

Submersible pumps

 Dirty water

 Domestic use



PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m³/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



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

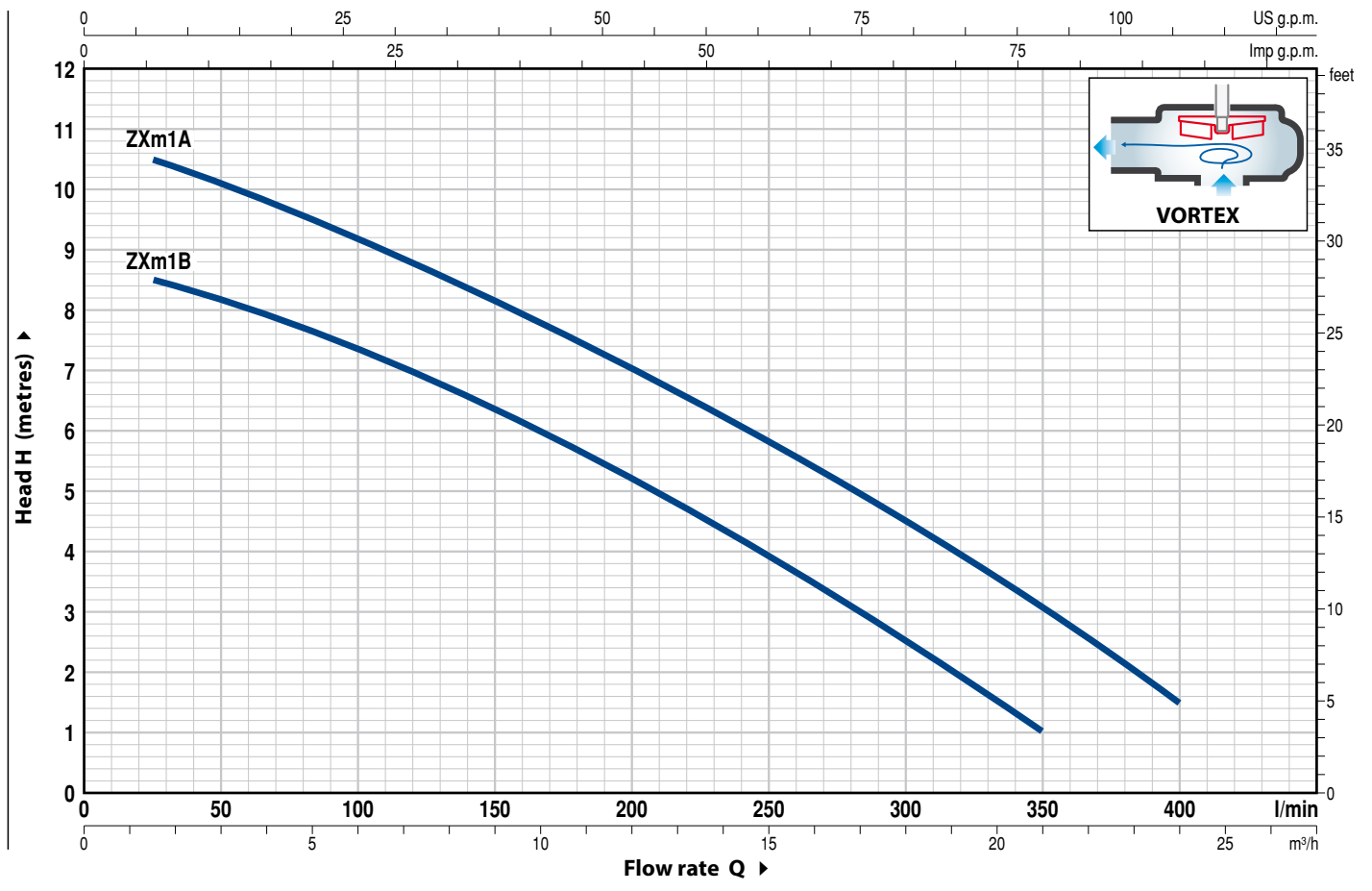
CERTIFICATIONS

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



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



MODEL Single-phase	POWER (P ₂)		Q	Flow rate													
	kW	HP		m ³ /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

