

-  Dirty water
-  Domestic use
-  Civil use

※ All stainless steel pumps



PERFORMANCE RANGE

- Flow rate up to **380 l/min** (22.8 m³/h)
- Head up to **12.8 m**

INSTALLATION AND USE

RX-VORTEX pumps excel in draining **dirty water**, featuring designs that ensure reliable performance even during continuous operation, thanks to comprehensive motor cooling. Ideal for **domestic, civil, and industrial applications**, these pumps are perfect for removing dirty water containing suspended solids.

APPLICATION LIMITS

- Maximum operating depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+50 °C** and up to **+90 °C** for short bursts (up to 3 minutes max) for intermittent service
- Suspended solids transfer:
 - up to **Ø 20 mm** for RX 2/20, RX 3/20
 - up to **Ø 40 mm** for RX 4/40, RX 5/40
- Draining capability:
 - up to **25 mm** from the bottom for RX 2/20, RX 3/20
 - up to **50 mm** from the bottom for RX 4/40, RX 5/40

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

INCLUDES

- ※ Power cable length **5 m**
- ※ Float switch for single-phase versions

AVAILABLE UPON REQUEST

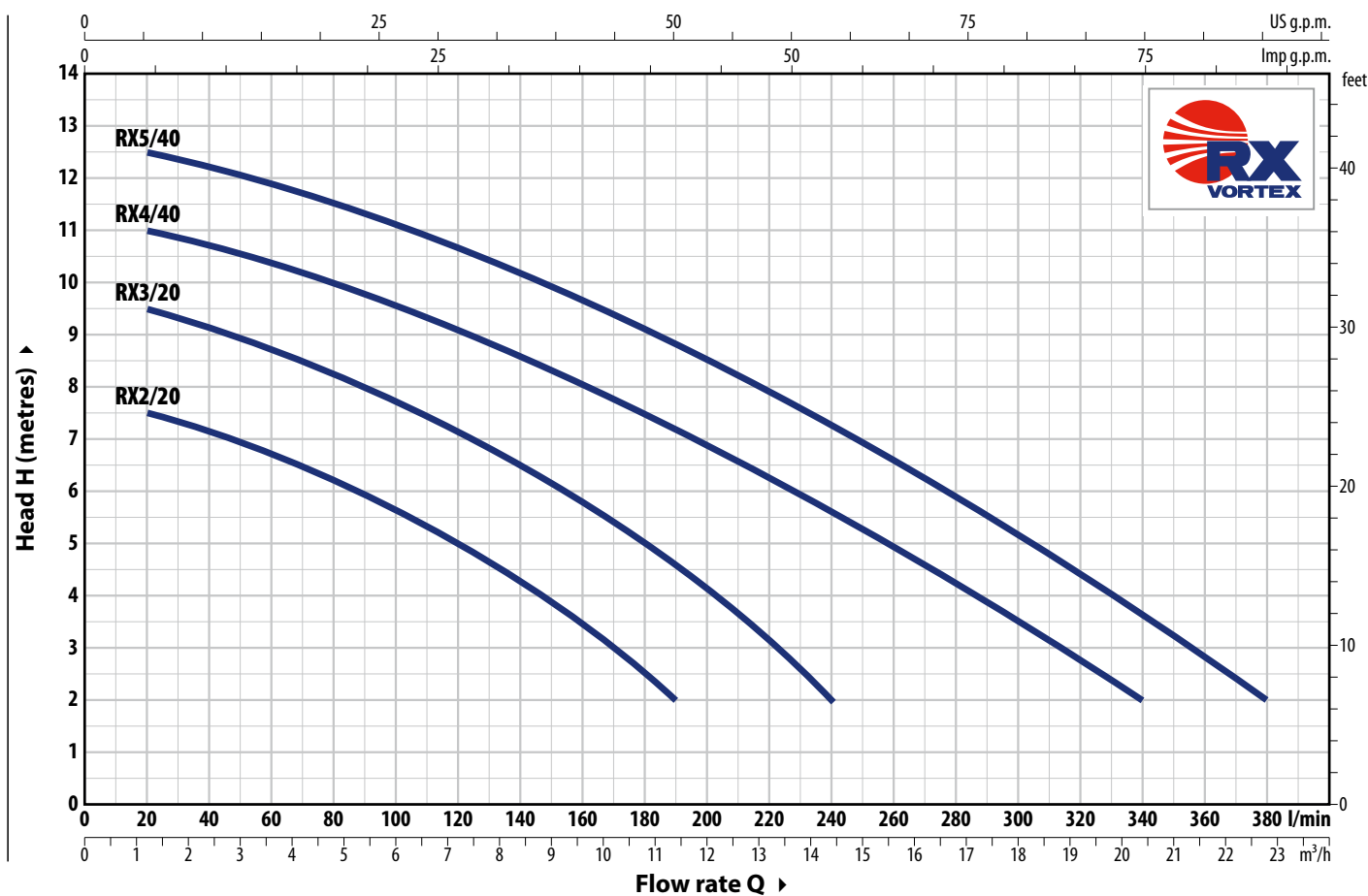
- ※ Mechanical seal options available
- ※ Pumps with **10 m** power cable.
- ※ Different voltage or frequency
- ※ **RX-VORTEX GM** pumps with magnetically operated float switch (suitable for small sumps)



