

## 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.



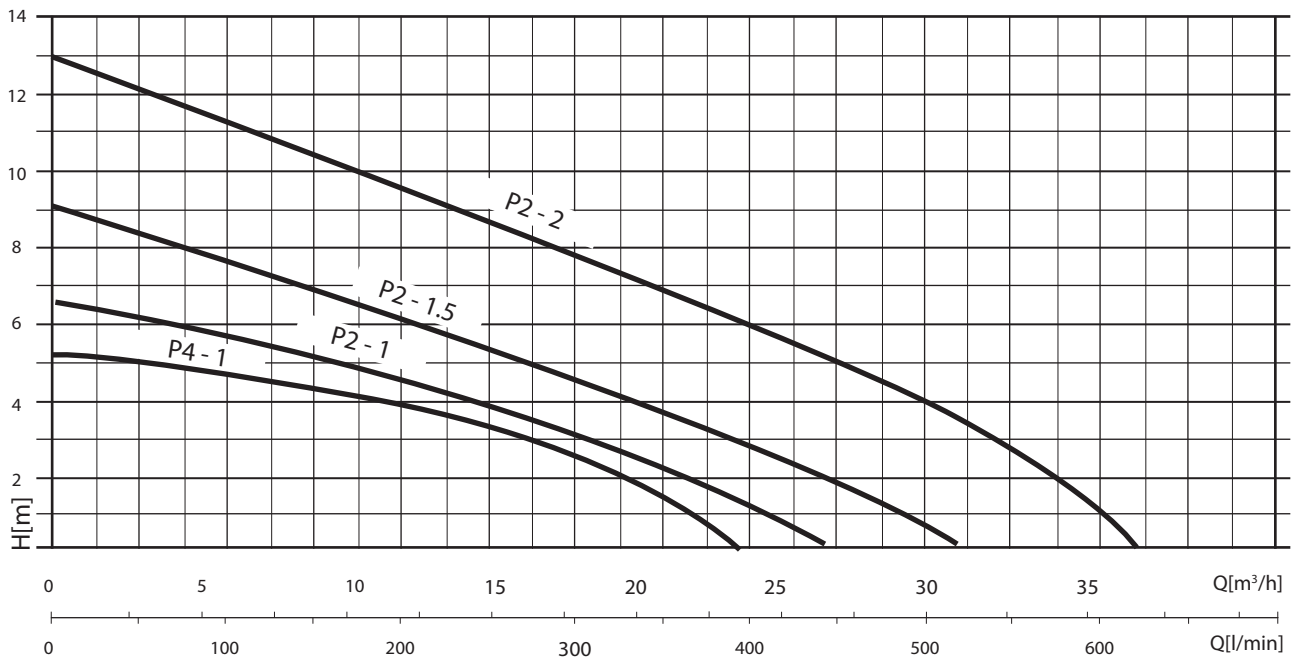
#### TABLE OF MATERIALS

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		Ceramic
8	Lip seal		Rubber NBR 70

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### HYDRAULIC PERFORMANCE



MODEL	Motor output (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
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

