

## Submersible pumps

 Dirty water

 Domestic use



### PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m<sup>3</sup>/h)
- Head up to **11 m**

### APPLICATION LIMITS

- **5 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 40 mm**
- Suction down to **50 mm** above ground level
- **240 mm** minimum immersion depth for continuous service

### CONSTRUCTION AND SAFETY STANDARDS

- **5 m** long power cable
- 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

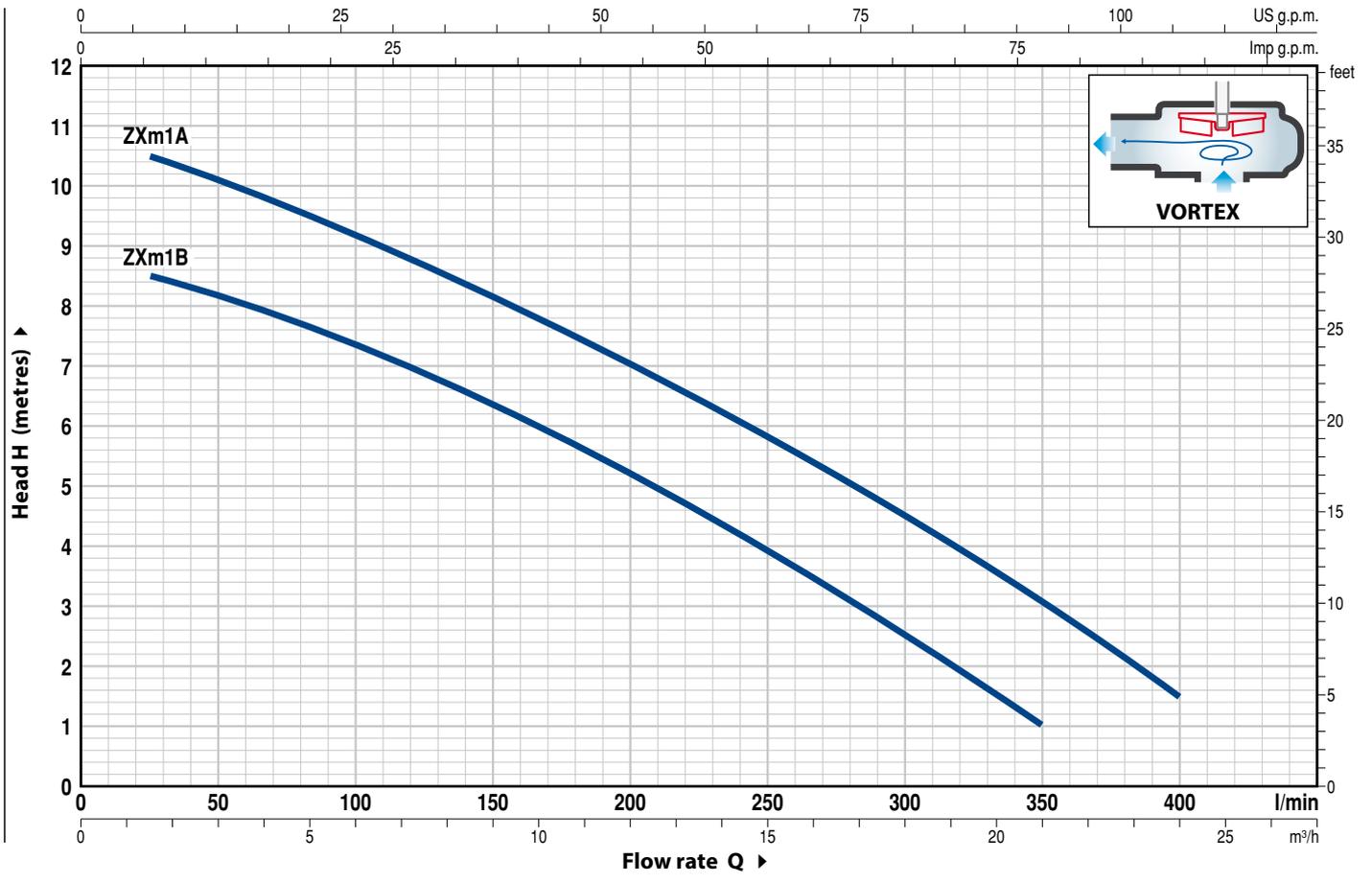
**ZX** series pumps are suitable for draining **dirty water** in domestic applications and for pumping dirty water containing suspended solids up to Ø 40 mm. They distinguish themselves for the ease with which they are installed and their reliability under automatic operating conditions in fixed installations.