RX-VORTEX GM

CURVES AND PERFORMANCE DATA

60 Hz



TYPE		POWER (P ₂)		Q m ³ /h l/min	0	1.2	3.6	6.0	7.8	9.6	11.4	12.6	14.4	16.2	18.0	20.4	22.8
Single-phase	Three-phase	kW	HP		0	20	60	100	130	160	190	210	240	270	300	340	380
RXm 2/20	RX 2/20	0.37	0.50	H metres	8	7.5	6.7	5.6	4.7	3.5	2						
RXm 3/20	RX 3/20	0.55	0.75		10	9.5	8.7	7.7	6.8	5.8	4.5	3.6	2				
RXm 4/40	RX 4/40	0.75	1		11.3	11	10.3	9.5	8.8	8	7.2	6.6	5.7	4.7	3.6	2	
RXm 5/40	RX 5/40	1.1	1.5		12.8	12.5	11.8	11	10.4	9.7	8.8	8.3	7.3	6.3	5.3	3.7	2

Q = Flow rate H = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

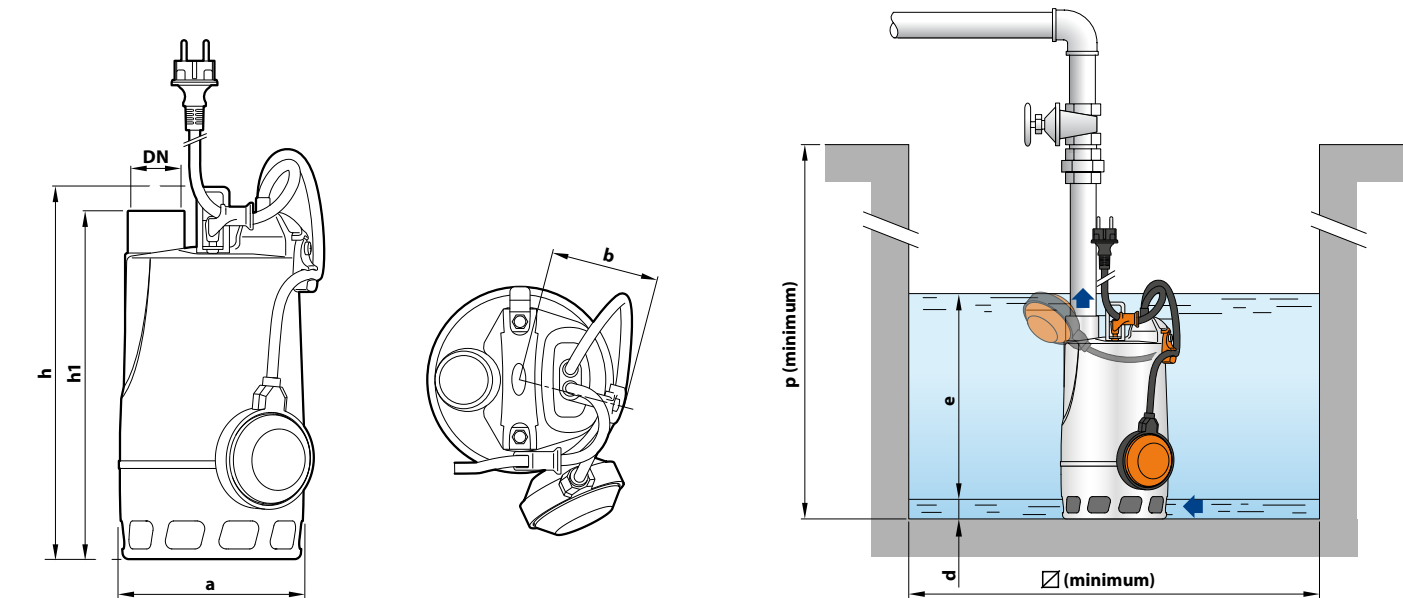
ABSORPTION

TYPE	VOLTAGE	
	220 V	110 V
RXm 2/20	2.5 A	5.0 A
RXm 3/20	3.2 A	7.0 A
RXm 4/40	5.0 A	10.0 A
RXm 5/40	7.5 A	–

TYPE	VOLTAGE	
	380 V	440 V
RX 2/20	1.2 A	1.1 A
RX 3/20	1.5 A	1.4 A
RX 4/40	2.3 A	2.0 A
RX 5/40	3.5 A	3.1 A

DIMENSIONS AND WEIGHT

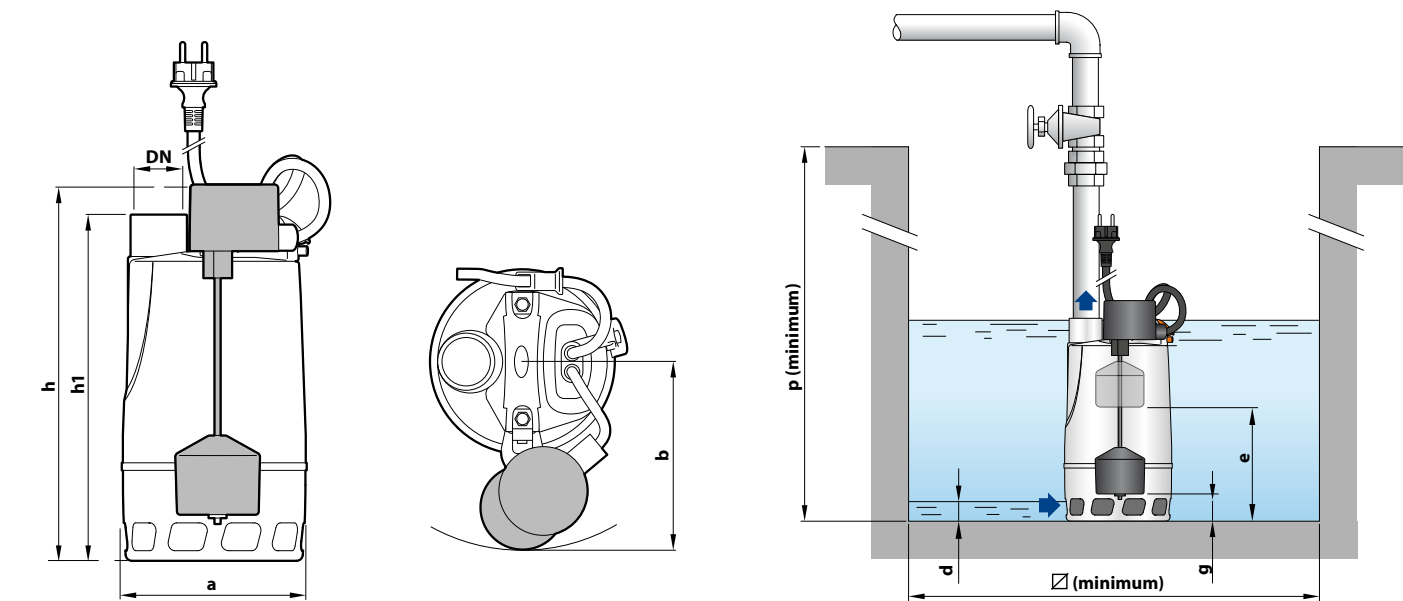
Typical installation



TYPE		PORT DN	DIMENSIONS mm									kg		GROUPAGE	CONTAINER
Single-ph.	Three-ph		a	b	h	h1	d	e	p	$\varnothing$		1~	3~	n. pumps	n. pumps
