

NOCCHI

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THE NEW RANGE

NOCCHI
PRIOX





NOCCHI PRIOX

SUBMERSIBLE VORTEX PUMPS FOR WASTE WATER



The PRIOX pumps series are submersible drainage pumps designed for stationary and portable installation. These single-stage pumps are completely constructed in 100% AISI 304 stainless steel. PRIOX pumps are designed with vortex impeller with a free passage of 40mm and 50mm. They operate entirely immersed in the pumped liquid which serves to cool the motor from the exterior. They are available in either single phase or three phase versions and for 50 Hz power.

APPLICATIONS

- All applications for lifting and draining waste water with suspended solids and fibers, with free passage of 40mm and 50 mm, EN 12050-2 compliant
- Pump stations with one or more pumps for agricultural and civil complexes
- Drainage of flooded cellars
- Groundwater lowering
- Effluents from showers, washing machines and sinks below sewer level
- Emptying of drain wells

FEATURES

- 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
- Maximum liquid temperature: 40°C
- Maximum immersion below water level: 7 m
- Permanent operation (S1) only submerged
- Minimum drainage level 60 mm (on manual version)
- Mechanical seal: Silicon Carbide/ Silicon Carbide



THE VORTEX IMPELLER



- Cast impeller in one single piece in stainless steel
Europe: EN 10088-1 X5CrNi18-10 (1.4301)
USA: AISI 304
- Special shape of the vanes to get the best efficiency and low absorbed power
- Vortex no clogging impeller
- Special hub design to protect the mechanical seal

TECHNICAL DATA

40 mm FREE PASSAGE RANGE

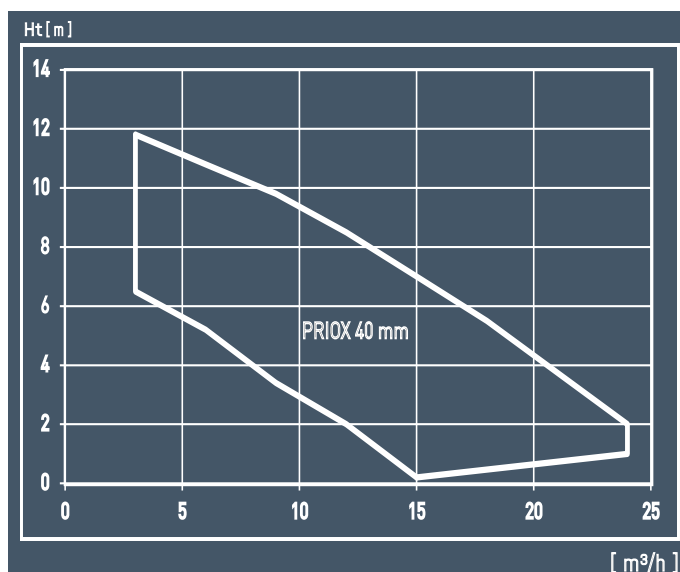
- $H_{\max} = 11,8 \text{ m}$
- $Q_{\max} = 24 \text{ m}^3/\text{h}$
- $P_2_{\max} = 1,1 \text{ kW}$
- The automatic version is equipped with float switch
- 11 models
- Voltage (V): 1x230 / 3x400

50 mm FREE PASSAGE RANGE

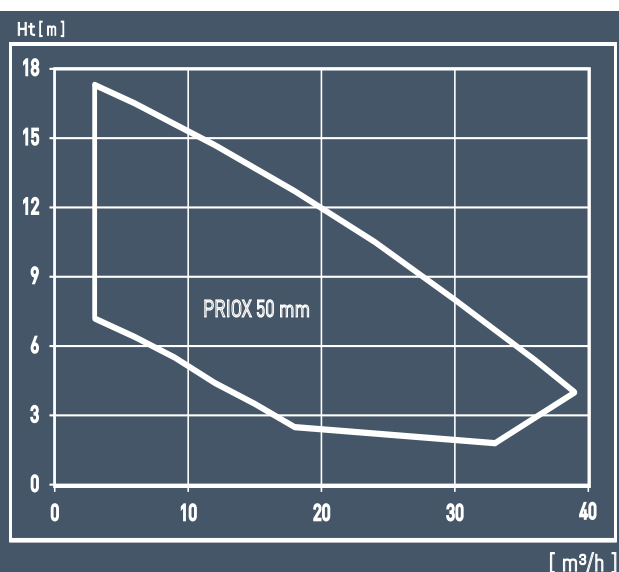
- $H_{\max} = 17,3 \text{ m}$
- $Q_{\max} = 39 \text{ m}^3/\text{h}$
- $P_2_{\max} = 2,4 \text{ kW}$
- The automatic version is equipped with float switch
- 8 models
- Voltage (V): 1x230 / 3x400

NEW

PERFORMANCE RANGE - PRIOX 40 mm



PERFORMANCE RANGE - PRIOX 50 mm



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.

