

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:

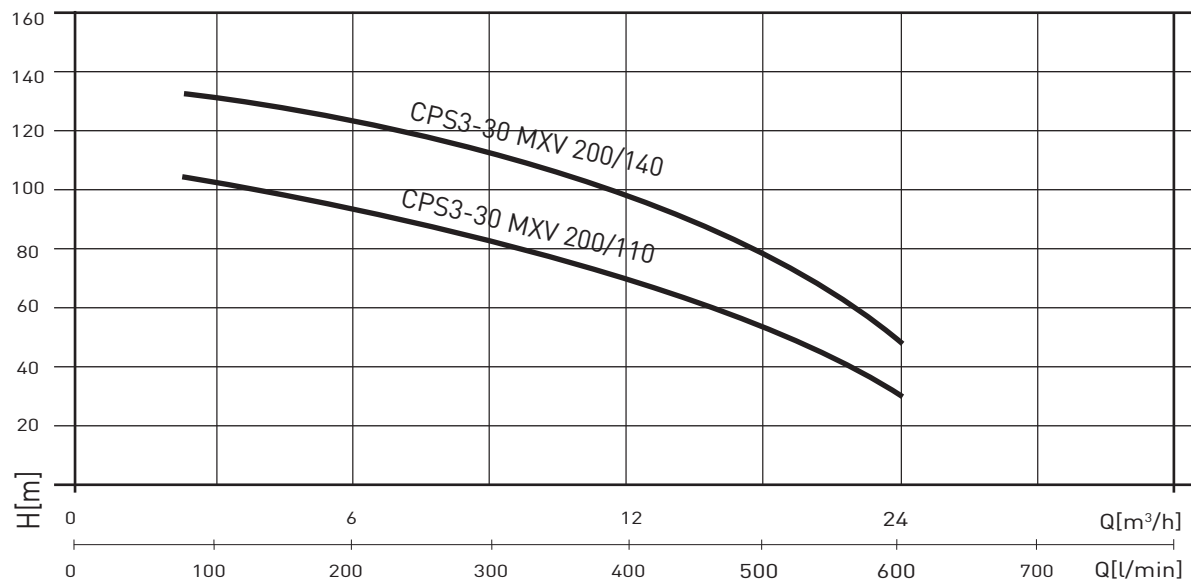
DELIVERY MANIFOLD

- In AISI 304 stainless steel with:
- 2 ball valves
- 2 check valves
- 1 pressure gauge
- 2 pressure sensors.

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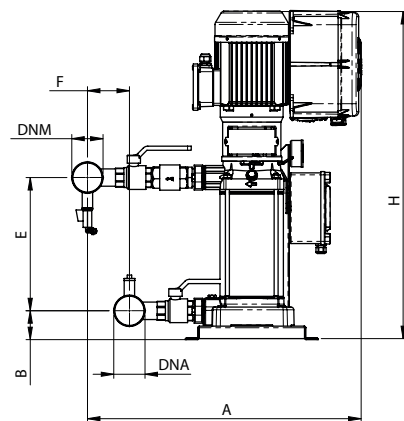
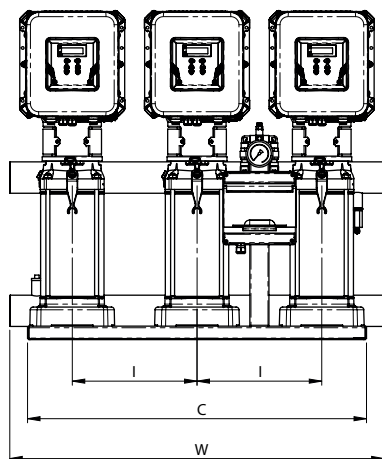
THREE PHASE VARIABLE SPEED PRESSURE BOOSTER SETS WITH THREE ELECTRIC PUMPS