RXm 2/20	RX 2/20	1 1/4"	147	84	300	275	25	adjustable	350	350		6.2	5.8	96	144
RXm 3/20	RX 3/20				330	305						7.7	7.0	96	144

※ Version with 'GM' magnetic float switch

Typical installation

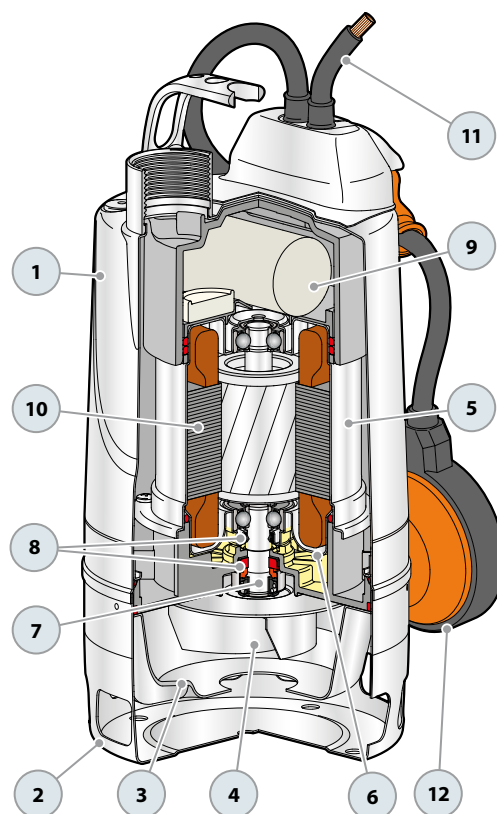


TYPE		PORT DN	DIMENSIONS mm									kg		GROUPAGE	CONTAINER
Single-ph.			a	b	h	h1	d	g (adjustable)	p	$\varnothing$		1~		n. pumps	n. pumps
RXm 2/20-GM		1 1/4"	147	150	302	275	25	180	350	240		6.3		80	120
RXm 3/20-GM					332	305		210				7.9		80	120

