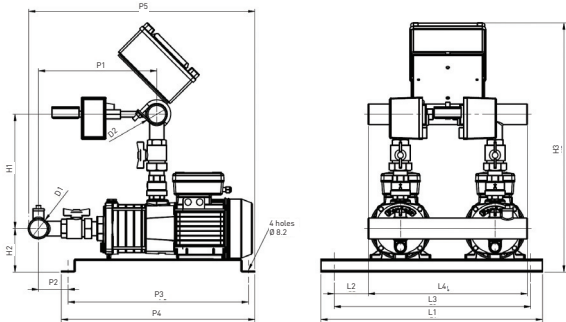
NOCCHI EASYBOOST - DHR 2/4

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

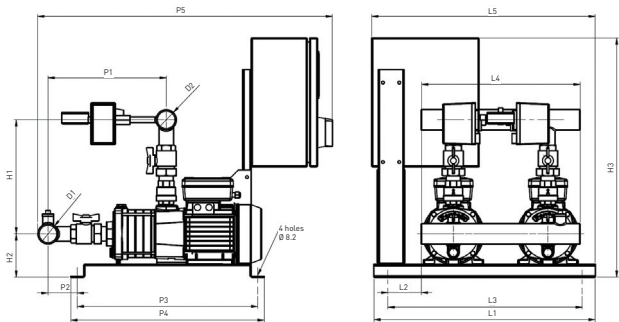
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V
EASY20/DHR 2-30M-GI	515	95	485	370	X	311	105	420	450	720	265	100	578	1-1/2"	1-1/2"	32	38
EASY20/DHR 2-30T-GI	515	95	485	370	520	311	105	420	450	723	265	100	560	1-1/2"	1-1/2"	32	38
EASY20/DHR 2-50M-GI	515	95	485	370	X	275	69	420	450	685	265	100	578	1-1/2"	1-1/2"	35	41
EASY20/DHR 2-50T-GI	515	95	485	370	520	275	69	420	450	687	265	100	560	1-1/2"	1-1/2"	35	41
EASY20/DHR 4-20M-GI	515	95	485	370	X	357	30	420	450	524	267	110	590	2"	1-1/2"	34	40
EASY20/DHR 4-20T-GI	515	95	485	370	520	357	30	420	450	654	267	110	560	2"	1-1/2"	34	40
EASY20/DHR 4-30M-GI	515	95	485	370	X	357	57	420	450	551	267	110	590	2"	1-1/2"	34	40
EASY20/DHR 4-30T-GI	515	95	485	370	520	357	57	420	450	681	267	110	560	2"	1-1/2"	34	40
EASY20/DHR 4-40M-GI	515	95	485	370	X	357	84	420	450	578	267	110	590	2"	1-1/2"	36	42
EASY20/DHR 4-40T-GI	515	95	485	370	520	357	84	420	450	708	267	110	560	2"	1-1/2"	36	42
EASY20/DHR 4-50M-GI	515	95	485	370	X	357	111	420	450	605	267	110	590	2"	1-1/2"	40	46
EASY20/DHR 4-50T-GI	515	95	485	370	520	357	111	420	450	735	267	110	560	2"	1-1/2"	40	46
EASY20/DHR 4-60M-GI	515	95	485	370	X	357	138	420	450	632	267	110	590	2"	1-1/2"	46	52
EASY20/DHR 4-60T-GI	515	95	485	370	520	357	138	420	450	762	267	110	560	2"	1-1/2"	46	52

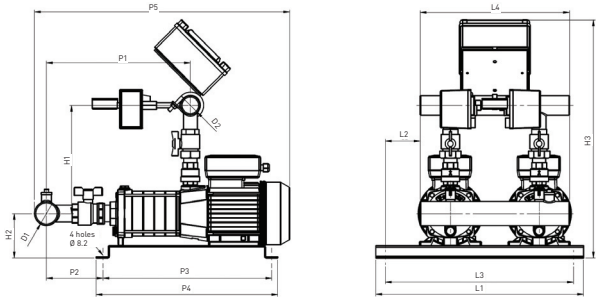
SINGLE PHASE - DHR 2- M



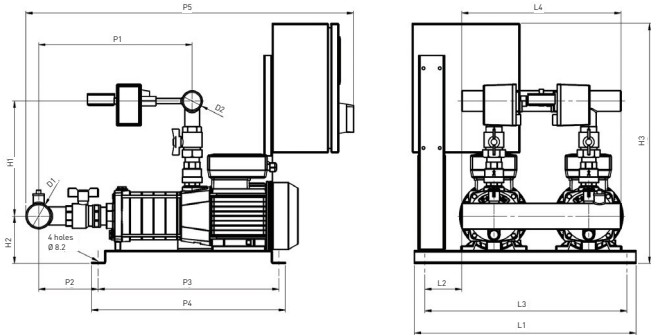
THREE PHASE - DHR 2-4J T



SINGLE PHASE - DHR 4- M



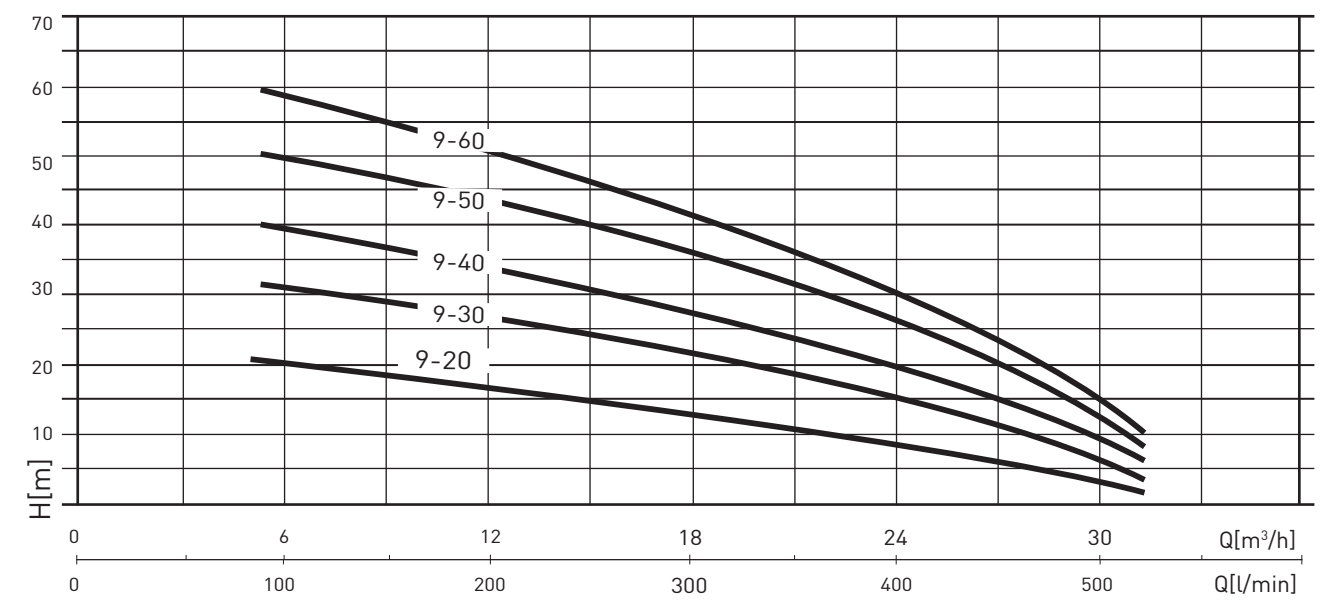
THREE PHASE - DHR



NOCCHI EASYBOOST - DHR 9

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	80	160	240	320	400	480
		m³ / h	4.8	9.6	14.4	19.2	24	28.8
EASY20/DHR 9-20	2x0.65	m.c.a. / m.w.c.	20	19	16	13	9	5
EASY20/DHR 9-30	2x0.95		31	29	26	21	16	9
EASY20/DHR 9-40	2x1.3		40	38	33	27	19	10
EASY20/DHR 9-50	2x1.6		51	49	43	36	26	14
EASY20/DHR 9-60	2x1.9		60	56	49	40	29	14

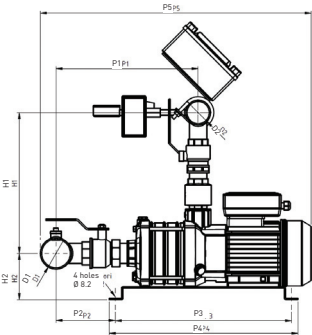
NOCCHI EASYBOOST - DHR 9

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

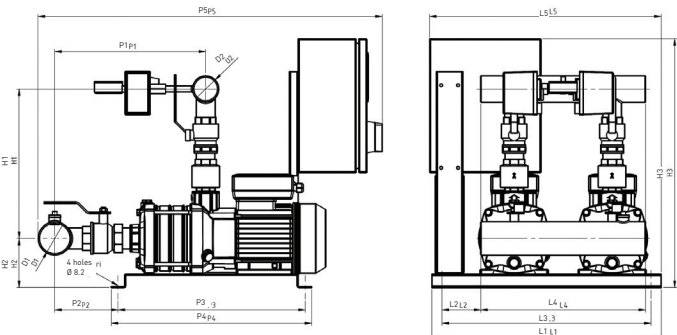
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V
EASY20/DHR 9-20M-GI	515	95	485	370	X	280	82	420	450	588	110	335	660	2-1/2"	2"	54	54
EASY20/DHR 9-20T-GI	515	95	485	370	520	280	82	420	450	713	110	335	560	2-1/2"	2"	54	54
EASY20/DHR 9-30M-GI	515	95	485	370	X	280	82	420	450	588	110	335	660	2-1/2"	2"	55	55
EASY20/DHR 9-30T-GI	515	95	485	370	520	280	82	420	450	713	110	335	560	2-1/2"	2"	55	55
EASY20/DHR 9-40M-GI	515	95	485	370	X	310	112	420	450	618	110	335	660	2-1/2"	2"	61	57
EASY20/DHR 9-40T-GI	515	95	485	370	520	310	112	420	450	743	110	335	560	2-1/2"	2"	61	57
EASY20/DHR 9-50M-GI	515	95	485	370	X	340	142	420	450	648	110	335	660	2-1/2"	2"		62
EASY20/DHR 9-50T-GI	515	95	485	370	520	340	142	420	450	773	110	335	560	2-1/2"	2"		62
EASY20/DHR 9-60T-GI	515	95	485	370	520	370	172	420	450	803	110	335	560	2-1/2"	2"		65

SINGLE PHASE - DHR 9- M



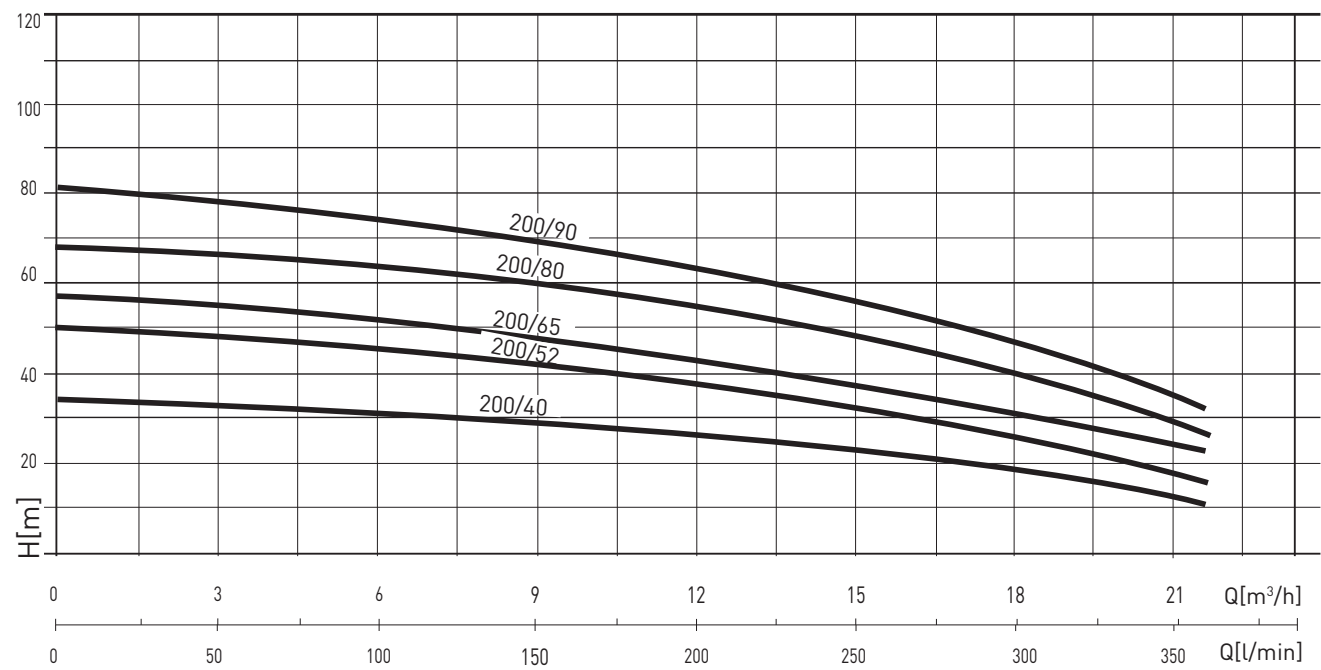
THREE PHASE - DHR 9- T



NOCCHI EASYBOOST - MULTINOX-VE

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	0	40	120	200	280	360
		m³/h	0	2.4	7.2	12	16.8	21.6
EASY20/MX-V 200/40	2x1	m.c.a./m.w.c.	35	34	32	28	22	13
EASY20/MX-V 200/52	2x1.2		47	45	43	37	29	18
EASY20/MX-V 200/65	2x1.5		58	56	53	46	36	22
EASY20/MX-V 200/80	2x1.7		68	67	64	55	43	26
EASY20/MX-V 200/90	2x1.9		80	61	59	54	52	49

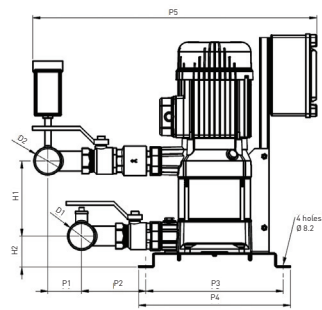
NOCCHI EASYBOOST - MULTINOX-VE

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

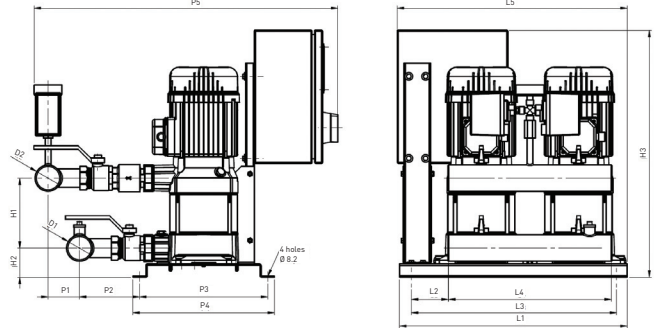
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V
EASY20/MX-V 200/40M-GI	515	95	485	370	X	71	138	290	320	675	158	66	500	2"	2"	69	75
EASY20/MX-V 200/40T-GI	515	95	485	370	520	71	138	290	320	690	158	66	560	2"	2"	69	75
EASY20/MX-V 200/52M-GI	515	95	485	370	X	71	138	290	320	675	185	66	500	2"	2"	73	79
EASY20/MX-V 200/52T-GI	515	95	485	370	520	71	138	290	320	690	185	66	560	2"	2"	73	79
EASY20/MX-V 200/65M-GI	515	95	485	370	X	71	138	290	320	675	212	66	510	2"	2"		83
EASY20/MX-V 200/65T-GI	515	95	485	370	520	71	138	290	320	690	212	66	560	2"	2"		83
EASY20/MX-V 200/80T-GI	515	95	485	370	520	71	138	290	320	690	239	66	560	2"	2"		87
EASY20/MX-V 200/90T-GI	515	95	485	370	520	71	138	290	320	690	266	66	560	2"	2"		91

SINGLE PHASE - MX-V M



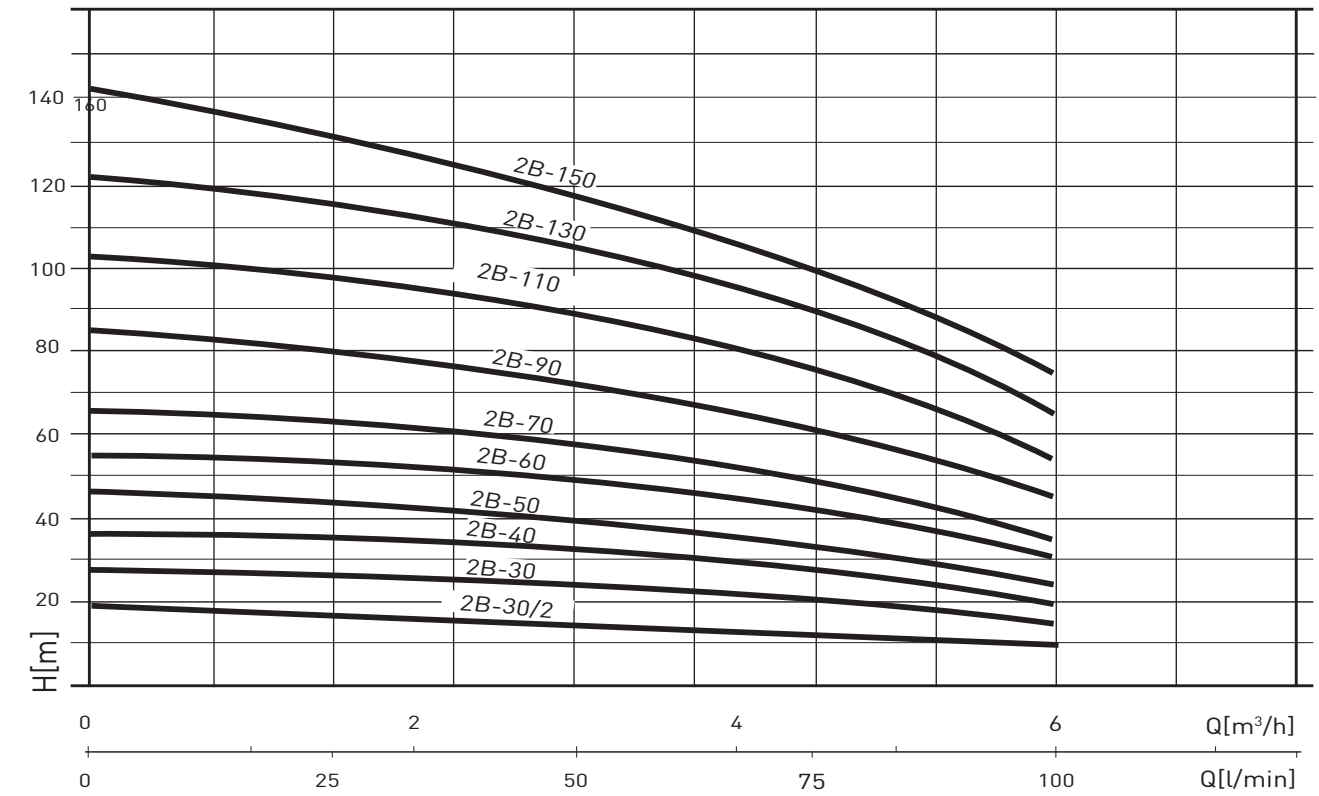
THREE PHASE - MX-V T



NOCCHI EASYBOOST - VLR 2B

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	Q	L/min	20	40	60	80	100
			m³/h	1.2	2.4	3.6	4.8	6
EASY20/VLR 2B-30/2	2x0.37	m.c.a. / m.w.c.		18	17	16	13	10
EASY20/VLR 2B-30	2x0.37			27	26	23	20	15
EASY20/VLR 2B-40	2x0.55			36	34	31	26	20
EASY20/VLR 2B-50	2x0.55			45	43	39	33	25
EASY20/VLR 2B-60	2x0.75			54	51	46	39	30
EASY20/VLR 2B-70	2x0.75			64	60	54	46	35
EASY20/VLR 2B-90	2x1.1			82	77	70	59	45
EASY20/VLR 2B-110	2x1.1			100	94	85	72	55
EASY20/VLR 2B-130	2x1.5			118	111	101	85	65
EASY20/VLR 2B-150	2x1.5			136	128	116	99	75

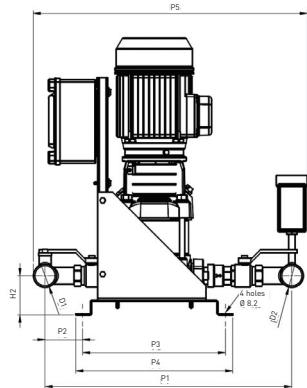
NOCCHI EASYBOOST - VLR 2B

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

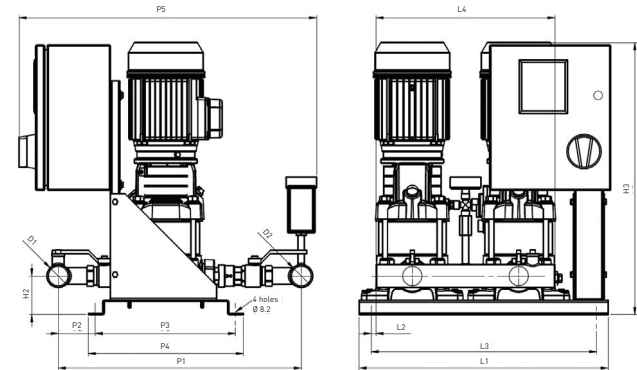
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)																Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V	
EASY20/VLR2B 30/2M-GI	515	95	485	370	X	508	80	290	320	562	X	80	500	1-1/2"	1-1/2"	62	68	
EASY20/VLR2B 30/2T-GI	515	95	485	370	520	508	80	290	320	620	X	80	560	1-1/2"	1-1/2"	62	68	
EASY20/VLR2B 30M-GI	515	95	485	370	X	508	80	290	320	562	X	80	500	1-1/2"	1-1/2"	64	70	
EASY20/VLR2B 30T-GI	515	95	485	370	520	508	80	290	320	620	X	80	560	1-1/2"	1-1/2"	64	70	
EASY20/VLR2B 40M-GI	515	95	485	370	X	508	80	290	320	562	X	80	500	1-1/2"	1-1/2"	68	74	
EASY20/VLR2B 40T-GI	515	95	485	370	520	508	80	290	320	620	X	80	560	1-1/2"	1-1/2"	68	74	
EASY20/VLR2B 50M-GI	515	95	485	370	X	508	80	290	320	562	X	80	520	1-1/2"	1-1/2"	72	78	
EASY20/VLR2B 50T-GI	515	95	485	370	520	508	80	290	320	620	X	80	560	1-1/2"	1-1/2"	72	78	
EASY20/VLR2B 60M-GI	515	95	485	370	X	508	80	290	320	562	X	80	565	1-1/2"	1-1/2"	74	80	
EASY20/VLR2B 60T-GI	515	95	485	370	520	508	80	290	320	620	X	80	565	1-1/2"	1-1/2"	74	80	
EASY20/VLR2B 70M-GI	515	95	485	370	X	508	80	290	320	562	X	80	580	1-1/2"	1-1/2"	88	94	
EASY20/VLR2B 70T-GI	515	95	485	370	520	508	80	290	320	620	X	80	580	1-1/2"	1-1/2"	88	94	
EASY20/VLR2B 90M-GI	515	95	485	370	X	508	80	290	320	562	X	80	620	1-1/2"	1-1/2"	90	96	
EASY20/VLR2B 90T-GI	515	95	485	370	520	508	80	290	320	620	X	80	620	1-1/2"	1-1/2"	90	96	
EASY20/VLR2B 110M-GI	515	95	485	370	X	508	80	290	320	562	X	80	655	1-1/2"	1-1/2"	94	100	
EASY20/VLR2B 110T-GI	515	95	485	370	520	508	80	290	320	620	X	80	655	1-1/2"	1-1/2"	94	100	
EASY20/VLR2B 130M-GI	515	95	485	370	X	508	80	290	320	562	X	80	735	1-1/2"	1-1/2"	96	102	
EASY20/VLR2B 130T-GI	515	95	485	370	520	508	80	290	320	620	X	80	735	1-1/2"	1-1/2"	96	102	
EASY20/VLR2B 150M-GI	515	95	485	370	X	508	80	290	320	562	X	80	775	1-1/2"	1-1/2"	108	114	
EASY20/VLR2B 150T-GI	515	95	485	370	520	508	80	290	320	620	X	80	775	1-1/2"	1-1/2"	108	114	

SINGLE PHASE - VLR2B M



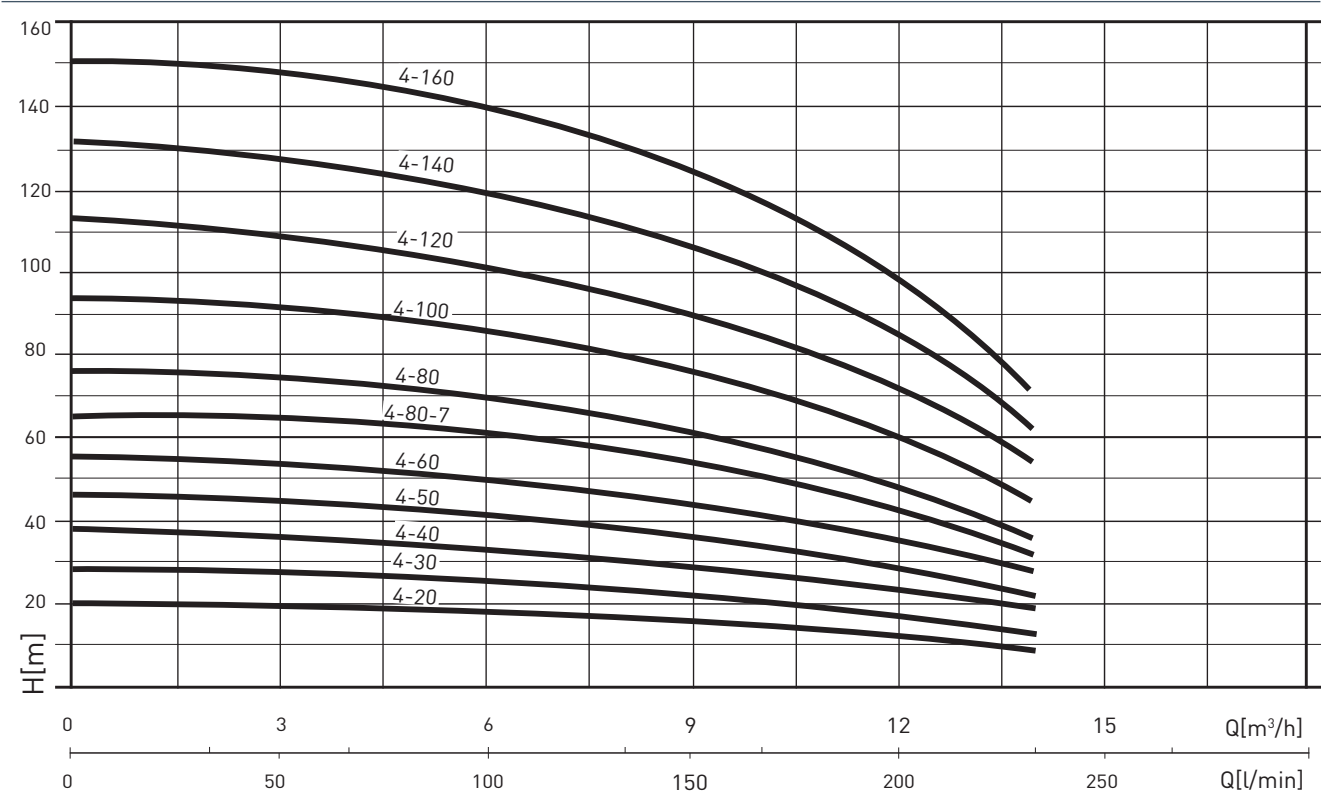
THREE PHASE - VLR2B T



NOCCHI EASYBOOST - VLR 4

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	Q	L/min	80	120	160	200	240
			m³/h	4.8	7.2	9.6	12.0	14.4
EASY20/VLR 4-20	2x0.37	m.c.a. / m.w.c.		18	16	15	12	9
EASY20/VLR 4-30	2x0.55			27	25	22	18	13
EASY20/VLR 4-40	2x0.75			35	33	29	24	18
EASY20/VLR 4-50	2x1.1			44	41	36	30	22
EASY20/VLR 4-60	2x1.1			53	49	44	36	27
EASY20/VLR 4-80/7	2x1.1			62	58	21	43	31
EASY20/VLR 4-80	2x1.5			71	66	58	49	35
EASY20/VLR 4-100	2x2.2			89	82	73	61	44
EASY20/VLR 4-120	2x2.2			106	99	87	73	53
EASY20/VLR 4-140	2x3			124	115	102	85	62
EASY20/VLR 4-160	2x3			142	131	117	97	71

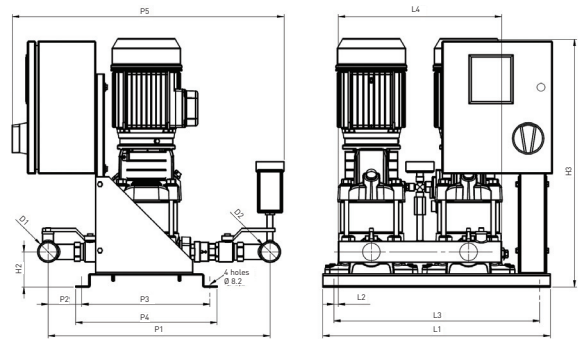
NOCCHI EASYBOOST - VLR 4

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

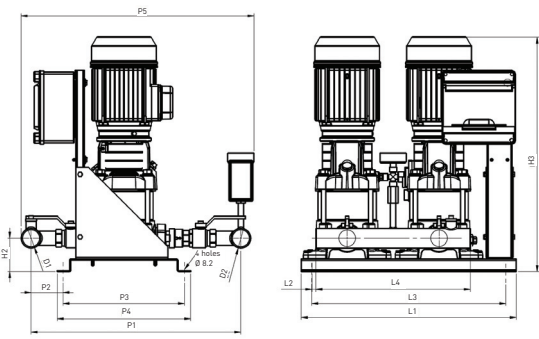
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)															Weight (kg)	
	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2	220V	400V
EASY20/VLR 4-20M-GI	515	95	485	370	X	622	115	290	320	682	X	80	500	2"	2"	59	69
EASY20/VLR 4-20T-GI	515	95	485	370	520	622	115	290	320	697	X	80	560	2"	2"	59	69
EASY20/VLR 4-30M-GI	515	95	485	370	X	622	115	290	320	682	X	80	510	2"	2"	60	70
EASY20/VLR 4-30T-GI	515	95	485	370	520	622	115	290	320	697	X	80	560	2"	2"	60	70
EASY20/VLR 4-40M-GI	515	95	485	370	X	622	115	290	320	682	X	80	565	2"	2"	68	74
EASY20/VLR 4-40T-GI	515	95	485	370	520	622	115	290	320	697	X	80	565	2"	2"	68	74
EASY20/VLR 4-50M-GI	515	95	485	370	X	622	115	290	320	682	X	80	590	2"	2"	72	78
EASY20/VLR 4-50T-GI	515	95	485	370	520	622	115	290	320	697	X	80	590	2"	2"	72	78
EASY20/VLR 4-60M-GI	515	95	485	370	X	622	115	290	320	682	X	80	620	2"	2"	74	80
EASY20/VLR 4-60T-GI	515	95	485	370	520	622	115	290	320	697	X	80	620	2"	2"	74	80
EASY20/VLR 4-80/7M-GI	515	95	485	370	X	622	115	290	320	682	X	80	720	2"	2"	88	94
EASY20/VLR 4-80/7T-GI	515	95	485	370	520	622	115	290	320	697	X	80	720	2"	2"	88	94
EASY20/VLR 4-80M-GI	515	95	485	370	X	622	115	290	320	682	X	80	720	2"	2"	88	94
EASY20/VLR 4-80T-GI	515	95	485	370	520	622	115	290	320	697	X	80	720	2"	2"	88	94
EASY20/VLR 4-100T-GI	515	95	485	370	520	622	115	290	320	697	X	80	775	2"	2"		100
EASY20/VLR 4-120T-GI	515	95	485	370	520	622	115	290	320	697	X	80	825	2"	2"		102
EASY20/VLR 4-140T-GI	515	95	485	370	520	622	115	290	320	697	X	80	935	2"	2"		108
EASY20/VLR 4-160T-GI	515	95	485	370	520	622	115	290	320	697	X	80	990	2"	2"		112

SINGLE PHASE - VLR4 M



THREE PHASE - VLR4 T



NOCCHI PRESSOMAT

INDUSTRIAL - PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HIGH HYDRAULIC EFFICIENCY, ROBUST, PIPELINES IN AISI 304 STAINLESS STEEL

These are automatic pressure booster sets on distribution mains with electric single phase and three phase power supply.

The pumps are controlled by two differential pressure switches with adjustable settings, connected to the analogue electronic board via an electrical panel for:

- sequential start-up of the pumps
- inversion of start-up sequence
- timer settable from 0 to 180", on three phase version only
- protection against dry-running.

When the mains pressure reaches the value for closure of the electric contact of pressure switch no. 1, the pump is started up.

If the pressure continues to fall, when

the closing value of the second pressure switch is reached, the second pump is started up.

When the mains pressure value increases, the pressure switches open their contact, leading to shutdown of the relative pump.

