



Dirty water



Domestic use



Civil use



PERFORMANCE RANGE

- Flow rate up to **380 l/min** (22.8 m³/h)
- Head up to **13 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+50 °C** (Maximum liquid temperature +90 °C for a maximum of 3 minutes intermittent service)
- Passage of solids:
 - up to **Ø 20 mm** for RX 2/20, RX 3/20
 - up to **Ø 40 mm** for RX 4/40, RX 5/40
- Suction level:
 - **25 mm** above ground level for RX 2/20, RX 3/20
 - **50 mm** above ground level for RX 4/40, RX 5/40
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

The pumps are complete with:

- **5 m** long power cable for RX 2/20, RX 3/20
- **10 m** long power cable for RX 4/40, RX 5/40
- float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT AND SAFETY



INSTALLATION AND USE

The **RX-VORTEX** series pumps are suitable for use with **dirty water**. The design solutions that have been adopted, such as the complete cooling of the motor, guarantee the reliability of the pump. They are suitable for use in domestic applications such as for discharging dirty water containing suspended solids.

PATENTS - TRADE MARKS - MODELS

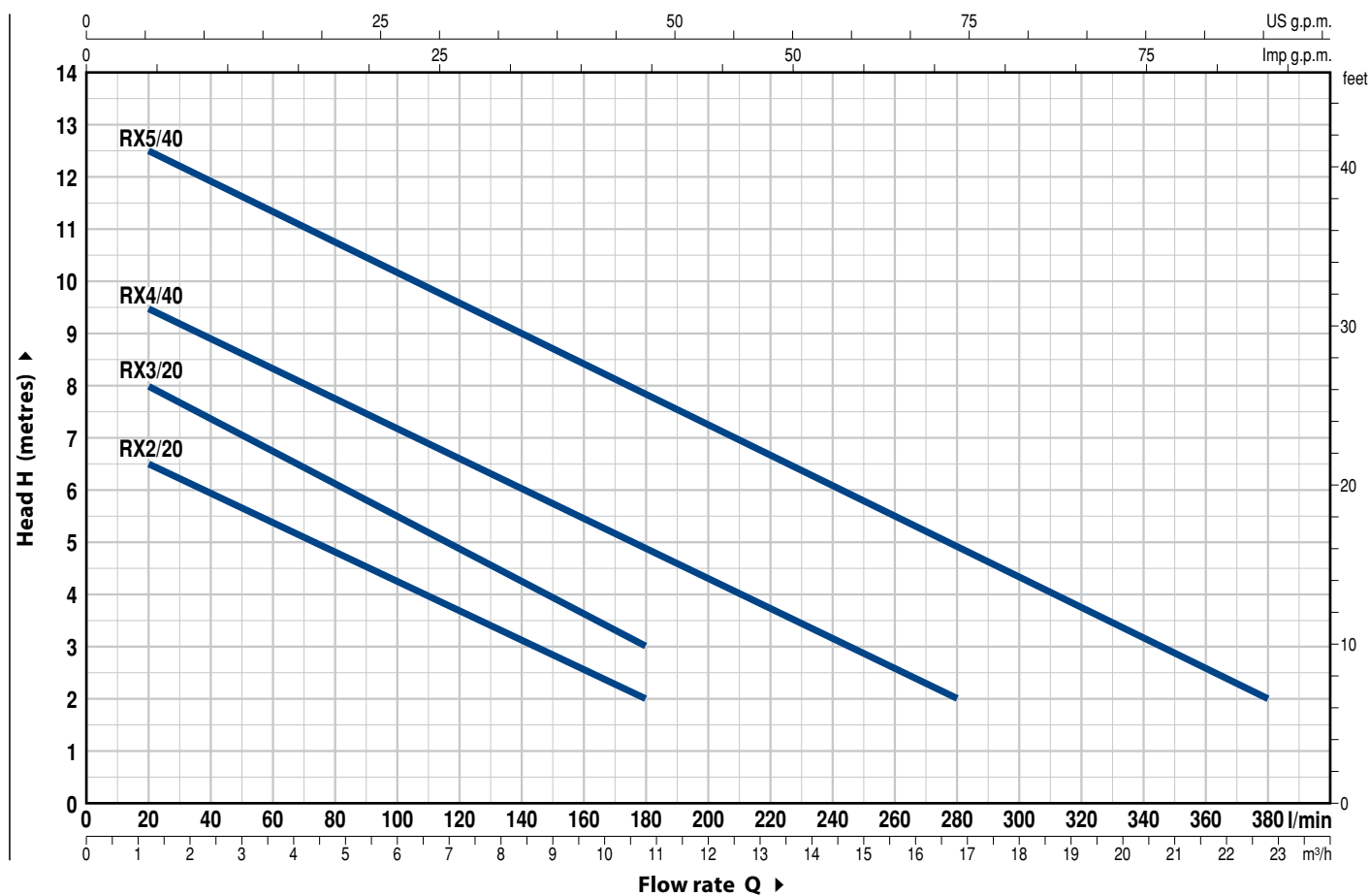
- Patent n. IT0001390742 (RX 4-5/40)
- Registered EU Design n. 342159-0014 (RX 2-3/20)