MATERIALS AND COMPONENTS

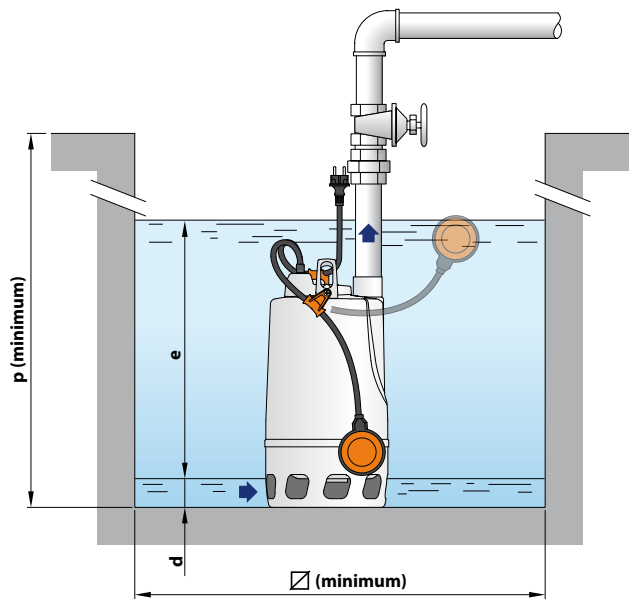
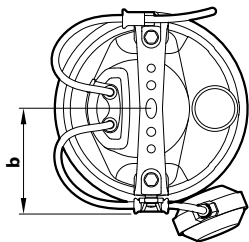
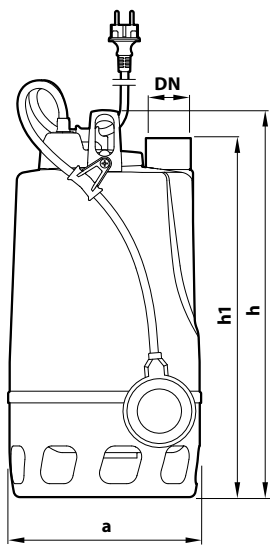
1	Outer sleeve	AISI 304 stainless steel with ISO 228/1 threaded port	
2	Suction filter	Stainless steel AISI 304	
3	Diffuser	Stainless steel AISI 304	
4	Impeller	VORTEX in AISI 304 stainless steel	
5	Motor sleeve	Stainless steel AISI 304	
6	Motor cover	Stainless steel AISI 304	
7	Motor shaft	Stainless steel AISI 431	
8	Double shaft seal with interposed oil chamber		
	Seal	Shaft	Materials
	STA-12R SIC	Ø 12 mm	Ceramic / Silicon carbide / NBR
	Shaft seal Ø 12 x Ø 19 x H 5 mm		
9	Capacitor (exclusive to single-phase models)		
10	Electric motor RXm: single-phase 220 V - 60 Hz or 110 V - 60Hz with winding integrated thermal motor protection RX: three-phase 380 V - 60 Hz or 440 V - 60Hz – Continuous running duty S1 – Insulation: Class F – Protection rating IP X8		
11	Power cord Type 'H07 RN-F' (Schuko plug exclusive to single-phase models) ※ Standard length 5 metres		
12	Float switch (exclusive to single-phase models)		

The diagram shows a vertical cross-section of a submersible pump. At the top, a power cord (11) enters the motor housing (5). Inside the housing, a capacitor (9) is visible. The electric motor (10) is shown with its internal components. Below the motor is the double shaft seal with an interposed oil chamber (8). The motor shaft (7) passes through the seal and is connected to the impeller (4). The impeller is mounted on a diffuser (3) and a suction filter (2). The entire assembly is housed within an outer sleeve (1). A float switch (12) is located at the bottom of the unit.