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



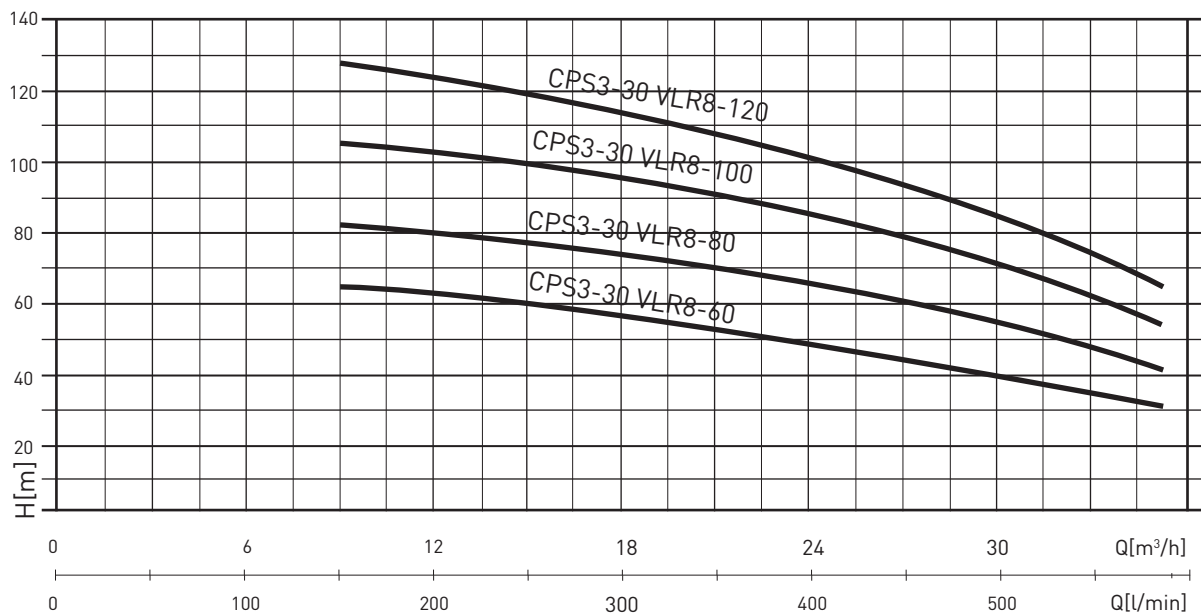
OVERALL DIMENSIONS AND WEIGHTS

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

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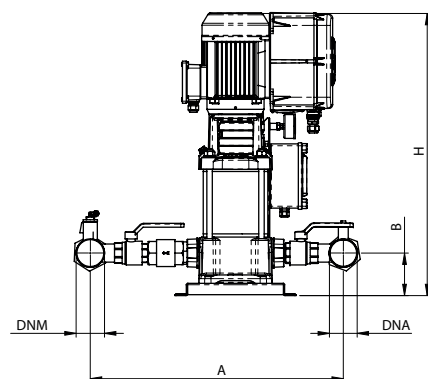
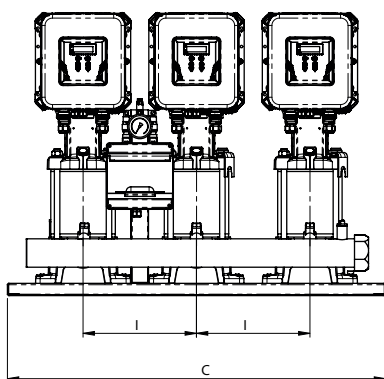
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HYDRAULIC PERFORMANCE