OPTIONS AVAILABLE ON REQUEST

- “**RX-VORTEX GM**” pumps with a vertical float switch (suitable for particularly small wells)
- Special mechanical seal
- RX 2-3/20 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
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



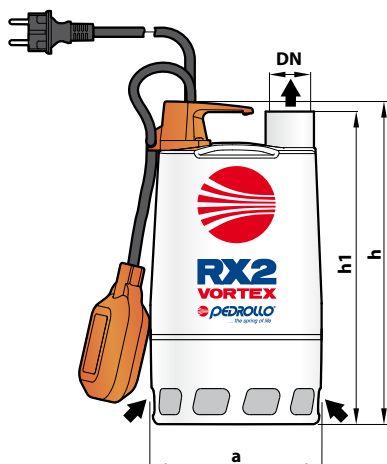
MODEL		POWER (P ₂)		Q																		
Single-phase	Three-phase	kW	HP		m³/h	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	13.2	16.8	20.4	22.8			
					l/min	0	20	40	60	80	100	120	140	160	180	220	280	340	380			
RXm 2/20	RX 2/20	0.37	0.50	H metres		7	6.5	6	5.5	4.8	4.3	3.7	3	2.5	2							
RXm 3/20	RX 3/20	0.55	0.75			9	8	7.5	6.5	6	5.5	4.7	4.2	3.5	3							
RXm 4/40	RX 4/40	0.75	1			10	9.5	8.7	8.5	7.7	7	6.5	6	5.5	4.7	3.7	2					
RXm 5/40	RX 5/40	1.1	1.5			13	12.5	12	11.5	10.7	10	9.5	9	8.3	7.7	6.5	5	3	2			

Q = Flow rate H = Total manometric head

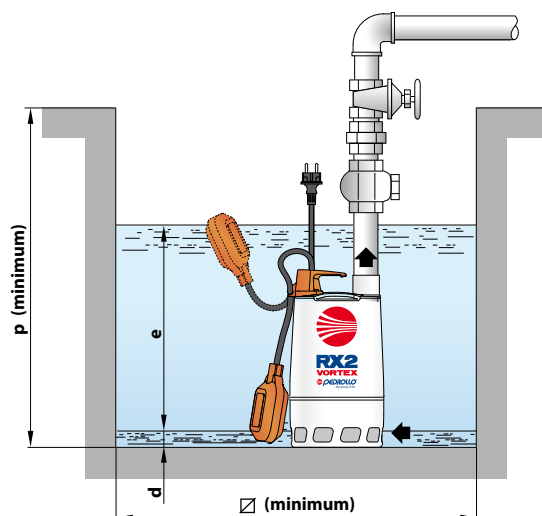
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	Stainless steel AISI 304 with threaded port in compliance with ISO 228/1				
2	SUCTION FILTER	Stainless steel AISI 304				
3	DIFFUSER	Stainless steel AISI 304				
4	IMPELLER	Stainless steel AISI 304 VORTEX type				
5	MOTOR CASING	Stainless steel AISI 304				
6	MOTOR CASING PLATE	Stainless steel AISI 304				
7	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104				
8	SHAFT WITH DOUBLE SEAL AND OIL CHAMBER					
		Seal	Shaft	Materials		
		Model	Diameter	Stationary ring	Rotational ring	Elastomer
		STA-12R SIC	Ø 12 mm	Ceramic	Silicon carbide	NBR
9	LIP SEAL	Ø 12 x Ø 19 x H 5 mm				
10	BEARINGS	6201 ZZ / 6201 ZZ				
11	CAPACITOR					
		Pump	Capacitance			
		Single-phase	(230 V or 240 V)	(110 V)		
		RXm 2/20	10 µF 450 VL	16 µF - 250 VL		
		RXm 3/20	14 µF 450 VL	16 µF - 250 VL		
12	ELECTRIC MOTOR					
		RXm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding				
		RX: three-phase 400 V - 50 Hz				
		– Insulation: class F				
		– Protection: IP X8				
13	HANDLE ASSEMBLY (resin sealed)					
		Complete with:				
		– 5 metres long “H07 RN-F” power cable with Schuko plug				
		– Float switch (Vertical float switch in the GM versions)				