DIMENSIONS AND WEIGHT

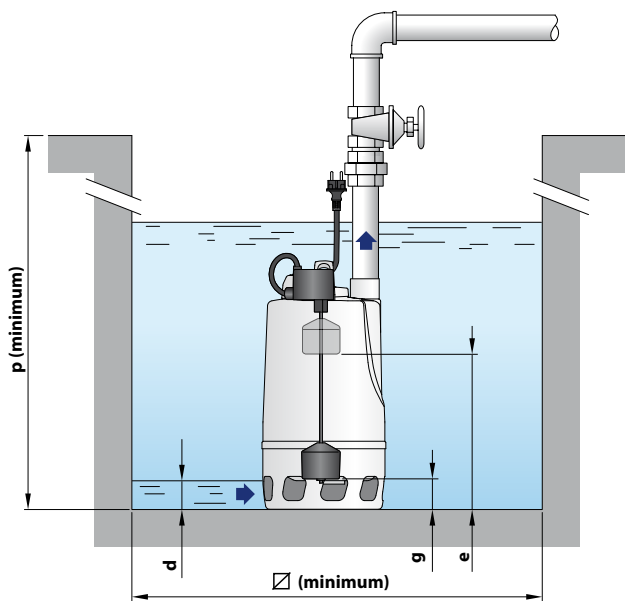
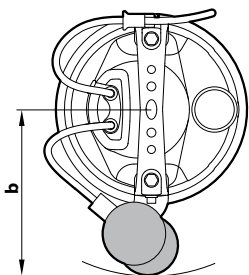
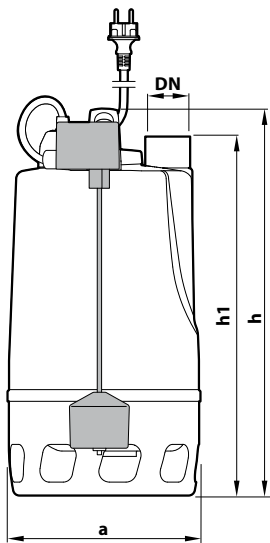
Typical installation



TYPE		PORT DN	DIMENSIONS mm								kg		GROUPAGE	CONTAINER
Single-ph.	Three-ph.		a	b	h	h1	d	e	p	□	1~	3~	n. pumps	n. pumps
RXm 4/40	RX 4/40	1½"	215	115	432	400	50	adjustable	500	500	14.8	13.9	45	60
RXm 5/40	RX 5/40										16.0	14.8	45	60

※ Version with 'GM' magnetic float switch

Typical installation



TYPE		PORT DN	DIMENSIONS mm								kg		GROUPAGE	CONTAINER
Single-ph.			a	b	h	h1	d	e	g (adjustable)	p	□	1~	n. pumps	n. pumps
RXm 4/40 - GM	1½"	215	186.5	432	400	50	320	80	500	350	15.2	15.2	36	48
RXm 5/40 - GM											16.2	16.2	36	48

MATERIALS AND COMPONENTS

1	Outer sleeve	AISI 304 stainless steel with ISO 228/1 threaded port	
2	Suction filter	Stainless steel AISI 304	
3	Diffuser	Stainless steel AISI 304	
4	Impeller	VORTEX in AISI 304 stainless steel	
5	Motor sleeve	Stainless steel AISI 304	
6	Motor cover	Stainless steel AISI 304	
7	Motor shaft	Stainless steel AISI 431	
8	Double mechanical seal with interposed oil chamber		
	Seal	Shaft	Location
			Materials
	MG1-14D SIC	Ø 14 mm	Motor side
			Pump side
			Silicon carbide / Graphite / NBR
			Silicon carbide/Silicon carbide/NBR
9	Capacitor (exclusive to single-phase models)		
10	Electric motor		
	RXm: single-phase 220 V - 60 Hz with winding integrated thermal motor protection		
	RX: three-phase 380 V - 60 Hz		
	– Continuous running duty S1		
	– Insulation: Class F		
	– Protection rating IP X8		
11	Power cord		
	Type 'H07 RN-F (Schuko plug exclusive to single-phase models)		
	✂ Standard length 5 metres		
12	Float switch (exclusive to single-phase models)		

The diagram shows a vertical cross-section of a submersible pump. At the top, a power cord (11) enters the unit. Below it is a capacitor (9). The main body consists of an outer sleeve (1) and a motor sleeve (5). Inside the sleeve is an electric motor (10) with a motor cover (6) and a motor shaft (7). The shaft is connected to a double mechanical seal (8) with an interposed oil chamber. The seal is located between the motor shaft and the pump shaft. The pump shaft is connected to an impeller (4) which is mounted on a diffuser (3). The diffuser is connected to a suction filter (2). The entire unit is designed for submersion in water.

