

RBMS Series

4" monoblock submersible pumps



-  Clean water
(Maximum sand content 150 g/m³)
-  Domestic use
-  Civil use
-  Agricultural use

PERFORMANCE RANGE

- Flow rate up to **150 l/min** (9 m³/h)
- Head up to **128 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **150 g/m³**
- Maximum immersion depth of **60 m** with a sufficiently long power cable
- Vertical and horizontal installation
- Starts/hour: **20** at regular intervals
- Continuous service **S1**

INSTALLATION AND USE

Rain Bird Monoblock Submersible (RBMS) pumps are designed to pump from wells containing up to 150 g/m³ sand content. RBMS pumps are highly efficient and reliable and therefore recommended for use in a variety of domestic and commercial applications.

WARRANTY

3 years subject to terms and conditions.

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

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



EU REGULATION N. 547/2012

CERTIFICATIONS

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

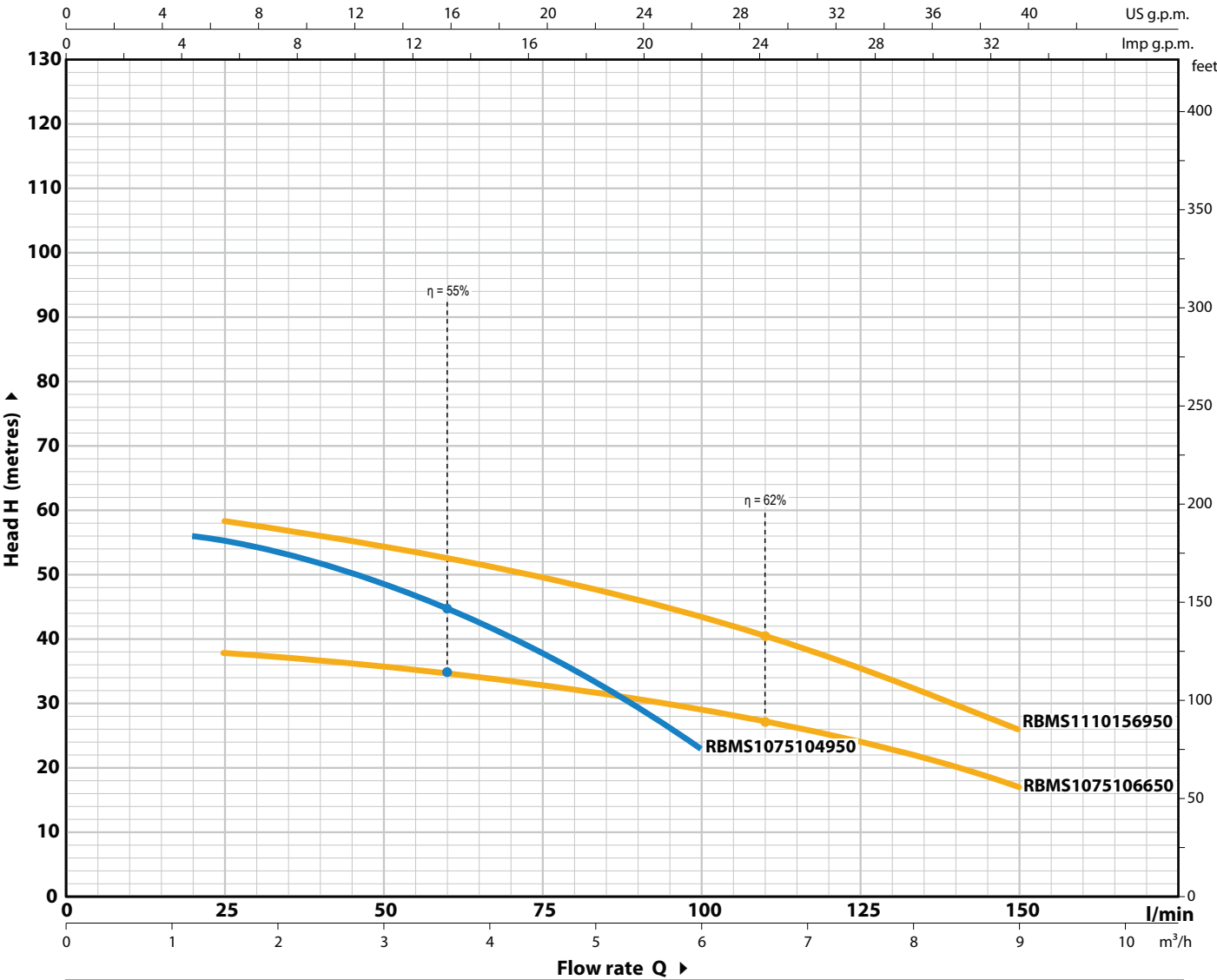


➡ **Ready to install, stainless steel monoblock submersible pump**

Complete with: – motor with built-in capacitor and thermal overload protector
– 30 m long power cable

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



MODEL	POWER (P ₂)		Q	m³/h	0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
Single-phase	kW	HP		l/min	0	20	30	40	50	60	70	80	90	100
RBMS1075104950	0.75	1	H metres	60	56	54.5	52	49	45	40.5	35	29	23	

MODEL	POWER (P ₂)		Q	m³/h	0	1.5	3.0	4.5	6.0	7.5	9.0