DIMENSIONS AND WEIGHT

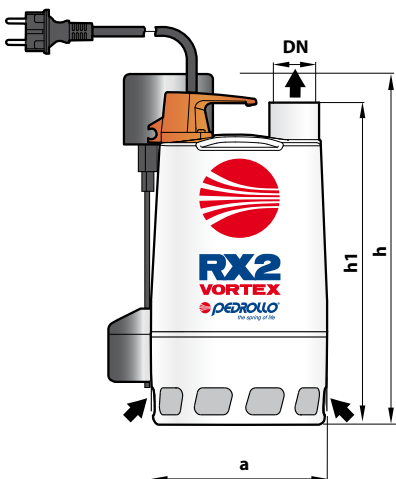


Standard installation

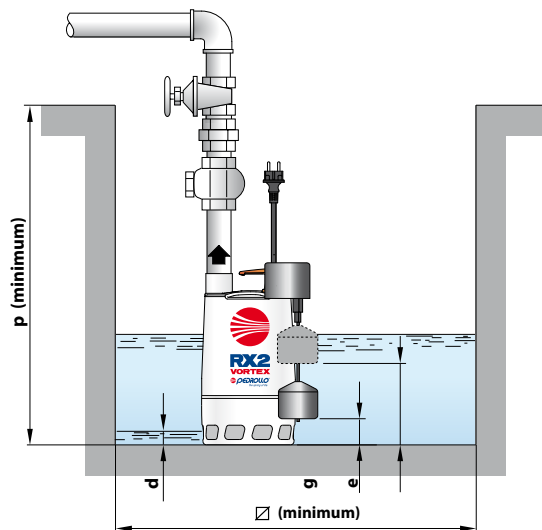


MODEL		PORT	DIMENSIONS mm							kg		PALLETIZATION	
Single-phase	Three-phase	DN	a	h	h1	d	e	p	Ø	1~	3~	GROUPAGE n. pumps	CONTAINER n. pumps
RXm 2/20	RX 2/20	1 1/4"	147	290	278	25	variable	350	350	6.1	6.1	72	120
RXm 3/20	RX 3/20			320	308					7.9	7.9	72	120

Version with vertical float switch



Standard installation



MODEL	PORT	DIMENSIONS mm								kg	PALLETIZATION	
Single-phase	DN	a	h	h1	d	e	g	p	Ø	1~	GROUPAGE n. pumps	CONTAINER n. pumps
RXm 2/20-GM	1 1/4"	147	305	278	25	180	50	350	240	6.2	60	100
RXm 3/20-GM			335	308		210	80			8.0	60	100

