

MINIVORT P

SUBMERSIBLE SEWAGE PUMPS WITH VORTEX IMPELLER



The MINIVORT P pumps are made entirely of cast iron and designed for continuous use in fixed installations. Manufactured on the vortex operating principle with the impeller set back. Strong and resistant.

Applications

- Pumping and draining effluent; civil and industrial sewage with suspended solids
- Draining of cesspits, cesspools, handling of effluent
- Pumping stations with one or more pumps for civil and industrial plants

Motor

- Dry motor
- Level of protection IP68
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm
- Four pole 1450 rpm (P2) motor (P4).

Usage limitations

- Type of liquid: waste water and sewage
- Maximum liquid temperature 40°C
- Maximum submersion under the water level 7m
- Minimum drainage level 45mm (manual version)
- Free clearance of solids 52 mm

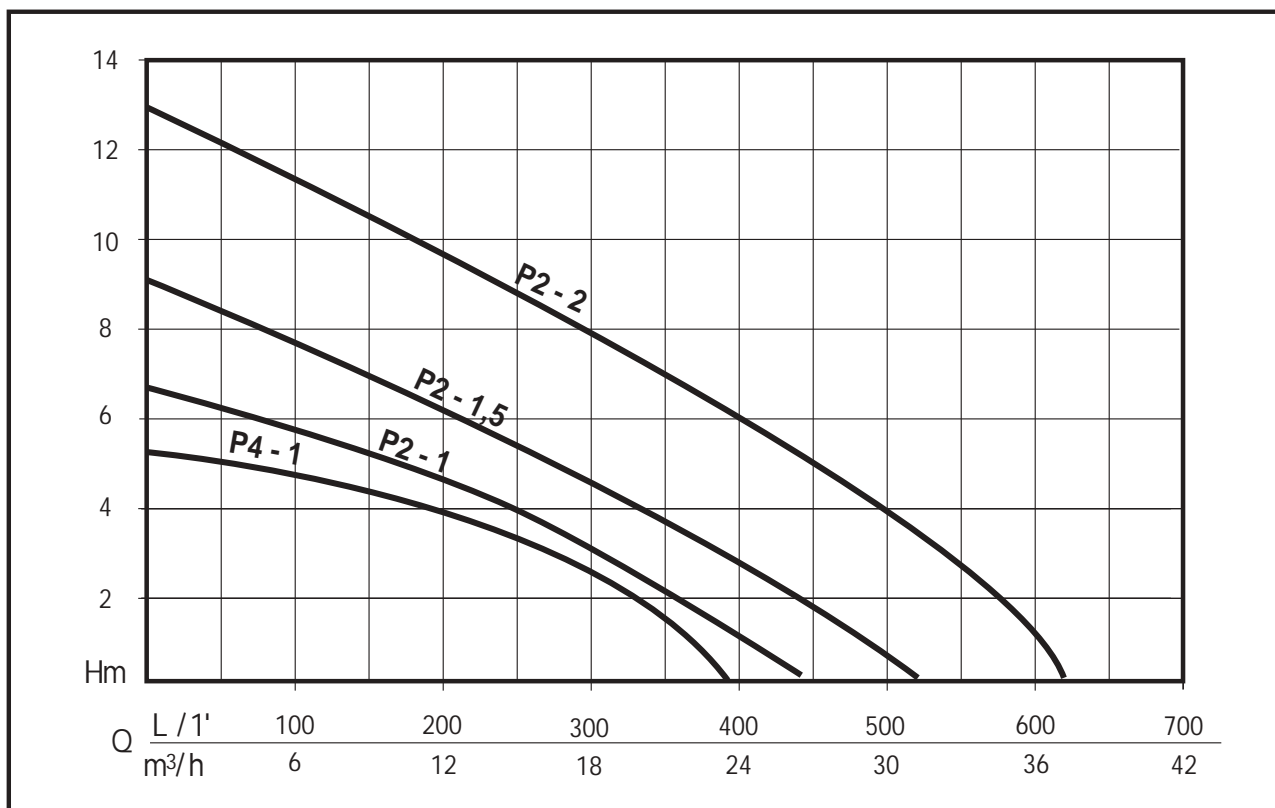
Design features

- Automatic single phase version with float switch and sealed electric panel including capacitor, thermal protection and manual/automatic switch. 10 m H07 RN-F power supply cable
- Three phase version, 10 m H07 RN-F power supply cable
- Flanged outlet connection, with square threaded counterflange - 2" female

DESIGN FEATURES

Component	Material	
Pump body	EN GJL 200 (ex G20) Grey cast iron	
Motor casing	EN GJL 200 (ex G20) Grey cast iron	
Base	EN GJL 200 (ex G20) Grey cast iron	
Impeller	EN GJL 200 (ex G20) Grey cast iron	
Motor shaft	X 12 CrNiS 1809 (AISI 416) Stainless steel	
Mechanical seal		Oil chamber for seal lubrication
Counterface	Ceramic	
Lip seal	NBR 70 rubber	

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Nominal power		Absorbed power		VOLTAGE	Amp.	μF.	Q	Discharge head in meters									
		HP	kW	HP	kW					L/1'	50	100	200	300	400	500			
										m³/h	3	6	12	18	24	30			
N2041010	MINIVORT P2 - 1 M	1	0,75	2	1,5	1 ~ 220 ÷ 240 V	6,5	20	Discharge head in meters	6	5,4	4,1	3	1					
N2041020	MINIVORT P2 - 1 M AUT					1 ~ 220 ÷ 240 V	6,5	20											
N2041030	MINIVORT P2 - 1 T					3 ~ 400 V	2,3	20											
N2042010	MINIVORT P2 - 1,5 M	1,5	1,1	2,2	1,6	1 ~ 220 ÷ 240 V	7	25		Discharge head in meters	8,3	7,5	6,1	4,6	2,8	1			
N2042020	MINIVORT P2 - 1,5 M AUT					1 ~ 220 ÷ 240 V	7	25											
N2042030	MINIVORT P2 - 1,5 T					3 ~ 400 V	2,7	25											
N2043010	MINIVORT P2 - 2 M	2	1,5	3	2,2	1 ~ 220 ÷ 240 V	9,8	35			Discharge head in meters	12,1	11,3	9,8	8	6	3,7		
N2043020	MINIVORT P2 - 2 M AUT					1 ~ 220 ÷ 240 V	9,8	35											
N2043030	MINIVORT P2 - 2 T					3 ~ 400 V	3,2	35											
N2044010	MINIVORT P4 - 1 M	1	0,75	1,7	1,25	1 ~ 220 ÷ 240 V	5,5	25				Discharge head in meters	5	4,6	3,3	2,2			
N2044020	MINIVORT P4 - 1 M AUT					1 ~ 220 ÷ 240 V	5,5	25											
N2044030	MINIVORT P4 - 1 T					3 ~ 400 V	2,3	25											

MINIVORT P2 : 2 poles motor 2850 rpm
 MINIVORT P4 : 4 poles motor 1450 rpm

TABLE OF SIZES 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

