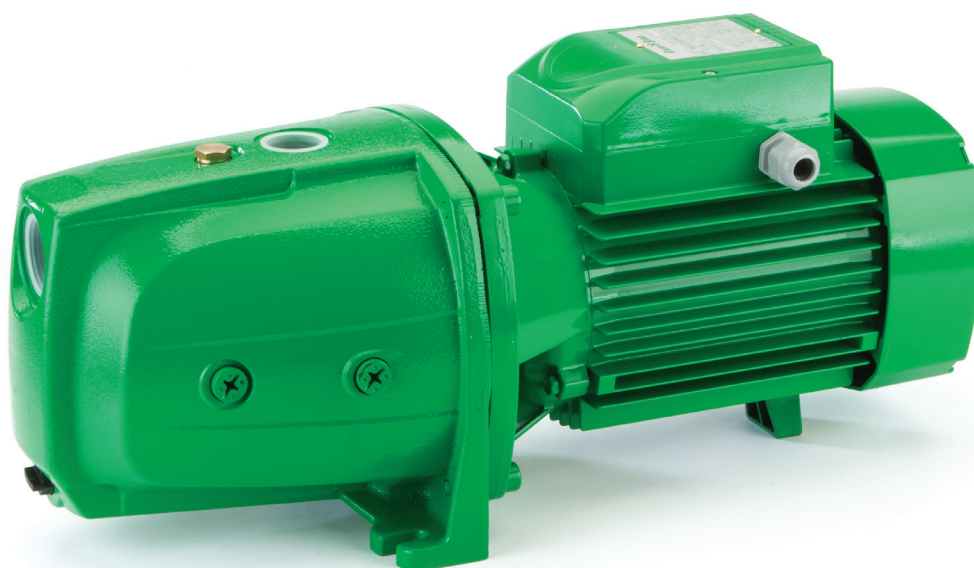


RBSC 2 - 3 HP Series

Self-priming Centrifugal Pumps

-  Clean water
-  Domestic use
-  Civil use
-  Industrial use



PERFORMANCE RANGE

- Flow rate up to **160 l/min** (9.6 m³/h)
- Head up to **96 m**

APPLICATION LIMITS

- Manometric suction lift up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **10 bar**
- Continuous service **S1**

INSTALLATION AND USE

Rain Bird Self-priming Centrifugal (RBSC) pumps are designed for use with clean water and liquids that are not chemically aggressive. They're also designed to pump water in cases where air is present. RBSC pumps are reliable and easy to use and therefore recommended for use in domestic, commercial, and industrial applications. RBSC pumps should be installed in an enclosed environment or sheltered from inclement weather.

