

ZD

submersible DRAINAGE pumps (for clear water)

Submersible DRAINAGE pumps for domestic use. Economical, compact, reliable, particularly recommended for automatic use in fixed installations. (for clear water)



PERFORMANCE RANGE

Flow rate up to 300 l/min (18 m³/h)
Dynamic head up to 14 m

OPERATING LIMITS

Maximum operating depth 5 m below water level
Maximum fluid temperature + 40°C
Maximum passage for suspended solids Ø 10 mm
Maximum emptying level 15 mm from the bottom

CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1
IEC 335-1
CEI 61-150

EN 60034-1
IEC 34-1
CEI 2-3



PUMP INSTALLATION AND APPLICATIONS

ZD PUMPS ARE DESIGNED TO LIFT CLEAR OR SLIGHTLY DIRTY WATER CHEMICALLY NOT AGGRESSIVE TO THE PUMP COMPONENTS, THESE PUMPS ARE PARTICULARLY SUITED IN DOMESTIC APPLICATIONS FOR DRAINING FLOODED BASEMENTS AND GARAGES AND FOR EMPTYING TANKS; ZD PUMPS ARE SIMPLE TO INSTALL AND RELIABLE FOR AUTOMATIC USE IN FIXED INSTALLATIONS.

A purpose built pit with minimum dimensions 450x450x450h mm is recommended for fixed installations.