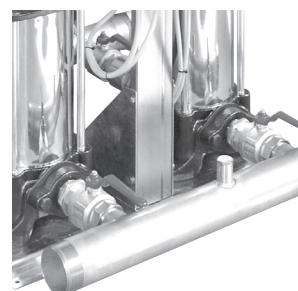
At the end of each cycle, the automatic inverter changes the pump start-up sequence (pressure switch no. 1 associated with pump no. 1, then with pump no.2 in the next cycle, and so on). In the event of simultaneous closure of the two pressure switches, the electronic board delays start-up of the second pump, thereby avoiding sudden pressure variations and overload of the power supply.



NUMBER OF PUMPS		MAXIMUM FLOW RATE	
Main	Pilot	L/min	m³/h
2	-	1400	84

MATERIAL

APPLICATION DATA	VLR 2B	VLR 4	VLR 8	VLR 16	VLR 32
Maximum flow rate (m³/h)	6	14.4	24	42	84
Maximum head (m.c.a.)	125	109	103	93	90
Maximum operating pressure	16 bar				
Power supply voltage	1~230V / 3~400V			3~400V	
Ambient temperature	+50° C				
Electric pump protection rating	IP55				
El. panel protection rating	IP54				



NOCCHI PRESSOMAT

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

ELECTRIC PUMP

- 2 VLR
- Centrifugal, multi-cell, vertical axis.

SUCTION MANIFOLD

In AISI 304 stainless steel with:

- 2 brass ball valves
- 2 check valves
- 1 water filling hose

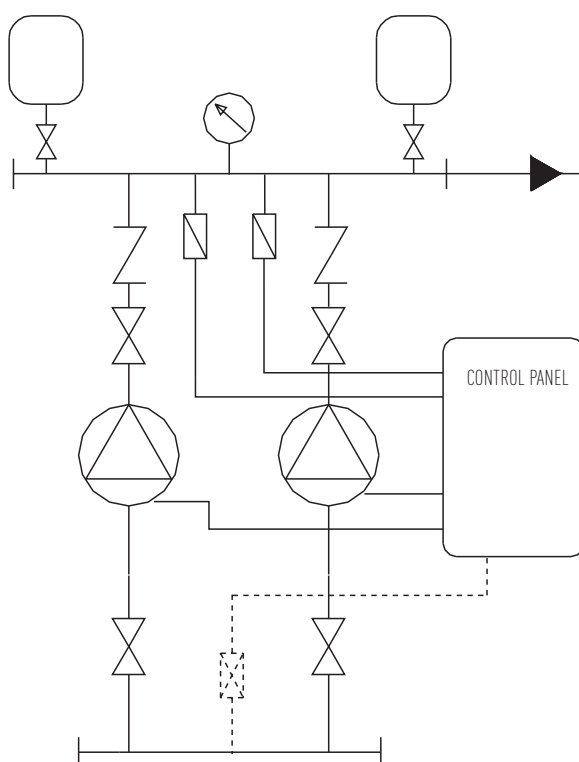
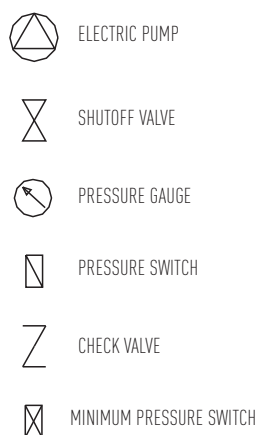
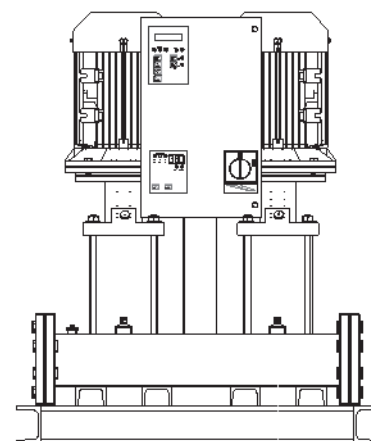
BASE

- In galvanized sheet steel on versions with VLR2B - VLR4 - VLR8 - VLR16/50.
- Profiles with galvanized steel on versions with VLR32.

DELIVERY MANIFOLD

In AISI 304 stainless steel with:

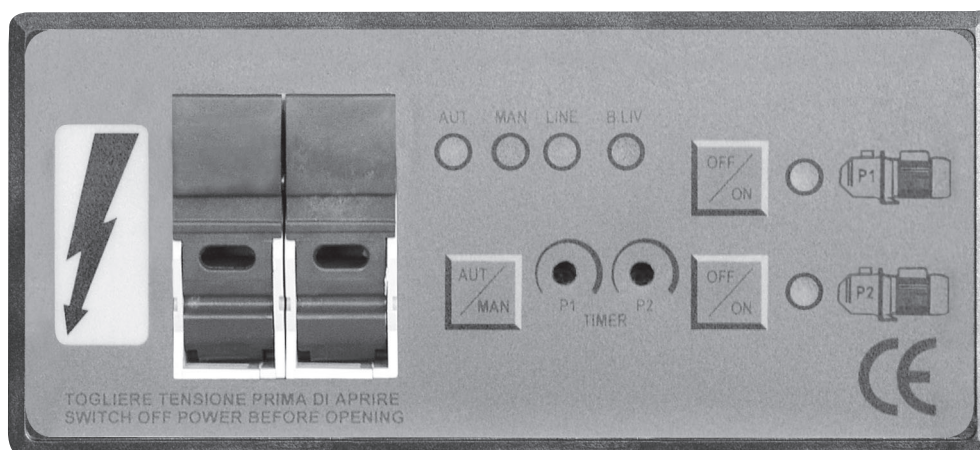
- 2 brass ball valves
- 1 pressure gauge
- 2 differential pressure switches



NOCCHI PRESSOMAT

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

SINGLE PHASE ELECTRICAL PANEL



ELECTRICAL PANEL

- IP55 plastic enclosure
- Main thermal magnetic switch
- Electronic control panel with manual-automatic selection buttons for each pump.
- SML Electronic board
- Pump start relay

MAIN FUNCTIONS

- Sequential inversion of pump start-up at the end of each work cycle.
- ON/OFF control of tank level for first collection or pressure in supply pipeline via a float switch or other differential pressure switch.

SIGNALS AND CONTROLS

- Power ON indicator led
- Indicator led to signal low water level in tank on first collection or low pressure on supply line (aqueduct).
- Pump running indicator led for each pump.

EXTERNAL CONTROL DEVICES

- Two differential ON/OFF pressure switches.

EXTERNAL CONTROL DEVICES

- ON/OFF float switch installed in the water collection tank, or
- Inverse pressure switch inserted in water supply line (aqueduct).

NOCCHI PRESSOMAT

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

THREE PHASE ELECTRICAL PANEL



ELECTRICAL PANEL

- IP 54 metal enclosure
- Main switch
- Keypad with SA electronic board.
- Fuses, contactors and thermal relay for each pump.
- Transformer with fuses for auxiliary circuit.
- M-0-T selector for each pump.
- Delta-Star starter for motors over 7.5 kW.

MAIN FUNCTIONS

- Sequential inversion of pump start-up at the end of each work cycle.
- ON/OFF control of tank level for first collection or pressure in supply pipeline via a float switch or other differential pressure switch.
- Pump timer, settable between 0 and 180 sec., after opening of pressure switch operation contact.

SIGNALS AND CONTROLS

- Power ON indicator led.
- Indicator led to signal low water level in tank on first collection or low pressure on supply line (aqueduct).
- Pump running indicator led for each pump.
- Indicator led to signal trip of one of the two overload thermal cut-outs.
- Automatic/Manual mode indicator led.
- Buttons for selection of automatic or manual control.
- Buttons for start and stop of each pump (manual mode).

EXTERNAL CONTROL DEVICES

- Two differential ON/OFF pressure switches.

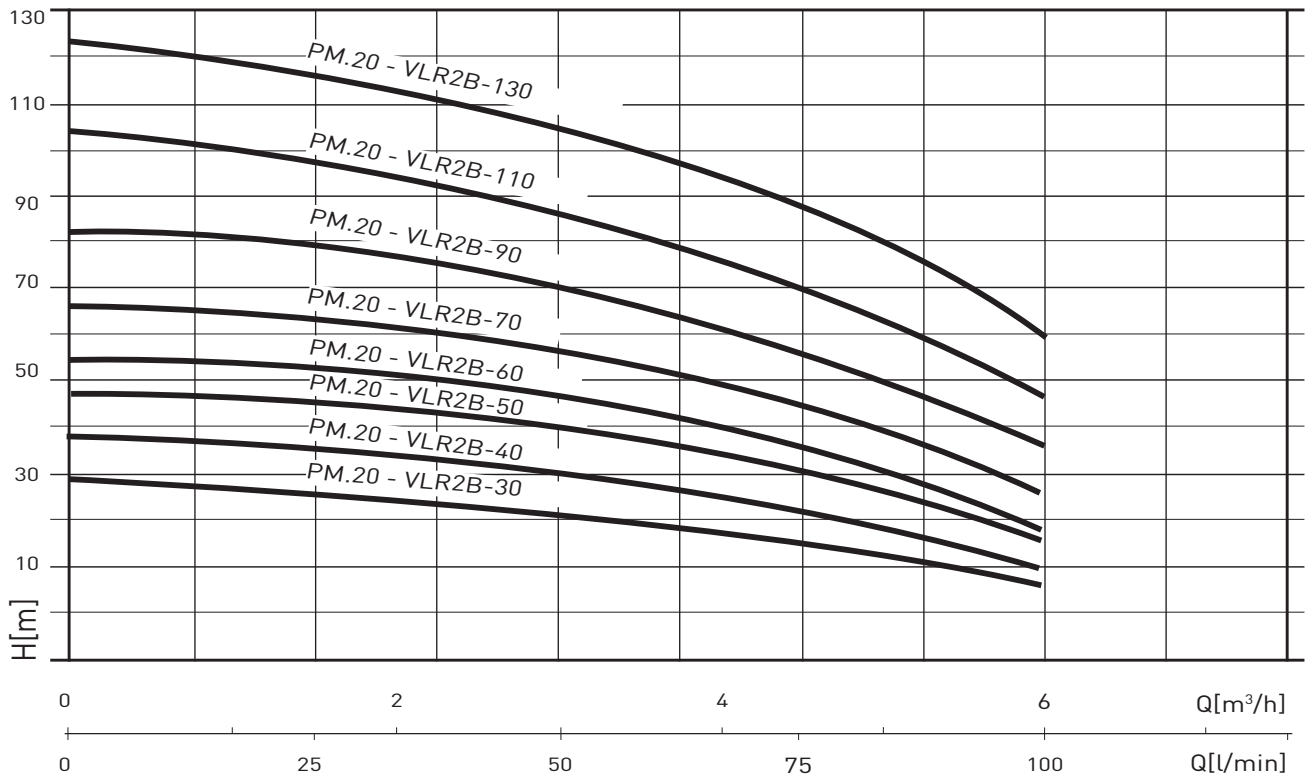
EXTERNAL CONTROL DEVICES

- ON/OFF float switch installed in the water collection tank, or
- 3 electrodes for electronic level control in first collection tank, or
- Inverse pressure switch inserted in water supply line (aqueduct).

NOCCHI PM.20 - VLR 2B

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

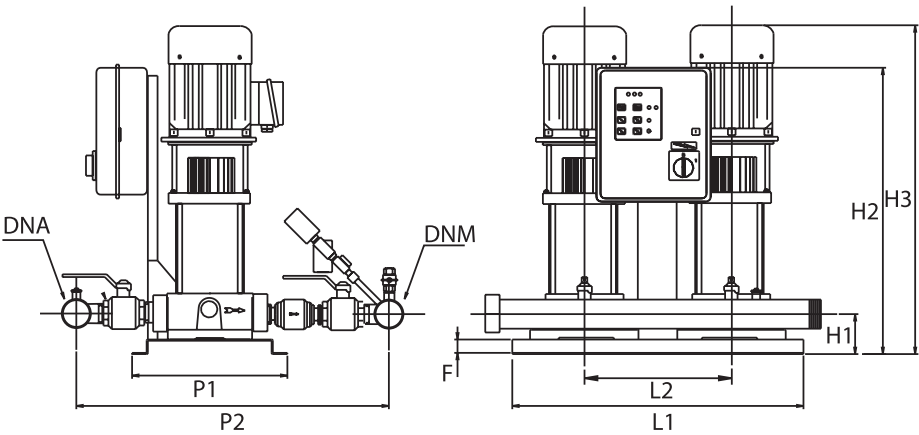
MODEL	kW	Q	L/min	20	40	60	80	100
			m³/h	1.2	2.4	3.6	4.8	6
PM.20-VLR 2B-30	2x0.37	m.c.a. / m.w.c.		27	26	23	20	15
PM.20-VLR 2B-40	2x0.55			36	34	31	26	20
PM.20-VLR 2B-50	2x0.55			45	43	39	33	25
PM.20-VLR 2B-60	2x0.75			54	51	46	39	30
PM.20-VLR 2B-70	2x0.75			64	60	54	46	35
PM.20-VLR 2B-90	2x1.1			82	77	70	59	45
PM.20-VLR 2B-110	2x1.1			100	94	85	72	55
PM.20-VLR 2B-130	2x1.5			118	111	101	85	65

NOCCHI PM.20 - VLR 2B

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

OVERALL DIMENSIONS AND WEIGHTS

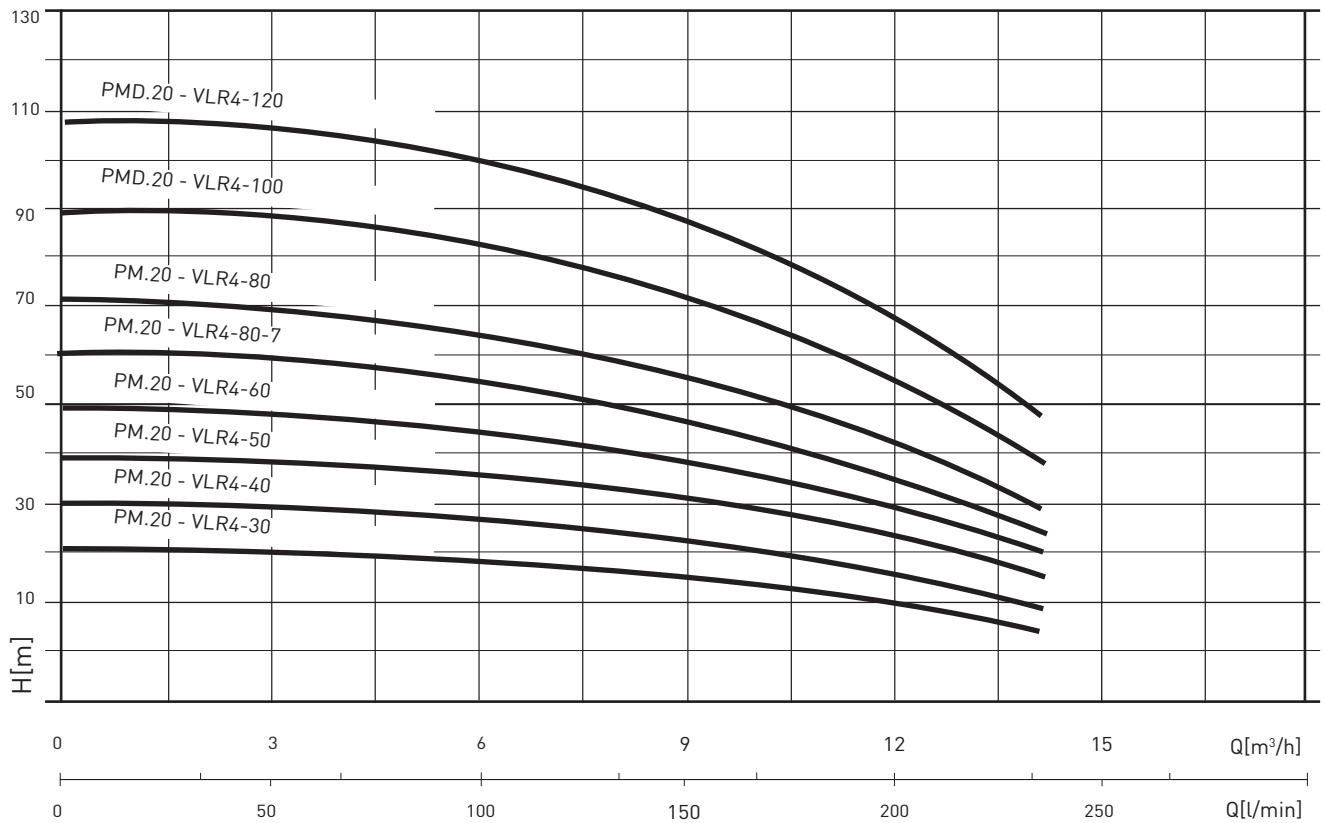
MODEL	Dimensions (mm)										Net weight (kg)	
	L1	P1	P2	H1	H2	H3	DNA	DNM	F	L2	230 V	400V
PM.20-VLR 2B-30	600	320	620	80	775	481	2"	2"	30	370	64	70
PM.20-VLR 2B-40	600	320	620	80	775	499	2"	2"	30	370	68	74
PM.20-VLR 2B-50	600	320	620	80	775	517	2"	2"	30	370	72	78
PM.20-VLR 2B-60	600	320	620	80	775	563	2"	2"	30	370	74	80
PM.20-VLR 2B-70	600	320	620	80	775	581	2"	2"	30	370	88	94
PM.20-VLR 2B-90	600	320	620	80	775	617	2"	2"	30	370	90	96
PM.20-VLR 2B-110	600	320	620	80	775	653	2"	2"	30	370	94	100
PM.20-VLR 2B-130	600	320	620	80	775	763	2"	2"	30	370	96	102



NOCCHI PM.20 - VLR 4

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

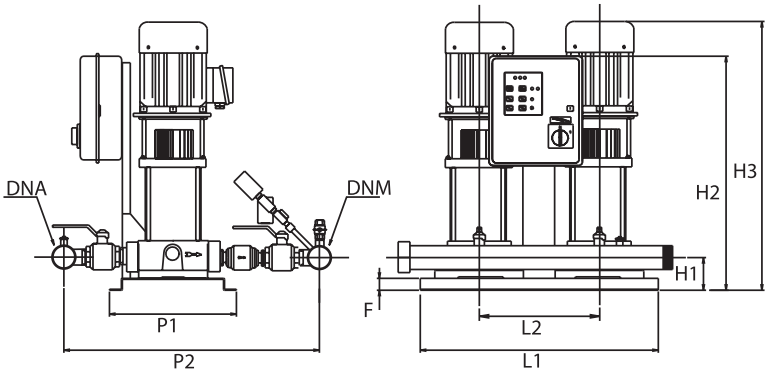
MODEL	kW	Q	L/min	80	120	160	200	240
			m³/h	4.8	7.2	9.6	12.0	14.4
PM.20-VLR4/30	2x0.55	m.c.a./m.w.c.		27	25	22	18	13
PM.20-VLR4/40	2x0.75			35	33	29	24	18
PM.20-VLR4/50	2x1.1			44	41	36	30	22
PM.20-VLR4/60	2x1.1			53	49	44	36	27
PM.20-VLR4/80	2x1.5			62	58	51	43	31
PM.20-VLR4/80-7	2x1.5			71	66	58	49	35
PMD20-VLR4/100	2x2.2			89	82	73	61	44
PMD20-VLR4/120	2x2.2			106	99	87	73	53

NOCCHI PM.20 - VLR 4

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

OVERALL DIMENSIONS AND WEIGHTS

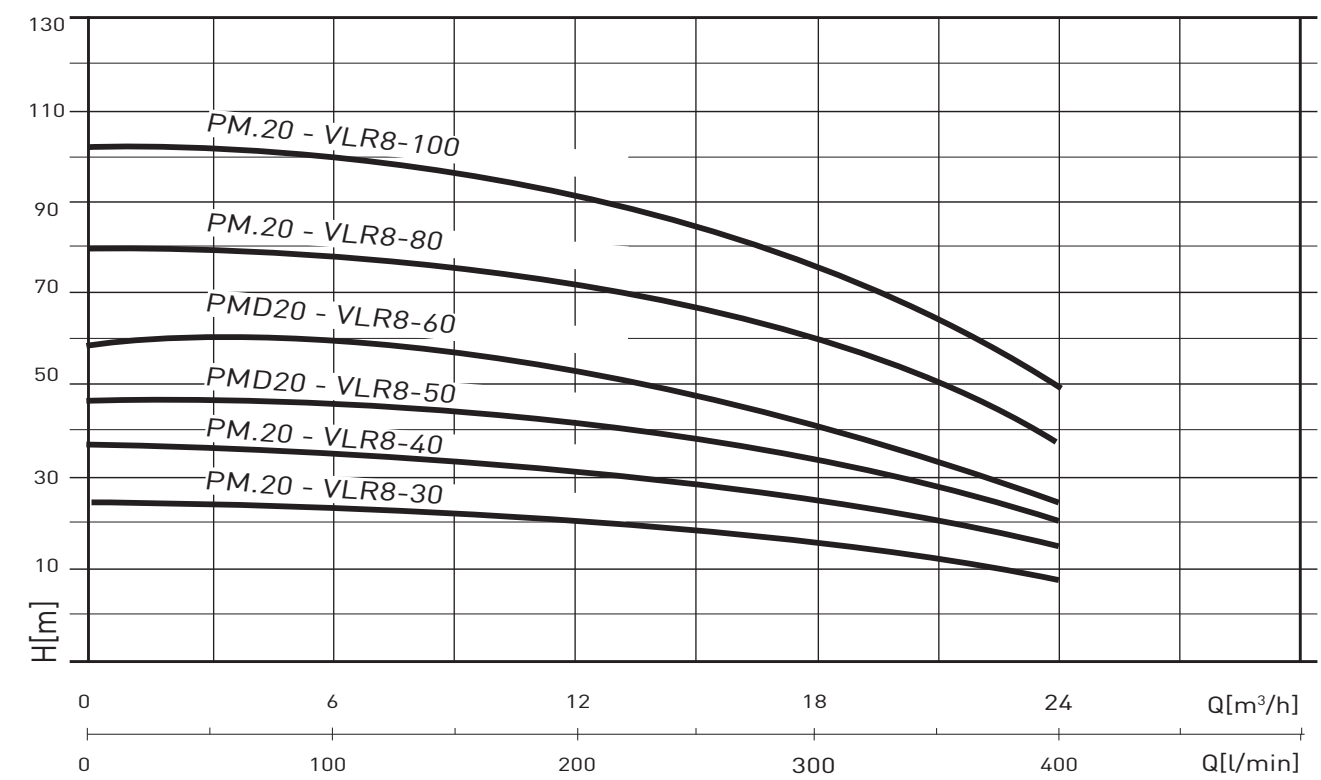
MODEL	Dimensions (mm)										Weight (kg)	
	L1	P1	P2	H1	H2	H3	DNA	DNM	F	L2	230 V	400 V
PM.20-VLR4/30	600	320	620	80	775	508	2"	2"	30	370	60	70
PM.20-VLR4/40	600	320	620	80	775	563	2"	2"	30	370	68	74
PM.20-VLR4/50	600	320	620	80	775	590	2"	2"	30	370	72	78
PM.20-VLR4/60	600	320	620	80	775	617	2"	2"	30	370	74	80
PM.20-VLR4/80	600	320	620	80	775	718	2"	2"	30	370	88	94
PM.20-VLR4/80-7	600	320	620	80	775	718	2"	2"	30	370	88	94
PMD20-VLR4/100	600	320	620	80	775	772	2"	2"	30	370		100
PMD20-VLR4/120	600	320	620	80	775	826	2"	2"	30	370		102



NOCCHI PM.20 - VLR 8

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

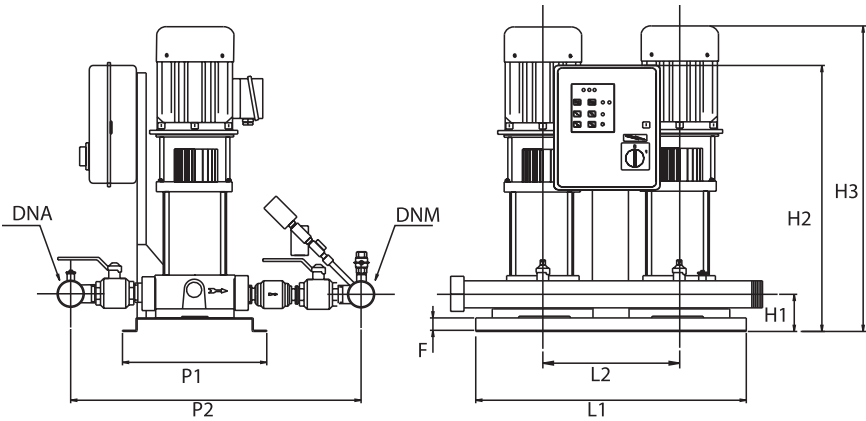
MODEL	kW	Q	L/min	100	200	300	350	400
			m³/h	6	12	18	21	24
PM.20-VLR8/30	2x1.1	m.c.a./m.w.c.		31	29	24	21	16
PM.20-VLR8/40	2x1.5			41	38	32	27	22
PMD20-VLR8/50	2x2.2			52	48	40	34	27
PMD20-VLR8/60	2x2.2			62	58	48	41	33
PMD20-VLR8/80	2x3			82	77	64	55	44
PMD20-VLR8/100	2x4			103	96	80	69	55

NOCCHI PM.20 - VLR 8

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

OVERALL DIMENSIONS AND WEIGHTS

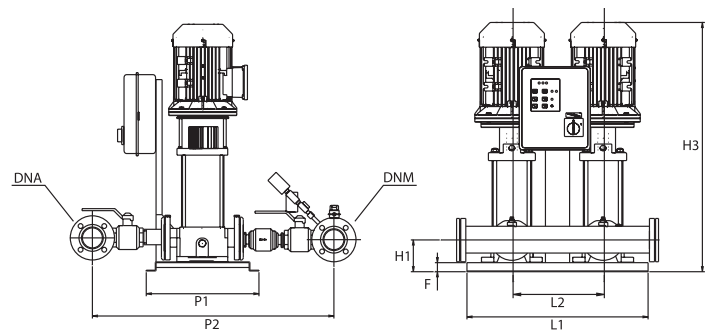
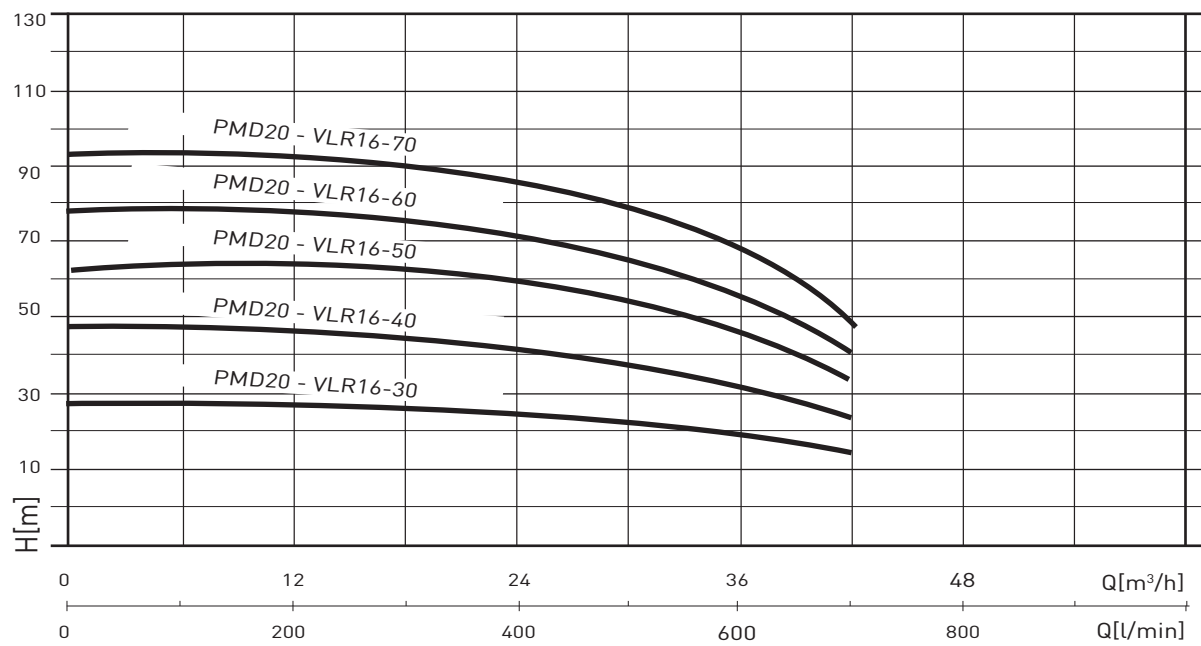
MODEL	Dimensions (mm)										Weight (kg)	
	L1	P1	P2	H1	H2	H3	DNA	DNM	F	L2	230 V	400 V
PM.20-VLR8/30	620	320	720	120	775	642	2"1/2	2"1/2	30	370	92	98
PM.20-VLR8/40	620	320	720	120	775	715	2"1/2	2"1/2	30	370	108	114
PMD20-VLR8/50	620	320	720	120	775	745	2"1/2	2"1/2	30	370		118
PMD20-VLR8/60	620	320	720	120	775	775	2"1/2	2"1/2	30	370		120
PMD20-VLR8/80	680	320	720	120	775	890	2"1/2	2"1/2	30	370		136
PMD20-VLR8/100	680	320	720	120	775	970	2"1/2	2"1/2	30	370		146



NOCCHI PM.20 - VLR 16

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	Q	L/min	200	400	500	600	700
			m³/h	12	24	30	36	42
PMD20-VLR16/30	2x3	m.c.a. / m.w.c.		39	37	34	30	24
PMD20-VLR16/40	2x4			52	49	46	40	32
PMD20-VLR16/50	2x5.5			65	62	57	51	40
PMD20-VLR16/60	2x5.5			78	74	69	61	47
PMD20-VLR 16/70	2x7.5			101	95	90	80	67

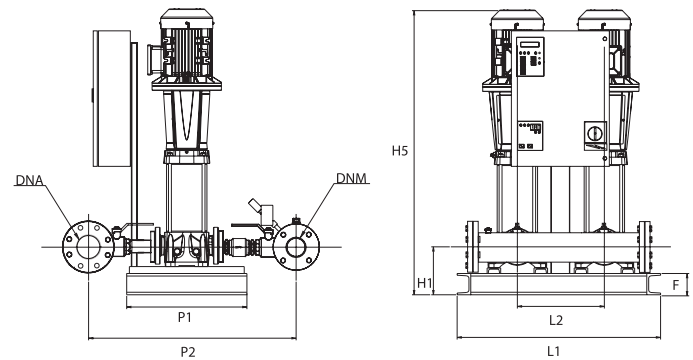
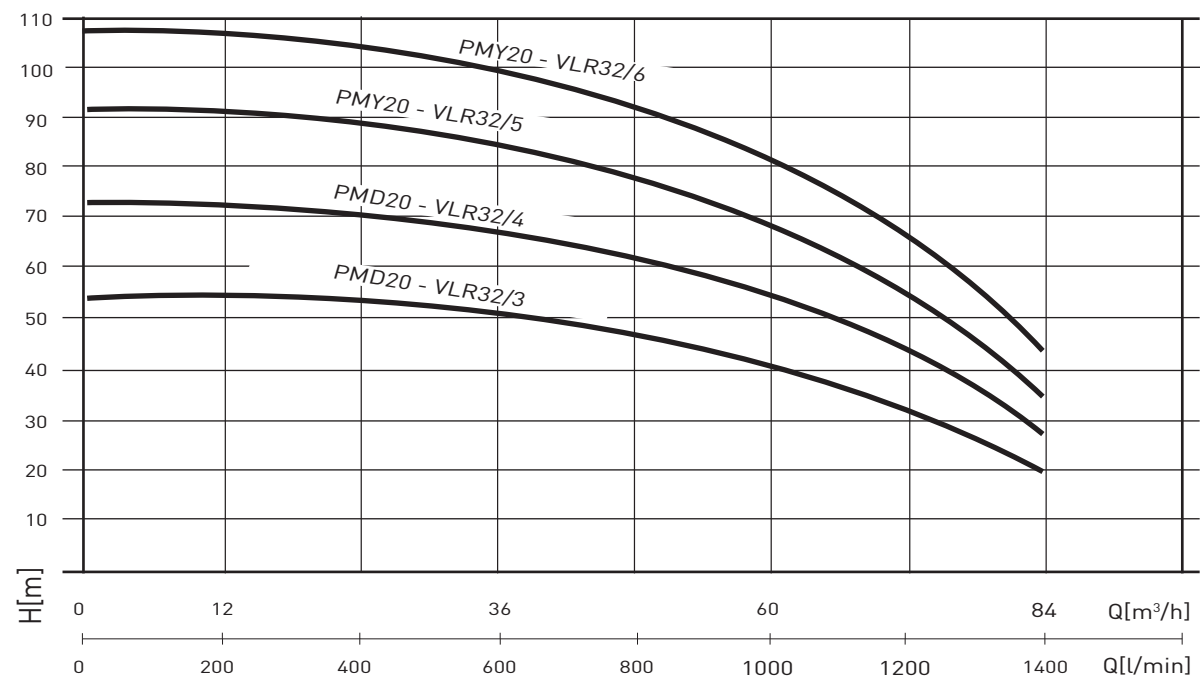
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H3	DNA	DNM	F	L2	
PMD20-VLR16/30	620	380	860	120	809	3"	2"1/2	30	370	171
PMD20-VLR16/40	620	380	860	120	874	3"	2"1/2	30	370	177
PMD20-VLR16/50	620	380	860	120	990	3"	2"1/2	30	370	223
PMD20-VLR16/60	620	380	860	120	1035	3"	2"1/2	30	370	227
PMD20-VLR 16/70	620	380	860	180	1230	3"	2"1/2	45	370	256

NOCCHI PM.20 - VLR 32

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

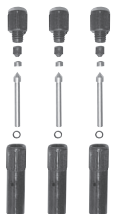
MODEL	kW	Q	L/min	400	800	1000	1200	1400
			m³/h	24	48	60	72	84
PMD20-VLR32-3	2x5.5	m.c.a. / m.w.c.		53	47	41	33	20
PMD20-VLR32-4	2x7.5			71	63	55	44	27
PMY20-VLR32-5	2x11			89	79	69	55	34
PMY20-VLR32-6	2x11			106	94	82	76	41

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
PMD20-VLR32-3	860	700	1060	230	1400	4"	3"	80	440	348
PMD20-VLR32-4	860	700	1060	230	1400	4"	3"	80	440	364
PMY20-VLR32-5	860	700	1060	230	1400	4"	3"	80	440	432
PMY20-VLR32-6	860	700	1060	230	1400	4"	3"	80	440	442

NOCCHI ACCESSORIES

PRESSURE BOOSTERS WITH PRESSURE SWITCH CONTROL

ACCESSORIES	DESCRIPTION	Residential		Industrial
		230 V	400 V	400 V
	Float switch for protection against dry running	X	X	X
	Differential pressure switch for inhibition in event of mains pressure failure	X	X	X
	Electrodes for electronic level control		X	X
	Membrane autoclaves	X	X	X
	Kit of couplings for expansion tanks	X	X	Included

NOCCHI SENSORMAT

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

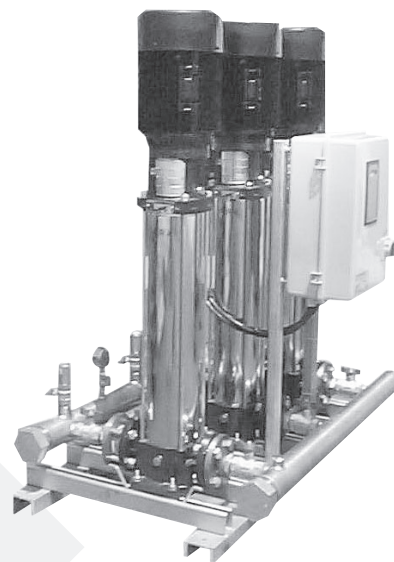
COMPACT, ROBUST, HIGH HYDRAULIC PERFORMANCE, PIPELINES IN AISI 304 STAINLESS STEEL

These are automatic pressure booster sets for installation on the water mains with three phase electric power supply, transducer control and fixed speed.

