



PERFORMANCE RANGE

- Flow rate up to **300 l/min** (18 m³/h)
- Head up to **14 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 10 mm**
- Suction down to **21 mm** above ground level
- **180 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

Designed to pump **clear or slightly dirty water**, these pumps are suitable for use in domestic applications and in particular for draining flooded areas such as cellars or for emptying tanks and reservoirs; 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

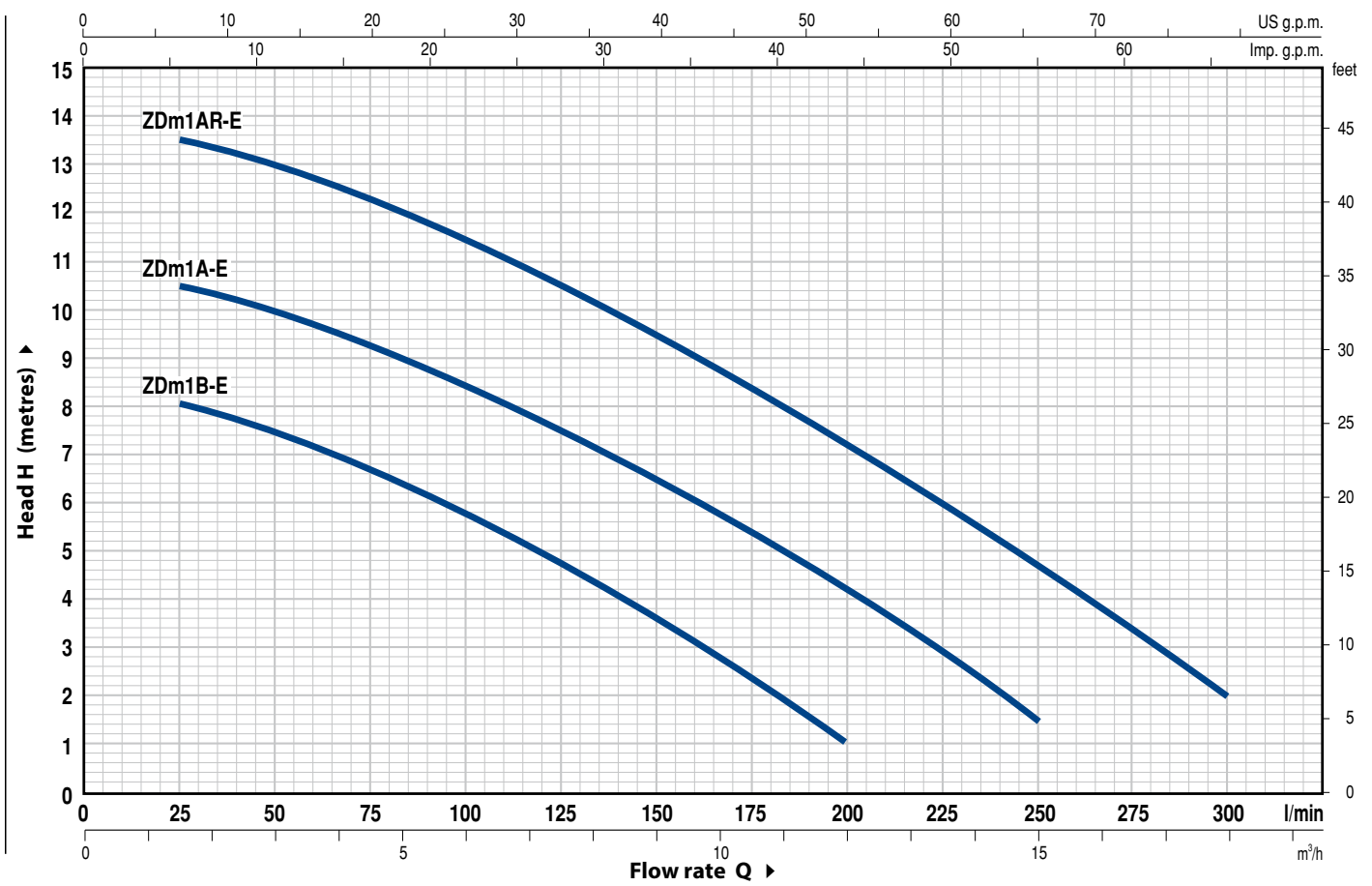
CERTIFICATIONS

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	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	
			l/min	0	25	50	75	100	125	150	175	200	225	250	275	300		
ZDm 1B-E	0.37	0.50	H metres	8.5	8	7.5	6.5	5.5	4.8	3.5	2.5	1						
ZDm 1A-E	0.50	0.70		11	10.5	10	9	8.5	7.5	6.5	5.5	4	2.5	1.5				
ZDm 1AR-E	0.60	0.85		14	13.5	13	12.2	11.5	10.5	9.5	8.3	7	5.7	4.5	3.2	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	Cast iron with threaded port in compliance with ISO 228/1			
2	SUCTION FILTER	Stainless steel AISI 304			
3	SUCTION PLATE	Stainless steel AISI 304			
4	IMPELLER	Noryl FE1520PW open type			
5	MOTOR SLEEVE	Stainless steel AISI 304			
6	MOTOR CASING	Steel			
7	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104			
8	SHAFT WITH DOUBLE SEAL				
	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>		
	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
	STA-12R	Ø 12 mm	Ceramic	Graphite	NBR
9	LIP SEAL	Ø 12 x Ø 22 x H 6 mm			
10	BEARINGS	6201 ZZ / 6201 ZZ			