### OPTIONS AVAILABLE ON REQUEST

- 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 Single-phase	POWER (P <sub>2</sub> )		Q	Flow rate												
	kW	HP		m <sup>3</sup> /h	0	1.5	3.0	4.5	6.0	9.0	12.0	15.0	18.0	21.0	24.0	
ZXm 1B/40	0.50	0.70	l/min	0	25	50	75	100	150	200	250	300	350	400		
ZXm 1A/40	0.60	0.85	H metres	11	10.5	10	9.5	9.2	8.2	7	5.7	4.3	2.8	1.5		

Q = Flow rate H = Total manometric head

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

**POS. COMPONENT CONSTRUCTION CHARACTERISTICS**

<b>1 PUMP BODY</b>	Cast iron with threaded port in compliance with ISO 228/1			
<b>2 BASE</b>	Stainless steel AISI 304			
<b>3 IMPELLER</b>	Technopolymer VORTEX type			
<b>4 MOTOR SLEEVE</b>	Stainless steel AISI 304			
<b>5 MOTOR CASING</b>	Stainless steel			
<b>6 MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104			
<b>7 SHAFT WITH DOUBLE SEAL</b>				
<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Materials</i>		<i>Elastomer</i>
<b>STA-12R</b>	<b>Ø 12 mm</b>	<i>Stationary ring</i> Ceramic	<i>Rotational ring</i> Graphite	NBR
<b>8 LIP SEAL</b>	<b>Ø 12 x Ø 22 x H 6 mm</b>			
<b>9 BEARINGS</b>	<b>6201 ZZ / 6201 ZZ</b>			

<b>10 CAPACITOR</b>		
<i>Pump</i>	<i>Capacitance</i>	
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
<b>ZXm 1B/40</b>	<b>12.5 µF 450 VL</b>	<b>30 µF - 250 VL</b>
<b>ZXm 1A/40</b>	<b>16 µF 450 VL</b>	<b>30 µF - 250 VL</b>