The pumps are controlled via an electrical panel fitted with an electronic board linked to an electronic transducer that reads the outlet pressure. The keypad on the electrical panel enables the entry of unit configuration parameters and settings (start and stop pressures for each pump, timers for

each pump etc.).

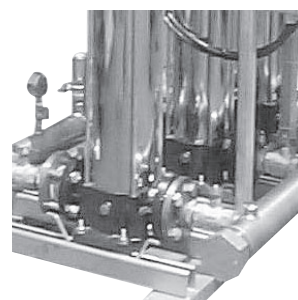
The pumps start up and stop when the mains pressure reaches the set value. At the end of each cycle, the inverter automatically switches the pump start sequence. In the event of large water demands, the electronic board applies a gradual start-up of the pumps, thereby avoiding sudden pressure variations and overload of the power supply.



NUMBER OF PUMPS		MAXIMUM FLOW RATE	
Main	Pilot	L/min	m³/h
2	-	1400	84
3	0	2100	126
3	1	2100	126

APPLICATION DATA	VLR 16	
	SM. 2.1	SM. 30/31
Maximum flow rate (m³/h)	42	28.8
Maximum head (m.c.a.)	91	
Maximum operating pressure	16 bar	

APPLICATION DATA	VLR 32		MULTINOX - VE
	SM. 21	SM. 30/31	SMD30
Maximum flow rate (m³/h)	84	126	28.8
Maximum head (m.c.a.)	89		109
Maximum operating pressure	16 bar		12 bar
Power supply voltage	400 V		
Direct pump start-up	Direct up to 7.5 kW inclusive. Star/Delta over 7.5 kW		
Ambient temperature	+50° C		
Electric pump protection rating	IP55 IP44 for MULTINOX-VE		
El. panel protection rating	IP54		



NOCCHI SENSORMAT

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

ELECTRIC PUMP

MULTINOX-VE / VLR:

- Centrifugal, multi-cell, vertical axis.

SUCTION MANIFOLD

In AISI 304 stainless steel with:

- 1 water filling hose
- 1 brass ball valve
- 1 check valve *

BASE

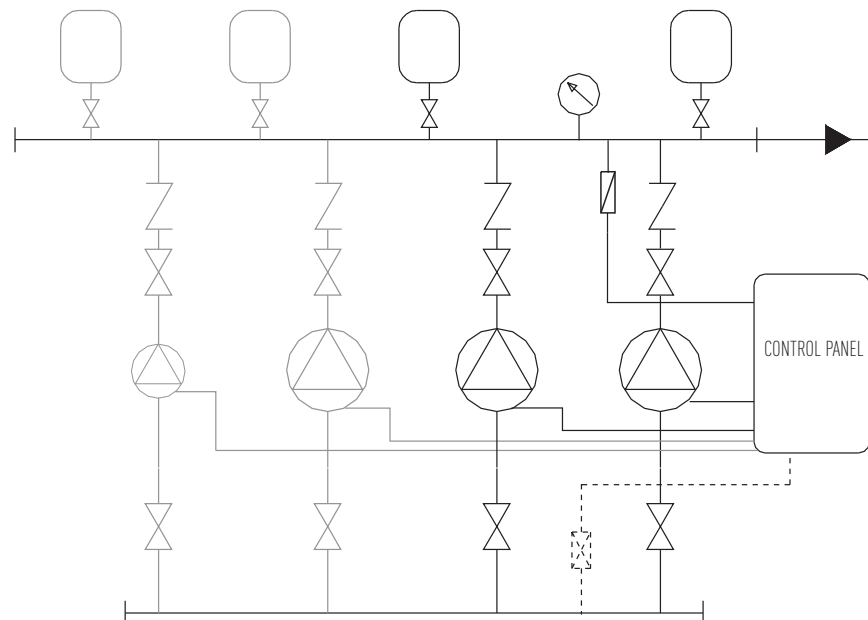
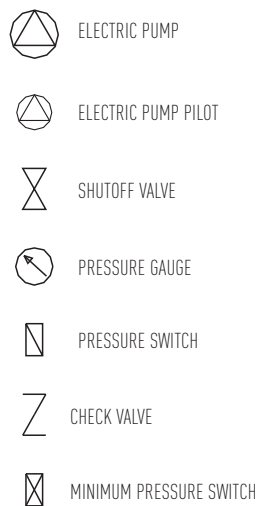
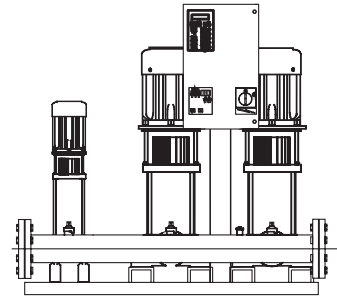
- Galvanized steel profile

DELIVERY MANIFOLD

In AISI 304 stainless steel :

- 1 pressure gauge
- 1 pressure transducer
0-5Volt – 0-10 Bar
- 1 brass ball valve *

* components for each electric pump installed



NOCCHI SENSORMAT

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

THREE PHASE ELECTRICAL PANEL



ELECTRICAL PANEL

- IP 54 metal enclosure
- Main switch
- Keypad with SA electronic board.
- Fuses, contactors and thermal relay for each pump.
- Transformer with fuses for auxiliary circuit.
- M-0-T selector for each pump
- Delta-Star starter for motors over 7.5 kW.

SIGNALS AND CONTROLS

- LCD display to indicate operating parameters and for entry of configuration parameters and settings.
- Power ON indicator led.
- Indicator led to signal low water level in tank on first collection or low pressure on water supply line (aqueduct).
- Indicator led to signal trip of the overload thermal cut-out.
- Automatic/Manual mode indicator led.
- Pump running indicator led for each pump.
- Buttons for selection of automatic or manual control.
- Start-stop button for each pump when set to manual mode.
- Button to enter configuration parameters.

MAIN FUNCTIONS

- Sequential inversion of pump start-up at the end of each work cycle.
- Timer, settable from 0 to 255 sec., for pump operation after opening of the pressure switch contact or when operating pressure values are reached.
- ON/OFF control of tank level for first collection or pressure in supply pipeline via a float switch or other differential pressure switch.
- Sequential control of pump start-up to prevent simultaneous activation.

EXTERNAL CONTROL DEVICES

- A differential pressure switch settable as ON/OFF for each pump, or
- An electric pressure transducer (0-5 V)

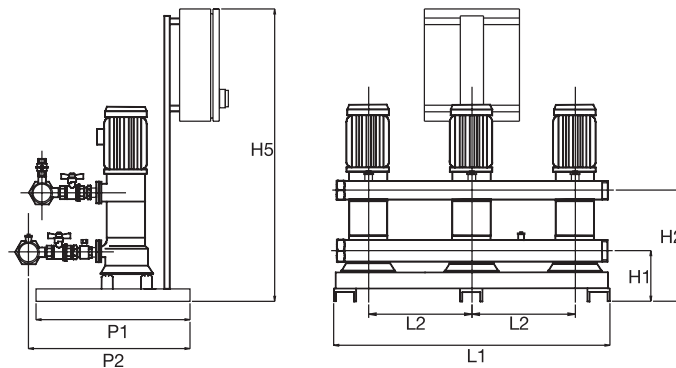
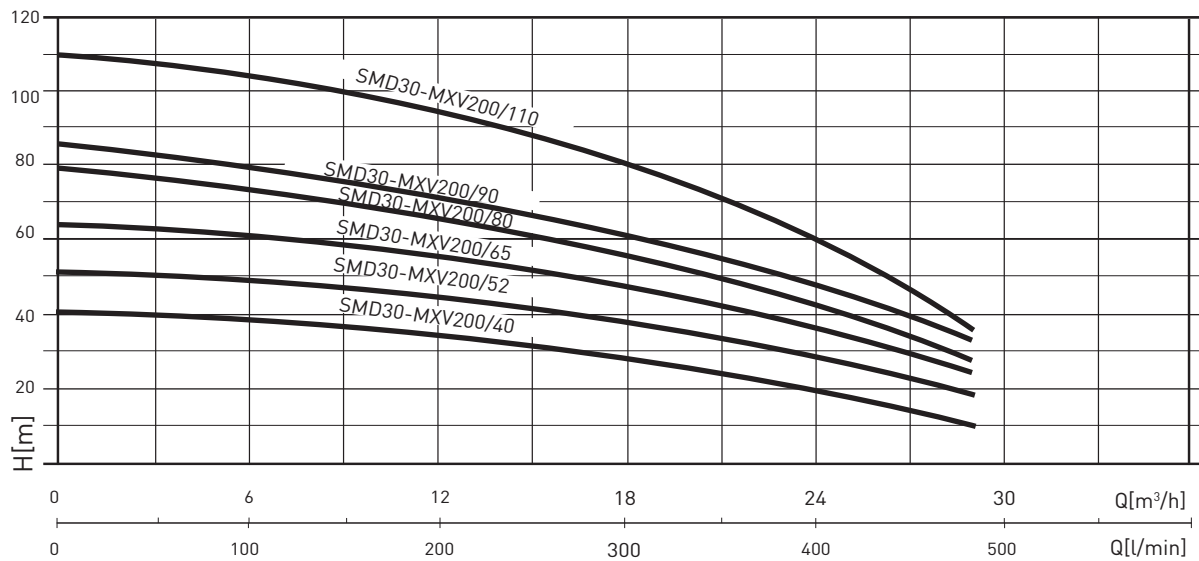
ACCESSORIES

Sensormat accessories available on request	SDM
	SMY
Float switch for protection against dry running	X
Differential pressure switch for inhibition in event of mains pressure failure	X
Electrodes for electronic level control	X
Membrane autoclaves	X

NOCCHI SMD 30 - MXV 200

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	0	60	120	240	360	480
		m³/h	4.8	3.6	7.2	14.4	21.6	28.8
SMD30-MXV200/40	3X1.5	m.c.a./m.w.c.	39	38	37	32	24	12
SMD30-MXV200/52	2x1.8		51	50	49	42	32	18
SMD30-MXV200/65	3X2		64	63	60	52	40	24
SMD30-MXV200/80	3X2.6		79	77	73	62	48	27
SMD30-MXV200/90	3X2.7		85	83	78	67	54	33
SMD30-MXV200/110	3X3.2		109	107	103	90	68	35

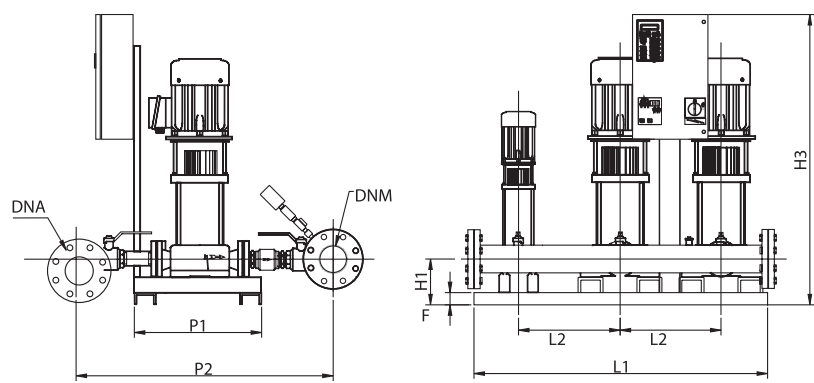
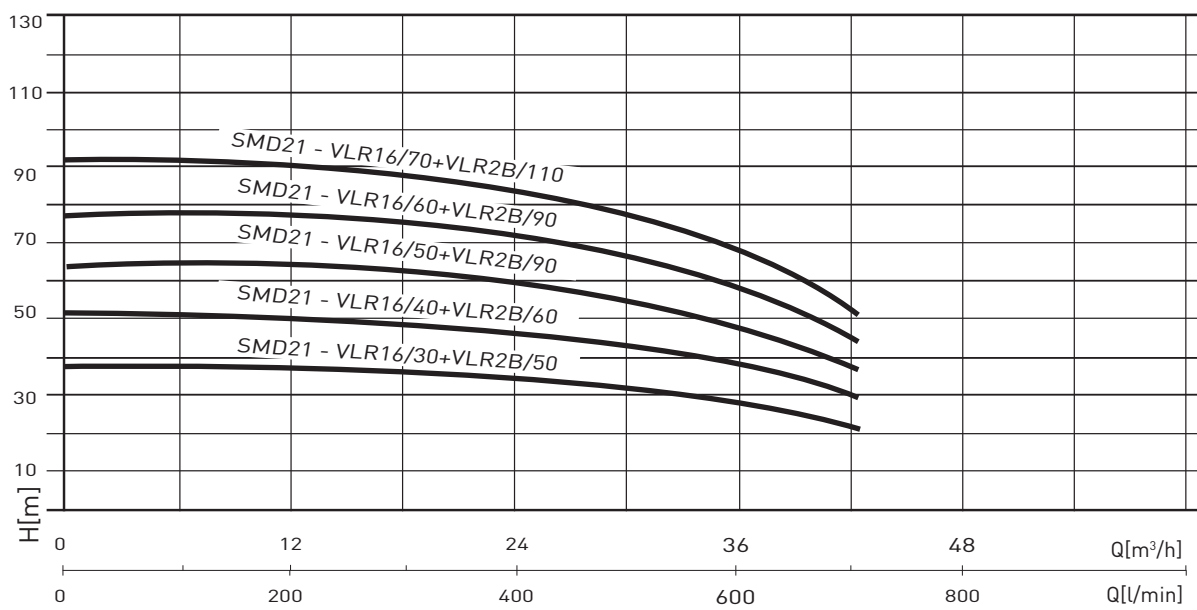
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H2	H3	DNA	DNM	L2	
SMD30-MXV200/40	1200	500	540	145	320	1100	3"	2"1/2	370	114
SMD30-MXV200/52	1200	500	540	145	320	1100	3"	2"1/2	370	126
SMD30-MXV200/65	1200	500	540	145	320	1100	3"	2"1/2	370	138
SMD30-MXV200/80	1200	500	540	145	320	1100	3"	2"1/2	370	144
SMD30-MXV200/90	1200	500	540	145	320	1100	3"	2"1/2	370	156
SMD30-MXV200/110	1200	500	540	145	320	1100	3"	2"1/2	370	160

NOCCHI SMD 21 - VLR 16

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	200	400	500	600	700
		m ³ / h	12	24	30	36	42
SMD21-VLR16/30 + VLR2B/50	2x3+0.55	m.c.a. / m.w.c.	39	37	34	30	24
SMD21-VLR16/40 + VLR2B/60	2x4+0.75		52	49	46	40	32
SMD21-VLR16/50 + VLR2B/90	2x5.5+1.1		65	62	57	51	40
SMD21-VLR16/60 + VLR2B/90	2x5.5+1.1		78	74	69	61	47
SMD21-VLR16/70 + VLR2B/110	2x5.5+1.1		91	86	80	71	55

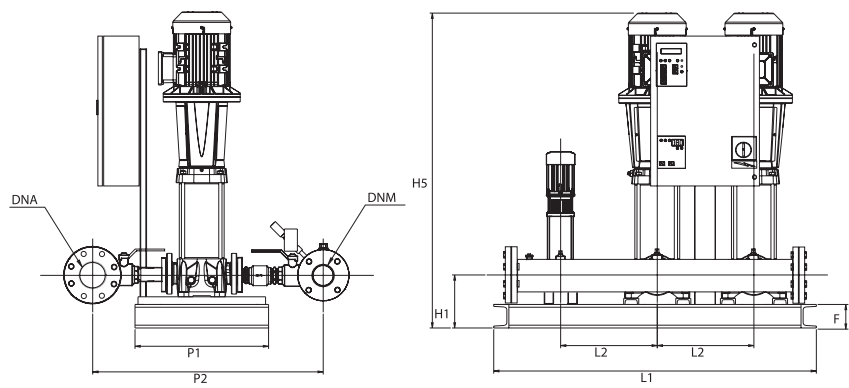
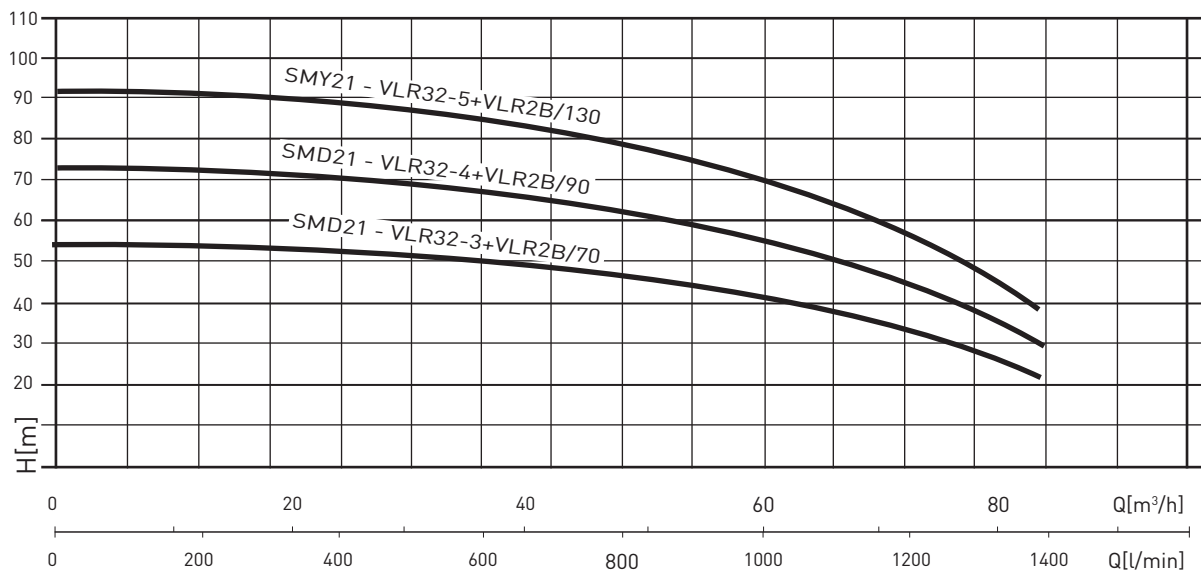
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H3	DNA	DNM	F	L2	
SMD21-VLR16/30 + VLR2B/50	1100	610	860	180	1200	3"	3"	45	370	233
SMD21-VLR16/40 + VLR2B/60	1100	610	860	180	1200	3"	3"	45	370	240
SMD21-VLR16/50 + VLR2B/90	1100	610	860	180	1200	3"	3"	45	370	294
SMD21-VLR16/60 + VLR2B/90	1100	610	860	180	1200	3"	3"	45	370	298
SMD21-VLR16/70 + VLR2B/110	1100	610	860	180	1200	3"	3"	45	370	312

NOCCHI SM.21 - VLR 32

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	400	800	1000	1200	1400
		m³ / h	24	48	60	72	84
SMD21-VLR32-3 + VLR2B/70	2x5.5+0.75	m.c.a. / m.w.c.	53	47	41	33	20
SMD30-VLR32-4 + VLR2B/90	2x7.5+1.1		71	63	55	44	27
SMY30-VLR32-5 + VLR2B/130	2x11+1.1		89	79	69	55	34

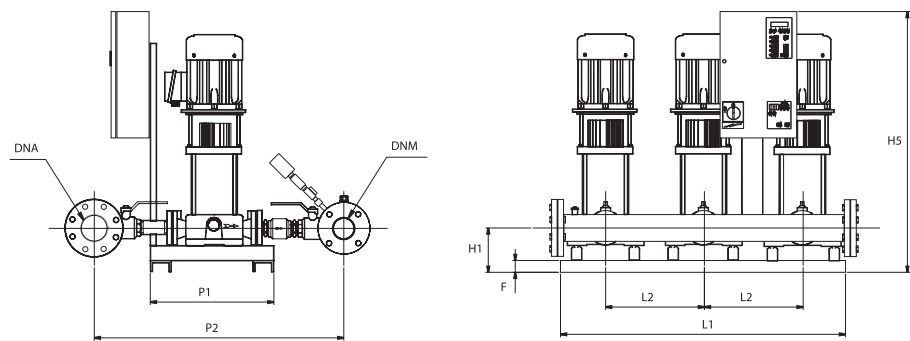
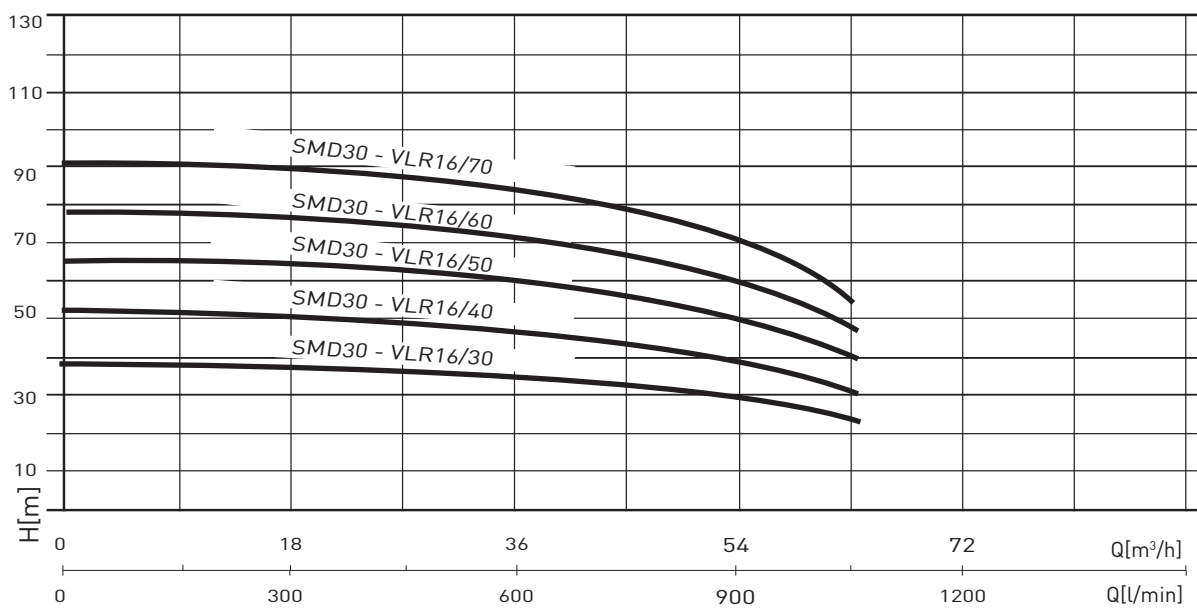
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
SMD21-VLR32-3 + VLR2B/70	1300	700	1060	230	1520	4"	4"	80	440	404
SMD30-VLR32-4 + VLR2B/90	1300	700	1060	230	1520	4"	4"	80	440	424
SMY30-VLR32-5 + VLR2B/130	1300	700	1060	230	1520	4"	4"	80	440	497

NOCCHI SMD 30 - VLR 16

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	300	600	750	900	1050
		m ³ / h	18	36	45	54	63
SMD30-VLR16/30	3x3	m.c.a. / m.w.c.	39	37	34	30	24
SMD30-VLR16/40	3x4		52	49	46	40	32
SMD30-VLR16/50	3x5.5		65	62	57	51	40
SMD30-VLR16/60	3x5.5		78	74	69	61	47
SMD30-VLR16/70	3x7.5		91	86	80	71	55

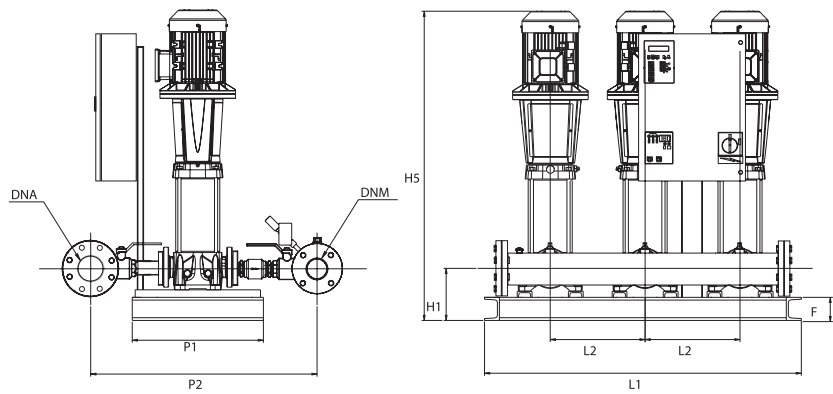
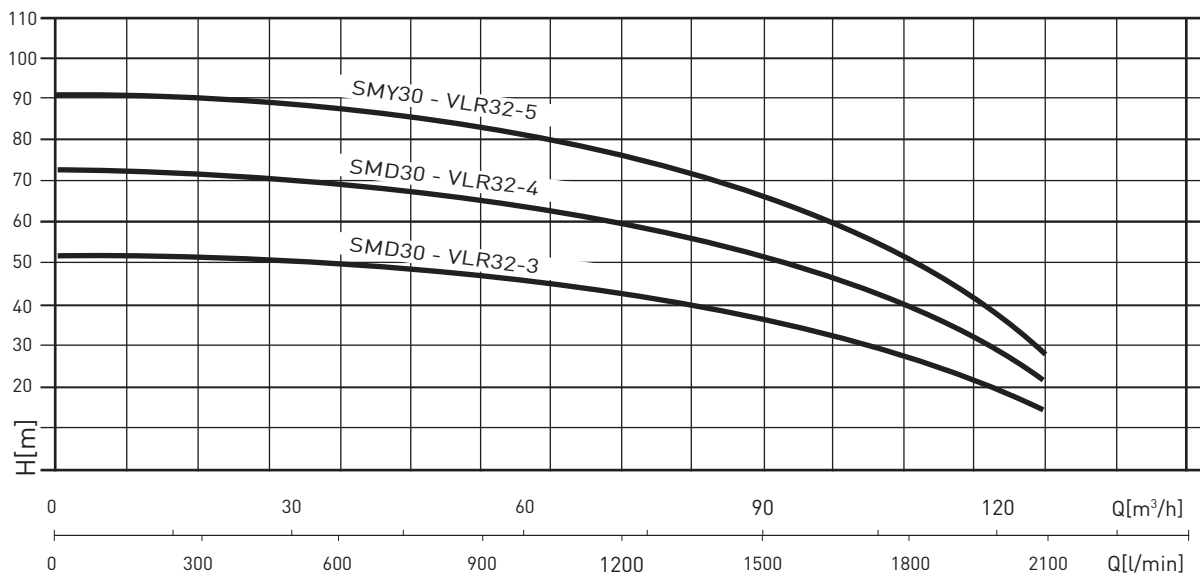
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
SMD30-VLR16/30	1100	610	860	180	1200	4"	3"	45	370	264
SMD30-VLR16/40	1100	610	860	180	1200	4"	3"	45	370	273
SMD30-VLR16/50	1100	610	860	180	1200	4"	3"	45	370	342
SMD30-VLR16/60	1100	610	860	180	1200	4"	3"	45	370	348
SMD30-VLR16/70	1100	610	860	180	1200	4"	3"	45	370	366

NOCCHI SM. 30 - VLR 32

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	600	1200	1500	1800	2100
		m³ / h	36	72	90	108	126
SMD30-VLR32-3	3x5.5	m.c.a. / m.w.c.	53	47	41	33	20
SMD30-VLR32-4	3x7.5		71	63	55	44	27
SMY30-VLR32-5	3x11		89	79	69	55	34

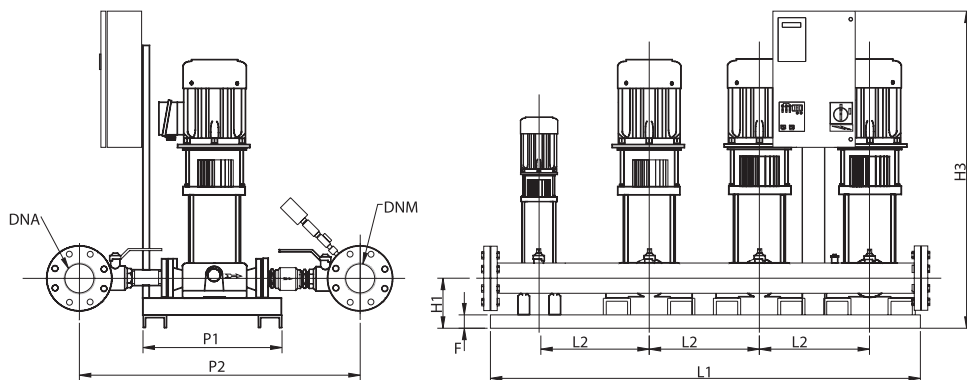
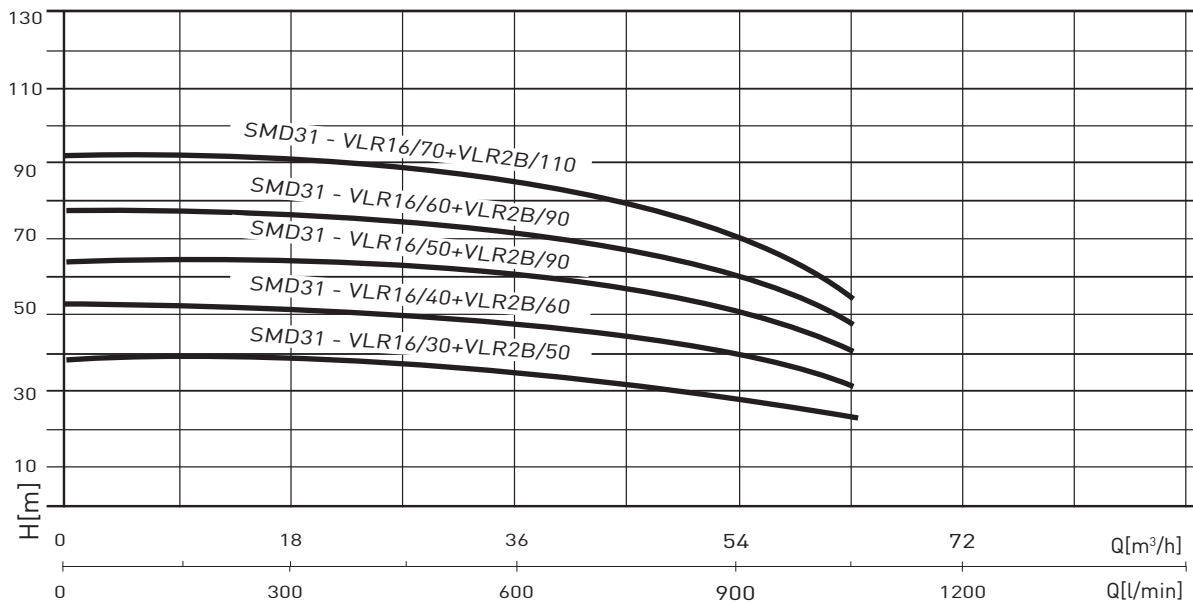
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
SMD30-VLR32-3	1300	700	1060	230	1520	5"	4"	80	440	526
SMD30-VLR32-4	1300	700	1060	230	1520	5"	4"	80	440	550
SMY30-VLR32-5	1300	700	1060	230	1520	5"	4"	80	440	670