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

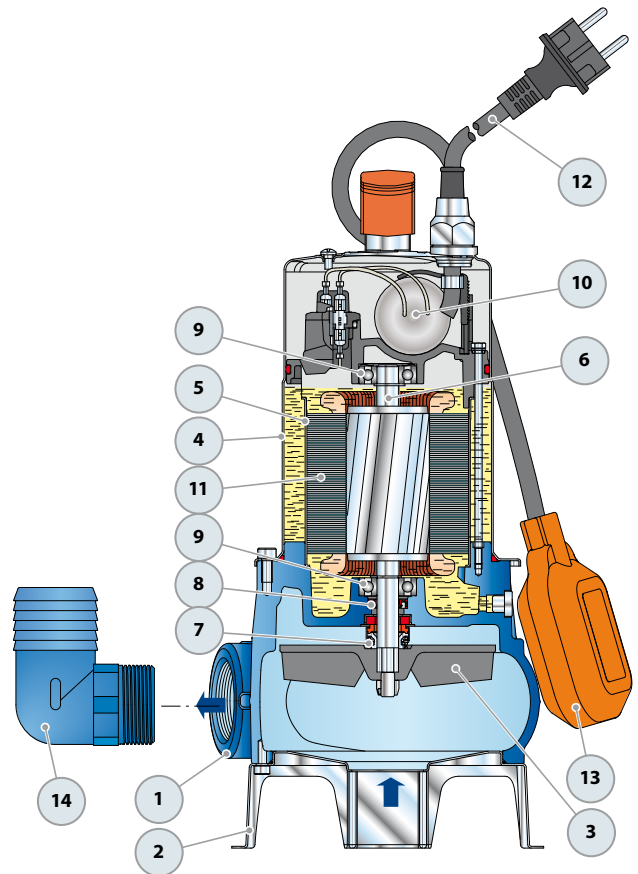
10 CAPACITOR		
<i>Pump</i>	<i>Capacitance</i>	
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
ZXm 1B/40	12.5 µF 450 VL	30 µF - 250 VL
ZXm 1A/40	16 µF 450 VL	30 µF - 250 VL

11 ELECTRIC MOTOR
 ZXm: single-phase 230 V - 50 Hz
 with thermal overload protector incorporated into the winding
 – Insulation: class F
 – Protection: IP X8

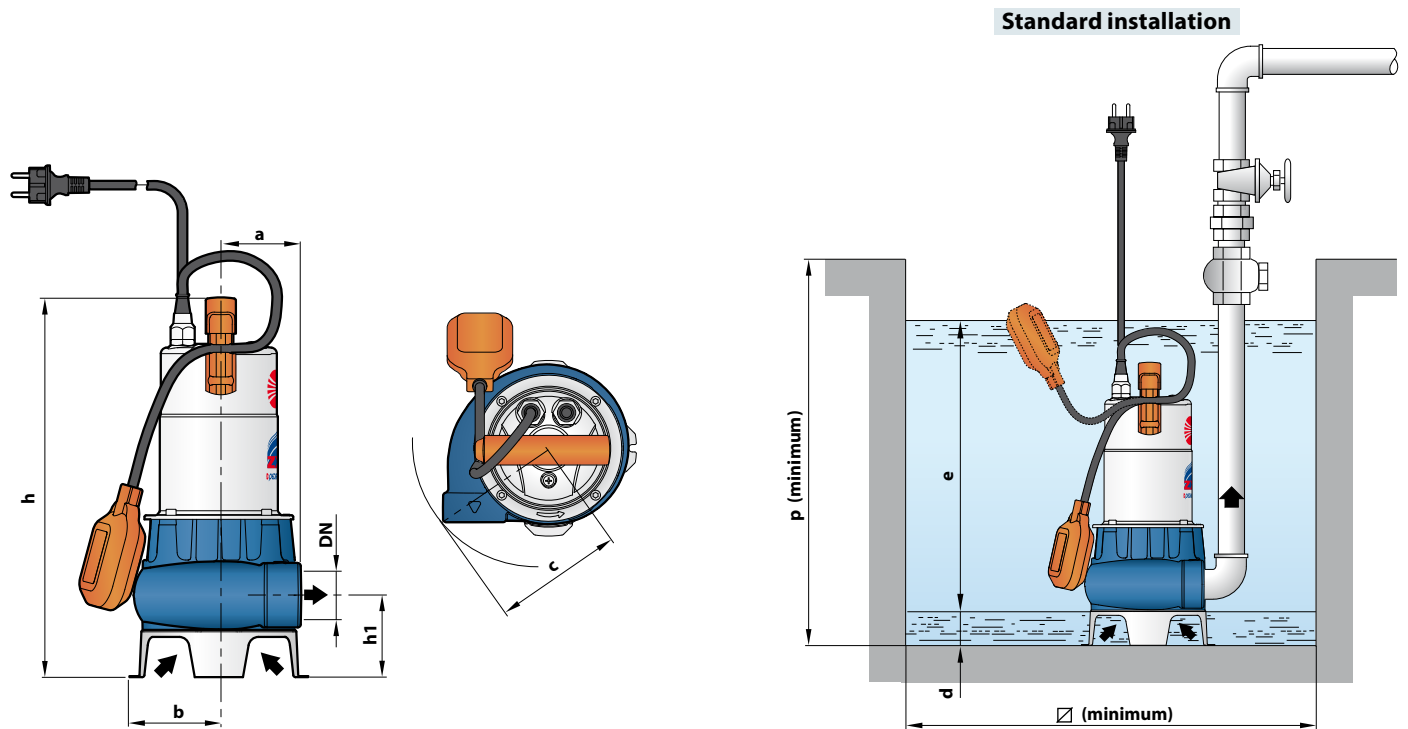
12 POWER CABLE
 "H07 RN-F" with Schuko plug
Standard length 5 metres

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
			a	b	c	h	h1	d	e	p	∅	
Single-phase	1½"	Ø 40 mm	75	87	130	378	82	50	variable	450	450	1~
ZXm 1B/40												11.5
ZXm 1A/40												11.9

ABSORPTION

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

PALLETIZATION

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