ZX "VORTEX"

Submersible pumps

for very dirty water





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

• Complete with **5 m** long power cable

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



CERTIFICATIONS

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



<u>ПРОМТЕСТ - 168</u>

INSTALLATION AND USE

ZX series pumps are suitable for draining **waste 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.

PATENTS - TRADE MARKS - MODELS

• Registered Community Design n° 342159-0015

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
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

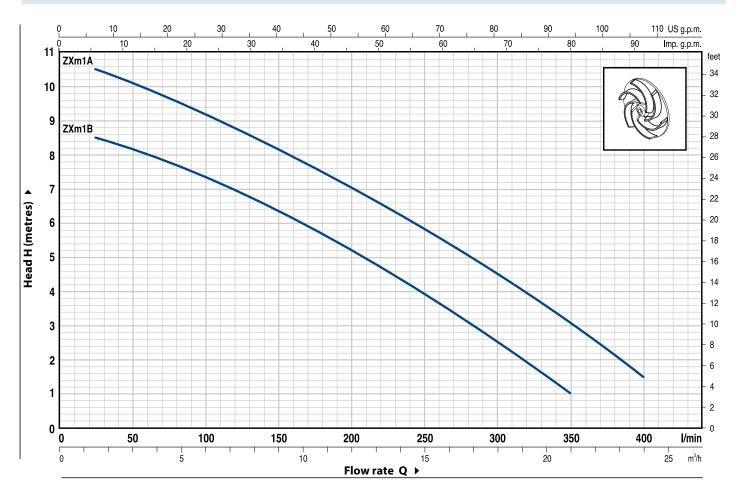
GUARANTEE

2 years subject to terms and conditions



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



MODEL	POWER		m³/h	0	1.5	3.0	4.5	6.0	9.0	12.0	15.0	18.0	21.0	24.0
Single-phase	kW	HP	Q I/min	0	25	50	75	100	150	200	250	300	350	400
ZXm 1B/40	0.50	0.70		9	8.5	8.3	8	7.5	6.5	5.2	4	2.5	1	
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

 $\mathbf{Q} = Flow rate \quad \mathbf{H} = Total manometric head$

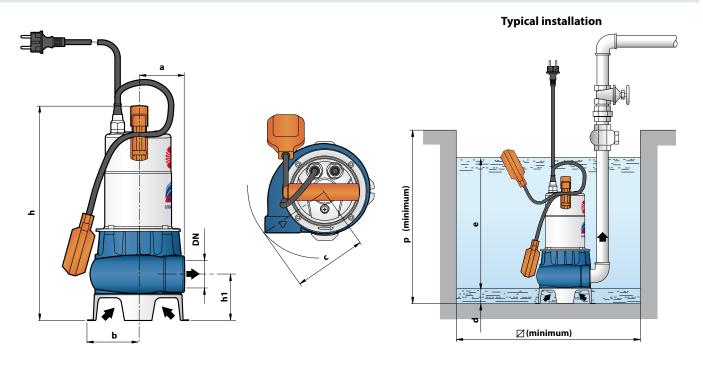
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3.

ZX "VORTEX"

DOC	COMPONENT		NSTRUCTION		
1	PUMP BODY				compliance with ISO 228/1
2	BASE	Sta	inless steel AISI	304	
3	IMPELLER	Tee	chnopolymer VC	RTEX type	
4	MOTOR SLEEVE	Sta	inless steel AISI	304	
5	MOTOR CASING	Ste	el		
6	MOTOR SHAFT	Sta	ainless steel EN 1	0088-3 - 1.410	04
7	SHAFT WITH DO	UBLE SEAL			
	Seal	Shaft		Materials	
	Model	Diameter	Stationary ring	Rotational ring	g Elastomer
	AR-12R	Ø 12 mm	Ceramic	Graphite	NBR
8	LIP SEAL	Ø 12	x Ø 22 x H 6 mr	n	
9	BEARINGS	620	1 ZZ / 6201 ZZ		
10	CAPACITOR				
	Pump	Capacitance			
	Single-phase	- (230 V or 240 V)	(110 V)		
	ZXm 1B/40	12.5 μF 450 V		50 VL	
	ZXm 1A/40	16 μF 450 VL	30 μF 2		
11	ELECTRIC MOTO	R			
	 Single-phase 22 with thermal ov Insulation: F c Protection: IP 2 	verload protector lass.	built-in to the wi	inding.	12
12	POWER CABLE				
	5 metre long "H0)7 RN-F″ cable wit	h Schuko plug		9
13	FLOAT SWITCH				
	(only for single-p	hase versions)			
14	HOSE CONNECT	ION			
	Ø 50 mm				
					11 <u>6</u>
					9
			14		
				(
				(
				(



DIMENSIONS AND WEIGHT



MODEL	PORT	solids	DIMENSIONS mm								kg	
Single-phase	DN	passage	a	b	с	h	h1	d	е	р	Ø	1~
ZXm 1B/40		G 40	75	07	120	270	0.2	50		450	450	11.5
ZXm 1A/40	1½″	Ø 40 mm	75	87	130	378	82	50	variable	450	450	11.7

ABSORPTION

MODEL	VOLTAGE (single-phase)						
Single-phase	230 V	240 V	110 V				
ZXm 1B/40	3.3 A	3.3 A	7.0 A				
ZXm 1A/40	4.5 A	4.5 A	9.0 A				

PALLETIZATION

MODEL	GR	OUPAGE	•	CONTAINER			
Single-phase	n° pumps	H (mm)	kg	n° pumps	H (mm)	kg	
ZXm 1B/40	60	1460	709	80	1900	940	
ZXm 1A/40	60	1460	721	80	1900	956	