NOCCHI SMD 31 - VLR 16

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	300	600	750	900	1050
		m ³ / h	18	36	45	54	63
SMD31-VLR16/30+VLR2B/50	3x3+0.55	m.c.a. / m.w.c.	39	37	34	30	24
SMD31-VLR16/40+VLR2B/60	3x4+0.75		52	49	46	40	32
SMD31-VLR16/50+VLR2B/90	3x5.5+1.1		65	62	57	51	40
SMD31-VLR16/60+VLR2B/90	3x5.5+1.1		78	74	69	61	47
SMD31-VLR16/70+VLR2B/110	3x7.5+1.1		91	86	80	71	55

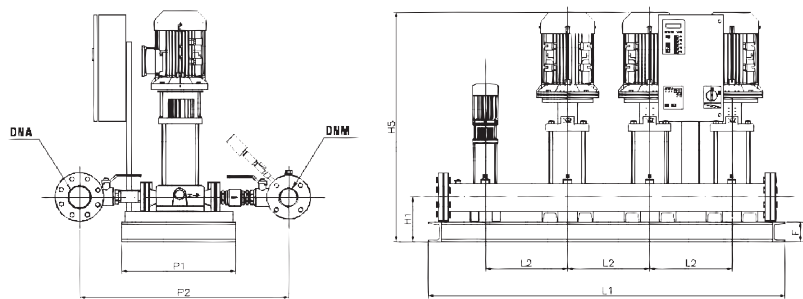
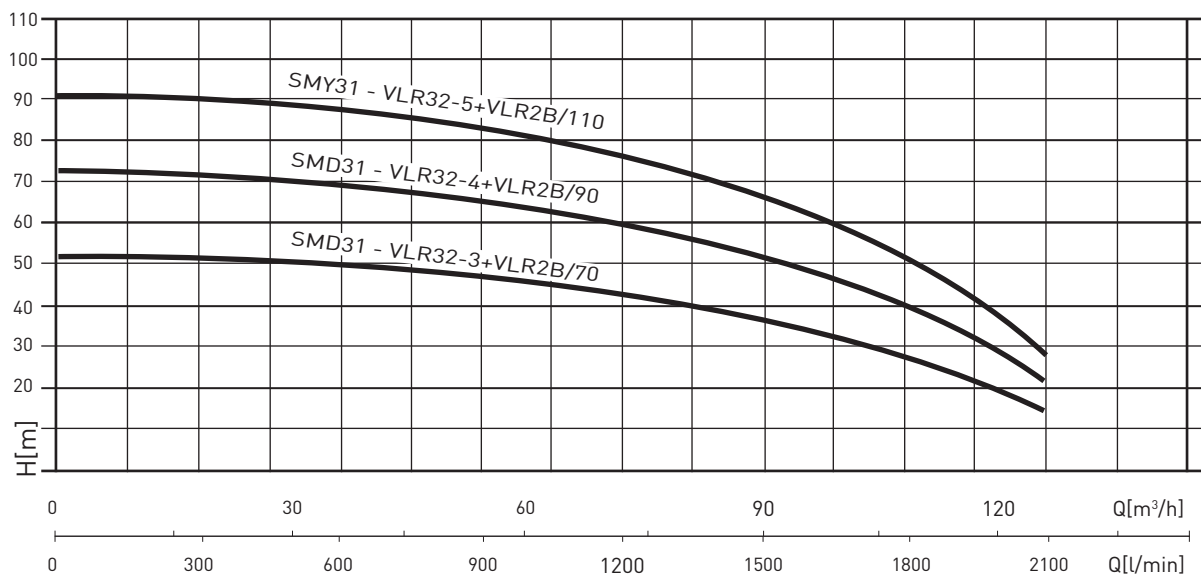
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H3	DNA	DNM	F	L2	
SMD31-VLR16/30+VLR2B/50	1500	610	860	180	1410	4"	4"	45	370	354
SMD31-VLR16/40+VLR2B/60	1500	610	860	180	1410	4"	4"	45	370	364
SMD31-VLR16/50+VLR2B/90	1500	610	860	180	1410	4"	4"	45	370	440
SMD31-VLR16/60+VLR2B/90	1500	610	860	180	1410	4"	4"	45	370	446
SMD31-VLR16/70+VLR2B/110	1500	610	860	180	1410	4"	4"	45	370	470

NOCCHI SMD 31 - VLR 32

PRESSURE BOOSTER SETS WITH TRANSDUCER CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	600	1200	1500	1800	2100
		m³ / h	36	72	90	108	126
SMD31-VLR32-3+VLR2B/70	3x5+0.75	m.c.a. / m.w.c.	53	47	41	33	20
SMD31-VLR32-4+VLR2B/90	3x7.5+1.1		71	63	55	44	27
SMY31-VLR32-5+VLR2B/110	3x11+1.1		89	79	69	55	34

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
SMD31-VLR32-3+VLR2B/70	1750	700	1060	230	1520	6"	5"	80	440	591
SMD31-VLR32-4+VLR2B/90	1750	700	1060	230	1520	6"	5"	80	440	611
SMY31-VLR32-5+VLR2B/110	1750	700	1060	230	1520	6"	5"	80	440	715

NOCCHI FREQUENCY CHANGER PRESSURE BOOSTERS WITH VARIABLE SPEED

SILENT OPERATION, CONSTANT PRESSURE, PIPELINES IN AISI 304, QUALITY FREQUENCY CONVERTER

These are automatic pressure booster sets for installation on the water mains with three phase electric power supply, transducer control and variable speed. The speed of the first pump that starts is modulated by the inverter linked to an electronic board via a pressure transducer, so that outlet pressure is kept constant on the unit regardless of the quantity of water collected (within the flow rate limits of the first pump). When the quantity of water collected exceeds the flow rate of the first pump,

the second pump is started up at a fixed speed, while the speed of the first continues to be modulated by the inverter.

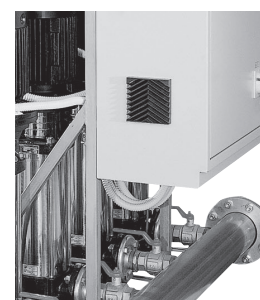
When the set water quantity has been delivered, the inverter controlled pump runs at a higher speed for a settable interval, to enable the storage of a certain amount of water under pressure, thereby prolonging the pump standby time.



NUMBER OF PUMPS		MAXIMUM FLOW RATE	
Main	Pilot	L/min	m³/h
2	-	from 100 to 1400	from 6 to 84
3	-	from 150 to 2100	from 9 to 126
4	-	from 200 to 2800	from 12 to 240

APPLICATION DATA	VLR 8			VLR 16		
	FCD20	FCD30	FCD40	FC.20	FC.30	FC.40
Maximum flow rate (m³/h)	24	36	48	42	63	84
Maximum head (m.c.a.)	103			91		

APPLICATION DATA	VLR 32		
	FC.20	FC.30	FC.40
Maximum flow rate (m³/h)	84	126	240
Maximum head (m.c.a.)	89		
Maximum operating pressure	16 bar		
Power supply voltage	400 V		
Direct pump start-up	Direct up to 7.5 kW inclusive. Star/Delta over 7.5 kW		
Operating frequency	25 - 50 Hz		
Ambient temperature	+50° C		
Electric pump protection rating	IP55 IP44 for MULTINOX-VE		
EL. panel protection rating	IP54		



NOCCHI FREQUENCY CHANGER

PRESSURE BOOSTERS WITH VARIABLE SPEED

ELECTRIC PUMP

VLR:

- Centrifugal, multi-cell, vertical axis.

BASE

- Galvanized steel profile

SUCTION MANIFOLD

In AISI 304 stainless steel with:

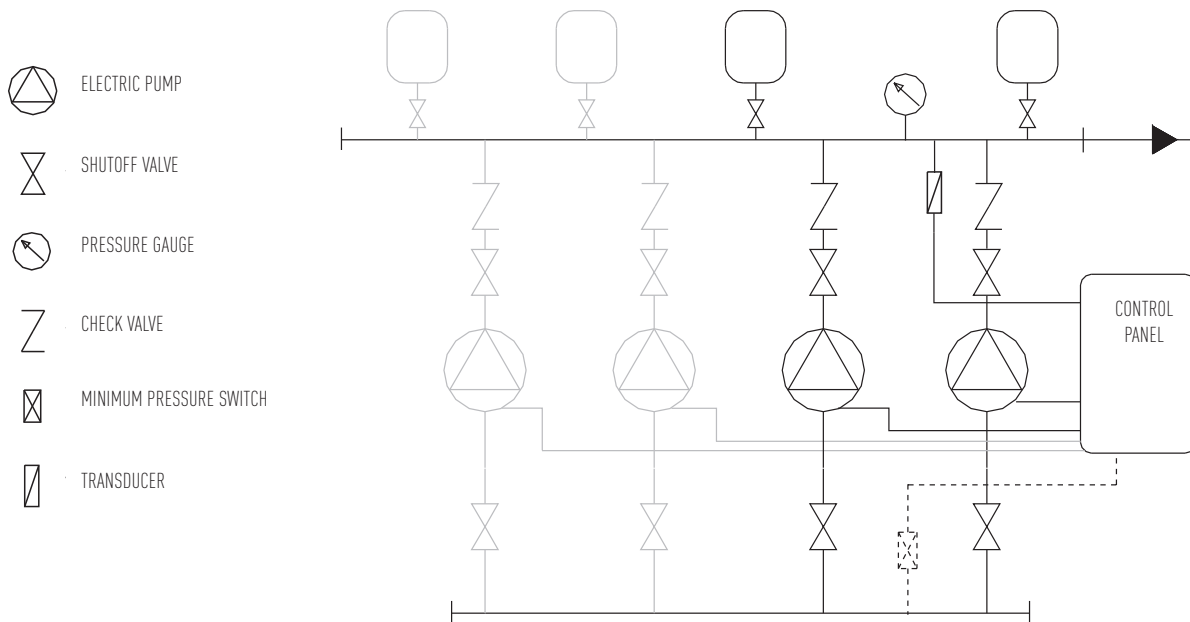
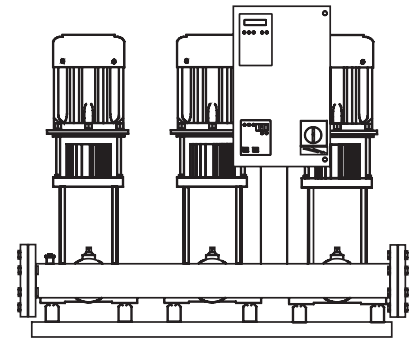
- 1 water filling hose
- 1 brass ball valve *
- 1 check valve *

DELIVERY MANIFOLD

In AISI 304 stainless steel with:

- 1 pressure gauge
- 1 pressure transducer 0-5Volt – 0-10 Bar
- 1 brass ball valve *

* components for each electric pump installed



NOCCHI FREQUENCY CHANGER

PRESSURE BOOSTERS WITH VARIABLE SPEED

CONTROL PANEL - PILOT PILOT



ELECTRICAL PANEL

- IP 54 metal enclosure
- Main switch
- Keypad with SA electronic board.
- Fuses, contactors and thermal relay for each pump.
- Transformer with fuses for auxiliary circuit.
- M-0-T selector for each pump.
- Delta-Star starter for motors over 7.5 kW.

MAIN FUNCTIONS

- Sequential inversion of pump start-up at the end of each work cycle.
- Timer, settable from 0 to 255 sec., for pump operation after opening of the pressure switch contact or when operating pressure values are reached.
- ON/OFF control of tank level for first collection or pressure in supply pipeline via a float switch or other differential pressure switch.
- Sequential control of pump start-up to prevent simultaneous activation.

EXTERNAL CONTROL DEVICES

- ON/OFF float switch installed in the water collection tank, or
- 3 electrodes for electronic level control in first collection tank
- Inverse pressure switch inserted in water supply line (aqueduct).

SIGNALS AND CONTROLS

- LCD display to indicate operating parameters and for entry of configuration parameters and settings.
- Power ON indicator led.
- Indicator led to signal low water level in tank on first collection or low pressure on water supply line (aqueduct).
- Indicator led to signal trip of the overload thermal cut-out.
- Automatic/Manual mode indicator led.
- Pump running indicator led for each pump.
- Buttons for selection of automatic or manual control.
- Start-stop button for each pump when set to manual mode.
- Button to enter configuration parameters.

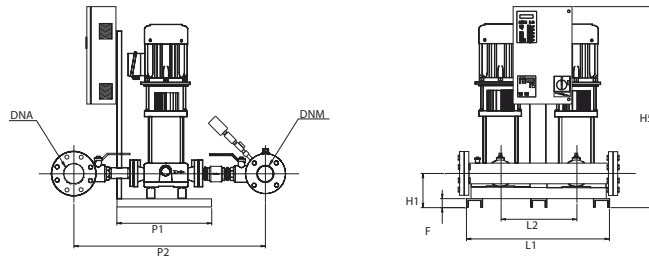
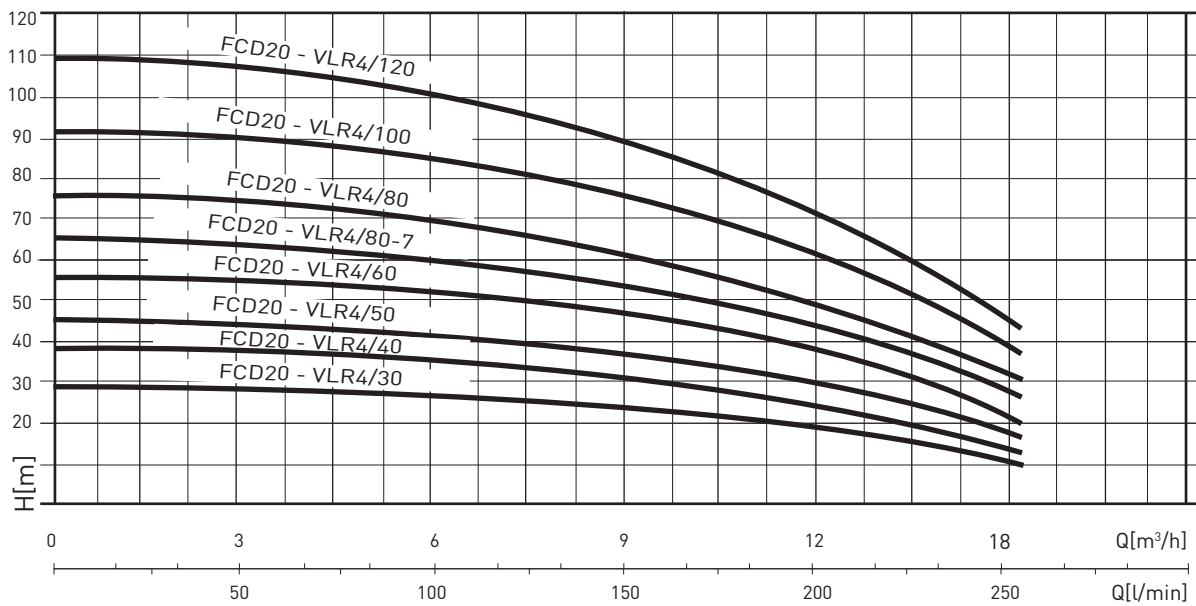
ACCESSORIES

Frequency converter accessories available on request	FCD
	FCY
Float switch for protection against dry running	X
Differential pressure switch for inhibition in event of mains pressure failure	X
Electrodes for electronic level control	X
Membrane autoclaves	X

NOCCHI FCD20 - VLR 4

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	0	80	100	120	140	160	180	200	220	240	260
		m³ / h	0	4.8	6	7.3	8.4	9.6	10.8	12	13.2	14.4	15.6
FCD20-VLR4/30	2x0.55	m.c.a. / m.w.c.	29	28	26.5	25	23.5	22	20.5	19	16	13	9
FCD20-VLR4/40	2x0.75		37	36	34.5	33	31	29	27	25	21.5	18	12
FCD20-VLR4/50	2x1.1		45	44	43	42	39.5	37	34	31	27	23	16
FCD20-VLR4/60	2x1.1		55	53	51.5	50	47	44	41	38	31.5	27	20
FCD20-VLR4/80-7	2x1.5		64	61	59.5	58	54.5	51	47.5	44	38	32	25
FCD20-VLR4/80	2x1.5		75	71	69	67	63	59	54.5	50	43.5	37	25
FCD20-VLR4/100	2x2.2		91	90	86	82	77	72	66.5	61	53.5	46	37
FCD20-VLR4/120	2x2.2		109	107	103	99	93	87	80	73	63.5	54	43.5

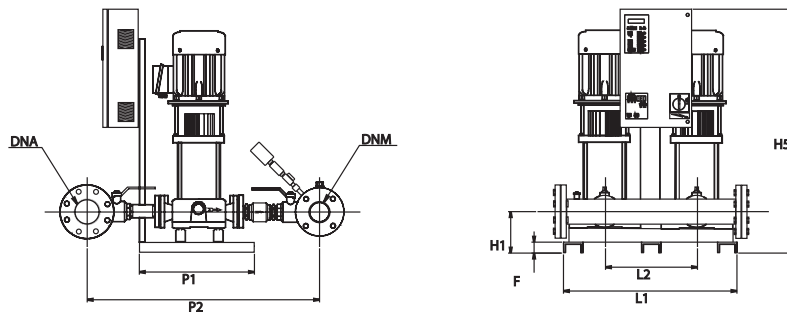
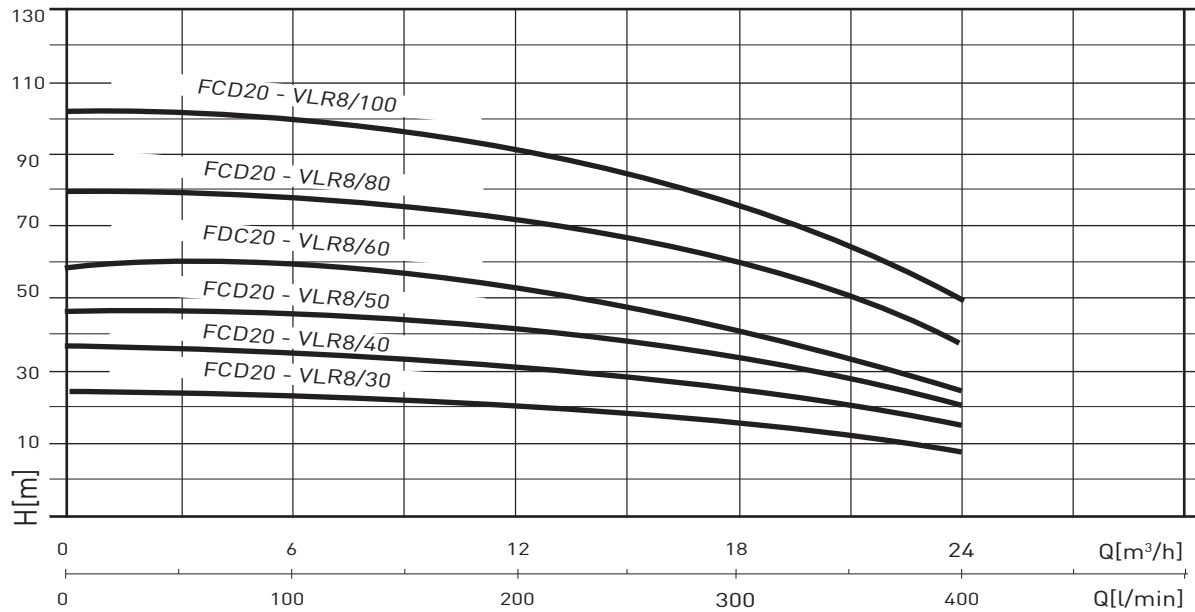
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD20-VLR4/30	680	500	620	150	1270	2"	2"	45	370	164
FCD20-VLR4/40	680	500	620	150	1270	2"	2"	45	370	170
FCD20-VLR4/50	680	500	620	150	1270	2"	2"	45	370	176
FCD20-VLR4/60	680	500	620	150	1270	2"	2"	45	370	179
FCD20-VLR4/80-7	680	500	620	150	1270	2"	2"	45	370	200
FCD20-VLR4/80	680	500	620	150	1270	2"	2"	45	370	200
FCD20-VLR4/100	680	500	620	150	1270	2"	2"	45	370	209
FCD20-VLR4/120	680	500	620	150	1270	2"	2"	45	370	212

NOCCHI FCD20 - VLR 8

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	100	200	300	350	400
		m³ / h	6	12	18	21	24
FCD20-VLR8/30	2x1.1	m.c.a. / m.w.c.	31	29	24	21	16
FCD20-VLR8/40	2x1.5		41	38	32	27	22
FCD20-VLR8/50	2x2.2		52	48	40	34	27
FCD20-VLR8/60	2x2.2		62	58	48	41	33
FCD20-VLR8/80	2x3		82	77	64	55	44
FCD20-VLR8/100	2x4		103	96	80	69	55

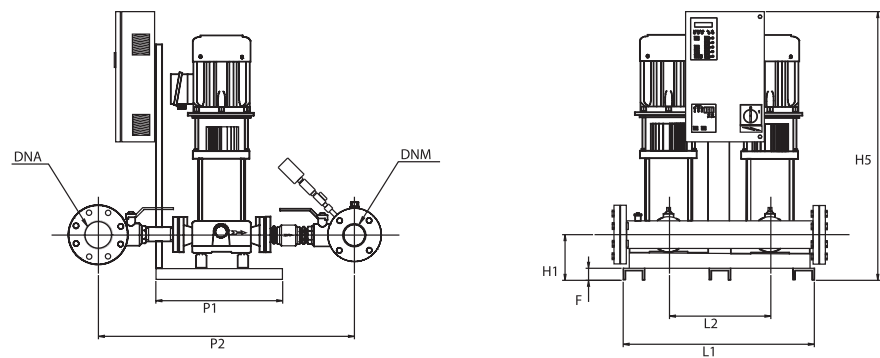
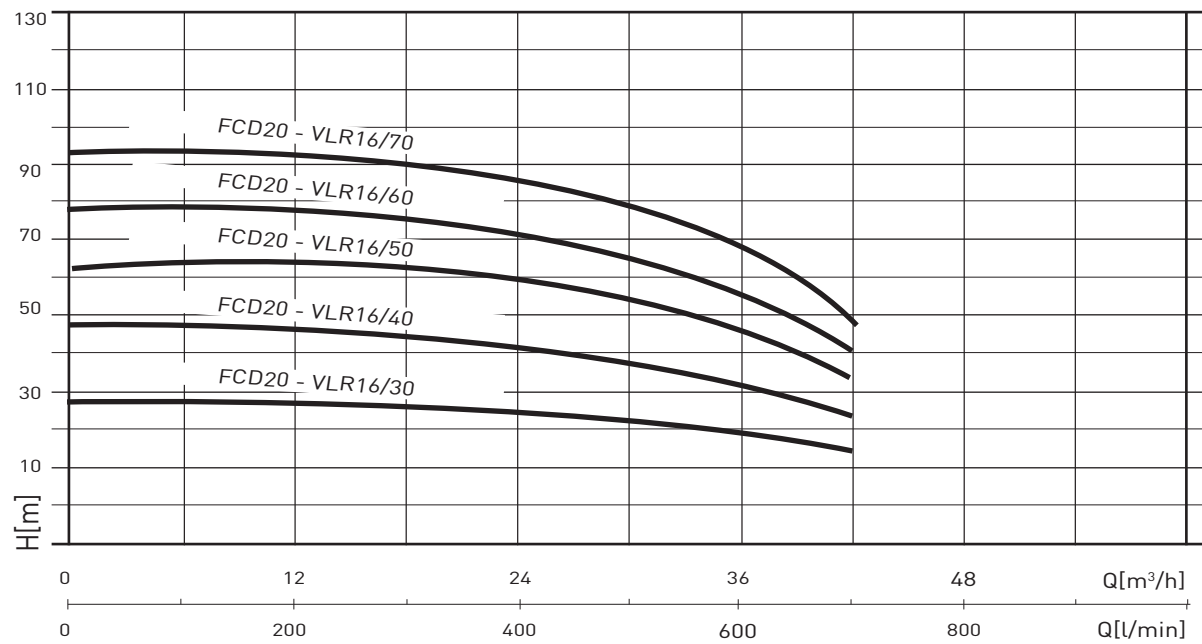
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD20-VLR8/30	680	500	720	180	1270	2"1/2	2"1/2	45	370	208
FCD20-VLR8/40	680	500	720	180	1270	2"1/2	2"1/2	45	370	224
FCD20-VLR8/50	680	500	720	180	1270	2"1/2	2"1/2	45	370	228
FCD20-VLR8/60	680	500	720	180	1270	2"1/2	2"1/2	45	370	230
FCD20-VLR8/80	680	500	720	180	1270	2"1/2	2"1/2	45	370	246
FCD20-VLR8/100	680	500	720	180	1270	2"1/2	2"1/2	45	370	248

NOCCHI FCD20 - VLR 16

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	200	400	500	600	700
		m³ / h	12	24	30	36	42
FCD20-VLR16/30	2x3	m.c.a. / m.w.c.	39	37	34	30	24
FCD20-VLR16/40	2x4		52	49	46	40	32
FCD20-VLR16/50	2x5.5		65	62	57	51	40
FCD20-VLR16/60	2x5.5		78	74	69	61	47
FCD20-VLR16/70	2x7.5		91	86	80	71	55

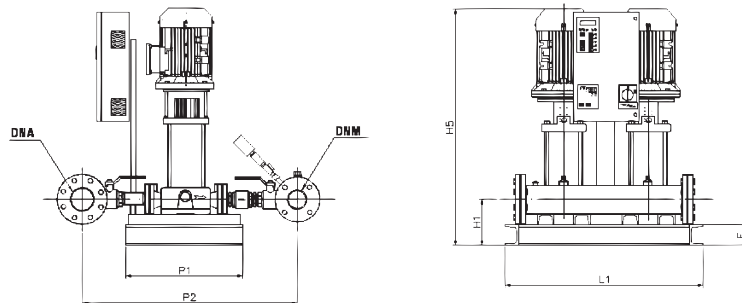
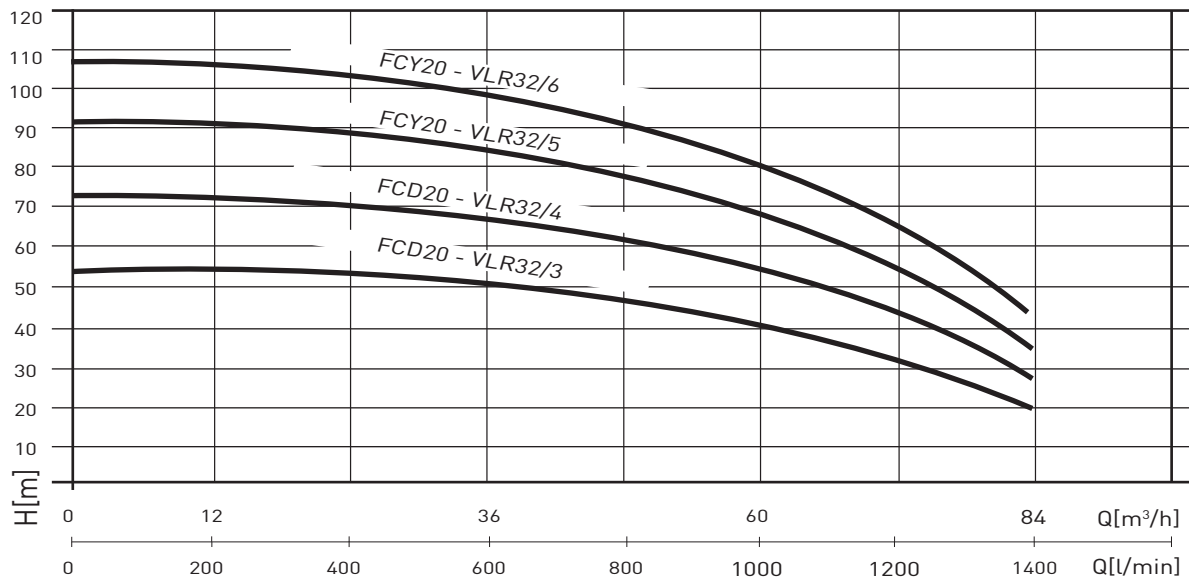
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD20-VLR16/30	730	610	860	190	1300	3"	2"1/2	45	370	268
FCD20-VLR16/40	730	610	860	190	1300	3"	2"1/2	45	370	272
FCD20-VLR16/50	730	610	860	190	1300	3"	2"1/2	45	370	295
FCD20-VLR16/60	730	610	860	190	1300	3"	2"1/2	45	370	297
FCD20-VLR16/70	730	610	860	190	1300	3"	2"1/2	45	370	303

NOCCHI FC.20 - VLR 32

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	400	800	1000	1200	1400
		m ³ / h	24	48	60	72	84
FCD20-VLR32-3	2x5.5	m.c.a. / m.w.c.	53	47	41	33	20
FCD20-VLR32-4	2x7.5		71	63	55	44	27
FCY20-VLR32-5	2x11		89	79	69	55	34
FCY20-VLR32-6	2x11		106.2	94.2	82.2	66	40.8

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD20-VLR32-3	860	700	1060	230	1420	4"	3"	80	440	420
FCD20-VLR32-4	860	700	1060	230	1420	4"	3"	80	440	434
FCY20-VLR32-5	860	700	1060	230	1500**	4"	3"	80	440	460*
FCY20-VLR32-6	860	700	1060	230	1570**	4"	3"	80	440	534*

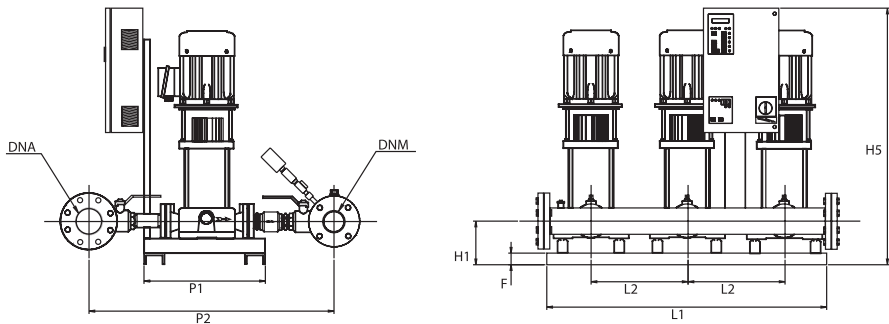
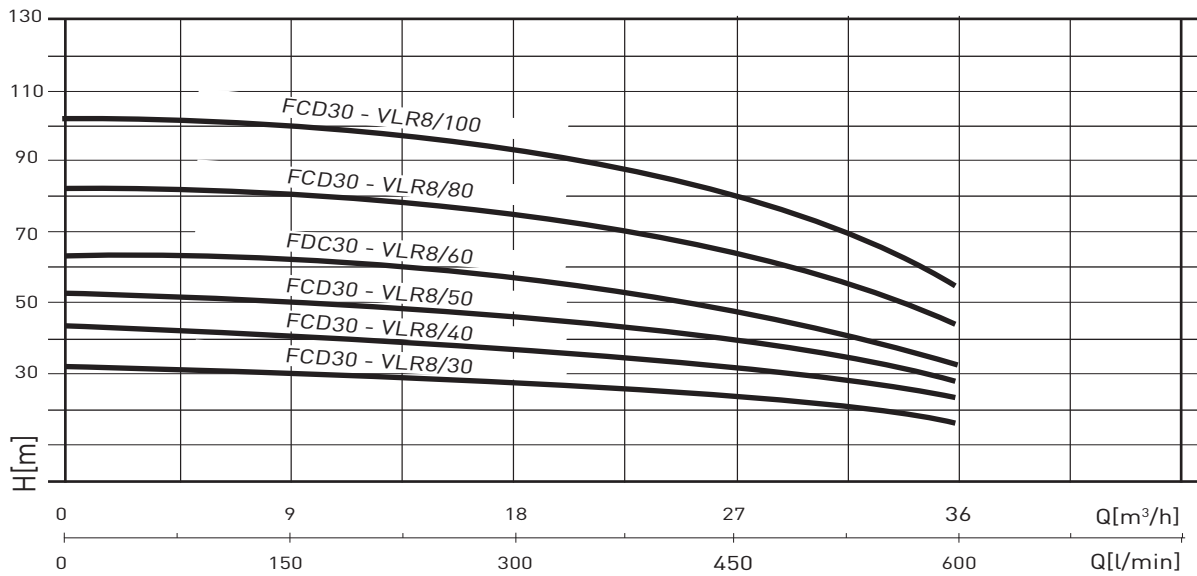
* Weight refers to unit + electric pumps.