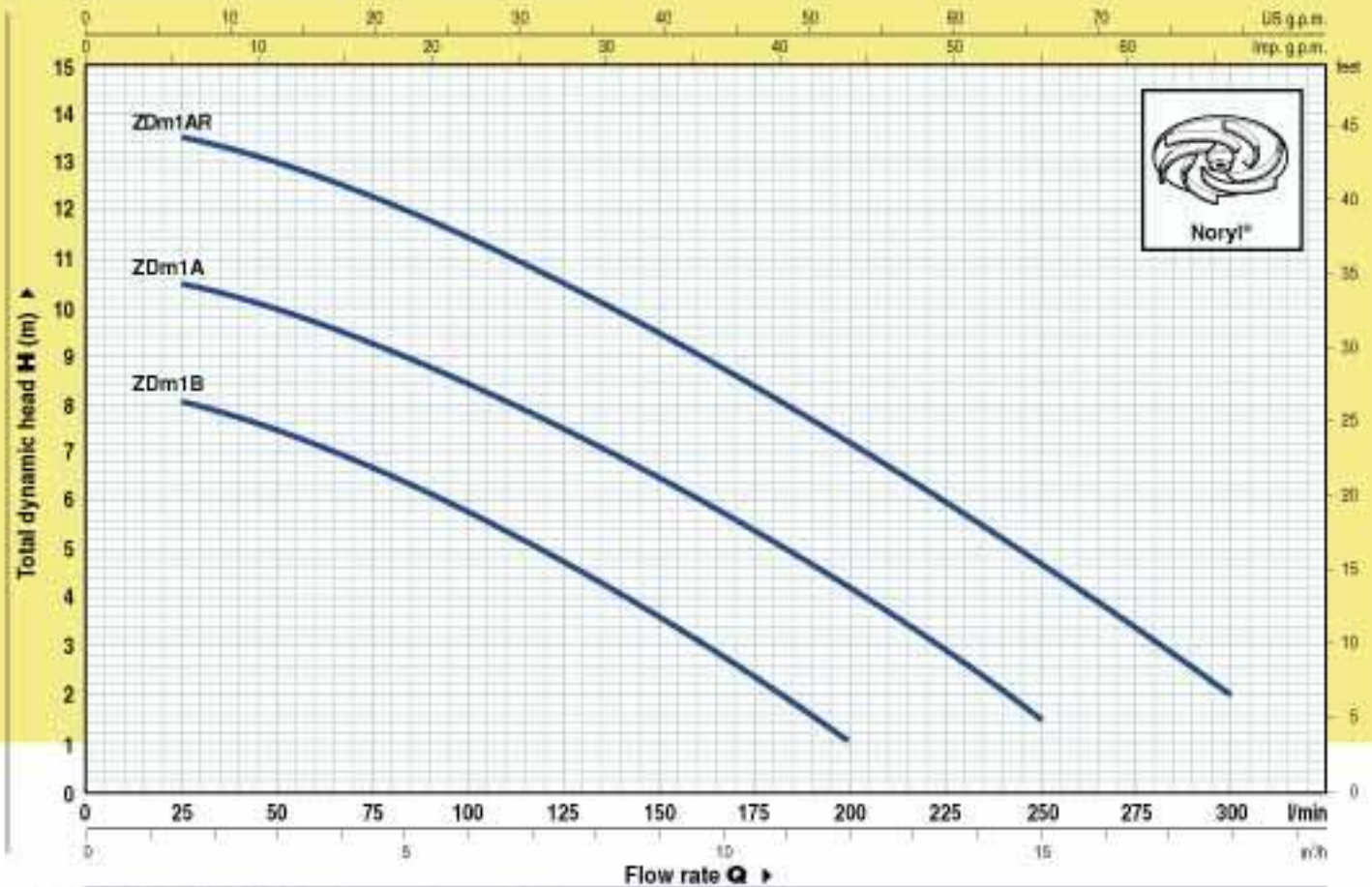
STRUCTURAL CHARACTERISTICS

- PUMP BODY: cast iron, with UNI ISO 228/1 1 1/2" gas threaded delivery opening.
- MOTOR SLEEVE AND SUCTION STRAINER: AISI 304 stainless steel.
- IMPELLER: "General Electric" Noryl® technopolymer, open type.
- MOTOR SHAFT: AISI 416 stainless steel.
- MECHANICAL SEAL: carbon/alumina.
- MOTOR: sealed induction in oil bath designed for continuous duty. The thermal cutout relay (motor protector) is incorporated. INSULATION class B.
- PROTECTION: IP 68.
- SUPPLY CABLE: "H07 RN-F" neoprene submersible. Supplied standard with 5 meters of cable and SCHUKO plug.
- EXTERNAL FLOAT SWITCH: standard equipment.

SPECIAL FEATURES ON REQUEST:

- ⇒ 10 meters supply cable, for pumps intended for outdoor use, length compulsory according to EN 60335-2-41

PERFORMANCE CHART AT n= 2900 1/min

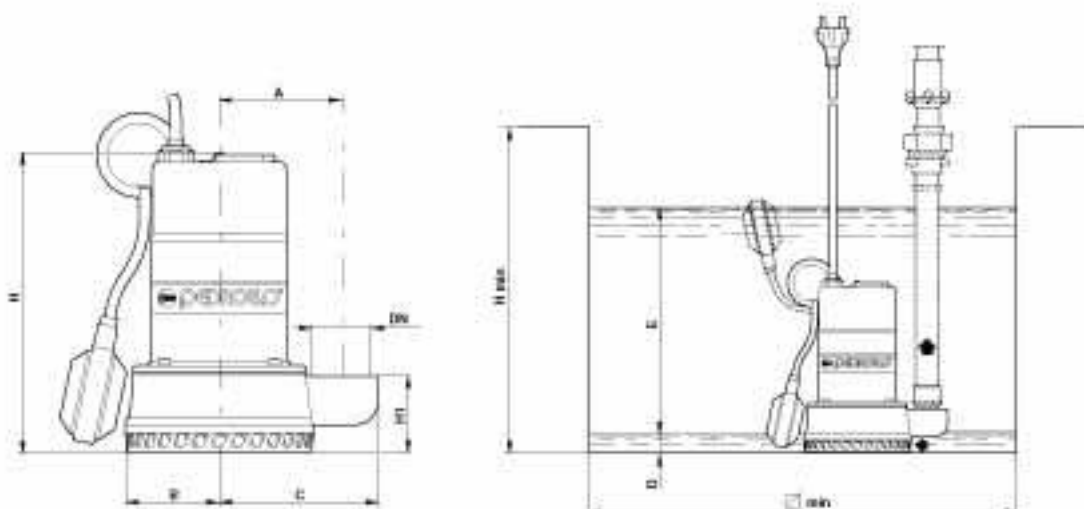


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL Single phase	POWER		Flow rate Q															
	kW	HP	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			
			0	25	50	75	100	125	150	175	200	225	250	275	300			
ZDm 1B	0.37	0.50	8.5	8	7.5	6.5	5.5	4.8	3.5	2.5	1							
ZDm 1A	0.50	0.70	11	10.5	10	9	8.5	7.5	6.5	5.5	4	2.5	1.5					
ZDm 1AR	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 DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL Single phase	DN	DIMENSIONS mm								
		A	B	C	H	H1	D min	E	H min	∅ min
ZDm 1B	1 1/2"	105	81	136	258	66	15	Adjustable	450	450
ZDm 1A	1 1/2"	105	81	136	258	66	15	Adjustable	450	450
ZDm 1AR	1 1/2"	105	81	136	273	66	15	Adjustable	450	450