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



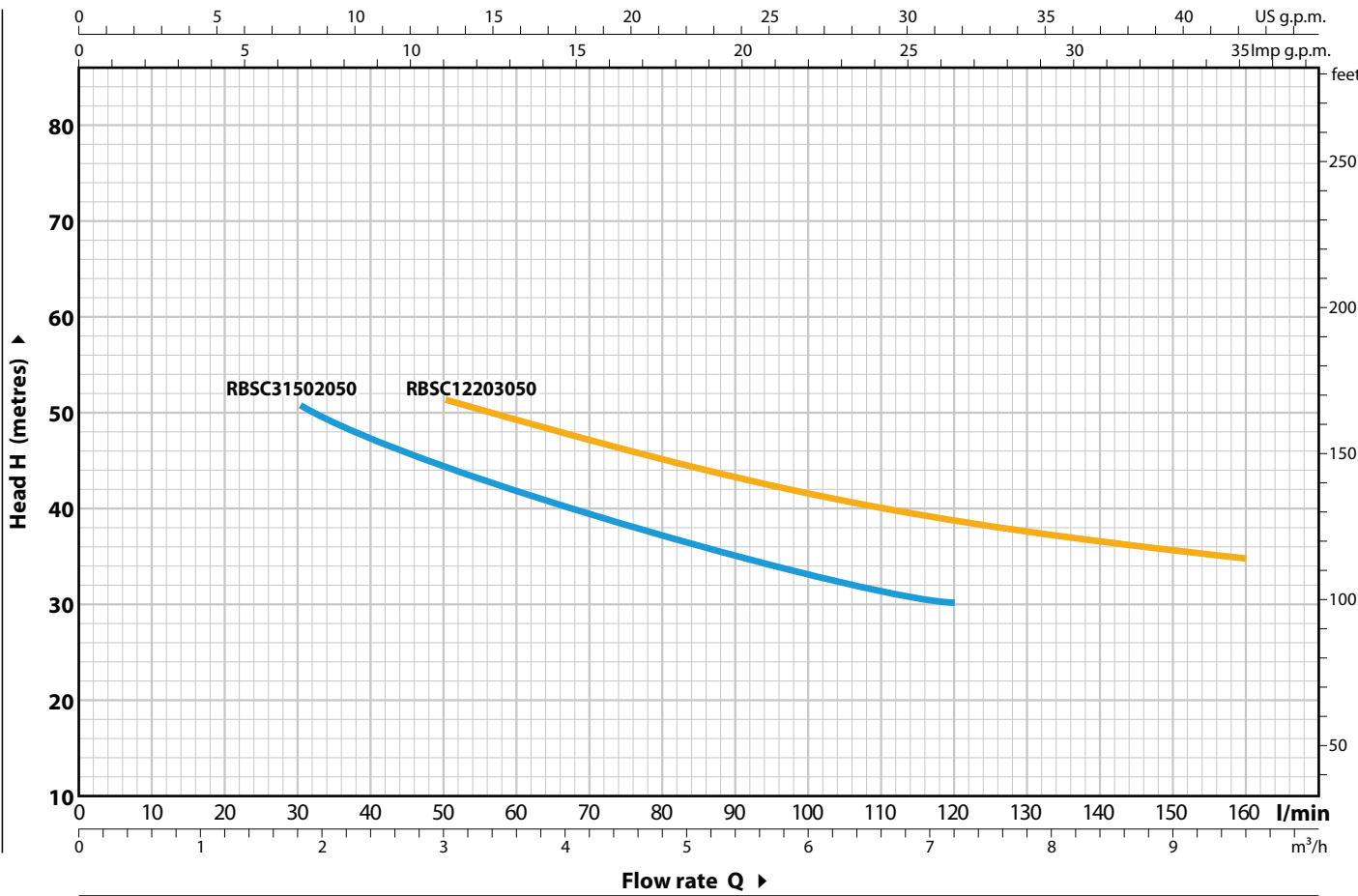
CERTIFICATIONS

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



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm HS= 0 m

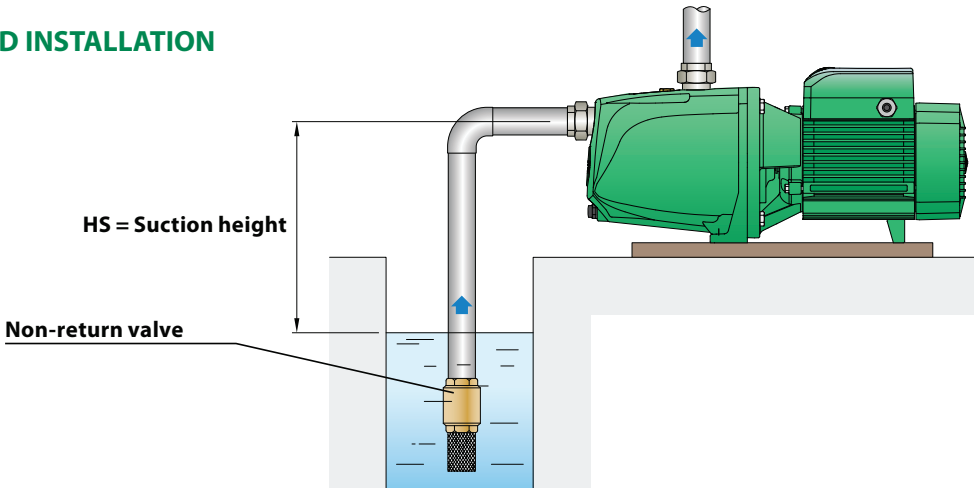


MODEL		POWER (P ₂)			▲	Q																
Single-phase	Three-phase	kW	HP				m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	6.0	7.2	8.4	9.6		
					l/min	0	10	20	30	40	50	60	70	80	100	120	140	160				
RBSC11502050	RBSC31502050	1.5	2	IE3	H metres	60	58	54	51	47	45	42	39	37	33	30						
RBSC12203050	RBSC32203050	2.2	3			62	60	57	55	53	51	49	47	45	42	39	36.5	35				

Q = Flow rate H = Total manometric head HS = Suction height
▲ Performance class of the three-phase motor (IEC-60034-30)