**Height refers to electric pumps - electrical panel supplied separately with cabinet weight of 124 kg

NOCCHI FCD30 - VLR 8

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	150	300	450	525	600
		m³ / h	9	18	27	31.5	36
FCD30-VLR8/30	3x1.1	m.c.a. / m.w.c.	31	29	24	21	16
FCD30-VLR8/40	3x1.5		41	38	32	27	22
FCD30-VLR8/50	3x2.2		52	48	40	34	27
FCD30-VLR8/60	3x2.2		62	58	48	41	33
FCD30-VLR8/80	3x3		82	77	64	55	44
FCD30-VLR8/100	3x4		103	96	80	69	55

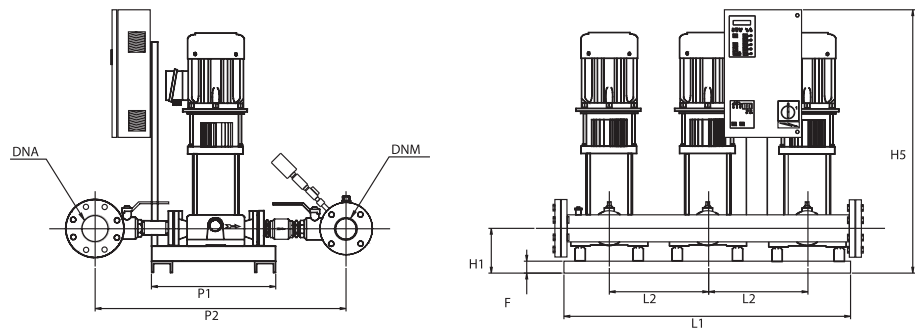
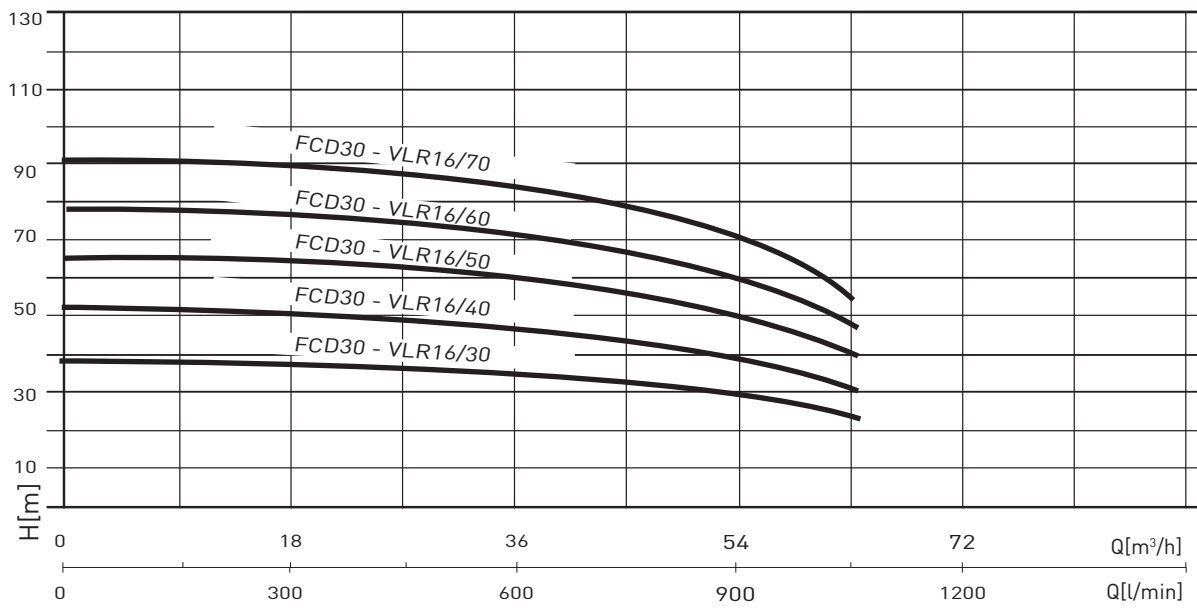
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD30-VLR8/30	1100	610	720	180	1400	3"	2"1/2	45	370	258
FCD30-VLR8/40	1100	610	720	180	1400	3"	2"1/2	45	370	282
FCD30-VLR8/50	1100	610	720	180	1400	3"	2"1/2	45	370	288
FCD30-VLR8/60	1100	610	720	180	1400	3"	2"1/2	45	370	291
FCD30-VLR8/80	1100	610	720	180	1400	3"	2"1/2	45	370	315
FCD30-VLR8/100	1100	610	720	180	1400	3"	2"1/2	45	370	318

NOCCHI FCD30 - VLR 16

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	300	600	750	900	1050
		m ³ / h	18	36	45	54	63
FCD30-VLR16/30	3x3	m.c.a. / m.w.c.	39	37	34	30	24
FCD30-VLR16/40	3x4		52	49	46	40	32
FCD30-VLR16/50	3x5.5		65	62	57	51	40
FCD30-VLR16/60	3x5.5		78	74	69	61	47
FCD30-VLR16/70	3x7.5		91	86	80	71	55

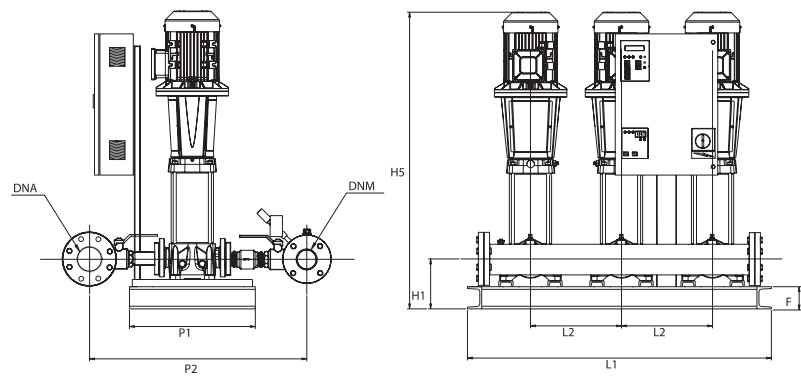
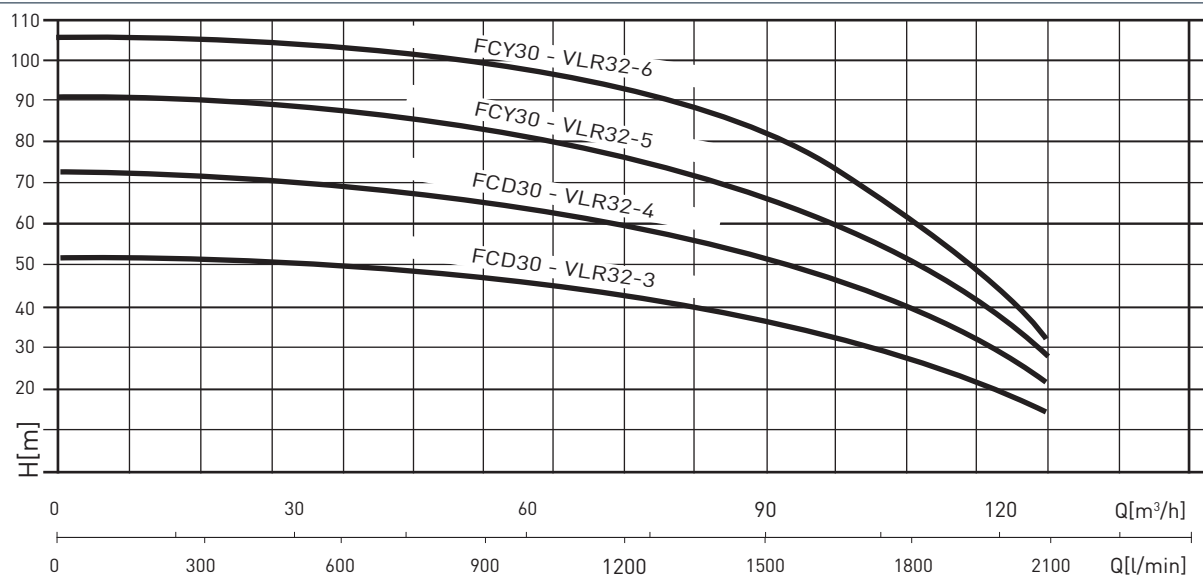
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD30-VLR16/30	1100	610	860	190	1500	4"	3"	45	370	330
FCD30-VLR16/40	1100	610	860	190	1500	4"	3"	45	370	375
FCD30-VLR16/50	1100	610	860	190	1500	4"	3"	45	370	425
FCD30-VLR16/60	1100	610	860	190	1500	4"	3"	45	370	431
FCD30-VLR16/70	1100	610	860	190	1500	4"	3"	45	370	450

NOCCHI FC.30 - VLR 32

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	600	1200	1500	1800	2100
		m ³ / h	36	72	90	108	126
FCD30-VLR32-3	3x5.5	m.c.a. / m.w.c.	7	47	41	33	20
FCD30-VLR32-4	3x7.5		71	63	55	44	27
FCY30-VLR32-5	3x11		89	79	69	55	34
FCY30-VLR32-6	3x11		106	94	82	66	40.8

OVERALL DIMENSIONS AND WEIGHTS

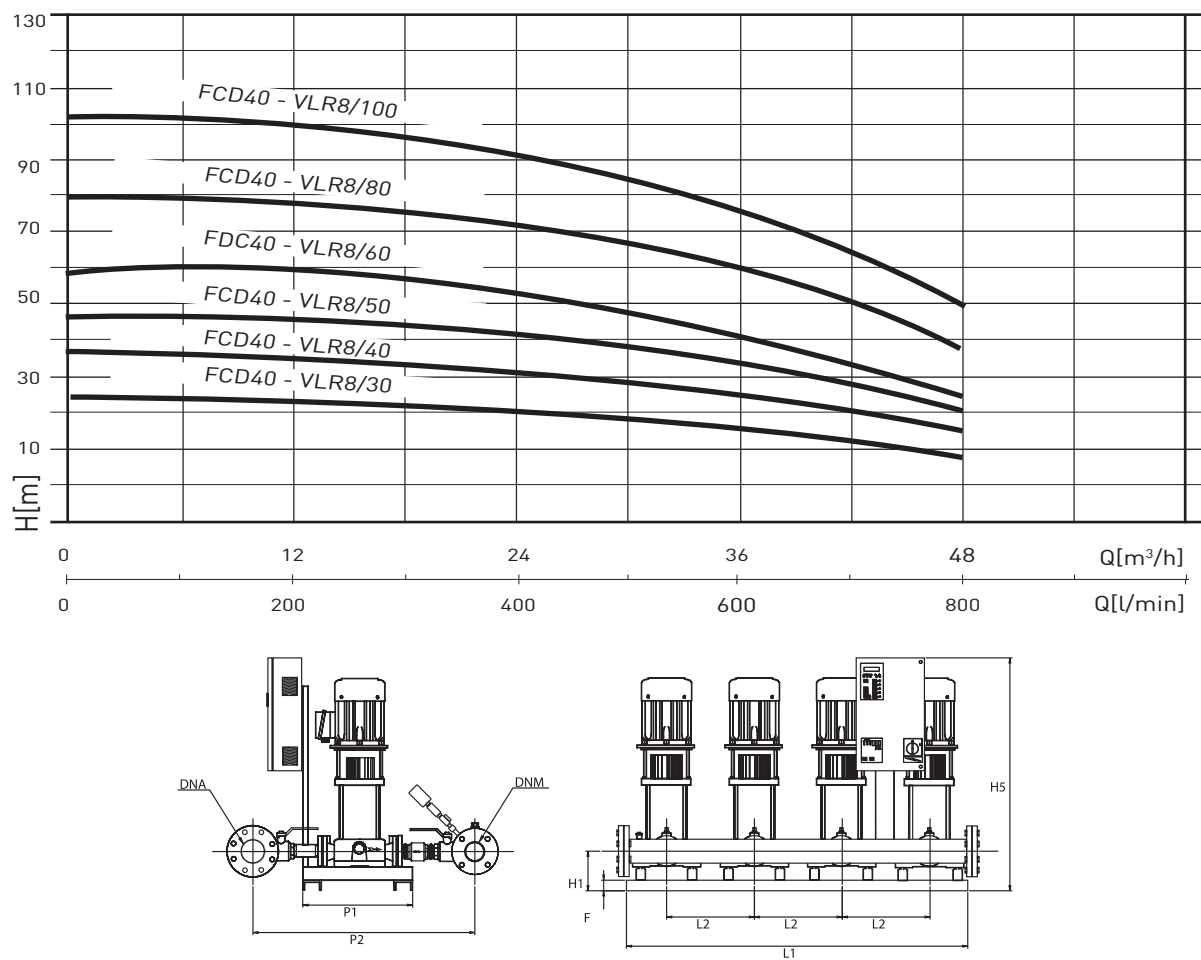
MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD30-VLR32-3	1300	700	1060	230	1520	5"	3"	80	440	631
FCD30-VLR32-4	1300	700	1060	230	1520	5"	3"	80	440	645
FCY30-VLR32-5	1300	700	1060	230	1500**	5"	3"	80	440	677*
FCY30-VLR32-6	1300	700	1060	230	1570**	5"	3"	80	440	797*

* Weight refers to unit + electric pumps.
 **Height refers to electric pumps - electrical panel supplied separately with cabinet weight of 124 kg

NOCCHI FCD40 - VLR 8

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	200	400	600	700	800
		m³ / h	12	24	36	42	48
FCD40-VLR8/30	4x1.1	m.c.a. / m.w.c.	31	29	24	21	16
FCD40-VLR8/40	4x1.5		41	38	32	27	22
FCD40-VLR8/50	4x2.2		52	48	40	34	27
FCD40-VLR8/60	4x2.2		62	58	48	41	33
FCD40-VLR8/80	4x3		82	77	64	55	44
FCD40-VLR8/100	4x4		103	96	80	69	55

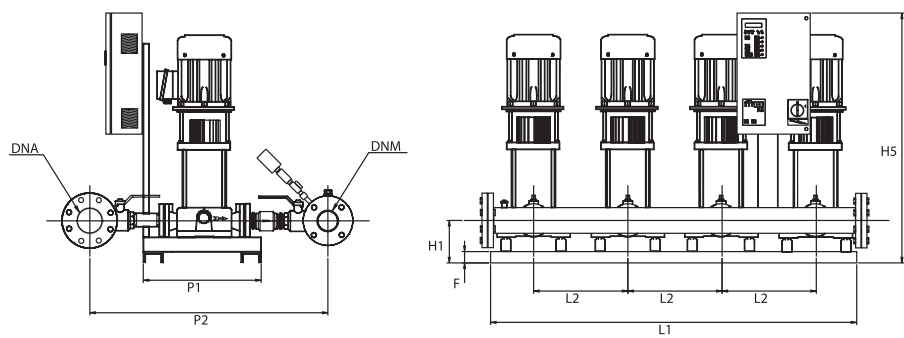
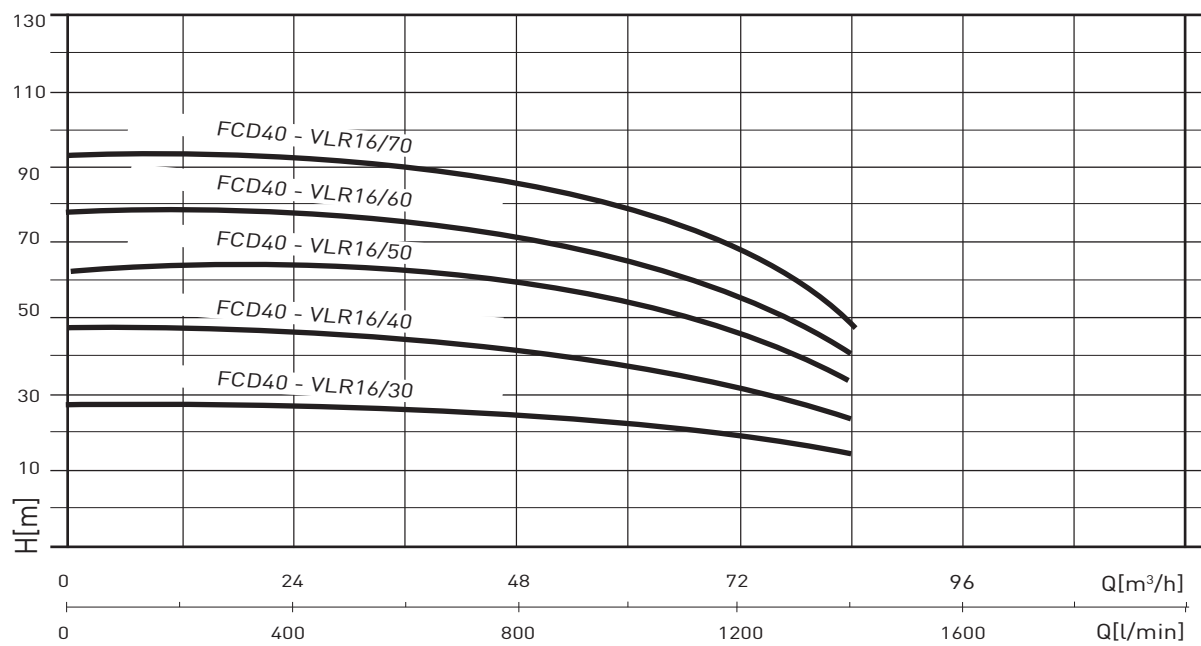
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD40-VLR8/30	1500	610	720	180	1300	3"	3"	45	370	314
FCD40-VLR8/40	1500	610	720	180	1300	3"	3"	45	370	322
FCD40-VLR8/50	1500	610	720	180	1300	3"	3"	45	370	326
FCD40-VLR8/60	1500	610	720	180	1300	3"	3"	45	370	358
FCD40-VLR8/80	1500	610	720	180	1300	3"	3"	45	370	362
FCD40-VLR8/100	1500	610	720	180	1300	3"	3"	45	370	366

NOCCHI FCD40 - VLR 16

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	400	800	1000	1200	1400
		m³ / h	24	48	60	72	84
FCD40-VLR16/30	4x3	m.c.a. / m.w.c.	39	37	34	30	24
FCD40-VLR16/40	4x4		52	49	46	40	32
FCD40-VLR16/50	4x5.5		65	62	57	51	40
FCD40-VLR16/60	4x5.5		78	74	69	61	47
FCD40-VLR16/70	4x7.5		91	86	80	71	55

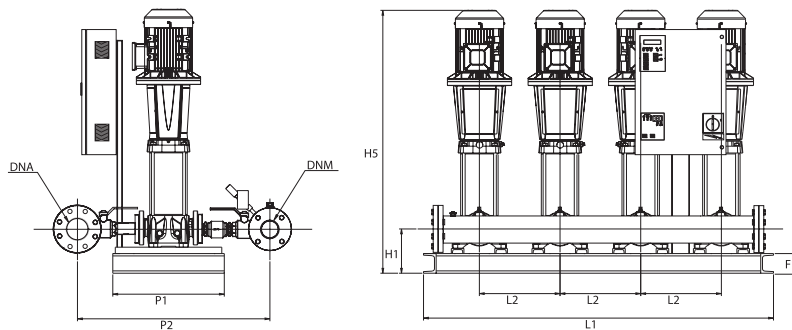
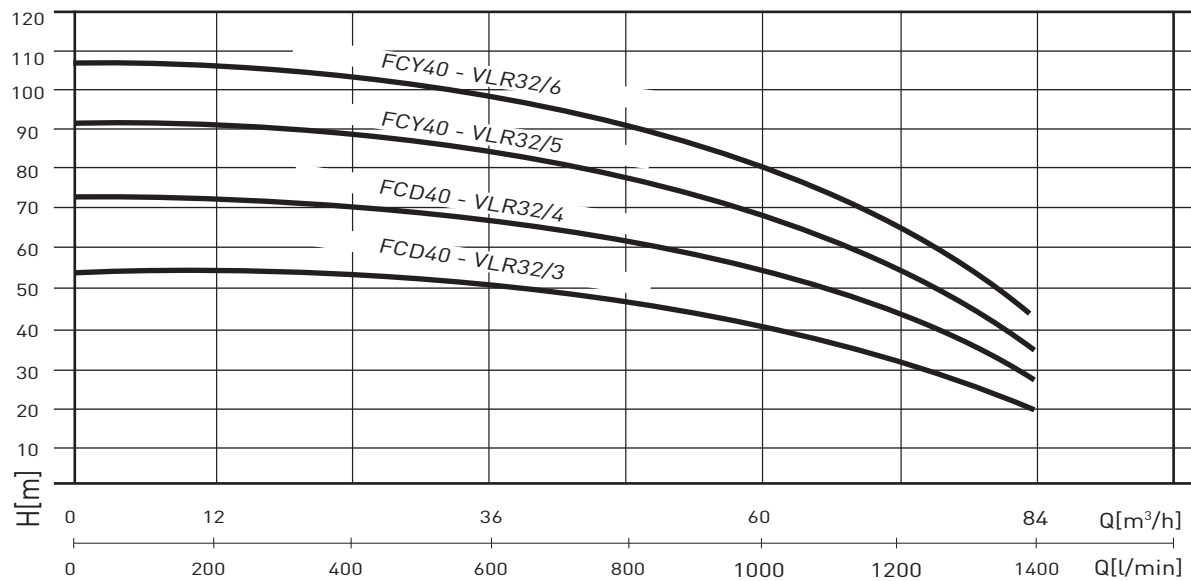
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD40-VLR16/30	1470	610	860	190	1520	5"	4"	45	370	393
FCD40-VLR16/40	1470	610	860	190	1520	5"	4"	45	370	396
FCD40-VLR16/50	1470	610	860	190	1520	5"	4"	45	370	419
FCD40-VLR16/60	1470	610	860	190	1520	5"	4"	45	370	423
FCD40-VLR16/70	1470	610	860	190	1520	5"	4"	45	370	429

NOCCHI FC.40 - VLR 32

VARIABLE SPEED PRESSURE BOOSTERS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	kW	L/min	800	1600	2000	2400	2800
		m ³ / h	48	96	120	192	240
FCD40-VLR32-3	4x5.5	m.c.a. / m.w.c.	53	47	41	33	20
FCD40-VLR32-4	4x7.5		71	63	55	44	27
FCY40-VLR32-5	4x11		89	79	69	55	34
FCY40-VLR32-6	4x11		106	94	82	66	40.8

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight (kg)
	L1	P1	P2	H1	H5	DNA	DNM	F	L2	
FCD40-VLR32-3	1740	700	1060	230	1520	6"	5"	80	440	628
FCD40-VLR32-4	1740	700	1060	230	1520	6"	5"	80	440	783
FCY40-VLR32-5	1740	700	1060	230	1500**	6"	5"	80	440	908*
FCY40-VLR32-6	1740	700	1060	230	1570**	6"	5"	80	440	1066*

* Weight refers to unit + electric pumps.

**Height refers to electric pumps - electrical panel supplied separately with cabinet weight of 165 kg

NOCCHI CPS20

VARIABLE SPEED PRESSURE BOOSTER SETS WITH TWO PUMPS

The new series of variable speed pressure booster sets CPS20 offers a reliable and simple solution for residential and industrial applications. The system envisages the parallel installation of two inverters integrated directly on the motor of each electric pump installed. The two frequency converters communicate and alternate the starting sequence on each work cycle, keeping constant pressure in the distribution system.

APPLICATIONS

- Lifting and distribution of water in domestic systems.
- Pressure booster systems
- Irrigation
- Industry
- Washing

TECHNICAL SPECIFICATIONS

- Power supply voltage: inverter 1x230 Vac $\pm$ 10 %.
- Inverter output voltage: 3x230 Vac $\pm$ 10 %.
- Maximum nominal power: 2x2. kW.
- Input frequency: 50/60 Hz + 3%.
- Maximum nominal output current: 8 Amp.
- Protection rating: 1P55-VLR / 1P54-DHR ; IP-44 MULTINOX, MULTINOX-A, MULTINOX-VE, JET, JETINOX.
- Max. temperature: 50°C.
- Inlet filter compliant with EMC directive.
- Pressure transducer 0 - 5 Volt - 0 - 10 Bar.
- Interface connectivity: RS 485 serial port.
- 3 optional contacts (external set-point, alarm, system disable).

BASE

- In galvanized sheet steel complete vibration damper feet.

SUCTION MANIFOLD

In galvanized steel with:

- 2 brass ball valves *

DELIVERY MANIFOLD

In galvanized steel with:

- 2 brass ball valves *
- 1 pressure gauge
- 2 pressure sensors.

Electrical protection panel with thermal magnetic cut-outs.

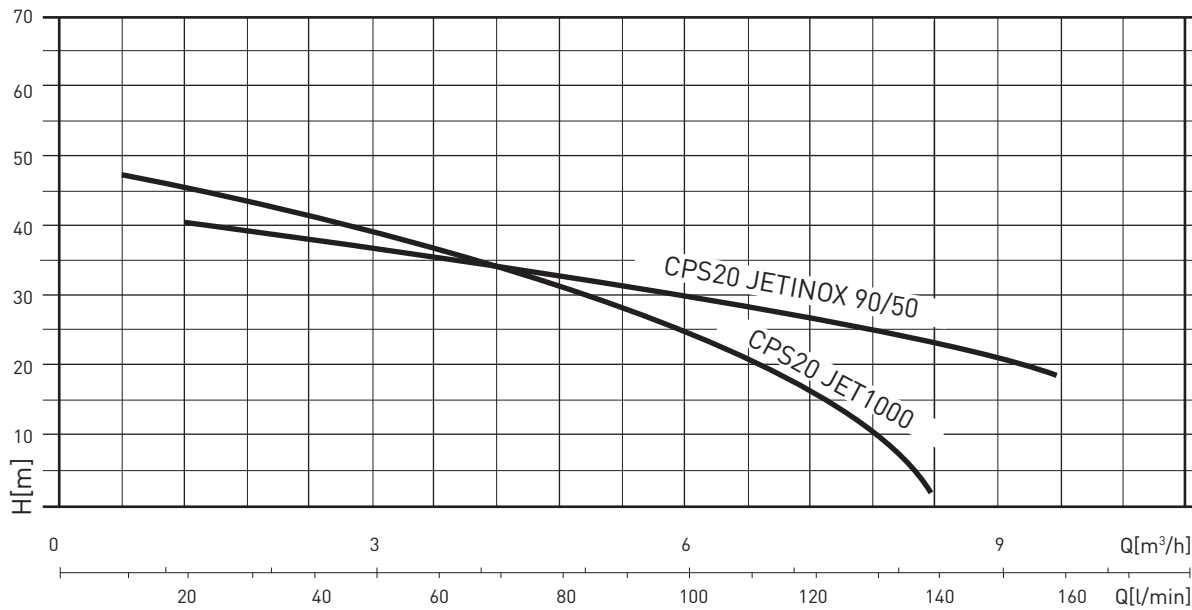
TYPE	MODEL	kW (P2)	Q1 l/m	Q2 l/m	H1 m	H2 m
HORIZONTAL	CPS20 JET 1000	2x1	10	140	42	20
	CPS20 JETINOX 90/50	2x0.9	20	160	44	3
	CPS20 MULTINOX-XC 80/48	2x0.55	20	160	37	4
	CPS20 MULTINOX-XC 120/45	2x0.85	20	200	43	3
	CPS20 MULTINOX-XC 120/60	2x0.9	20	200	53	7
	CPS20 MULTINOX-A 200/40 hv	2x1.1	40	360	34	13
	CPS20 MULTINOX-A 200/65	2x1.4	40	360	56	22
	CPS20 MULTINOX-A 200/80	2x1.8	40	360	67	26
	CPS20 DHR 2-50	2x0.5	20	100	25	12
	CPS20 DHR 4-50	2x0.7	80	240	39	17
	CPS20 DHR 4-60	2x1.1	80	240	49	25
	CPS20 DHR 9-40	2x1.3	80	480	40	10
	CPS20 DHR 9-60	2x1.9	804	80	60	14
VERTICAL	CPS20 MULTINOX-VE 200/40	2x1.1	40	360	34	13
	CPS20 MULTINOX-VE 200/65	2x1.4	40	360	56	22
	CPS20 MULTINOX-VE200/80	2x1.8	40	320	67	26
	CPS20 VLR2B/60	2x0.75	20	100	54	30
	CPS20 VLR2B/110	2x1,	120	100	100	55
	CPS20 VLR 4-60	2x1.1	80	240	53	27
	CPS20 VLR 4-80	2x1.5	80	240	71	35
	CPS20 VLR 4-100	2x2.2	80	240	89	44
	CPS20 VLR8-40	2x1.5	100	400	41	22



NOCCHI CPS20 JET - JETINOX

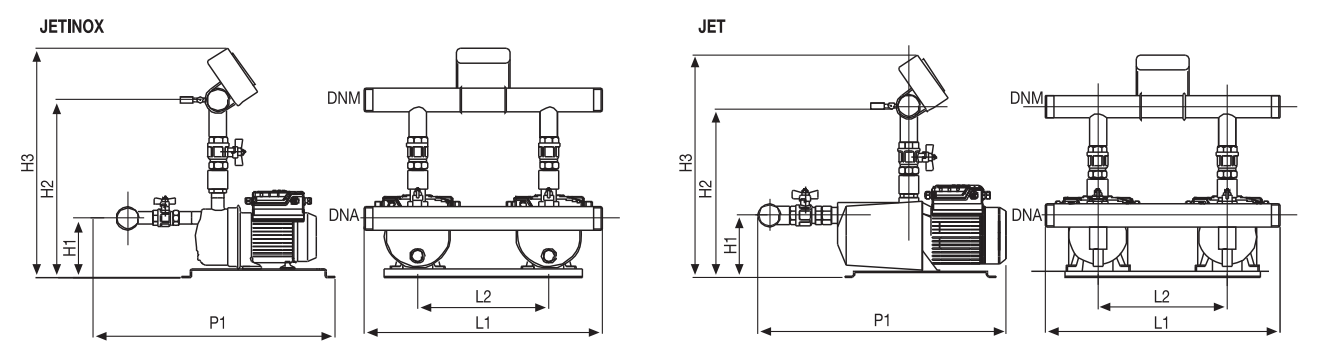
VARIABLE SPEED PRESSURE BOOSTER SETS WITH TWO PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P1		Volt	In (A)	Q	L/min	20	40	60	80	100	120	140	160
	HP	kW				m³/h	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
CPS20-JETINOX90/50	2x2	2x1.5	1 ~ 230	2x9	m.c.a./ m.w.c.		42	39	37	33	30	27	25	20
CPS20- JET 1000	2x1.5	2x1.1	1 ~ 230	2x7.7			44	41	37	32	25	15	3	



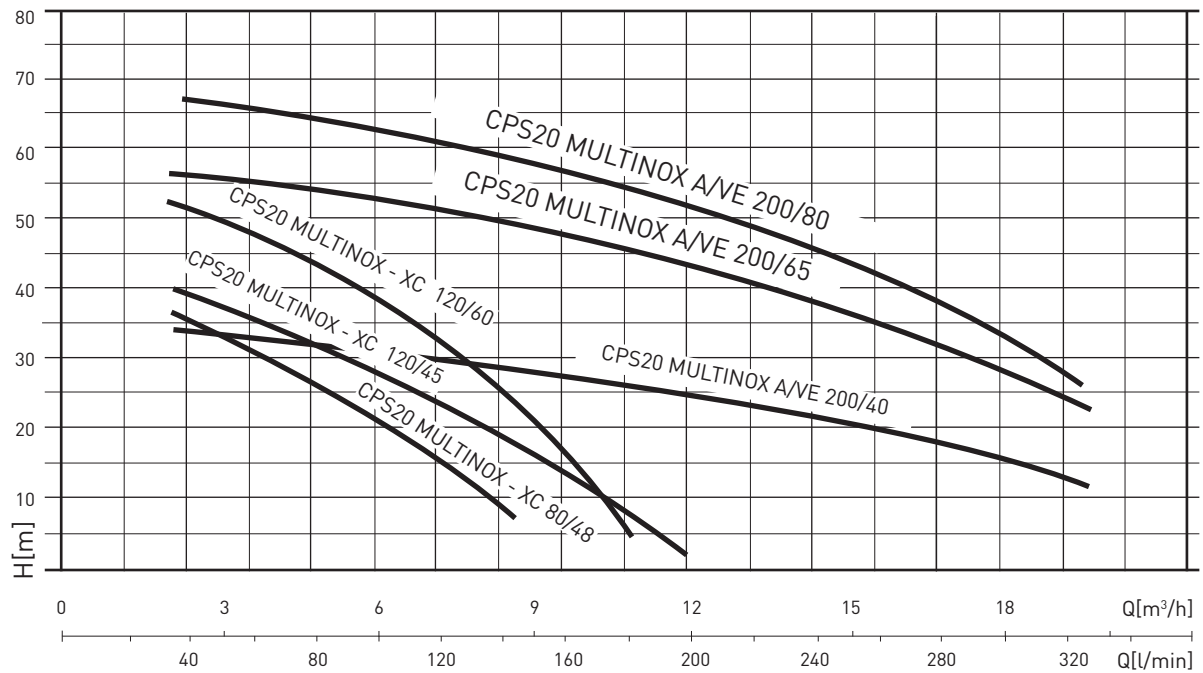
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Weight kg
	L1	L2	H1	H2	H3	P1	DNA	DNM	
CPS20 JETINOX90/50	460	320	40	243	450	740	2"	2"	70
CPS20 JET 1000	670	370	165	465	500	690	2"	2"	65

NOCCHI CPS20 MULTINOX

VARIABLE SPEED PRESSURE BOOSTER SETS WITH TWO PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

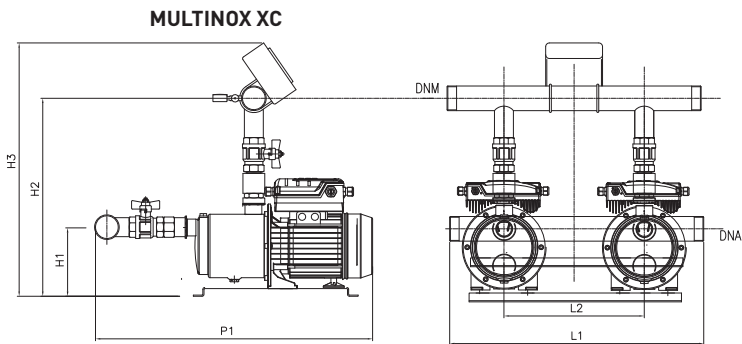
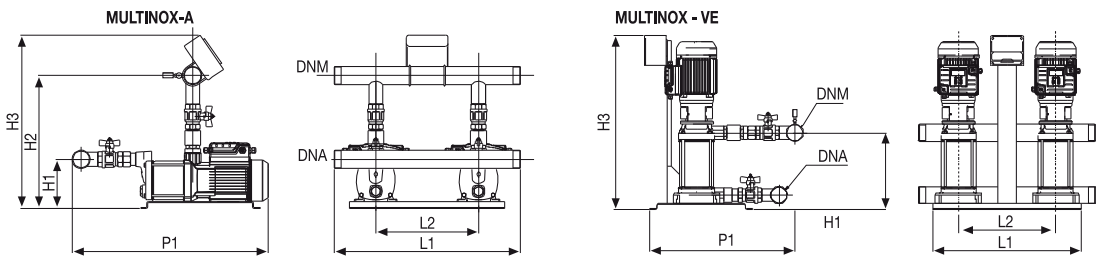
MODEL	P1		Volt	In (A)	Q	L/min	40	80	120	160	200	280	360
	HP	kW				m³/h	2.4	4.8	7.2	9.6	12.0	16.8	21.6
CPS20/MULTINOX-XC 80/48	2x0.75	2x0.55	1 ~ 230	2x5.1	m.c.a./m.w.c.		34	25	15	4			
CPS20/MULTINOX-XC 120/45	2x1.1	2x0.85	1 ~ 230	2x8.1			40	33	24	14	3		
CPS20/MULTINOX-XC 120/60	2x1.2	2x0.9	1 ~ 230	2x8			49	42	32	20	7		
CPS20/MULTINOX-A 200/40	2x1.6	2x1.2	1 ~ 230	2x8.7			34	33	32	29	27	21	13
CPS20/MULTINOX-A 200/65	2x2.7	2x2	1 ~ 230	2x14.4			56	55	54	50	46	36	22
CPS20/MULTINOX-A 200/80	2x3.1	2x2.3	1 ~ 230	2x15.5			67	65.5	64	60	55	43	26
CPS20/MULTINOX-VE 200/40	2x1.6	2x1.2	1 ~ 230	2x8.7			34	33	32	29	27	21	13
CPS20/MULTINOX-VE 200/65	2x2.7	2x2	1 ~ 230	2x14.4			56	55	54	50	46	36	22
CPS20/MULTINOX-VE 200/80	2x3.1	2x2.3	1 ~ 230	2x15.5			67	65.5	64	60	55	43	26