Single-phase	kW	HP		l/min	0	25	50	75	100	125	150
RBMS1075106650	0.75	1	H metres	40	38	36	33	29	24	17	
RBMS1110156950	1.1	1.5		61	58	54	50	44	35	26	

Q = Flow rate H = Total manometric head

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

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	DELIVERY BODY AND EXTERNAL SLEEVE	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.
2	IMPELLERS	Lexan 141-R
3	DIFFUSERS	Noryl FE1520PW
4	STAGE CASING	Stainless steel AISI 304
5	PUMP SHAFT	Stainless steel AISI 304
6	PUMP BEARINGS	Special technopolymer housing with stainless steel AISI 316, chrome oxide coated, sand resistant shaft bushing.
7	DRIVE COUPLING	Stainless steel AISI 316L
8	CABLE COVER	Stainless steel AISI 304
9	MOTOR SHAFT	Stainless steel EN 10088-3 1.4104 (AISI 431 per 1.1 kW single-phase)
10	MOTOR SLEEVE	Stainless steel AISI 304

11 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Shaft	Position	Materials		
Diameter		Stationary ring	Rotational ring	Elastomer
Ø 17 mm	Motor side	Ceramic	Graphite	NBR
Ø 16 mm	Pump side	Silicon carbide	Graphite	NBR

12 BEARINGS

Pump	Model
RBMS – 0.55÷0.75 kW	6203 2RS - C3E / 6203 ZZ - C3E
RBMS – 1.1 kW	3203B 2RS - C3 / 6203 ZZ - C3E

13 CAPACITOR

Pump	Capacitance
Single-phase	(230 V or 240 V)
RBMS – 0.55 kW	20 µF - 500 VL
RBMS – 0.75 kW	31.5 µF - 500 VL
RBMS – 1.1 kW	35 µF - 500 VL

14 ELECTRIC MOTOR

Submersible motor, suitable for continuous duty (with dry, rewindable stator).

RBMS: single-phase 230 V - 50 Hz

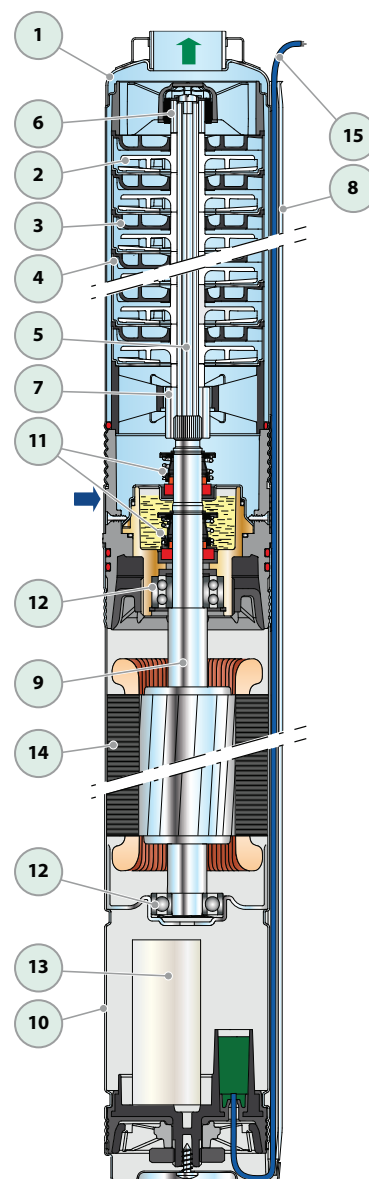
Motor with built-in capacitor.