ABSORPTION

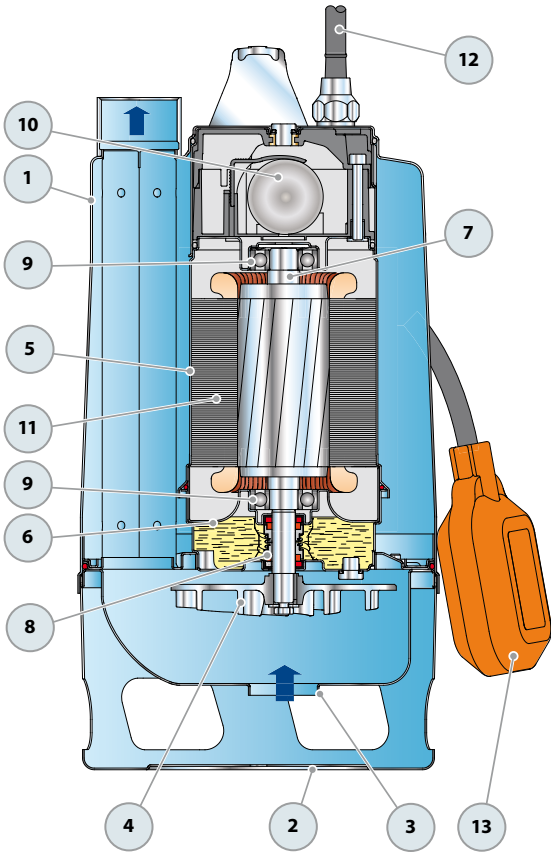
MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
RXm 2/20	2.6 A	2.5 A	5.2 A
RXm 3/20	3.2 A	3.1 A	6.4 A

MODEL	VOLTAGE			
Three-phase	230 V	400 V	240 V	415 V
RX 2/20	1.9 A	1.1 A	1.8 A	1.05 A
RX 3/20	2.6 A	1.5 A	2.5 A	1.45 A

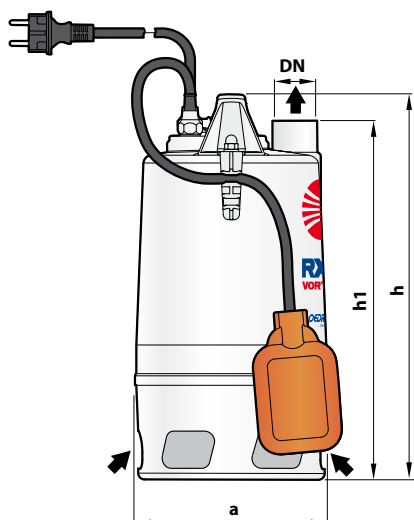
POS. COMPONENTCONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Stainless steel AISI 304 with threaded port in compliance with ISO 228/1			
2	SUCTION FILTER	Stainless steel AISI 304			
3	DIFFUSER	Stainless steel AISI 304			
4	IMPELLER	Stainless steel AISI 304 VORTEX type			
5	MOTOR CASING	Stainless steel AISI 304			
6	MOTOR CASING PLATE	Stainless steel AISI 304			
7	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104			
8	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER				
Seal		Shaft	Position	Materials	
Model	Diameter		Stationary ring	Rotational ring	Elastomer
MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR
9	BEARINGS	6203 ZZ-C3E / 6203 ZZ-C3E			
CAPACITOR					
Pump		Capacitance			
10	Single-phase	(230 V or 240 V)	(110 V)		
RXm 4/40		20 µF 450 VL	30 µF - 250 VL		
RXm 5/40		25 µF 450 VL	30 µF - 250 VL		
11	ELECTRIC MOTOR				
RXm: single-phase 230 V - 50 Hz					
with thermal overload protector incorporated into the winding					
RX: three-phase 400 V - 50 Hz					
– Insulation: class F					
– Protection: IP X8					
12	POWER CABLE				
"H07 RN-F" type					
(with Schuko plug for single-phase versions only)					
Standard length 10 metres					
13	FLOAT SWITCH				
Only for single-phase versions					
(Vertical float switch in the GM versions).					