NOCCHI CPS20 MULTINOX

VARIABLE SPEED PRESSURE BOOSTER SETS WITH TWO PUMPS

OVERALL DIMENSIONS AND WEIGHTS

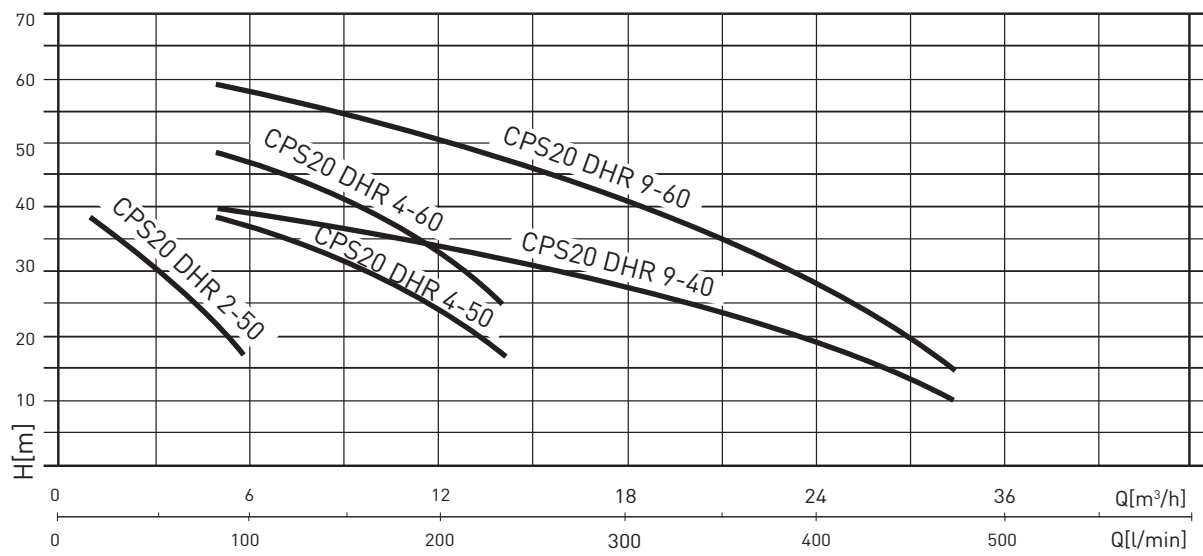
MODEL	Dimensions (mm)								Weight kg
	L1	L2	H1	H2	H3	P1	DNA	DNM	
CPS20/MULTINOX-XC 80/48	570	310	159	365	535	610	1"1/2	1"1/2	41
CPS20/MULTINOX-XC 120/45	570	310	159	365	535	635	1"1/2	1"1/2	45
CPS20/MULTINOX-XC 120/60	570	310	159	365	535	645	1"1/2	1"1/2	48
CPS20/MULTINOX-A 200/40	650	370	170	485	690	690	2"	2"	70
CPS20/MULTINOX-A 200/65	670	370	170	485	690	695	2"	2"	75
CPS20/MULTINOX-A 200/80	670	370	170	485	690	725	2"	2"	83
CPS20/MULTINOX-VE 200/40	460	320	40	183	450	740	2"	2"	60
CPS20/MULTINOX-VE 200/65	460	320	40	243	450	740	2"	2"	70
CPS20/MULTINOX-VE 200/80	460	320	40	260	450	740	2"	2"	79



NOCCHI CPS20 DHR

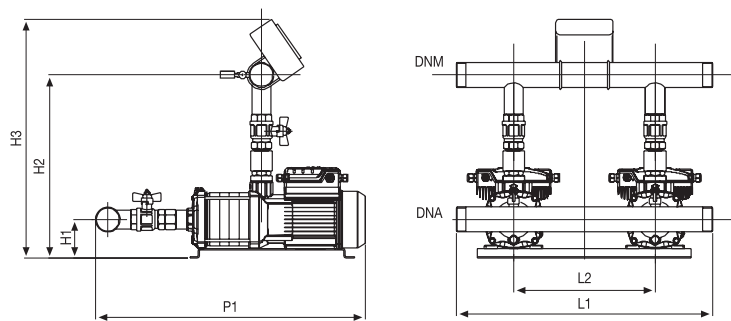
VARIABLE SPEED PRESSURE BOOSTER SETS WITH TWO PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P1		Volt	In (A)	Q	L/min	20	40	60	80	100	120	160	200	240	320	400	480
	HP	kW				m³/h	1.2	2.4	3.6	4.8	6.0	7.2	9.6	12.0	14.4	19.2	24.0	28.8
CPS20/DHR 2-50	2x1	2x1.0	1 ~ 230	2x5.5	m.c.a./m.w.c.	39	35	30	23	17								
CPS20/DHR 4-50	2x1.7	2x1.1	1 ~ 230	2x10.6					39	38	35	31	25	17				
CPS20/DHR 4-60	2x2.15	2x1.1	1 ~ 230	2x9.5					49	47	45	41	34	25				
CPS20/DHR 9-40	2x2.15	2x1.1	1 ~ 230	2x9.5					40	39	38	38	35	33	27	19	10	
CPS20/DHR 9-60	2x3.35	2x2.2	1 ~ 230	2x15.8					60	58	57	56	53	49	40	29	14	



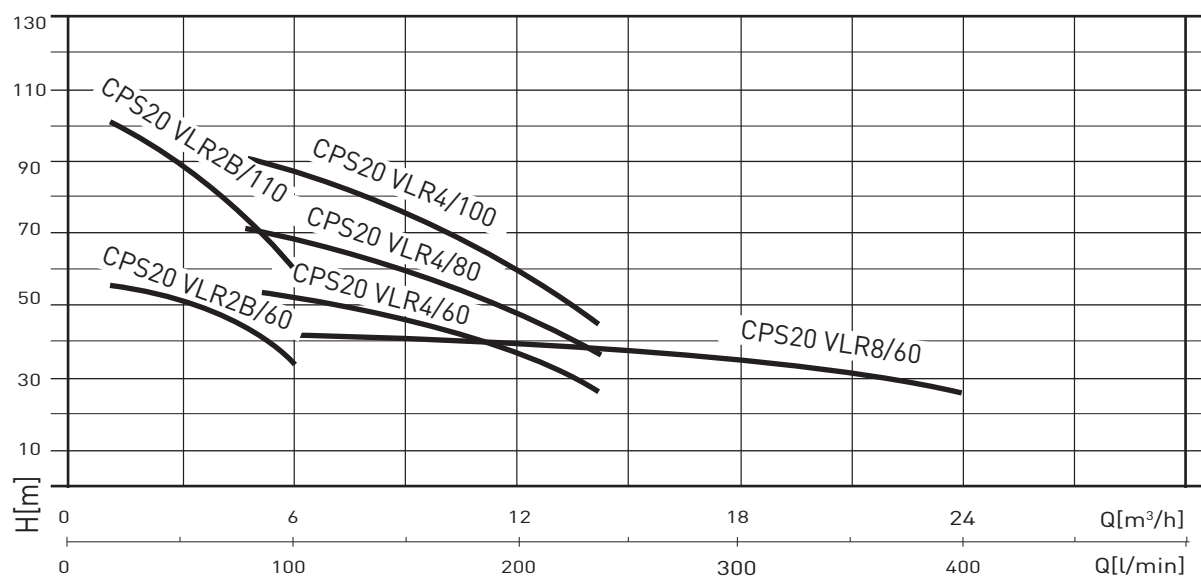
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Weight kg
	L1	L2	H1	H2	H3	P1	DNA	DNM	
CPS20/DHR 2-50	670	370	100	365	585	700	2"1/2	2"	57
CPS20/DHR 4-50	670	370	100	365	585	700	2"1/3	2"	62
CPS20/DHR 4-60	670	370	100	365	585	700	2"1/4	2"	68
CPS20/DHR 9-40	670	370	100	400	620	700	2"1/5	2"	77
CPS20/DHR 9-60	670	370	100	400	620	700	2"1/2	2"	89

NOCCHI CPS20 VLR

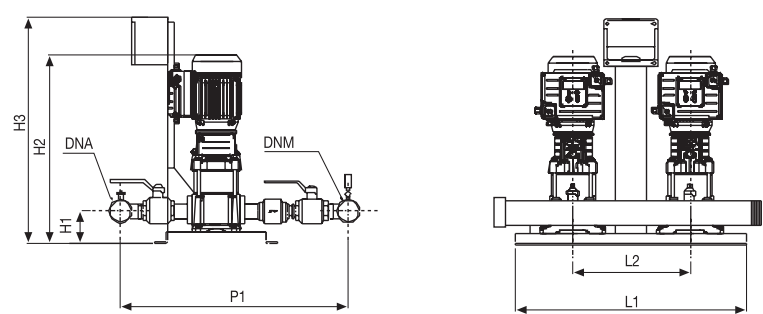
VARIABLE SPEED PRESSURE BOOSTER SETS WITH TWO PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P1		Volt	In [A]	Q	L/min	20	40	60	80	100	120	160	200	240	320	350	400
	HP	kW				m³/h	1.2	2.4	3.6	4.8	6.0	7.2	9.6	12.0	14.4	19.2	21.0	24.0
CPS20-VLR2B/60	2x0.752	2x1.0	1 ~ 230	2x6.5	m.c.a./m.w.c.	54	51	46	39	30								
CPS20-VLR2B/110	2x1.5	2x1.1	1 ~ 230	2x10.5		100	94	85	72	55								
CPS20/VLR 4-60	2x1.5	2x1.1	1 ~ 230	2x10.4					53	51	49	44	36	27				
CPS20/VLR 4-80	2x1.5	2x1.1	1 ~ 230	2x14.2					71	69	66	58	49	35				
CPS20/VLR4-100	2x3	2x2.2	1 ~ 230	2x15.4					89	86	82	73	61	44				
CPS20/VLR 8-40	2x2	2x1.5	1 ~ 230	2x14.2						41	40	39	38	35	32	27	22	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)								Weight kg
	L1	L2	H1	H2	H3	P1	DNA	DNM	
CPS20-VLR2B/60	600	370	80	633	700	620	2"	2"	60
CPS20-VLR2B/110	600	370	80	723	700	620	2"	2"	60
CPS20/VLR 4-60	600	370	75	687	810	660	2"	2"	70
CPS20/VLR 4-80	600	370	75	788	810	660	2"	2"	73
CPS20/VLR4-100	600	370	75	842	810	660	2"	2"	89
CPS20/VLR 8-40	620	370	100	785	820	700	2" 1/2	2" 1/2	110

NOCCHI CPS3-20

THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO ELECTRIC PUMPS

EASY TO INSTALL, LOW ENERGY CONSUMPTION, VERSATILE OPERATION

The new series of variable speed pressure booster sets CPS3-20 offers a reliable and simple solution for residential and industrial applications. The system envisages the parallel installation of two electric pumps equipped with electronic control. The CPS3 is an electronic device designed to vary the frequency of an electric pump. It is incorporated directly on the motor to enable control of the speed to provide the utility with a constant pressure even in the event of changes in water demands.

When the system pressure falls below the set threshold, the module starts up the pump to restore the set point pressure; the pump rotation speed varies according to water demand and therefore increases speed on requests

for increased quantities, through to the maximum setting. After this, if the system requires more output, the module activates the second pump in emergency mode to maintain stable pressure values. On decrease in water demand, the speed of the last activated pump is reduced through to shutdown. The module keeps the first activated pump running until the minimum set speed is reached, after which, if no pressure drops are detected, the pump is shut down. The CPS3-20 is equipped with five operating modes to respond to various operating requirements.



TECHNICAL SPECIFICATIONS

- Inverter power supply voltage: 3x380-500 Vac.
- Inverter output voltage: 3x380-500 Vac.
- Maximum output power: 2x5.5 kW - 2x7.5 kW.
- Input frequency: 50/60 Hz.
- Maximum nominal output current: 11.5 Amp - 16 Amp.
- Protection rating: IP55-VLR IP44-MULTINOX-VE.
- Maximum ambient temperature: + 50°C.
- Inlet filter compliant with EMC directive.
- Pressure transducer: 0-5 Volt 0-10 bar.
- Connectivity: RS 485 serial interface.
- Optional contacts: 3 (external set-point, alarm, system inhibition).

BASE

- In galvanized sheet steel complete vibration damper feet.

SUCTION MANIFOLD

- In AISI 304 stainless steel with 2 ball valves:

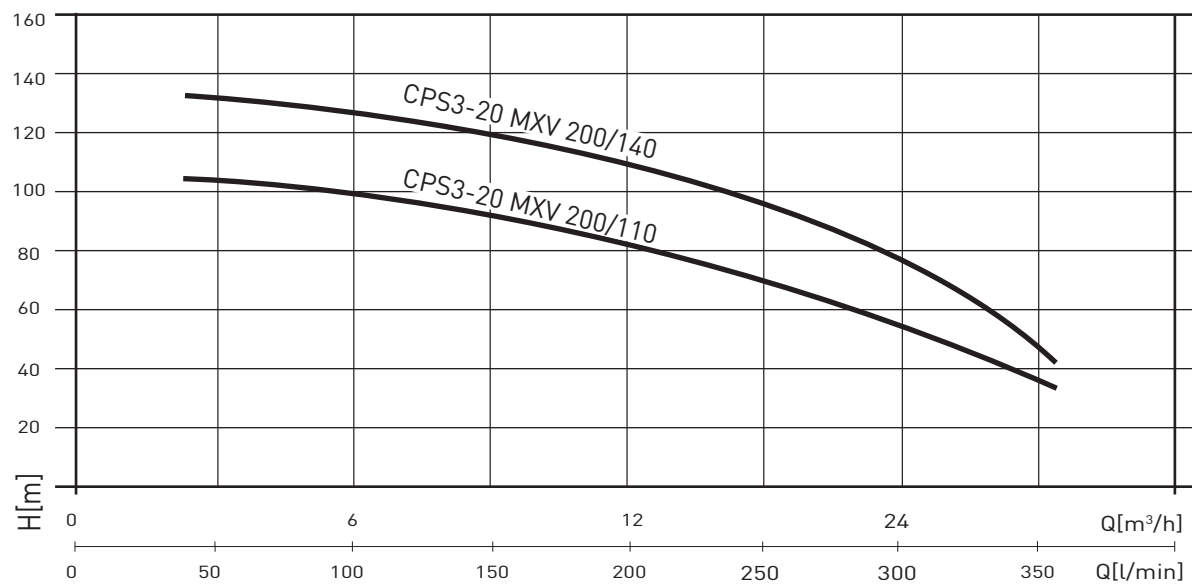
DELIVERY MANIFOLD

- In AISI 304 stainless steel with:
- 2 ball valves
- 2 check valves
- 1 pressure gauge
- 2 pressure sensors.

NOCCHI CPS3-20

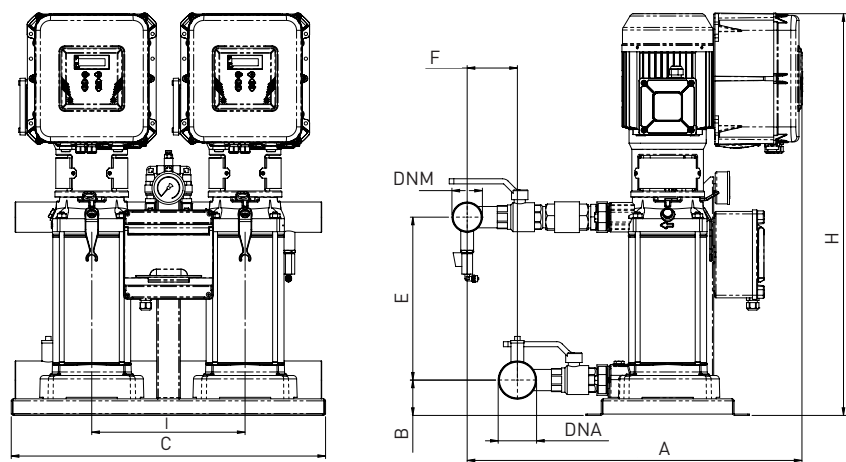
THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	40	120	200	280	360
	HP	kW				m³/h	2.4	7.2	12.0	16.8	21.6
CPS3-20 MXV 200/110	2x3.5	2x2.6	3 ~ 400	2x7.4	m.c.a./ m.w.c.	101	96	83	64	39	
CPS3-20 MXV 200/140	2x5.5	2x4	3 ~ 400	2x9.7		134	125	106	82	46	



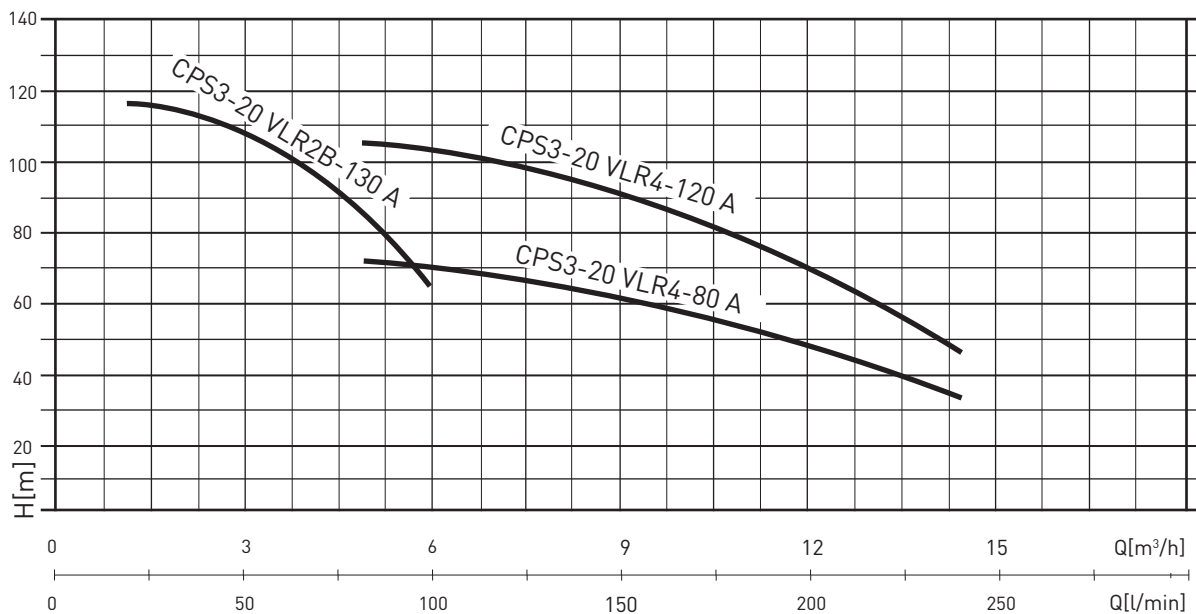
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight kg
	A	B	C	E	F	H	I	DNA	DNM	
CPS3-20 MXV 200/110	660	70	620	320	100	790	300	2"1/2	2"	110
CPS3-20 MXV 200/140	660	70	620	440	100	910	300	2"1/2	2"	116

NOCCHI CPS3-20

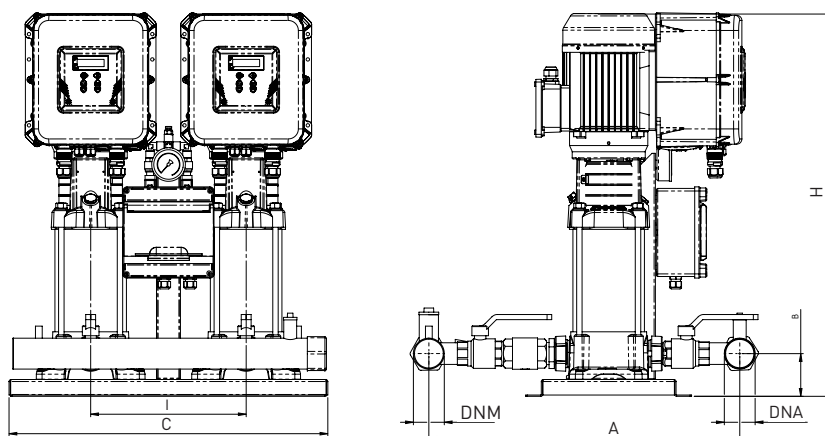
THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	20	40	60	80	100	120	160	200	240
	HP	kW				m³/h	1.2	2.4	3.6	4.8	6.0	7.2	9.6	12.0	14.4
CPS3-20 VLR 2B-130 A	2x2	2x1.5	3 ~ 400	2x3.8	m.c.a./m.w.c.	118	111	101	85	65					
CPS3-20 VLR 4-80 A	2x2	2x1.5	3 ~ 400	2x4.1					71	69	66	58	49	35	
CPS3-20 VLR 4-120 A	2x3	2x2.2	3 ~ 400	2x6					106	103	99	87	73	53	



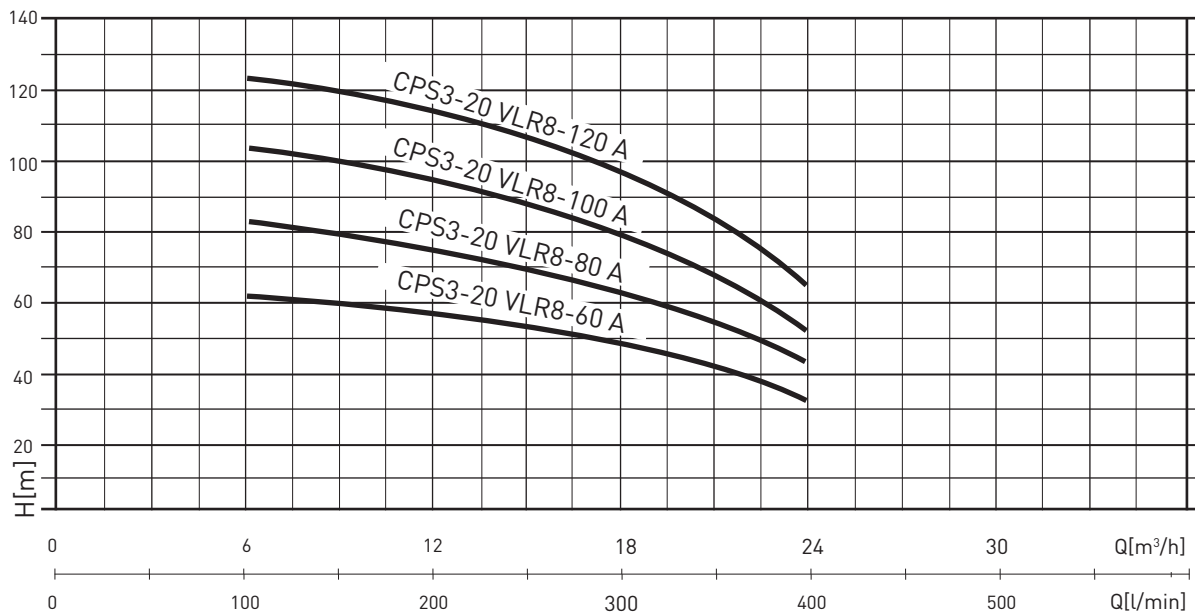
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	H	I	DNA	DNM	
CPS3-20 VLR 2B-130 A	600	85	620	760	300	2"	2"	110
CPS3-20 VLR 4-80 A	600	85	620	740	300	2"	2"	102
CPS3-20 VLR 4-120 A	600	85	620	845	300	2"	2"	110

NOCCHI CPS3-20

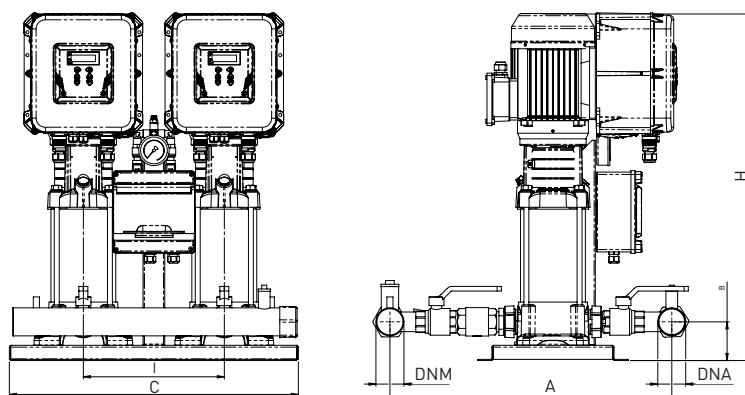
THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	100	200	300	350	400
	HP	kW				m³/h	6.0	12.0	18.0	21.0	24.0
CPS3- 20 VLR 8-60 A	2x3	2x2.2	3 ~ 400	2x5.4	m.c.a./m.w.c.	62	58	48	41	33	
CPS3- 20 VLR 8-80 A	2x4	2x3	3 ~ 400	2x7		82	77	64	55	44	
CPS3- 20 VLR 8-100 A	2x5.5	2x4	3 ~ 400	2x8.3		103	96	80	69	55	
CPS3- 20 VLR 8-120 A	2x5.5	2x4	3 ~ 400	2x10		124	115	96	82	65	



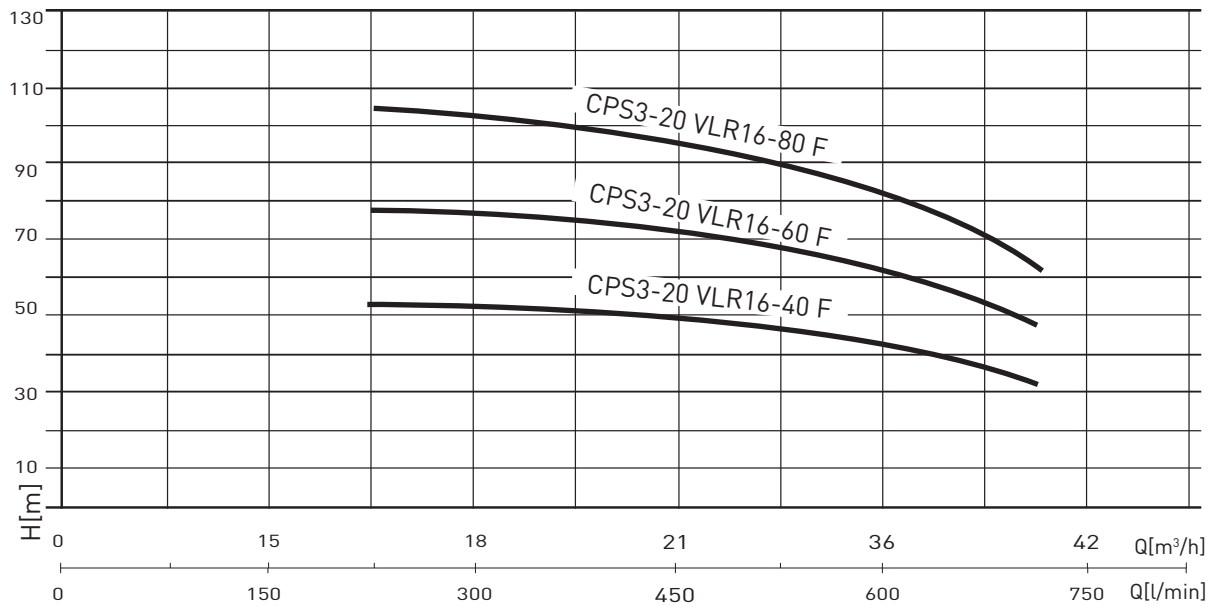
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	H	I	DNA	DNM	
CPS3- 20 VLR 8-60 A	670	115	620	770	300	2"1/2	2"1/2	130
CPS3- 20 VLR 8-80 A	670	115	620	870	300	2"1/2	2"1/2	145
CPS3- 20 VLR 8-100 A	670	115	620	920	300	2"1/2	2"1/2	147
CPS3- 20 VLR 8-120 A	670	115	620	980	300	2"1/2	2"1/2	155

NOCCHI CPS3-20

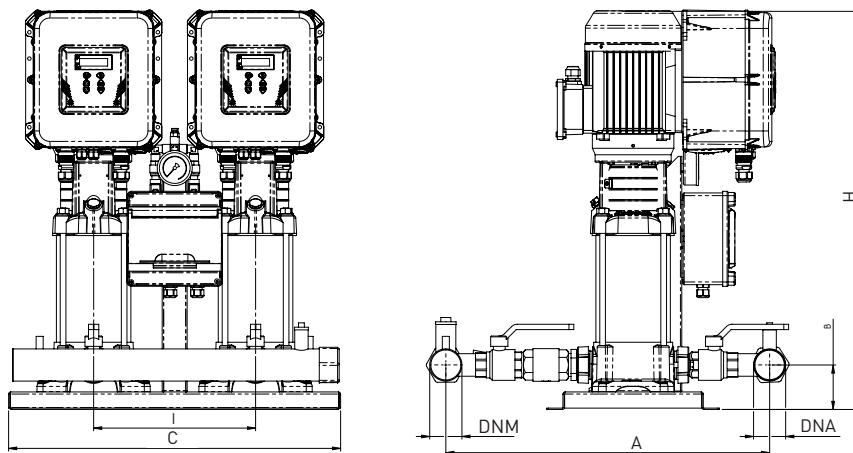
THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	200	400	500	600	700
	HP	kW				m³/h	12.0	24.0	30.0	36.0	42.0
CPS3-20 VLR 16-40 F	2x5.5	2x4	3 ~ 400	2x8.5	m.c.a./m.w.c.	52	49	46	40	32	
CPS3-20 VLR 16-60 F	2x7.5	2x5.5	3 ~ 400	2x12.5		78	74	69	61	47	
CPS3-20 VLR 16-80 F	2x10	2x7.5	3 ~ 400	2x16.8		104	98	92	81	63	



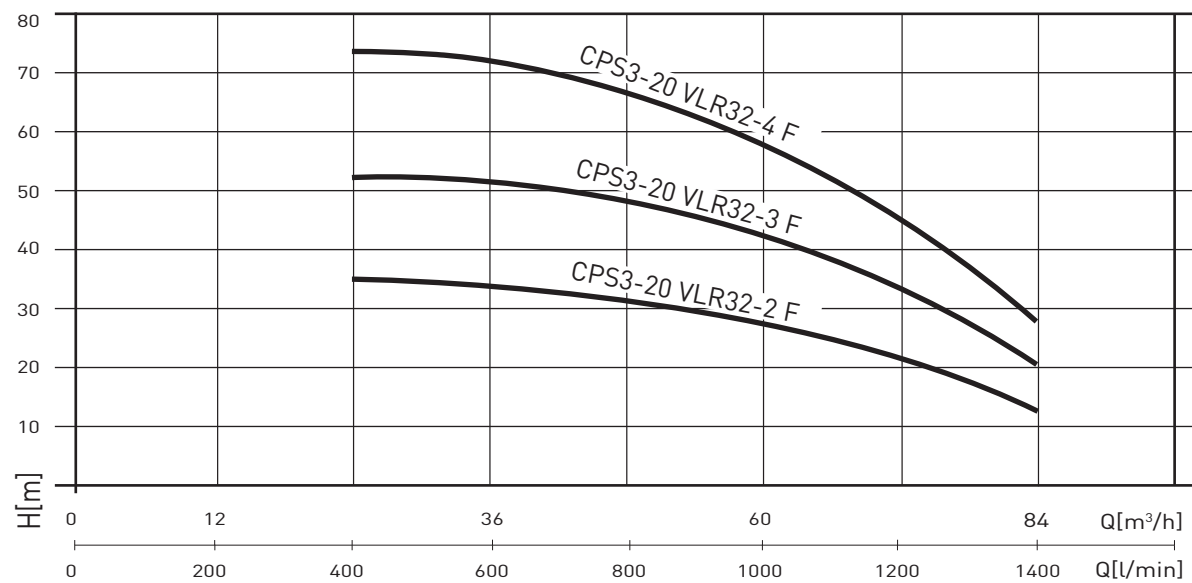
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	H	I	DNA	DNM	
CPS3-20 VLR 16-40 F	850	125	710	815	360	3"	3"	160
CPS3-20 VLR 16-60 F	850	125	710	1000	360	3"	3"	210
CPS3-20 VLR 16-80 F	850	125	710	1130	360	3"	3"	226

NOCCHI CPS3-20

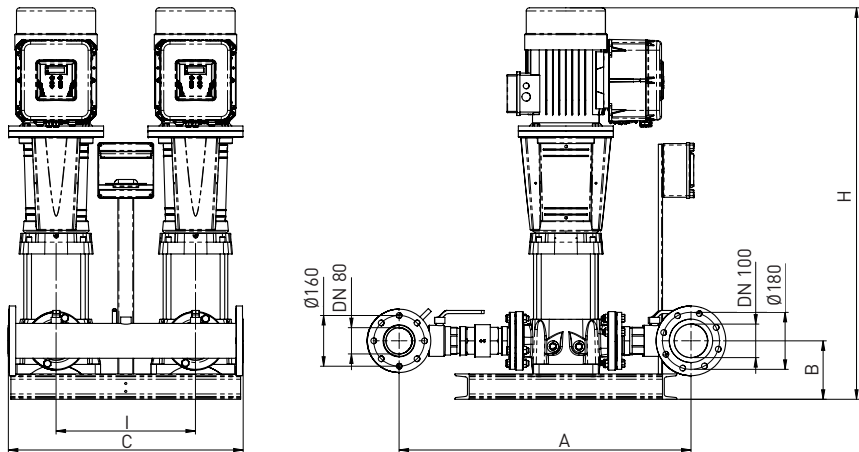
THREE PHASE VARIABLE SPEED PRESSURE BOOSTERS WITH TWO ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	400	600	1000	1200	1400
	HP	kW				m³/h	24.0	36.0	60.0	72.0	84.0
CPS3-20 VLR 32-2 F	2x5.5	2x4	3 ~ 400	2x8.7	m.c.a./m.w.c.	35	31	27	22	14	
CPS3-20 VLR 32-3 F	2x7.5	2x5.5	3 ~ 400	2x13.5		53	47	41	33	20	
CPS3-20 VLR 32-4 F	2x10	2x7.5	3 ~ 400	2x17.8		71	63	55	44	27	



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	H	I	
CPS3-20 VLR 32-2 F	950	185	750	1055	440	300
CPS3-20 VLR 32-3 F	950	185	750	1240	440	320
CPS3-20 VLR 32-4 F	950	185	750	1350	440	360

NOCCHI CPS3-30

THREE PHASE VARIABLE SPEED PRESSURE BOOSTER SETS WITH THREE ELECTRIC PUMPS

EASY TO INSTALL, LOW ENERGY CONSUMPTION, VERSATILE OPERATION

NEW FEATURES

The new series of variable speed pressure booster sets CPS3-30 offers a reliable and simple solution for residential and industrial applications. The system envisages the parallel installation of three electric pumps equipped with electronic control. The CPS3 is an electronic device designed to vary the frequency of an electric pump. It is incorporated directly on the motor to enable control of the speed to provide the utility with a constant pressure even in the event of changes in water demands. When the system pressure falls below the set threshold, the module starts up the pump to restore the set point pressure; the pump rotation speed varies according to water demand and therefore increases speed on requests

for increased quantities, through to the maximum setting. After this, if the system requires more output, the module activates the second pump and then the third to maintain stable pressure values. On decrease in water demand, the speed of the last activated pump is reduced through to shutdown. The module keeps the first activated pump running until the minimum set speed is reached, after which, if no new water demands are received, the pump is shut down. The CPS3-30 is equipped with five operating modes to respond to various operating requirements.