Thermal overload protector incorporated into the winding.

- Insulation: class F
- Protection: IP X8

15 POWER CABLE

- ➡ **PBS-P type**
approved for use in drinking water by "ACS"
in compliance with BS 6920, approval n. 04 ACCL 201
Standard length 30 metres



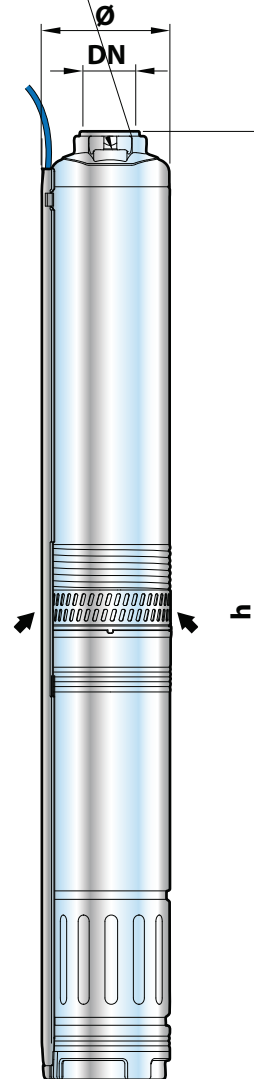
DIMENSIONS AND WEIGHT

MODEL	PORT DN	DIMENSIONS mm			kg
		N. STAGES	Ø	h	
Single-phase					1~
RBMS1075102960	1 1/4"	9	100	727-702	13.8
RBMS1075104660		6		692-667	13.3
RBMS1110156660		6		812-733	16.5

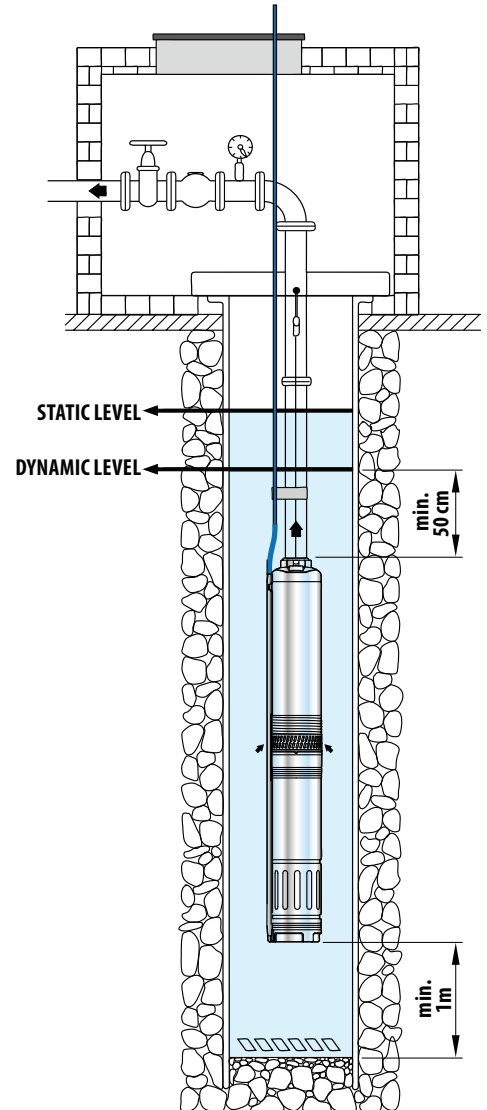
ABSORPTION

MODEL	VOLTAGE	
	230 V	240 V
Single-phase		
RBMS - 0.55 kW	5.0 A	4.8 A
RBMS - 0.75 kW	6.0 A	5.8 A
RBMS - 1.1 kW	8.0 A	7.8 A

Safety cable
anchorage point



Standard installation



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