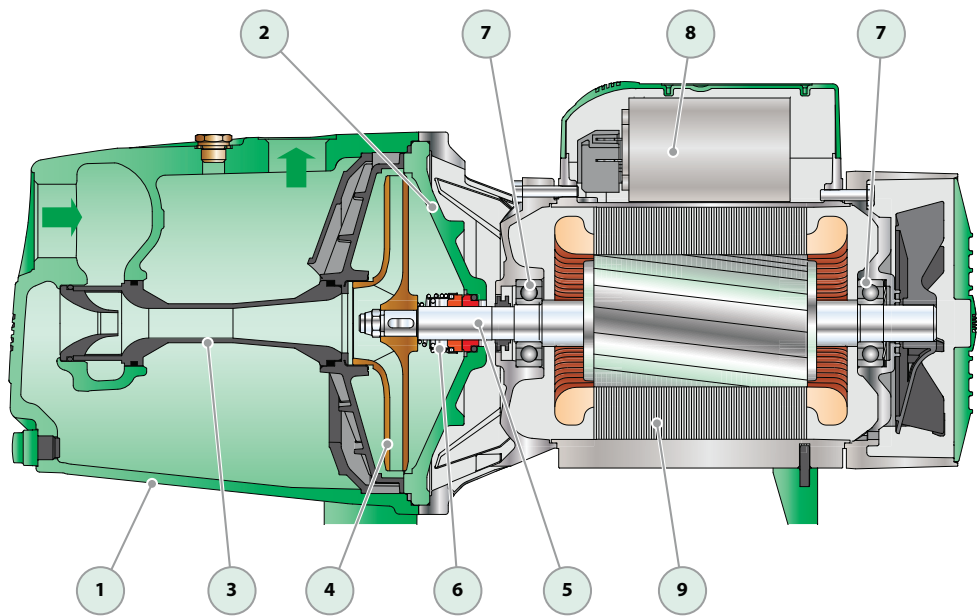
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

STANDARD INSTALLATION

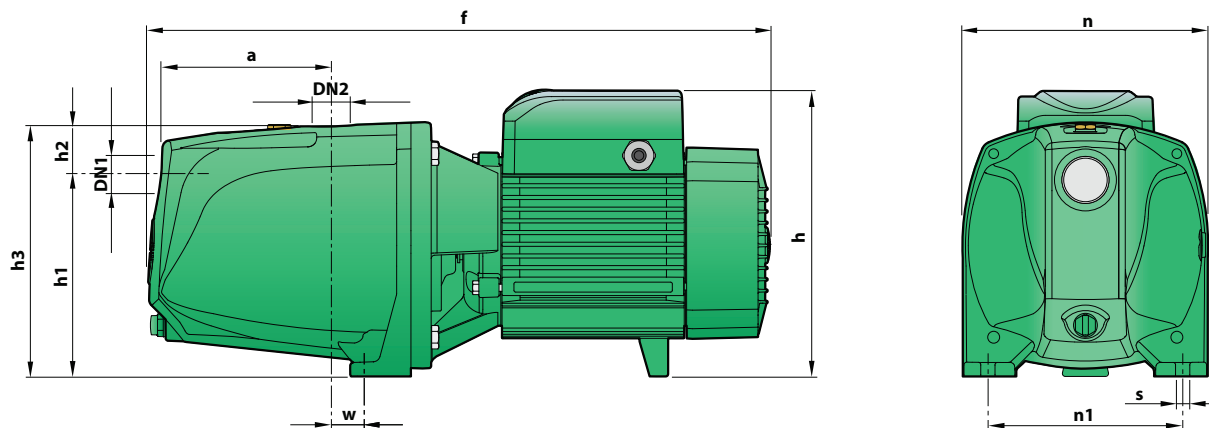


POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1			
2	BODY BACKPLATE	Cast iron			
3	NOZZLE ASSEMBLY	Noryl FE1520PW			
4	IMPELLER	Brass			
5	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104			
6	MECHANICAL SEAL	<i>Shaft</i>	<i>Materials</i>		
		<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		Ø 18 mm	Graphite	Ceramic	NBR
7	BEARINGS	6204 ZZ / 6204 ZZ			
8	CAPACITOR	<i>Pump</i>	<i>Capacitance</i>		
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>	
		RBSC11502050	31.5 µF - 450 VL	60 µF - 250 VL	
		RBSC12203050	45 µF - 450 VL	80 µF - 250 VL	
9	ELECTRIC MOTOR	RBSC: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. RBSC: three-phase 230/400 V - 50 Hz. ➡ The three-phase pumps are fitted with high performance motors up to P2=1.1kW in class IE2 and from P2=1.5kW in class IE3 (IEC 60034-30) – Insulation: class F – Protection: IP X4			



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm										kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	n	n1	w	s	1~	3~
RBSC11502050	RBSC31502050	1 1/4"	1"	141.5	522	241	165	44	209	206	164	30	11	26.5	25.5
RBSC12203050	RBSC32203050													-	26.8

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
RBSC11502050	9.3 A	8.5 A	18.6 A
RBSC12203050	—	—	—

MODEL	VOLTAGE					
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
RBSC31502050	7.3 A	4.2 A	2.4 A	7.0 A	4.0 A	2.3 A
RBSC32203050	9.5 A	5.5 A	3.2 A	9.1 A	5.3 A	3.1 A

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