TECHNICAL SPECIFICATIONS

- Inverter power supply voltage: 3x380-500 Vac.
- Inverter output voltage: 3x380-500 Vac.
- Maximum output power: 3x5.5 kW - 3x7.5 kW.
- Input frequency: 50/60 Hz.
- Maximum nominal output current: 11.5 Amp - 16 Amp.
- Protection rating: IP55-VLR IP44-MULTINOX-VE.
- Maximum ambient temperature: + 50°C.
- Inlet filter compliant with EMC directive.
- Pressure transducer: 0-5 Volt 0-10 bar.
- Connectivity: RS 485 serial interface.
- Optional contacts: 3 (external set-point, alarm, system inhibition).

BASE

- In galvanized sheet steel complete vibration damper feet.

SUCTION MANIFOLD

- In AISI 304 stainless steel with 2 ball valves:

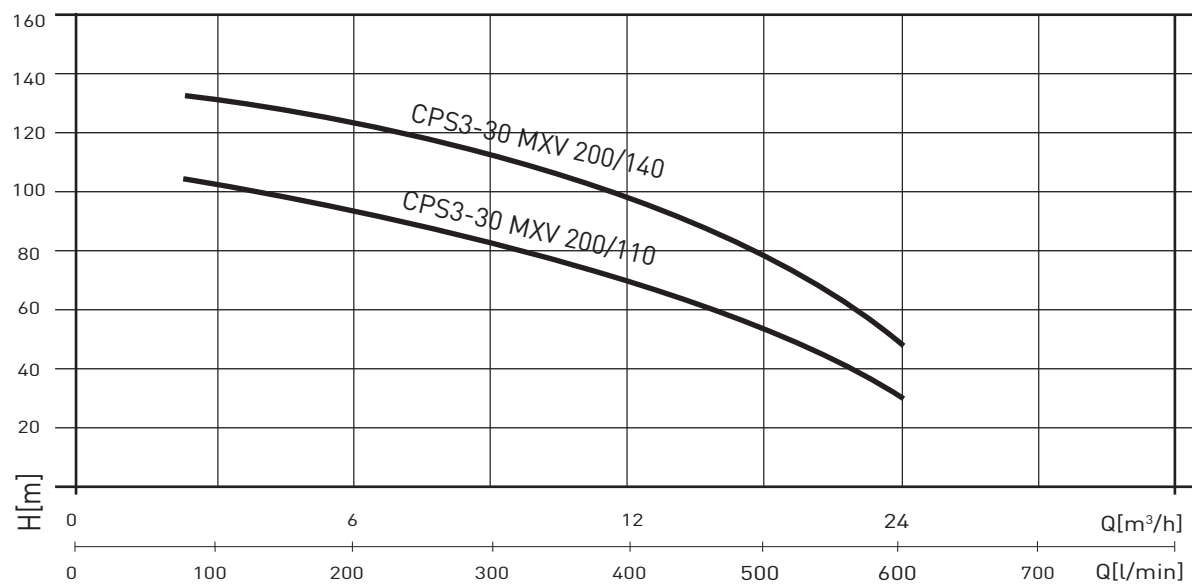
DELIVERY MANIFOLD

- In AISI 304 stainless steel with:
- 2 ball valves
- 2 check valves
- 1 pressure gauge
- 2 pressure sensors.

NOCCHI CPS3-30

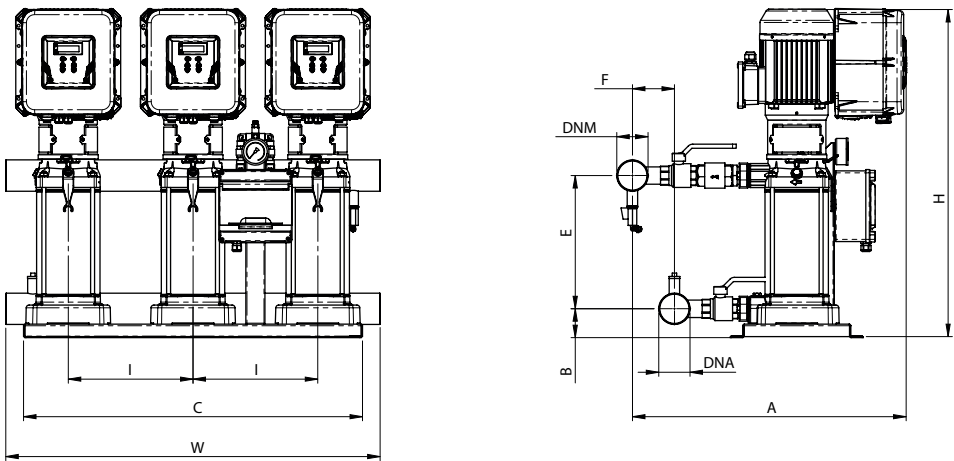
THREE PHASE VARIABLE SPEED PRESSURE BOOSTER SETS WITH THREE ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	60	180	300	420	540
	HP	kW				m³/h	3.6	10.8	18	25.2	32.4
CPS3-30 MXV 200/110	3x3.5	3x3	3 ~ 400	3x7.4	m.c.a./ m.w.c.		101	96	83	64	39
CPS3-30 MXV 200/140	3x5.5	3x4	3 ~ 400	3x9.7			134	126	108	84	51



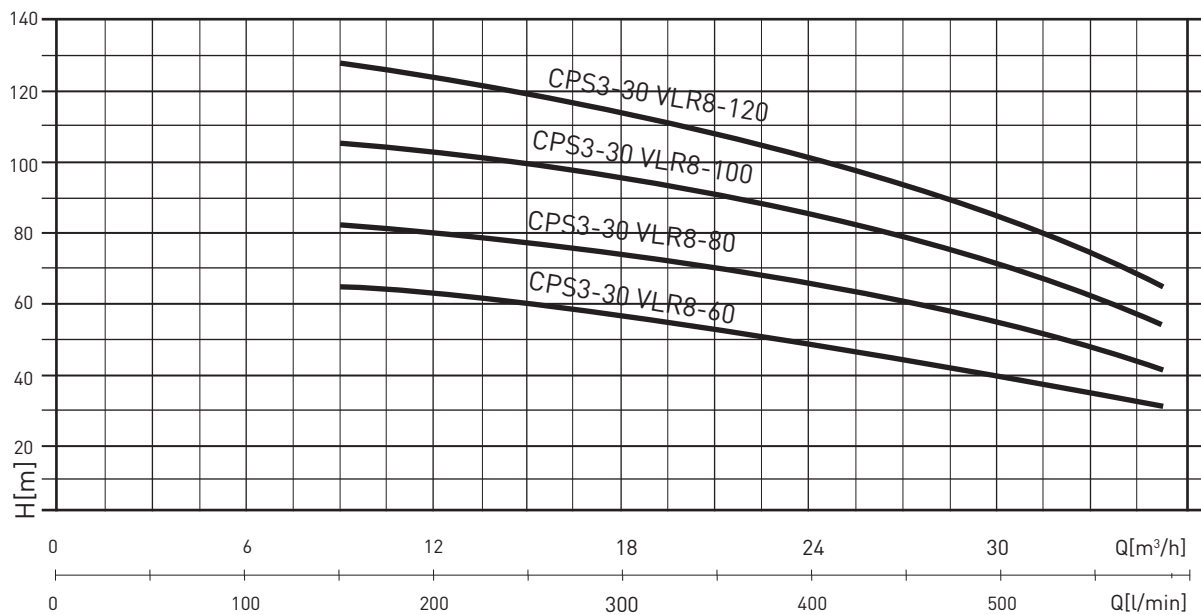
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)									Weight kg
	A	B	C	E	H	I	W	DNA	DNM	
CPS3-30 MXV 200/110	660	70	820	320	790	300	900	2"1/2	2"	175
CPS3-30 MXV 200/140	660	70	820	440	910	300	900	2"1/2	2"	165

NOCCHI CPS3-30

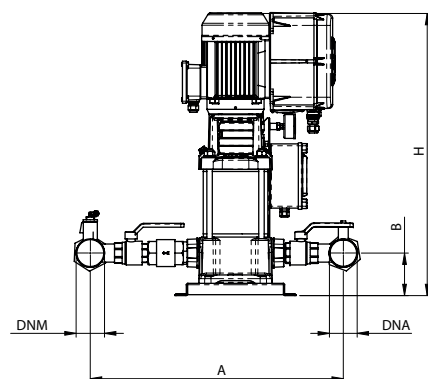
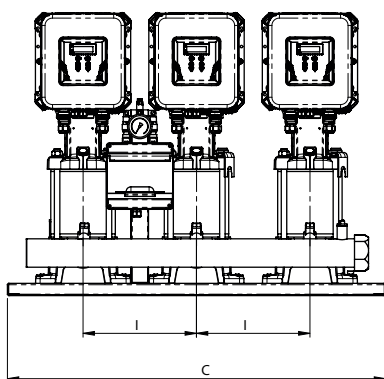
THREE PHASE VARIABLE SPEED PRESSURE BOOSTER SETS WITH THREE ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	150	300	450	525	600
	HP	kW				m³/h	9	18	27	31.5	36
CPS3/30 VLR 8-60	3x3.0	3x2.2	3 ~ 400	3x5.4	m.c.a./m.w.c.		62	58	48	41	33
CPS3/30 VLR 8-80	3x3.5	3x3.0	3 ~ 400	3x7			82	77	64	55	44
CPS3/30 VLR 8-100	3x5.5	3x4.0	3 ~ 400	3x8.3			103	96	80	69	55
CPS3/30 VLR 8-120	3x5.5	3x4.0	3 ~ 400	3x10			124	115	96	82	65



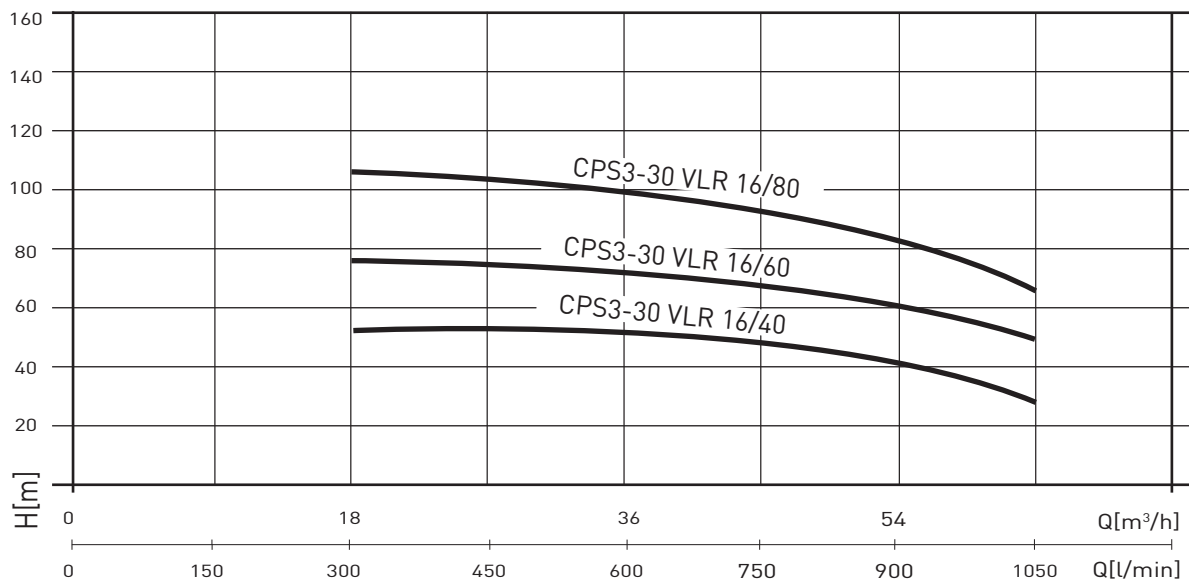
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)							Weight kg
	A	B	C	H	I	DNA	DNM	
CPS3/30 VLR 8-60	670	115	1000	770	300	2"1/2	2"1/2	200
CPS3/30 VLR 8-80	670	115	1000	870	300	2"1/2	2"1/2	220
CPS3/30 VLR 8-100	670	115	1000	920	300	2"1/2	2"1/2	225
CPS3/30 VLR 8-120	670	115	1000	980	300	2"1/2	2"1/2	235

NOCCHI CPS3-30

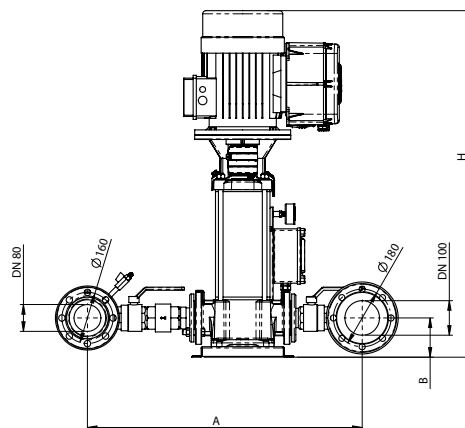
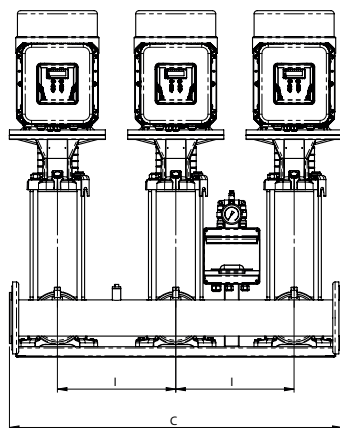
THREE PHASE VARIABLE SPEED PRESSURE BOOSTER SETS WITH THREE ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	300	600	750	900	1050
	HP	kW				m^3/h	18	36	45	54	63
CPS3/30 VLR 16-40	3x5.5	3x4.0	3 ~ 400	3x8.5	m.c.a./m.w.c.		52	49	46	40	32
CPS3/30 VLR 16-60	3x7.5	3x5.5	3 ~ 400	3x12.5			78	74	69	61	47
CPS3/30 VLR 16-80	3x10	3x7.5	3 ~ 400	3x16.8			104	98	92	81	63



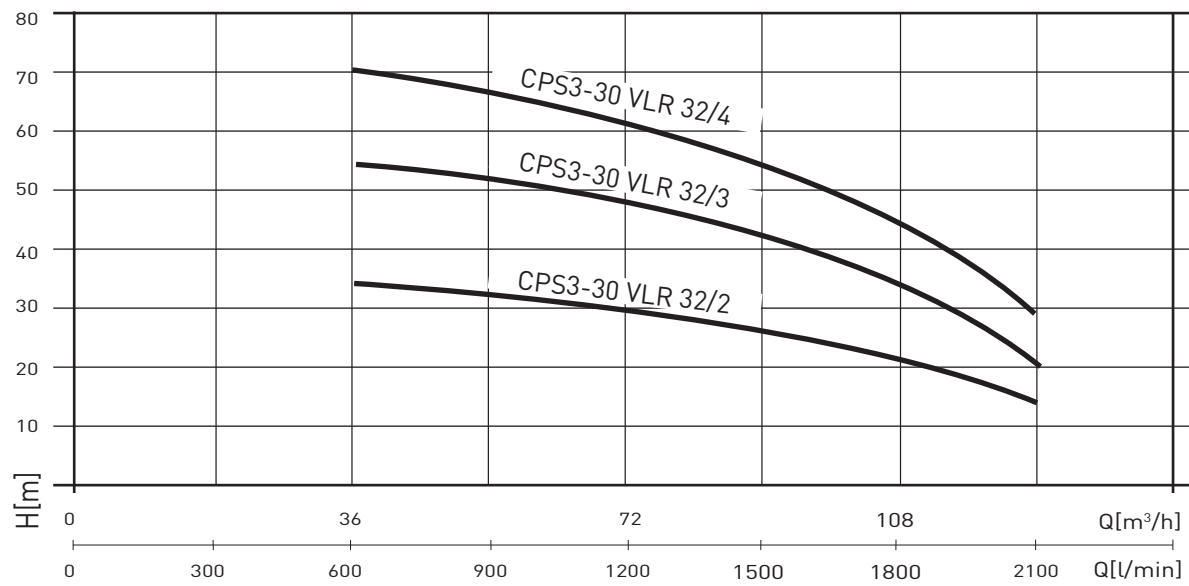
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	H	I	
CPS3/30 VLR 16-40	860	125	1040	815	370	240
CPS3/30 VLR 16-60	860	125	1040	1000	370	315
CPS3/30 VLR 16-80	860	125	1040	1130	370	340

NOCCHI CPS3-30

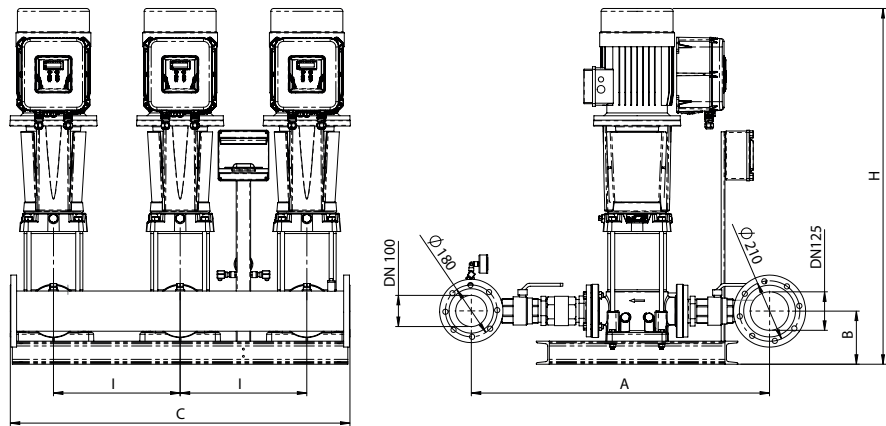
THREE PHASE VARIABLE SPEED PRESSURE BOOSTER SETS WITH THREE ELECTRIC PUMPS

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	600	1000	1500	1800	2100
	HP	kW				m³/h	36	60	90	108	126
CPS3/30 VLR 32-2	3x5.5	3x4.0	3 ~ 400	3x8.5	m.c.a./m.w.c.		35	33	27	22	14
CPS3/30 VLR 32-3	3x7.5	3x5.5	3 ~ 400	3x13.5			53	50	41	33	20
CPS3/30 VLR 32-4	3x10	3x7.5	3 ~ 400	3x17.8			71	68	55	44	27



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Weight kg
	A	B	C	H	I	
CPS3/30 VLR 32-2	1040	185	1180	1055	440	450
CPS3/30 VLR 32-3	1040	185	1180	1240	440	480
CPS3/30 VLR 32-4	1040	185	1180	1350	440	540

NOCCHI EXPANSION TANKS

STAINLESS STEEL

NOCCHI expansion tanks are constructed in AISI 304 stainless steel, with a range of 7 models to meet all the demands of civil and industrial systems and guarantee suitability of the product in food applications. Ideal for particularly humid environments. CE certified.

HORIZONTAL

Interchangeable membrane in Bromobutyl rubber, 24-liter capacity, with bracket for assembly of electric pump and support stand. Pre-charged to 1.5 bar.

VERTICAL

Interchangeable membrane in Bromobutyl rubber, 8-20-24-liter capacity. The latter version is also available without membrane with air supply unit. Pre-charged to 1.5 bar.



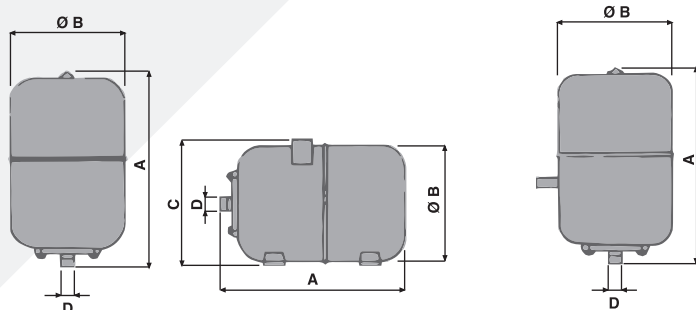
TECHNICAL SPECIFICATIONS

MODEL	Description	Type of diaphragm	Bracket feet	Maximum operating pressure (bar)	Capacity L
VES INOX N 8	8-liter stainless steel vertical expansion tank	Bromobutyl rubber	-	8	8
VES INOX N 20	20-liter stainless steel vertical expansion tank	Bromobutyl rubber	-	8	20
VES INOX N 24	24-liter stainless steel vertical expansion tank	Bromobutyl rubber	-	8	24
VES INOX N 24 H	24-liter stainless steel horizontal expansion tank	Bromobutyl rubber	yes	8	24
VAA 24	24-liter stainless steel tank with provision for air supply	-	-	8	24
-	Kit for air supply with hose	-	-	-	-



OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)				Weight (kg)
	A	Ø B	C	D	
N 8	280	226	-	1"	2.4
N 20	390	272	-	1"	3.3
N 24	430	272	-	1"	5
N 24 H	430	272	330	1"	4.2
VAA 24	430	272	443	1"	4.2



NOCCHI EXPANSION TANKS

PAINTED STEEL

TECHNICAL SPECIFICATIONS

MODEL	Description	Type of diaphragm	Bracket feet	Maximum operating pressure (bar)	Capacity L
VES 2	2-liter expansion tank	Foodgrade rubber	-	6	2
VES 24 V	24-liter vertical expansion tank	Foodgrade rubber	-	6	24
VES 24 H	24-liter horizontal expansion tank	Foodgrade rubber	yes	6	24
VEC 60 V	60-liter vertical expansion tank	Butyl rubber	yes	10	60
VEC 100 V	100-liter vertical expansion tank	Butyl rubber	yes	10	100
VEC 200 V	200-liter vertical expansion tank	Butyl rubber	yes	10	200
VEC 300 V	300-liter vertical expansion tank	Butyl rubber	yes	10	300
VEC 500 V	500-liter vertical expansion tank	Butyl rubber	yes	10	500

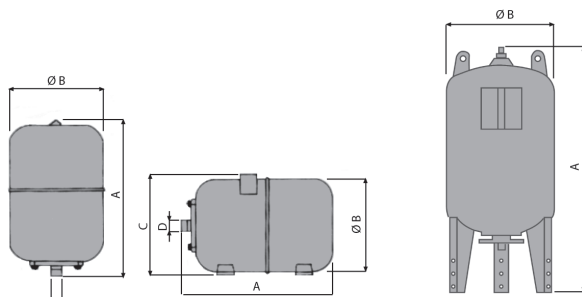
Expansion tanks for water lifting systems, in painted steel, from 2 to 500 liter capacity, with interchangeable diaphragm.

Flange in painted carbon steel.

CE certified. Pre-charge: 1.5 bar on models from 2 to 24 L - 2.0 bar on models from 60 to 500 L. CE certified.

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)				Weight (kg)
	A	Ø B	C	D	
VES 2	175	155	-	1" M	0.950
VES 24 V	415	295	-	1" M	4.1
VES 24 H	415	-	310	1" M	4.8
VEC 60 V	845	382	-	1" M	17.5
VEC 100 V	950	450	-	1" M	19
VEC 200 V	1225	550	-	1" 1/2 M	37
VEC 300 V	1405	630	-	1" 1/2 M	54
VEC 500 V	1550	780	-	1" 1/2 M	104



NOCCHI QES PLUS

SINGLE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE PUMP WITH DIRECT STARTING

MAIN COMPONENTS

- IP 55 plastic enclosure
- Main switch with disconnect device.
- Motor protector with reset button.
- Start-up capacitor
- Terminal board
- Cable clamp

OPERATION

- Manual via the main switch.
- Automatic via external remote control, pressure switch, float etc.).

OPTIONAL ACCESSORIES

- Floats or pressure switches (see relative table).

TECHNICAL SPECIFICATIONS

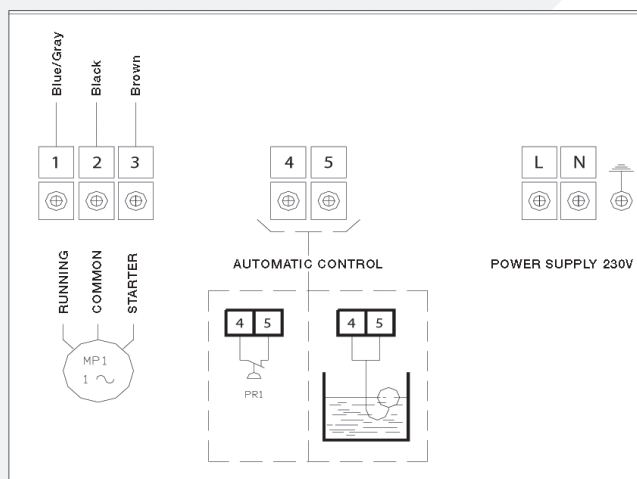
- Protection rating: IP 55
- Power supply voltage: 230V/ 1F 50 Hz.
- External dimensions: 115 - 185 - 65 mm.
- Weight: 0.6 kg

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C.
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60335-1 - EN 60439-1.



MODEL	Volt	Power		Field of application A	μF	Compatible el. pumps
		min kW	max kW			
QES PLUS 10/37 M	230 1F	0.37	0.55	4	16	SCM 4" PLUS SCM 4 HF 4" MOTORS
QES PLUS 10/55 M	230 1F	0.55	0.75	6	20	
QES PLUS 10/75 M	230 1F	0.75	1	7	30	
QES PLUS 10/75 M	230 1F	0.75	1	7	35	
QES PLUS 10/110 M	230 1F	1.1	1.5	9	40	
QES PLUS 10/150 M	230 1F	1.5	2	12	50	



NOCCHI AT

THREE PHASE ELECTRICAL PANEL FOR CONTROL OF A SUBMERSIBLE OR SURFACE PUMP WITH DIRECT STARTING

MAIN COMPONENTS

- Plastic enclosure
- Provision for control of dry running with float, pressure switch or electro-sensor.
- Line ON indicator light.

OPERATION

- Manual via MAN selector.
- Automatic via external remote control (pressure switch, float etc.) and/or level control (filling, emptying, dry running protection).

APPLICATION LIMITS

- Control via external contact.
- Ambient temperature from -5 to +40°C (limit established by standard EN 60439-1).
- Max. relative humidity 50% at +40°C provided there is no condensation (limit established by standard EN 60439-1).

TECHNICAL SPECIFICATIONS

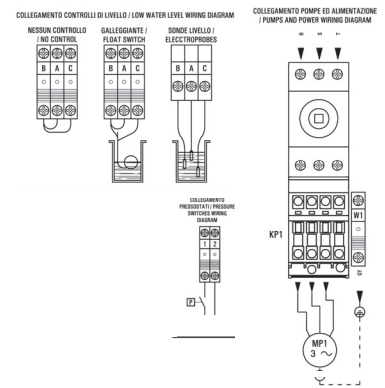
- Power supply voltage: 3 x 400 V.
- Frequency 50/60 Hz
- Outputs from 0.37 to 7.5 kW.
- Direct motor start-up
- Motor protector
- Protection rating: IP54
- External dimensions: 260x195x180 mm.
- Weight: 3.35 Kg

OPTIONAL ACCESSORIES

- LCE level control electrodes.
- Floats or pressure switches.



MODEL	Volt	Power		Field of application A		Compatible el. pumps	
		min kW	max kW	min	max	Surface	Submersible
E. PNL. AT10 1-1.6 A 400V	3X400	0.37	0.55	1	1.6	VLR-VLRI-VLRX	DOMINATOR 5" SCM 4" PLUS SCM 4 HF 4" MOTORS
E. PNL. AT10 1-2.5 A 400V	3X400	0.55	0.75	1.6	2.5	DHR-DHI-MCX	
E. PNL. AT10 2.5-4 A 400V	3X400	0.75	1.5	2.5	4	MULTINOX-MAX	
E. PNL. AT10 4-6.3 A 400V	3X400	1.5	2.2	4	6.3	MULTINOX-A	
E. PNL. AT10 6.3-10 A 400V	3X400	2.2	4	6.6	10	MULTINOX-VE	
E. P. AT1010-16 A 400V	3X400	4	7.5	10	16	JET-CM-CB-EP-NRM	



NOCCHI ADRM

SINGLE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR TWO DRAINAGE AND WASTE WATER PUMPS

MAIN COMPONENTS

- IP 54 plastic enclosure
- Main switch
- Fuse holder with fuses for electric pump.
- Fuse holder with fuses for auxiliary circuit.
- Transformer for auxiliary circuit.
- Terminal board for level control devices.
- Cable clamp
- Line ON indicator led.
- Pump running indicator led.
- Thermal cutout trip led.
- Contactor with thermal relay.

TECHNICAL SPECIFICATIONS

- Protection rating: IP54
- Power supply voltage: 220V/240V 1F 50 Hz.
- External dimensions: 220 - 270 - 185 mm.

OPERATION

- Manual via MAN/AUT selector.
- Automatic via float switch.

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C.
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60730 - EN 60439 .

ADRM 20

- Electronic signaling and control board with sequential start-up inverter.
- Electrical panel for control of two electric pumps.
- Weight: 7.5 kg

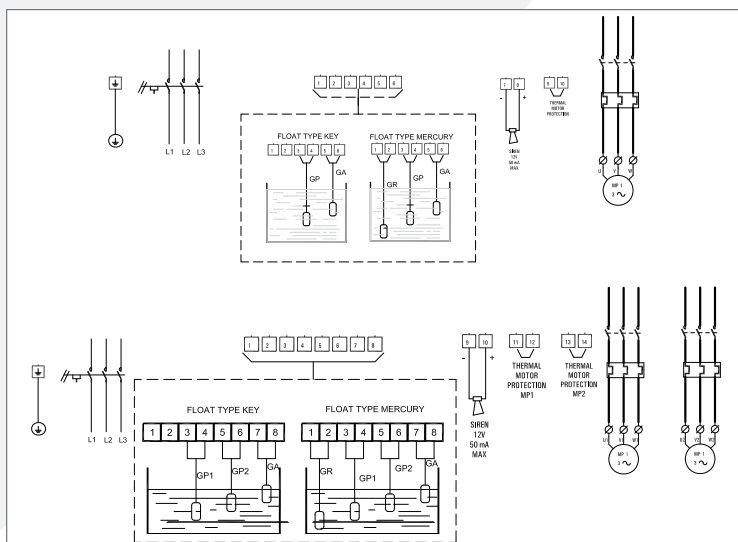
ADRM 10

- Electronic signaling and control board.
- Electrical panel for control of one electric pump.
- Weight: 5.5 kg

OPTIONAL ACCESSORIES

- UZA00200 Visual and acoustic alarm.
- CE040030 fins for wall mounting.
- Floats (see relative table).

