EVOSTA WET ROTOR ELECTRONIC CIRCULATORS





in line with European Directive ErP 2009/125/EC (formerly EuP) of 2015

APPLICATIONS

Low energy consumption electronic pump for hot water circulation in all types of domestic heating systems.

ADVANTAGES

Thanks to the advanced technology employed, the permanent magnet synchronous motor, and the frequency converter, the new range of EVOSTA

TECHNICAL DATA

Protection class: IP 44. Insulation class: E

Working pressure: 10 bar (1000 kPa).

Installation: with horizontal motor axis.

Operating range: 0,4-3,3 m³/h with head up to 6,9 metres. **Pumped liquid temperature range:** from +2 °C to +95 °C.

Standard power input: single-phase 1 x 230 V~ 50/60 Hz.

chemically neutral, with properties similar to water (glycol max 30%).

circulators ensures high efficiency in all applications, with significant benefits in terms of energy saving. For this reason, the new EVOSTA circulator not only complies with European Directive ErP 2009/125/EC (formerly EuP) (EEI < 0,23). The circulator has a built-in electronic device that detects the changes demanded by the system, and automatically adapts the circulator performance accordingly, always ensuring optimum efficiency and minimum energy consumption.

The EVOSTA circulator is also suitable for replacing old three-speed circulators, both as far as size, as it has the same dimensions of the VA series, and for its capability of covering pumps with heads of 4, 5, and 6 metres with one single model. It can also simplify the work of the user, thanks to a single sequential setting button and a breather plug used to degas the system and unlock the motor shaft if required. The EVOSTA circulator can operate in 2 different modes:

• proportional differential pressure



• Fixed curve



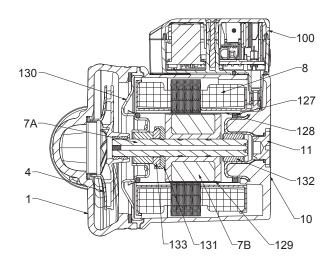
CONSTRUCTION FEATURES

Cast iron pump body and wet rotor motor. Die-cast aluminium motor casing. Technopolymer impeller. Ceramic motor shaft on graphite bushings lubricated by the pumped liquid. Stainless steel rotor liner, stator liner and closing flange. Ceramic thrust ring. EPDM seal ring and brass air breather plug. Thanks to the internal protection of the motor, the pump does not require overload protection.

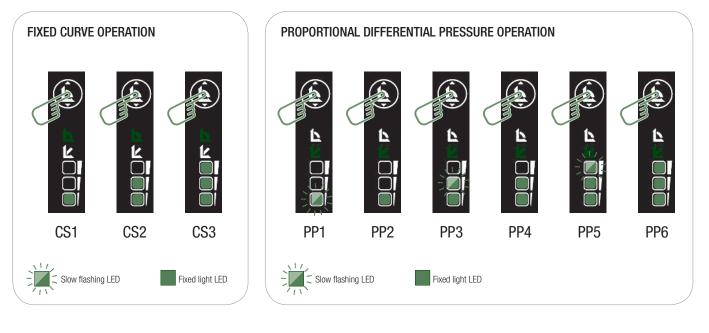


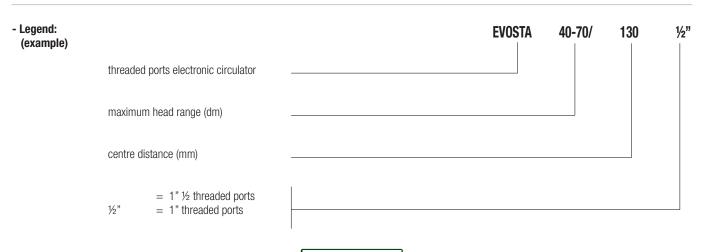
MATERIALS

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON
4	IMPELLER	TECHNOPOLYMER
7A	MOTOR SHAFT	CERAMIC
7B	ROTOR	MAGNET
8	STATOR	-
10	MOTOR CASING	DIE-CAST ALUMINIUM
11	BREATHER PLUG	BRASS
100	ELECTRONIC BOX	TECHNOPOLYMER
127	SEAL RING	EPDM
128	STATOR LINER	STAINLESS STEEL
129	ROTOR LINER	STAINLESS STEEL
130	CLOSING FLANGE	STAINLESS STEEL
131	THRUST RING SUPPORT	EPDM
132	BUSHINGS	GRAPHITE
133	THRUST RING	CERAMIC