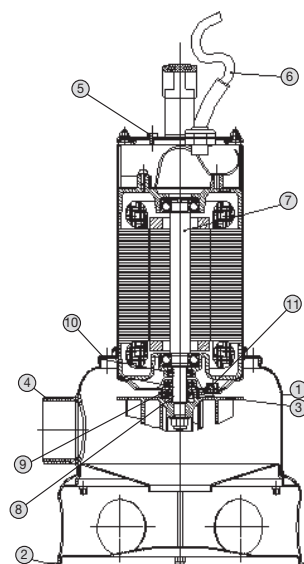
APPLICATION DATA

- 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

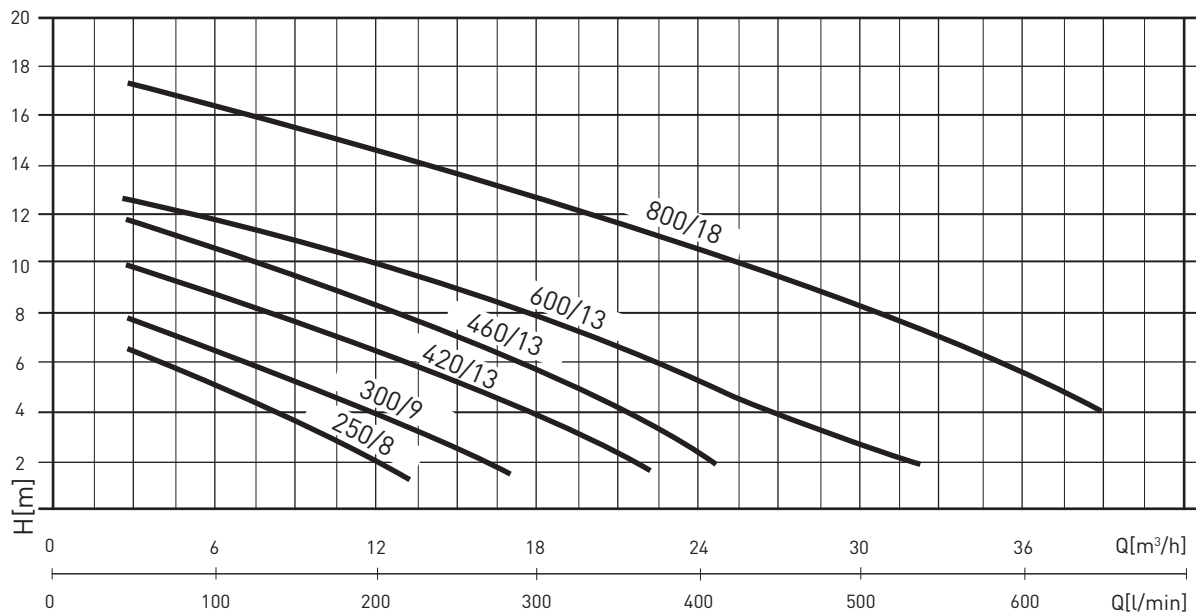
Component		Material	
1	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)	
2	Suction base	Stainless steel X5 CrNi 1810 (AISI 304)	
3	Impeller	Cast stainless steel X5 CrNi 1810 (AISI 304)	
4	Delivery port	Threaded	
5	Cover	Cast stainless steel (Priox 800/18)	
6	Power cable	10 m H07 RN-F with plug	
7	Motor 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	



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ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

HYDRAULIC PERFORMANCE

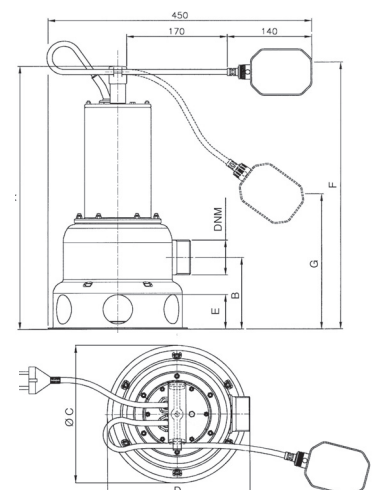


MODEL	Motor out-put (P2)		Power Motor (P1)		VOLT	In (A)	μF	Q	L/ min m³/h	50	100	150	200	250	300	400	500	550	600	650
	HP	kW	HP	kW						3	6	9	12	15	18	24	30	33	36	39
PRIOX 250/8 M PRIOX 250/8 M AUT	0.75	0.55	1.1	0.8	1 ~ 230 V	3.6	14	m.c.a. / m.w.c.	6.5	5.2	3.4	2.0	0.2							
PRIOX 300/9 M PRIOX 300/9 M 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.





INSPIRED SOLUTIONS FOR A CHANGING WORLD



Discover solutions to improve the products with the experience and the knowledge of our customers and sales team

Continuous **Development** with our engineer team using the most advanced technology in order to develop products respecting the environment

Deploy a whole range of products able to grant all possible pumping solutions for every application



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