**11 ELECTRIC MOTOR**

**ZXm:** single-phase 230 V - 50 Hz  
with thermal overload protector incorporated into the winding

- Insulation: class F
- Protection: IP X8

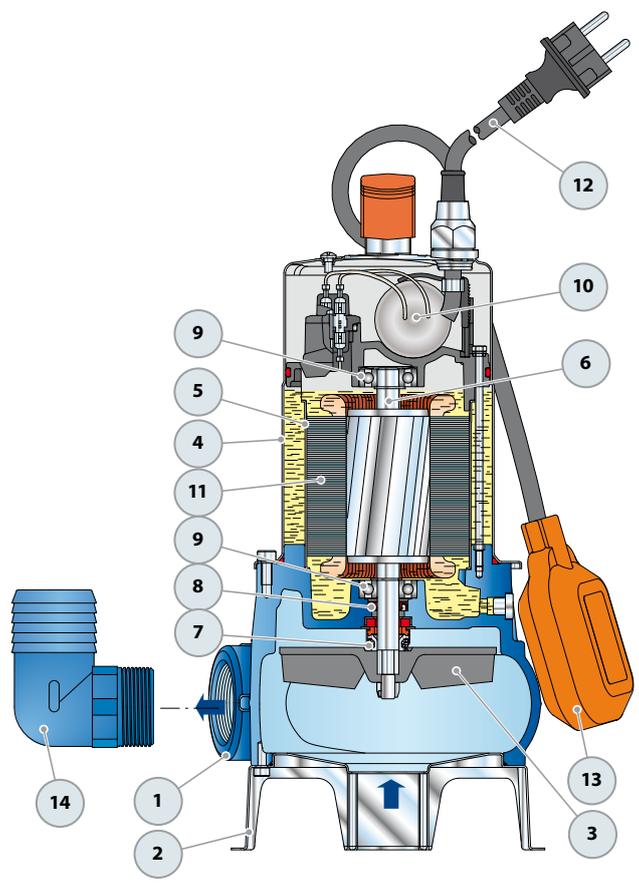
**12 POWER CABLE**

"H07 RN-F" with Schuko plug  
**Standard length 5 metres**

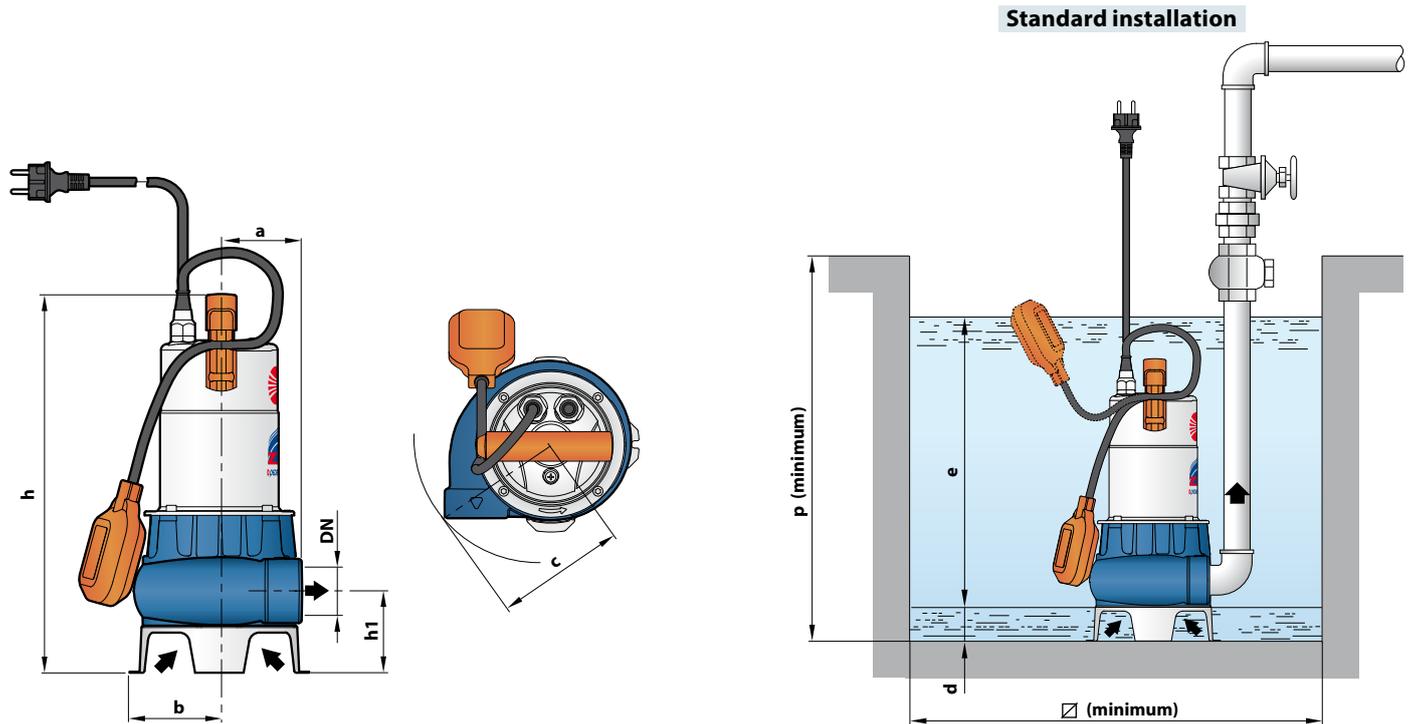
**13 FLOAT SWITCH**  
(only for single-phase versions)

**14 HOSE CONNECTION**

**Ø 50 mm**



## DIMENSIONS AND WEIGHT



MODEL	PORT DN	Passage of solids	DIMENSIONS mm									kg 1~
			a	b	c	h	h1	d	e	p	Ø	
Single-phase	1½"	Ø 40 mm	75	87	130	378	82	50	variable	450	450	11.5
ZXm 1B/40												11.9
ZXm 1A/40												

## ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase			
ZXm 1B/40	3.3 A	3.2 A	6.6 A
ZXm 1A/40	4.5 A	4.4 A	9.0 A

## PALLETIZATION

MODEL	GROUPAGE	CONTAINER
	n. pumps	n. pumps
Single-phase		
ZXm 1B/40	60	80
ZXm 1A/40	60	80