OPERATING MODES

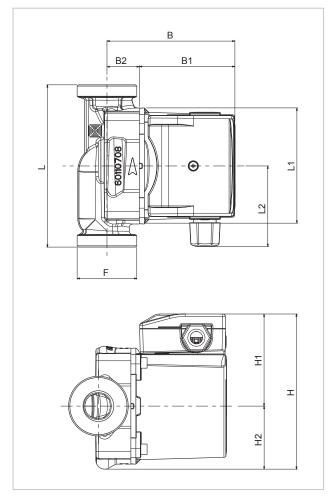


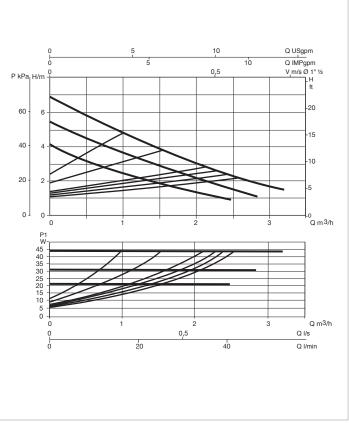


W A T E R • T E C H N O L O G Y



EVOSTA - ELECTRONIC CIRCULATORS FOR DOMESTIC HEATING SYSTEMS - SINGLE, WITH UNIONS Pumped liquid temperature range: from +2 °C to +95 °C - Maximum operating pressure: 10 bar (1000 kPa)





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	Q=m ³ /h	0	0,6	1,2	1,8	2,4	3
MODEL	Q=I/min	0	10	20	30	40	50
EVOSTA 40-70/130		6,88	5,5	4,42	3,35	2,41	1,71
EVOSTA 40-70/130 1/2"	H (m)	6,88	5,5	4,42	3,35	2,41	1,71
EVOSTA 40-70/180		6,88	5,5	4,42	3,35	2,41	1,71

MODEL	CENTRE DISTANCE mm	UNIONS ON REQUEST		POWER INPUT	P1 MAX	In	EEI *	MINIMUM SUCTION PRESSURE		
MIUDEL		STANDARDISED	SPECIAL	50 Hz	W	A	CCI	ť°	90 °	
EVOSTA 40-70/130	130	1" F	34" F - 11⁄4" M	1 x 230 V ~	6 44	0,08 0,38	EEI ≤ 0,23	m.c.w.	10	
EVOSTA 40-70/130 1/2"	130	1⁄2" F	-	1 x 230 V ~	6 44	0,08 0,39	EEI ≤ 0,23	m.c.w.	10	
EVOSTA 40-70/180	180	1‴ F	¾" F - 1¼" M	1 x 230 V ~	6 44	0,08 0,38	$EEI \leq 0,23$	m.c.w.	10	

The parameter of reference for the more efficient circulators is $\text{EEI} \ge 0,20$.

MODEL		14	L1 L2	В	B1	B2	Н	H1	H2	F	PACKING DIMENSIONS			VOLUME V	WEIGHT
WODEL	L										L	В	Н	m ³	kg
EVOSTA 40-70/130	130	93	59	102,5	76,5	26	124	73,5	50,5	1"1/2	135	135	150	0,0027	2,4
EVOSTA 40-70/130 1/2"	130	93	59	102,5	76,5	26	124	73,5	50,5	1"	135	135	150	0,0027	2,4
EVOSTA 40-70/180	180	93	59	102,5	76,5	26	124	73,5	50,5	1"1/2	130	190	150	0,0037	2,8