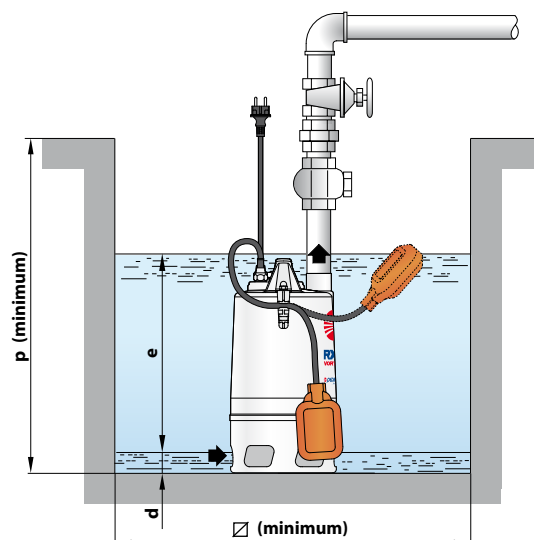
The diagram is a vertical cross-section of the pump assembly. At the top, a blue arrow indicates the suction inlet. Below it is the suction filter (2). The diffuser (3) leads to the impeller (4). The motor casing (5) and motor casing plate (6) surround the motor shaft (7). The shaft has a double mechanical seal (8) with stationary and rotational rings. The bearings (9) support the shaft. The capacitor (10) is connected to the motor. The power cable (12) is shown on the right. The float switch (13) is at the bottom.



DIMENSIONS AND WEIGHT



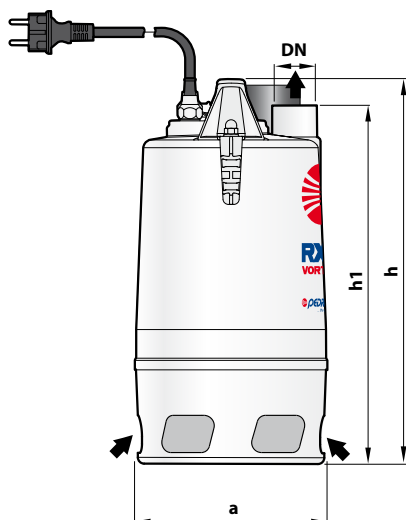
Standard installation



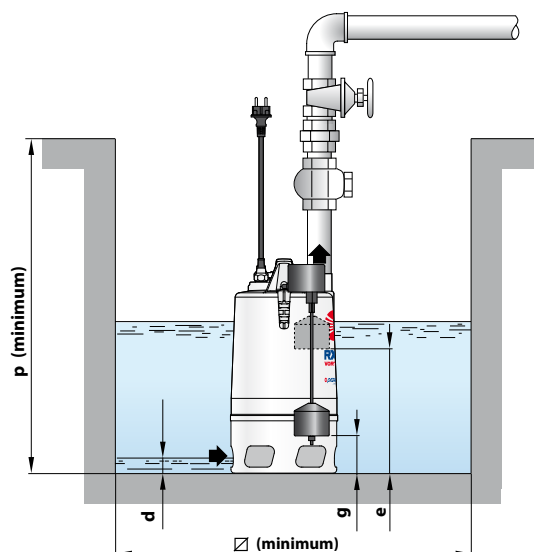
MODEL		PORT	DIMENSIONS mm							kg	
Single-phase	Three-phase	DN	a	h	h1	d	e	p	Ø	1~	3~
RXm 4/40	RX 4/40	1½"	220	430	400	50	variable	500	500	13.0	12.2
RXm 5/40	RX 5/40									14.0	13.0

PALLETIZATION	
GROUPAGE n. pumps	CONTAINER n. pumps
45	60
45	60

Version with vertical float switch



Standard installation



MODEL	PORT	DIMENSIONS mm								kg
Single-phase	DN	a	h	h1	d	e	g	p	Ø	1~
RXm 4/40 - GM	1½"	220	430	400	50	320	80	500	350	14.3
RXm 5/40 - GM										15.3

PALLETIZATION	
GROUPAGE n. pumps	CONTAINER n. pumps
36	48
36	48

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
RXm 4/40	5.2 A	5.1 A	10.4 A
RXm 5/40	6.5 A	6.4 A	13.0 A

MODEL	VOLTAGE			
Three-phase	230 V	400 V	240 V	415 V
RX 4/40	3.6 A	2.1 A	3.5 A	2.05 A
RX 5/40	5.4 A	3.1 A	5.3 A	3.05 A