MODEL	Volt	Power		Field of application A		Compatible el. pumps
		kW	Hp	min	max	
E.P. ADRM10/55	230 1F	0.55	0.75	2.5	4	DRENOX OMNIA PRIOX MINIVORT P MINIVORT PP
E.P. ADRM10/75	230 1F	0.75	1	4	6.3	
E.P. ADRM10/110	230 1F	1.1	1.5	6.3	10	
E.P. ADRM10/150	230 1F	1.5	2	10	16	
E.P. ADRM20/55	230 1F	2x0.55	2x0.75	2.5	4	
E.P. ADRM20/75	230 1F	2x0.75	2x1	4	6.3	
E.P. ADRM20/110	230 1F	2x1.1	2x1.5	6.3	10	
E.P. ADRM20/150	230 1F	2x1.5	2x2	10	16	



NOCCHI ADRD

THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS

MAIN COMPONENTS

- IP 54 plastic enclosure
- Main switch
- Fuse holder with fuses for electric pump.
- Fuse holder with fuses for auxiliary circuit.
- Contactor with thermal relay.
- Transformer for auxiliary circuit.
- Terminal board for level control devices.
- Cable clamp
- Line ON indicator led.
- Pump running indicator led.
- Thermal cutout trip led.

OPERATION

- Manual via MAN/AUT selector.
- Automatic via float switch.

OPTIONAL ACCESSORIES

- UZA00200 Visual and acoustic alarm.
- CE040030 fins for wall mounting.
- Floats (see relative table).

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C.
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60730 - EN 60439 .

ADRD 10

- Electronic signaling and control board.
- Electrical panel for control of one electric pump.

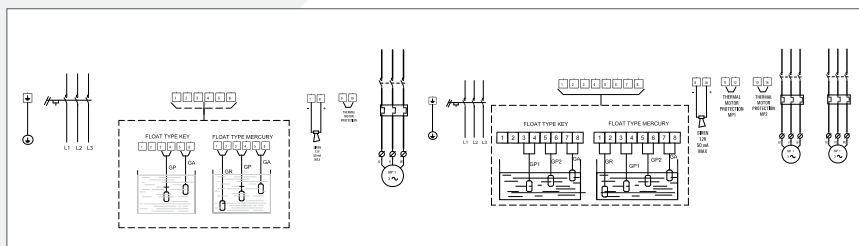
ADRD 20

- Electronic signaling and control board with sequential start-up inverter.
- Electrical panel for control of two electric pumps.

TECHNICAL SPECIFICATIONS

- Protection rating: IP54
- -Power supply voltage: 400V 3F 50 Hz.
- External dimensions 220 - 270 - 185 mm.
- Weight: 5.5 kg

MODEL	Volt	Power		Field of application A		Compatible el. pumps
		kW	Hp	min	max	
E.P. ADRD10/55	400 3F	0.55	0.75	1	1.6	DRENOX PRIOX MINIVORT P MINIVORT PP
E.P. ADRD10/110	400 3F	1.1	1.5	1.6	2.5	
E.P. ADRD10/150	400 3F	1.5	2	2.5	4	
E.P. ADRD10/300	400 3F	3	4	4	6.3	
E.P. ADRD10/500	400 3F	5	6.7	6.3	10	
E.P. ADRD10/750	400 3F	7.5	10	10	16	
E.P. ADRD10/900	400 3F	9	12	13	19	
E.P. ADRD20/55	400 3F	2x0.55	2x0.75	1	1.6	
E.P. ADRD20/110	400 3F	2x1.1	2x1.5	1.6	2.5	
E.P. ADRD20/150	400 3F	2x1.5	2x2	2.5	4	
E.P. ADRD20/300	400 3F	2x3	2x4	4	6.3	
E.P. ADRD20/500	400 3F	2x5	2x6.7	6.3	10	
E.P. ADRD20/750	400 3F	2x7.5	2x10	10	16	



NOCCHI ADRY

THREE PHASE ELECTRICAL PANELS FOR CONTROL OF ONE OR MORE DRAINAGE AND WASTE WATER PUMPS WITH STAR/DELTA STARTING

MAIN COMPONENTS

- IP 54 plastic enclosure
- Main switch
- Fuse holder with fuses for electric pump.
- Fuse holder with fuses for auxiliary circuit.
- Contactor with thermal relay.
- Transformer for auxiliary circuit.
- Terminal board for level control devices.
- Cable clamp
- Electronic signaling and control board (Volt/Amp).
- Thermal cutout trip led.
- Pump running indicator led.
- Line ON indicator led.

TECHNICAL SPECIFICATIONS

- Protection rating: IP54
- Power supply voltage: 400V 3F 50 Hz.
- External dimensions 500 - 750 - 250 mm.

OPERATION

- Manual via MAN/AUT selector.
- Automatic via float switch.

APPLICATION LIMITS

- Ambient temperature: -5 / +40 °C.
- Relative humidity: 50% at 40°C condensate free.
- Reference standards: EN 60730 - EN 60439.

ADRY 20

- Electronic signaling and control board with sequential start-up inverter.
- Electrical panel for control of two electric pumps.
- Weight: 15 - 85 kg.

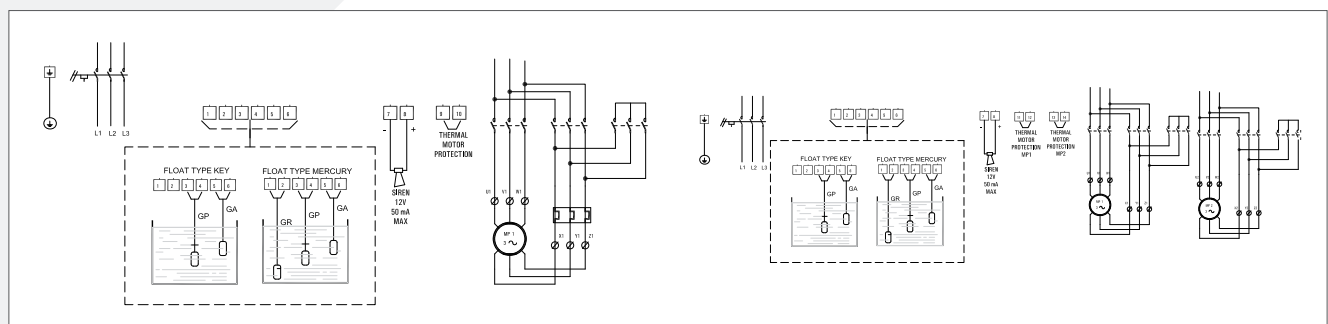
ADRY 10

- Electronic control board.
- Electrical panel for control of one electric pump.
- Weight: 12 - 60 kg.

OPTIONAL ACCESSORIES

- UZA00200 Visual and acoustic alarm.
- CE040030 fins for wall mounting.
- Floats (see relative table).

MODEL	Volt	Power		Field of application A		Compatible el. pumps
		kW	Hp	min	max	
E.P. ADRY10/900	400 3F	9	12	12.9	19	Sewage pumps
E.P. ADRY10/1100	400 3F	11	15	17.2	24.1	
E.P. ADRY10/1500	400 3F	15	20	22.4	32.8	
E.P. ADRY10/2200	400 3F	22	30	29.3	44.8	
E.P. ADRY10/2500	400 3F	25	33.5	37.9	55.2	
E.P. ADRY20/900	400 3F	2x9	2x12	12.9	19	
E.P. ADRY20/1100	400 3F	2x11	2x15	17.2	24.1	
E.P. ADRY20/1500	400 3F	2x15	2x20	22.4	32.8	
E.P. ADRY20/2200	400 3F	2x22	2x30	29.3	44.8	
E.P. ADRY20/2500	400 3F	2x25	2x33.5	37.9	55.2	



NOCCHI ELECTRICAL PANEL ACCESSORIES

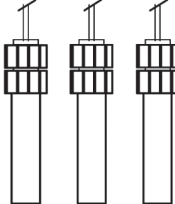
COUNTERWEIGHT LEVEL CONTROL

Key type level controller for filling or draining applications, with 3-meter or 10 meter cable, suitable for use with clean water or with low contents of suspended material.

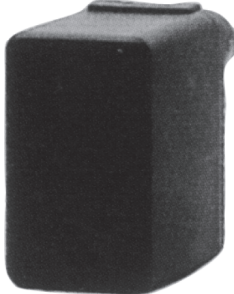
	MODEL	ELECTRICAL PANEL
	MICROSTART 3-3 Draining/Filling	QES PLUS - AT
	MICROSTART 10-2 Filling	All panels that use an external control
	MICROSTART 5-2 Filling	All panels that use an external control
	MICROSTART 10-2 (PVC) Filling	All panels that use an external control
	MICROSTART 10-3 Draining/Filling	QES PLUS - AT

LEVEL ELECTRODES

Level electrodes particularly suited to conductive liquids at a maximum temperature of 40°C. For connections between the electrode and panel, an insulated cable with a maximum section of 4mm² can be used (max. length 100m).

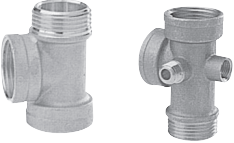
	MODEL	ELECTRICAL PANEL
	LCE electrodes for liquid level control	AT

PRESSURE SWITCHES

	MODEL	ELECTRICAL PANEL
	PN 5 ITL (6 Atm. Max)	QES PLUS -AT
	PN 12 ITL (12 Atm. Max)	QES PLUS -AT
	PN 6 TEL (6 Atm. Max)	QES PLUS -AT
	PN 12 TEL (12 Atm. Max)	QES PLUS -AT

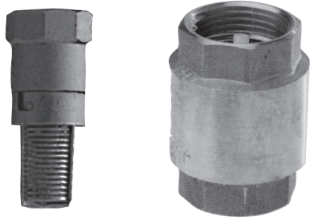
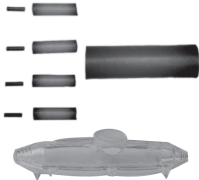
NOCCHI ACCESSORIES AND FILTERS

ACCESSORIES

	MODEL	ELECTRICAL PANEL
	PM 5 ITAL PM 12 ITAL PTI LP3 ITAL PT 6 TEL PT 12 TEL	PRESSURE SWITCH - 6 ATM MAX - ITALTECNICA PRESSURE SWITCH - 12 ATM MAX - ITALTECNICA PRESSURE SWITCH - INVERSO LP3 - 1/4" F ITALTECNICA PRESSURE SWITCH - 6 ATM MAX - ITALTECNICA PRESSURE SWITCH - 12 ATM MAX - ITALTECNICA
	MAR 6 MAP 6 MAR 10 MAP 10	PRESSURE GAUGE, RADIAL FITTING 6 ATM PRESSURE GAUGE, REAR RADIAL FITTING 6 ATM PRESSURE GAUGE, RADIAL FITTING 10 ATM PRESSURE GAUGE, REAR RADIAL FITTING 10 ATM
	TF 500 TF 600 TF 700 TF 800 GA 12 1/4	FLEXIBLE HOSE, 1" x mm 500 M-F FLEXIBLE HOSE, 1" x mm 600 M-F FLEXIBLE HOSE, 1" x mm 700 M-F FLEXIBLE HOSE, 1" x mm 800 M-F FLEXIBLE HOSE, 1" 1/4 x mm 400 M-F
	R 3 V R5V	3-WAY BRASS FITTING 1" 5-WAY BRASS FITTING 1"
	MBB MG S 2 MGS 24 MB 60 MB 100 MB 200 MB 300 MB 500	BROMOBUTYL RUBBER MEMBRANE FOR STAINLESS STEEL TANKS FOODGRADE RUBBER MEMBRANE FOR 2-LITER TANKS FOODGRADE RUBBER MEMBRANE FOR 24-LITER TANKS BUTYL MEMBRANE FOR 60-LITER TANKS BUTYL MEMBRANE FOR 100-LITER TANKS BUTYL MEMBRANE FOR 200-LITER TANKS BUTYL MEMBRANE FOR 300-LITER TANKS BUTYL MEMBRANE FOR 500-LITER TANKS
	KA4 KA7 NIPPLEX 1" M-M	SUCTION KIT, 4 m SUCTION KIT, 7 m MALE FITTING, 1" , FOR SUCTION KIT
	B1	KIT OF CAST STAINLESS STEEL BASE WITH SCREWS FOR MCX 80-120 AND JETINOX 45-60-70 MAX 80-120

NOCCHI ACCESSORIES AND FILTERS

ACCESSORIES

	MODEL	ELECTRICAL PANEL
	VF 1" VFF 1" VFF 1" 1/4 VF F1" 1/2 VF 2" VAR 1" VAR 1" 1/4 VAR 1" 1/2 VAR 2" RVFF 2	PLASTIC FOOT VALVE, 1" BRASS FOOT VALVE, 1", WITH STAINLESS STEEL FILTER BRASS FOOT VALVE, 1" 1/4, WITH STAINLESS STEEL FILTER BRASS FOOT VALVE, 1" 1/2, WITH STAINLESS STEEL FILTER BRASS FOOT VALVE, 2", WITH STAINLESS STEEL FILTER BRASS CHECK VALVE, 1" BRASS CHECK VALVE, 1" 1/4 BRASS CHECK VALVE, 1" 1/2 BRASS CHECK VALVE, 2" BALL VALVE WITH FULL THROUGH-FLOW 2" F
	VRP 1" 1/4 VRP 1" 1/2 VRP 2"	STAINLESS STEEL BALL CHECK VALVE 1" 1/4 F STAINLESS STEEL BALL CHECK VALVE 1" 1/2 F STAINLESS STEEL BALL CHECK VALVE 2" F
	MICROSTART 3-3 MICROSTART 10-3 MICROSTART 5-2 MICROSTART 10-2 MICROSTART S10-2 MICROSTART CP 15-3 CP	FLOAT 3 M. 3 WIRE, FOR FILLING/DRAINING FLOAT 10 M. 3 WIRE, FOR FILLING/DRAINING FLOAT 5 M. 2 WIRE, FOR DRAINING H05 - RNF FLOAT PVC 10 M. 2 WIRE, FOR FILLING FLOAT 10 M. 2 WIRE, WITH PVC PLUG AND SOCKET FLOAT CABLE H07-RNF FLOAT COUNTERWEIGHT
	CABLE 4X1 CABLE 4X1.5 CABLE 4X2.5 CABLE 4X4 CABLE 4X6 CABLE 4X10	NEOPRENE CABLE H07 RNF 4-WIRE, 1 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 1.5 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 2.5 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 4 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 6 MM2. NEOPRENE CABLE H07 RNF 4-WIRE, 10 MM2.
	2.5 SPLICING KIT 6 SPLICING KIT 10 SPLICING KIT 2.5 SPLICE 6 SPLICE 10 SPLICE	KIT FOR HEATSHRINK SPLICING ON CABLES UP TO 4 X 2.5 KIT FOR HEATSHRINK SPLICING ON CABLES UP TO 4 X 6 KIT FOR CAST RESIN SPLICING ON CABLES UP TO 4X10 HEATSHRINK SPLICE 1 - 2.5 mm2 HEATSHRINK SPLICE 4 - 6 mm2 CAST RESIN SPLICE UP TO 4 X 10 mm2
	RCF 30 RCF 40 CRF 50	CURVED HOSE CONNECTOR 1" 1/4 FEMALE ø 30 mm CURVED HOSE CONNECTOR 1" 1/2 FEMALE ø 40 mm CURVED HOSE CONNECTOR 2" FEMALE ø 50 mm
	-	FLANGE KIT GH DHR 9

NOCCHI ACCESSORIES AND FILTERS

CARTRIDGE CONTAINER

	DESCRIPTION	Min. Quantity
	CF 5" 1" CONNECTION	1
	CF 10" 1" CONNECTION	1
	CF 10" 1" 1/4 CONNECTION	1

FILTER CARTRIDGES

	DESCRIPTION	Nom. filtration μm	Min. Quantity
	CARTRIDGE 5" FA (POLYWOUND)	20	20
	CARTRIDGE 7" FA (POLYWOUND) FOR FILTER CONN. 1"	20	20
	CARTRIDGE 7" FA (NYLON MESH) FOR FILTER CONN. 1"	60	20
	CARTRIDGE 10" FA (POLYWOUND) FOR FILTER CONN. 1"	20	20
	CARTRIDGE 10" FA (POLYWOUND) FOR FILTER CONN. 1" 1/4	20	20
	CARTRIDGE 10" FA (NYLON MESH) FOR FILTER CONN. 1"	60	20
	CARTRIDGE 10" FA (NYLON MESH) FOR FILTER CONN. 1" 1/4	60	20
	CARTRIDGE 10" CA (NYLON MESH) + ACTIVATED CARBON DIAM. 1	60	20
	CARTRIDGE 10" PL (CRYSTAL POLYPHOSPHATE) DIAM. 1	-	1

NOCCHI PRESSURE UNITS

GUIDE TO THE SELECTION OF PRESSURE UNITS

There are two essential factors to consider when selecting a pressure unit: the required flow rate at the peak time of use, and the total manometric head.

The required flow rate can be read on the statistical average diagram shown below (Fig. 1).

The total manometric head (corresponding to the minimum operating pressure of the unit) is calculated in three ways: supply from a deposit located on the same level as the unit (A) supply from an aqueduct or deposit located on a level above the unit

(B) supply from a well or deposit located on a level below the unit (C).

Case (A) The height of the highest collection point is added to the pressure required at that point, plus any relevant pressure drops. (See example in Fig. 2)

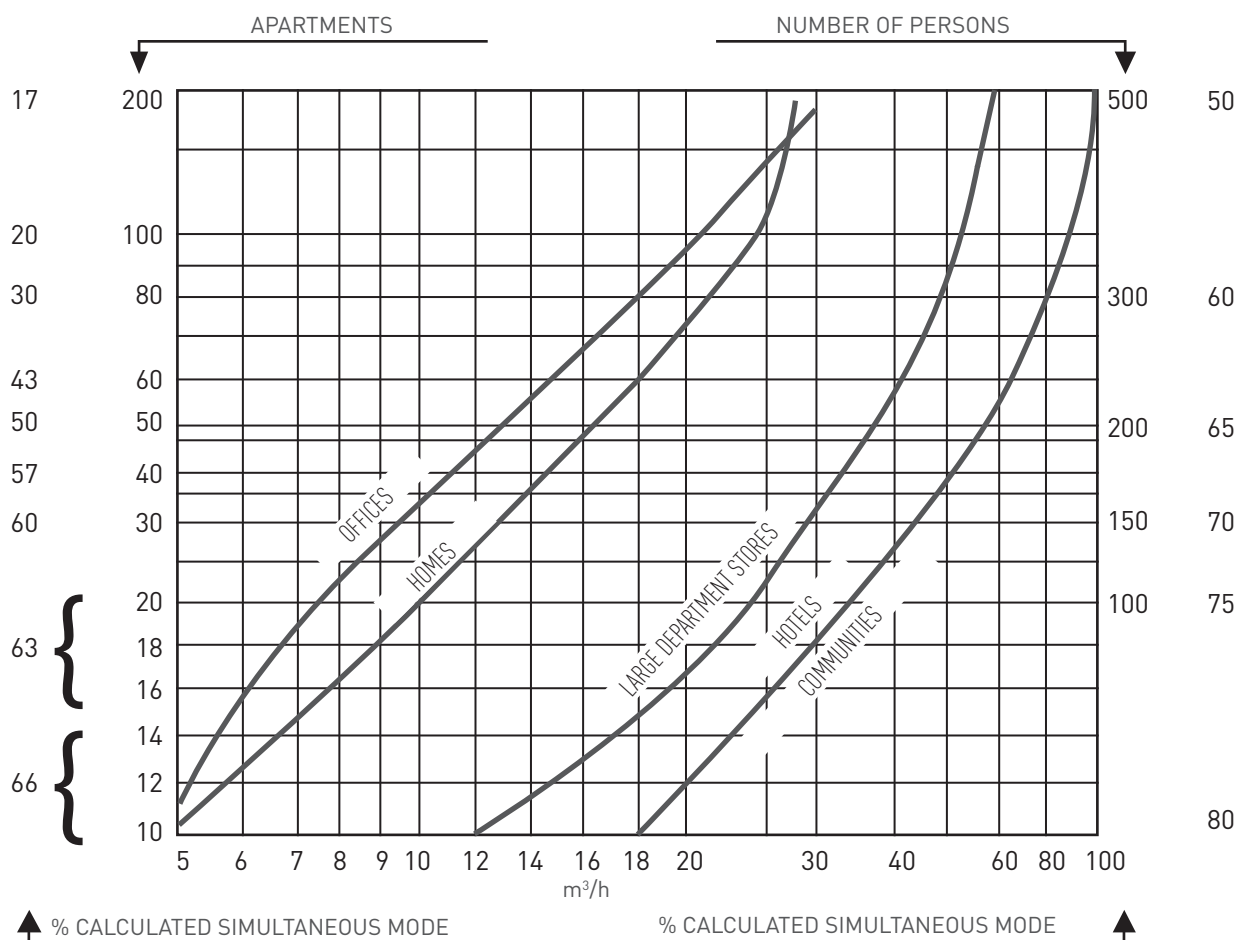
Case (B) Starting as per case A, after which the specific pressure of the aqueduct or that generated by the drop from the deposit is subtracted from the obtained value. (See example in Fig. 3)

Case (C) Starting as per case A, after which the value obtained is added to the value in meters between the water level and the unit. (See Fig. 4) The data obtained, with reference to the tables of

specifications of the various autoclave units provided in the catalog will enable selection of the most suitable unit. It is necessary to take into account that these tables envisage a minimum pressure at the topmost valve of 1.5 ATM.

These tables contain guideline values only as the specific conditions of use in each application cannot be envisaged.

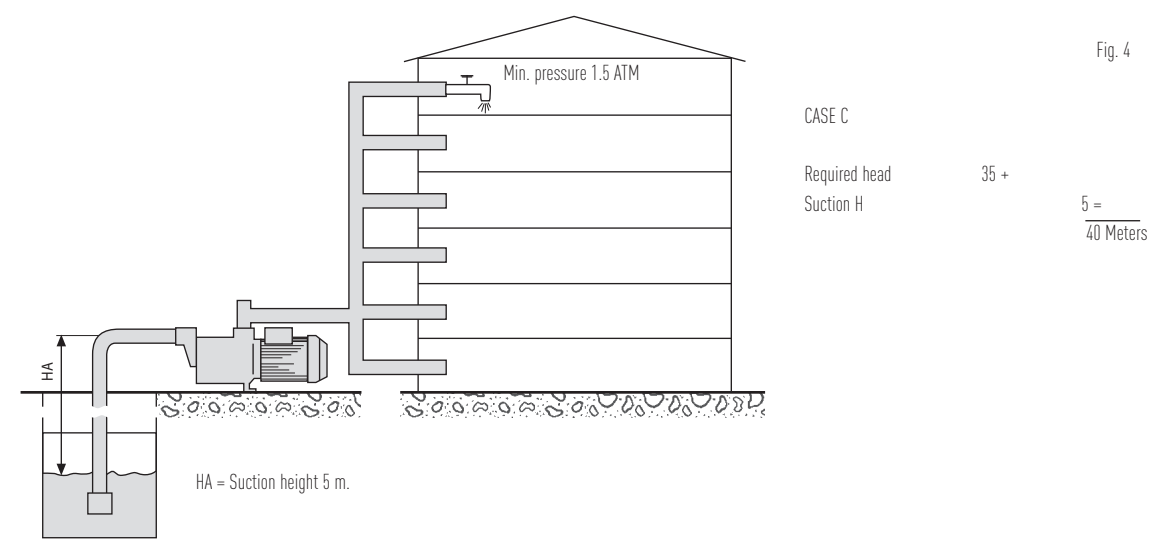
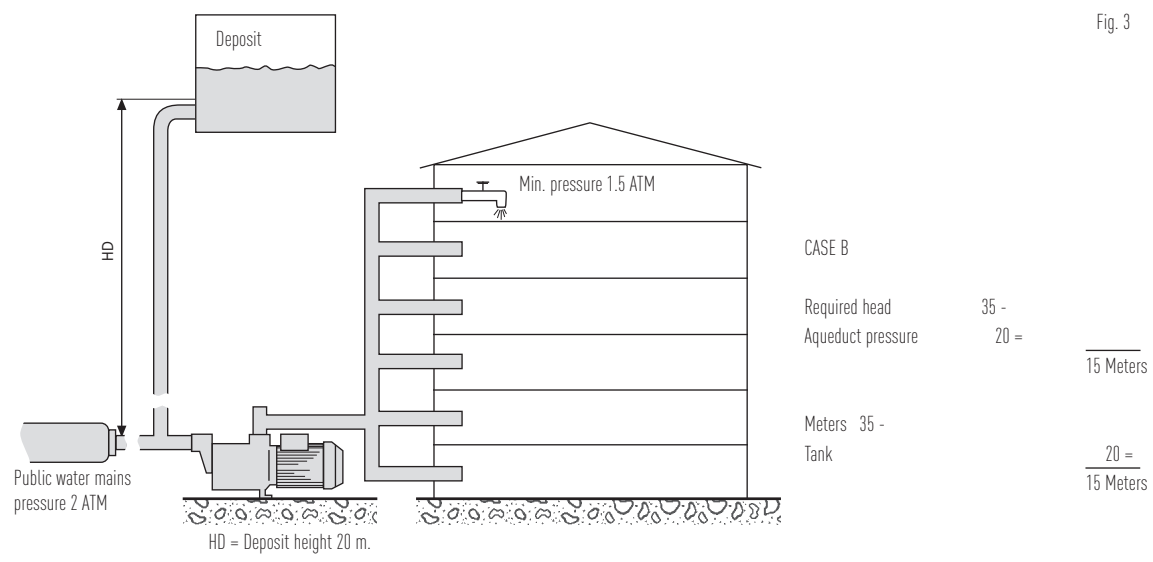
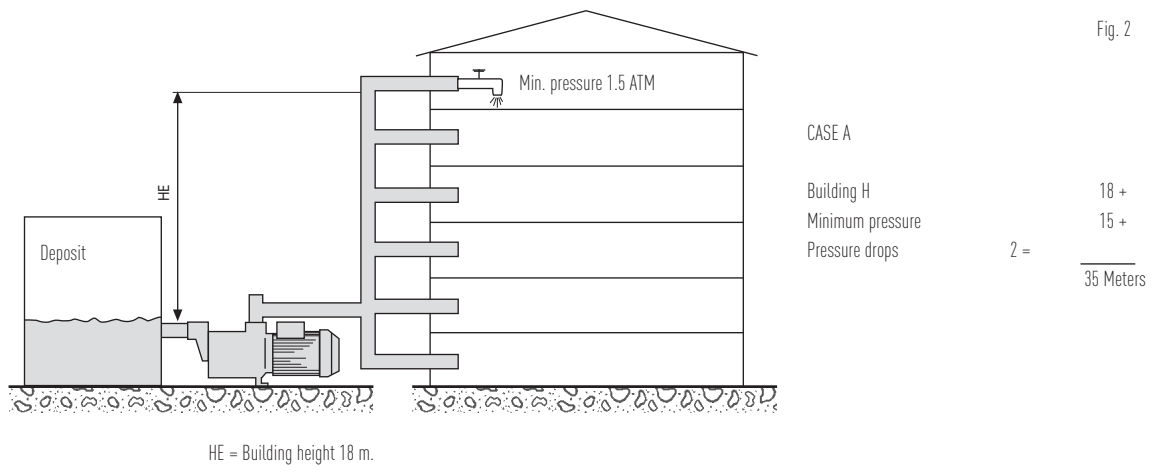
Fig. 1



BENDS FOR WC WITH ENCLOSURES
(FOR WC WITH RAPID ROUTERS + 30%)

NOCCHI PRESSURE UNITS

GUIDE TO THE SELECTION OF PRESSURE UNITS



NOCCHI PRESSURE UNITS

GUIDE TO THE SELECTION OF PRESSURE BOOSTERS

FLOW RATE			GALVANISED PIPELINES - NEW											
			NOMINAL DIAMETERS IN INCHES AND MILLIMETRES											
m³/h	L/min.	L/sec.	1/2" 15.75	3/4" 21.25	1" 27.00	1 1/4" 35.75	1 1/2" 41.25	2" 52.50	2 1/2" 68.00	3" 80.25	3 1/2" 92.50	4" 105.00	5" 130.00	6" 155.50
0.6	10	0.16	0.855 9.910	0.470 2.407	0.292 0.784									
0.9	15	0.25	1.282 20.11	0.705 4.862	0.438 1.570	0.249 0.416								
1.2	20	0.33	1.710 33.53	0.940 8.035	0.584 2.588	0.331 0.677	0.249 0.346				Large figures: Pressure drops per 100 m of pipeline Small figures: Speed of water in m / second			
1.5	25	0.42	2.138 49.93	1.174 11.91	0.730 3.834	0.415 1.004	0.312 0.510							
1.8	30	0.50	2.565 69.34	1.409 16.50	0.876 5.277	0.498 1.379	0.374 0.700	0.231 0.223						
2.1	35	0.58	2.993 91.54	1.644 21.75	1.022 6.949	0.581 1.811	0.436 0.914	0.269 0.291						
2.4	40	0.67		1.879 27.66	1.168 8.820	0.664 2.290	0.499 1.1160	0.308 0.368						
3.0	50	0.83		2.349 41.40	1.460 13.14	0.830 3.403	0.623 1.719	0.385 0.544	0.229 0.159					
3.6	60	1.00		2.819 57.74	1.751 18.28	0.996 4.718	0.748 2.375	0.462 0.751	0.275 0.218					
4.2	70	1.12		3.288 76.49	2.043 24.18	1.162 6.231	0.873 3.132	0.539 0.988	0.321 0.287	0.231 0.131				
4.8	80	1.33			2.335 30.87	1.328 7.940	0.997 3.988	0.616 1.254	0.376 0.363	0.263 0.164				
5.4	90	1.50			2.627 38.30	1.494 9.828	1.122 4.927	0.693 1.551	0.413 0.449	0.296 0.203				
6.0	100	1.67			2.919 46.49	1.660 11.90	1.247 5.972	0.770 1.875	0.459 0.542	0.329 0.244	0.248 0.124			
7.5	125	2.08			3.649 70.41	2.075 17.93	1.558 8.967	0.962 2.802	0.574 0.809	0.412 0.365	0.310 0.185	0.241 0.101		
9.0	150	2.50				2.490 25.11	1.870 12.53	1.154 3.903	0.688 1.124	0.494 0.506	0.372 0.256	0.289 0.140		
10.5	175	2.92				2.904 33.32	2.182 16.66	1.347 5.179	0.803 1.488	0.576 0.670	0.434 0.338	0.337 0.184		
12	200	3.33				3.319 42.75	2.493 21.36	1.539 6.624	0.918 1.901	0.659 0.855	0.496 0.431	0.385 0.234	0.251 0.084	
15	250	4.17				4.149 64.86	3.117 32.32	1.924 10.03	1.147 2.860	0.823 1.282	0.620 0.646	0.481 0.350	0.314 0.126	
18	300	5.00					3.740 45.52	2.309 14.04	1.377 4.009	0.988 1.792	0.744 0.903	0.577 0.488	0.377 0.175	0.263 0.074
24	400	6.67					4.987 78.17	3.078 24.04	1.836 6.828	1.317 3.053	0.992 1.530	0.770 0.829	0.502 0.294	0.351 0.124
30	500	8.33						3.848 36.71	2.295 10.40	1.647 4.622	1.240 2.315	0.962 1.254	0.628 0.445	0.439 0.187
36	600	10.0						4.618 51.84	2.753 14.62	1.976 6.505	1.488 3.261	1.155 1.757	0.753 0.623	0.526 0.260
42	700	11.7							3.212 19.52	2.306 8.693	1.736 4.356	1.347 2.345	0.879 0.831	0.614 0.347
48	800	13.3							3.671 25.20	2.635 11.18	1.984 5.582	1.540 3.009	1.005 1.066	0.702 0.445
54	900	15.0							4.130 31.51	2.964 13.97	2.232 6.983	1.732 3.762	1.130 1.328	0.790 0.555

NOCCHI PRESSURE UNITS

GUIDE TO THE SELECTION OF PRESSURE BOOSTERS

FLOW RATE			GALVANISED PIPELINES - NEW											
			NOMINAL DIAMETERS IN INCHES AND MILLIMETRES											
m³/h	L/min.	L/sec.	1/2" 15.75	3/4" 21.25	1" 27.00	1 1/4" 35.75	1 1/2" 41.25	2" 52.50	2 1/2" 68.00	3" 80.25	3 1/2" 92.50	4" 105.00	5" 130.00	6" 155.50
60	1000	16.7							4.589 38.43	3.294 17.06	2.480 8.521	1.925 4.595	1.256 1.616	0.877 0.674
75	1250	20.8								4.117 26.10	3.100 13.00	2.406 7.010	1.570 2.458	1.097 1.027
90	1500	25.0								4.941 36.97	3.720 18.42	2.887 9.892	2.197 3.458	1.316 1.444
105	1750	29.2									4.340 24.76	3.368 13.30	2.511 4.665	1.535 1.934
120	2000	33.3									4.960 31.94	3.850 17.16	3.139 5.995	1.754 2.496
150	2500	41.7										4.812 26.26	3.767 9.216	2.193 3.807
180	3000	50.0											5.023 13.05	2.632 5.417
240	4000	66.7											22.72	3.509 8.926
300	5000	83.3												4.386 14.42

N.B. - When assessing pressure drops in pipelines constructed in other materials, the value obtained for the galvanized pipe should be multiplied by the following fixed coefficients:

0.6 for PVC pipes

0.7 for aluminum pipes

0.8 for sheet steel pipes

1.3 for cement fiber pipes



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