11	CAPACITOR		
	<i>Pump</i>	<i>Capacitance</i>	
	<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
	ZDm 1B-E	12.5 µF - 450 VL	16 µF - 250 VL
	ZDm 1A-E	12.5 µF - 450 VL	30 µF - 250 VL
	ZDm 1AR-E	16 µF - 450 VL	30 µF - 250 VL

12 ELECTRIC MOTOR

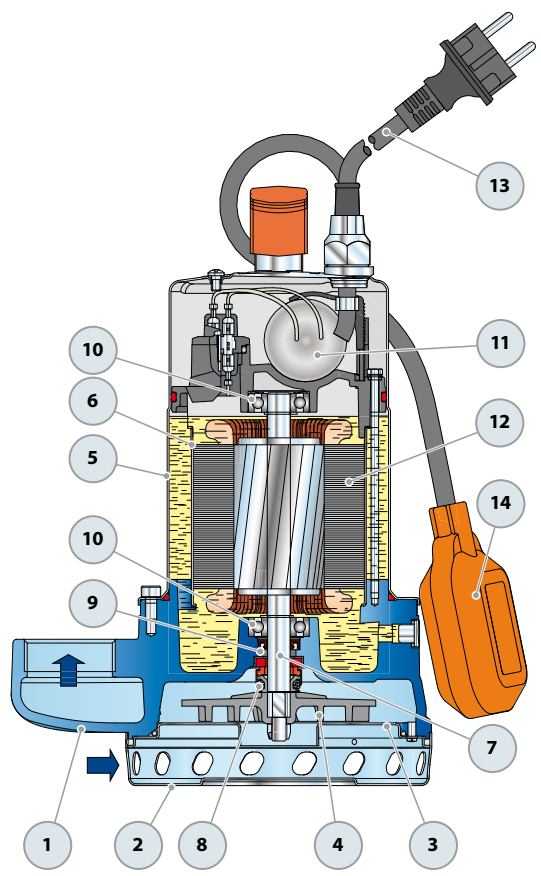
ZDm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding

- Insulation: class F
- Protection: IP X8

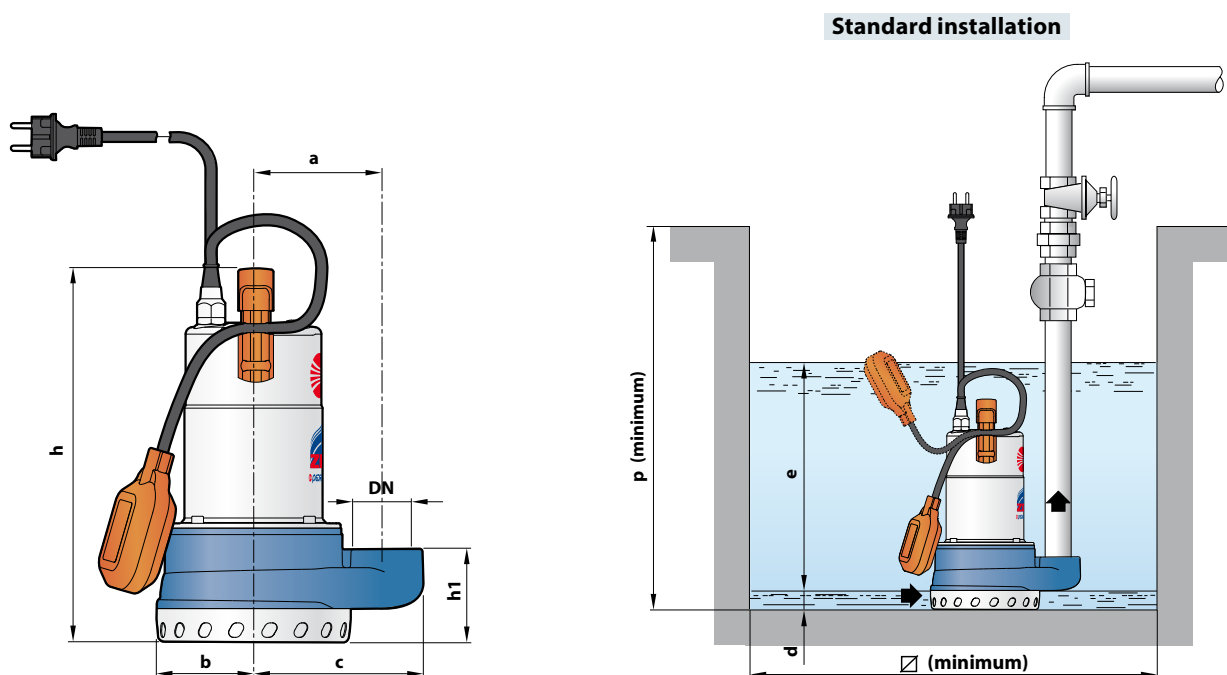
13 POWER CABLE

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

14 FLOAT SWITCH
(only for single-phase versions)



DIMENSIONS AND WEIGHT



MODEL	PORT DN	DIMENSIONS mm									kg	
		a	b	c	h	h1	d	e	p	∅		
Single-phase												
ZDm 1B-E	1½"	110	81	142	316	77	21	variable	450	450	10.9	
ZDm 1A-E											11.5	
ZDm 1AR-E											11.8	

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase			
ZDm 1B-E	2.5 A	2.4 A	5.0 A
ZDm 1A-E	3.3 A	3.2 A	6.6 A
ZDm 1AR-E	4.4 A	4.3 A	9.0 A

PALLETIZATION

MODEL	GROUPAGE	CONTAINER
	n. pumps	n. pumps
Single-phase		
ZDm 1B-E	60	100
ZDm 1A-E	60	100
ZDm 1AR-E	60	100