TOP-VORTEX

Submersible pump

■ for dirty water





PERFORMANCE RANGE

- Flow rate up to 180 l/min (10.8 m³/h)
- Head up to 7 m

APPLICATION LIMITS

- 3 m maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
 (Maximum liquid temperature +90 °C for a maximum of 3 minutes intermittent service)
- Passage of suspended solids up to Ø 20 mm
- Suction down to 25 mm above ground level
- Continuous service S1

CONSTRUCTION AND SAFETY STANDARDS

Complete with:

- 5 m long power cable
- float switch

EN 60335-1 EN 60034-1 IEC 60034-1 CEI 61-150 CEI 2-3



CERTIFICATIONS

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV ISO 9001: QUALITY ISO 14001: ENVIRONMENT AND SAFETY





INSTALLATION AND USE

The **TOP-VORTEX** pump is suitable for use with **dirty water** that is not chemically aggressive towards the materials from which the pump is made.

As a result of the design solutions that have been adopted, such as the complete cooling of the motor and the shaft with double seal, these pumps are easy to use and reliable.

They are suitable for use in applications such as clearing dirty water, emptying tanks, discharging domestic waste water, and for emptying collection traps containing suspended solids up to a maximum of Ø 20 mm.

PATENTS - TRADE MARKS - MODELS

• Registered Community Design n° 342159-0011

OPTIONALS AVAILABLE ON REQUEST

- Special mechanical seal
- Pumps with a **10 m** long power cable
 - N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Pumps without float switch
- Other voltages or 60 Hz frequency

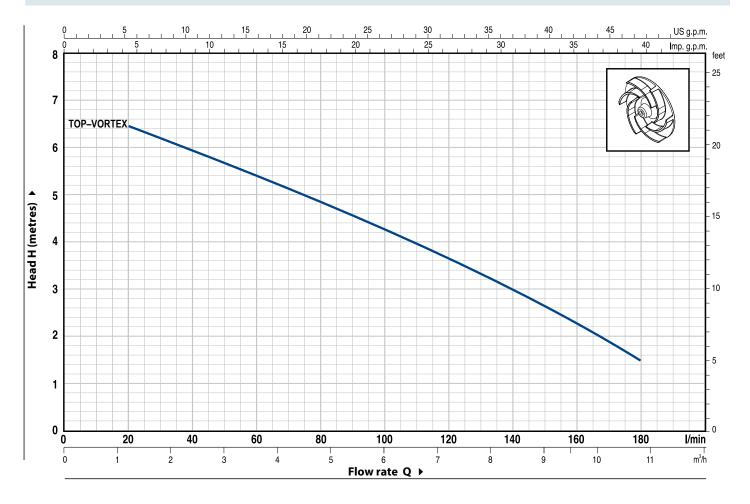
GUARANTEE

2 years subject to terms and conditions



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



MODEL	PO	NER	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
Single-phase	kW	HP	I/min	0	20	40	60	80	100	120	140	160	180
TOP-VORTEX	0.37	0.50	H metres	7	6.5	6	5.4	4.8	4.2	3.5	3	2.5	1.5

Q = Flow rate **H** = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3.

TOP-VORTEX

POS. COMPONENT	CONSTRUCTION CHARACTERISTICS
1 PUMP BODY	Technopolymer
2 SUCTION FILTER	Technopolymer
3 SUCTION PLATE	Technopolymer
4 DIFFUSER	Technopolymer
5 IMPELLER	Technopolymer VORTEX type
6 MOTOR CASING	Stainless steel AISI 304
7 MOTOR CASING PLATE	Stainless steel AISI 304
8 MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104

9 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

Seal	Shaft		Materials	
Model	Diameter	Stationary ring	Rotational ring	Elastomer
AR-12R	Ø 12 mm	Ceramic	Graphite	NBR

10 LIP SEAL Ø 12 x Ø 19 x H 5 mm

11 BEARINGS 6201 ZZ / 6201 ZZ

12 CAPACITOR

Capacitance

(230 V or 240 V) (110 V) 10 μF 450 VL 16 μF 250 VL

13 ELECTRIC MOTOR

- Single-phase 230 V 50 Hz with thermal overload protector built-in to the winding
- Insulation: F classProtection: IP X8

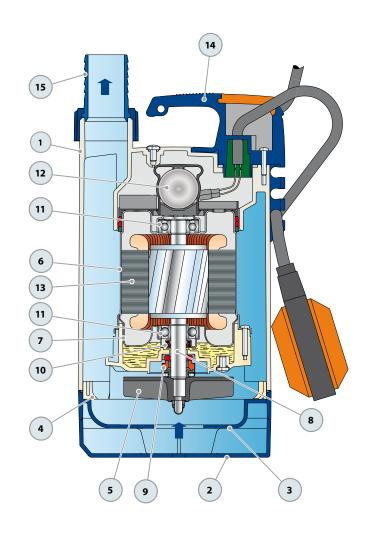
14 HANDLE ASSEMBLY (resin sealed)

Complete with:

- **5 metre** long "H07 RN-F" power cable with Schuko plug
- Float switch.

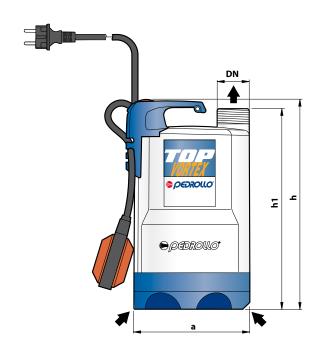
15 HOSE CONNECTOR WITH UNION

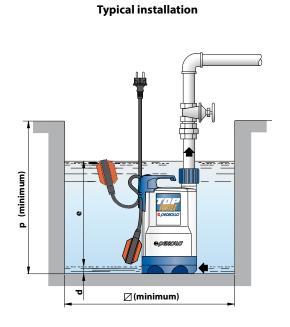
Hose connection Ø 35 mm





DIMENSIONS AND WEIGHT





MODEL	PORT	DIMENSIONS mm								
Single-phase	DN	a	h	h1	d	е	р	Ø	kg	
TOP-VORTEX	1¼″	152	288	268	25	variable	350	350	5.1	

ABSORPTION

MODEL	VOLTAGE (single-phase)					
Single-phase	230 V	240 V	110 V			
TOP-VORTEX	2.0 A	2.0 A	5.3 A			

PALLETIZATION

MODEL	GR	OUPAGI	E	CONTAINER			
Single-phase	n° pumps	H (mm)	kg	n° pumps	H (mm)	kg	
TOP-VORTEX	96	1360	508	144	1970	753	