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	



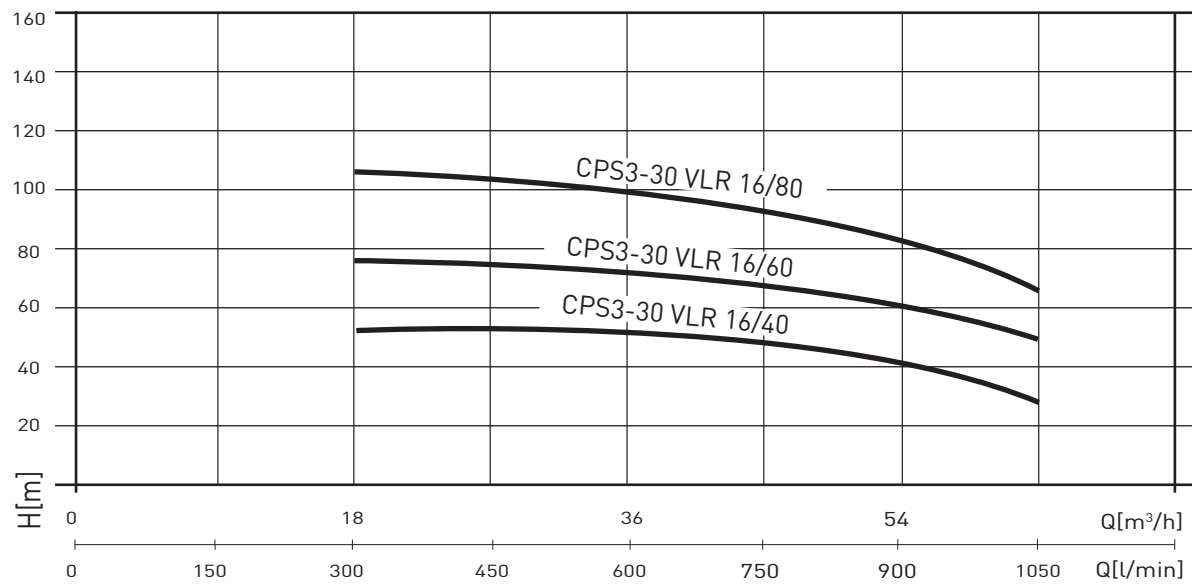
OVERALL DIMENSIONS AND WEIGHTS

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

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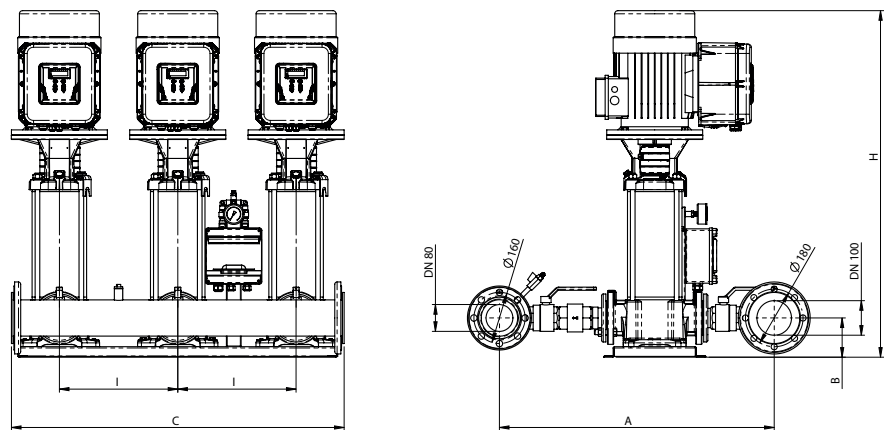
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HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

MODEL	P2		Volt	In (A)	Q	L/min	300	600	750	900	1050
	HP	kW				m³/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		3x12.5			78	74	69	61	47
CPS3/30 VLR 16-80	3x10	3x7.5		3x16.8			104	98	92	81	63



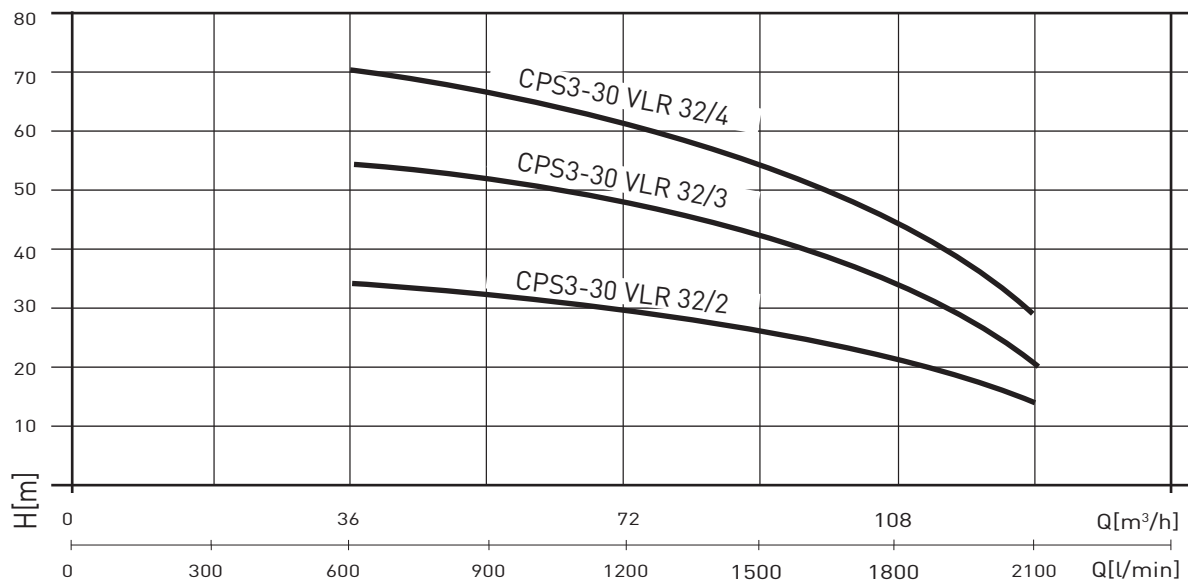
OVERALL DIMENSIONS AND WEIGHTS

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

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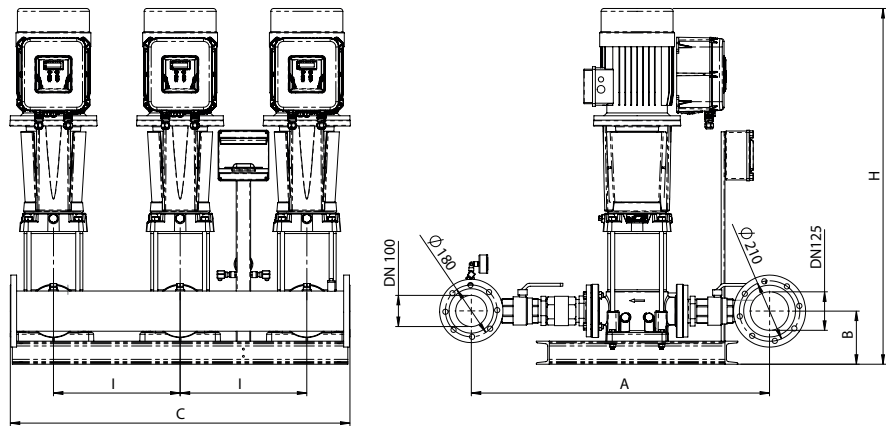
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HYDRAULIC PERFORMANCE



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