

EVOSTA

ELECTRONIC CIRCULATOR FOR HEATING SYSTEMS



EVOSTA

WET ROTOR ELECTRONIC CIRCULATORS



TECHNICAL DATA

Operating range: 0.8 - 13.2 gpm with head up to 18 ft.

Pumped liquid temperature range: from +36 °F (2°C) to +203 °F (95°C).

Working pressure: 145 psi 10 bar (1000 kPa).

Protection class: IP 44. Insulation class: F.

Installation: with horizontal motor axis.

Standard power input: single-phase 1 x 110-127 V~ 60 Hz.

Pumped liquid: Clean, free of solids and mineral oils, non-viscous, chemically

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

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** circulators ensures high efficiency in all applications, with significant benefits in terms of energy saving. 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 up to 18 feet 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 3 different modes:

• proportional differential pressure

3 curves

• constant differential pressure

3 curves

• Fixed curve

3 curve

CONSTRUCTION FEATURES

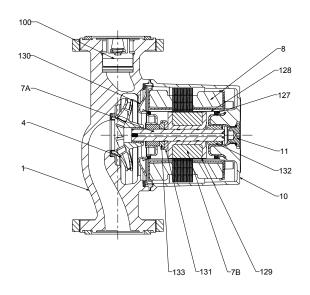
Cast iron pump body and wet rotor motor. Die-cast aluminium motor casing. Technopolymer impeller. Ceramic motor shaft on graphite bushings lubricated by the pumped liquid. Stainless steel rotor liner, stator liner and closing flange. Ceramic thrust ring. EPDM seal ring and brass air breather plug. Thanks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



WET ROTOR ELECTRONIC CIRCULATORS

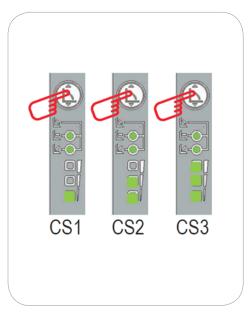
MATERIALS

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON
4	IMPELLER	TECHNOPOLYMER ULTEM
7A	MOTOR SHAFT	CERAMIC
7B	ROTOR	MAGNET
8	STATOR	-
10	MOTOR CASING	DIE-CAST ALUMINIUM
11	BREATHER PLUG	BRASS
100	CHECK VALVE	TECHNOPOLYMER PPE
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

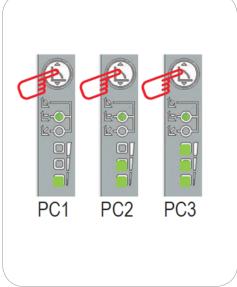


OPERATING MODES

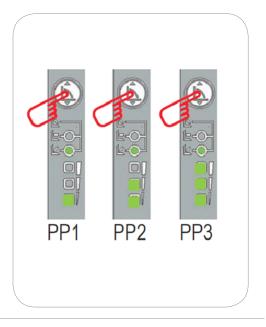
CONSTANT SPEED OPERATION



CONSTANT PRESSURE OPERATION



PROPORTIONAL PRESSURE OPERATION



2 BOLT FLANGE



CHECK VALVE



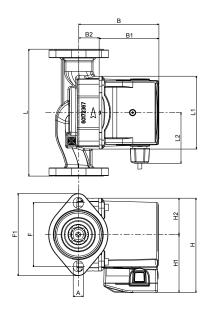
360° Rotation around a vertical access

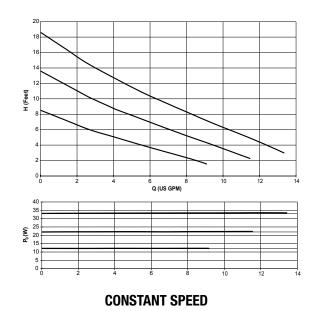


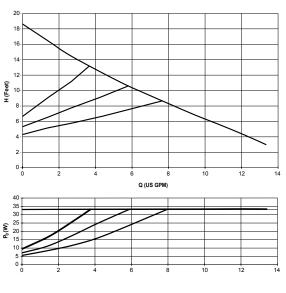


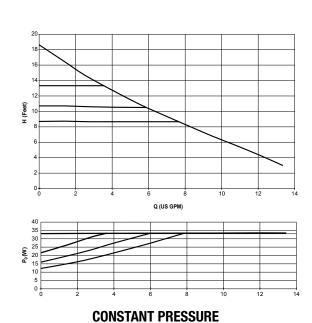
EVOSTA - ELECTRONIC CIRCULATORS FOR DOMESTIC HEATING SYSTEMS - SINGLE, WITH UNIONS

Pumped liquid temperature range: from +36 °F to +203 °F - Maximum operating pressure: 145 psi 10 bar (1000 kPa)









PROPORTIONAL PRESSURE

The performance curves are based on kinematic viscosity values = 1 mm 2 /s and density equal to 1000 kg/m 3 . Curve tolerance according to ISO 9906.

MODEL	Q=gpm	0	2	4	6	8	10	12	
EVOSTA 110-127v	H (ft)	18.4	15.5	12.8	10.3	8.2	6.2	4.3	

MODEL	CENTRE DISTANCE	FLANGE	POWER INPUT	P1 MAX	In	EEI *	MINIMUM SUCTION PRESSURE		
MODEL	mm	FLANGE	60 Hz	W	A	CCI	t°	194 °F	
EVOSTA 110-127v	6 3/, "	OVAL 2 BOLT	1 x 110-127 V ~	12 34	0.19 0.50	EEI ≤ 0,23	ft.c.w.	32.8	

MODEL		14	12	D	B1	B2	D2	D2	ш	ш	Н Н1	H1 H2		LO A	E E1			PACKI	NG DIMEN	SIONS	VOLUME	WEIGHT	
WIODEL	L	LI	LZ	D	DI	DZ	п	пі	П2	A	Г	rı .	L	В	Н	ft ³	lbs						
EVOSTA 110-127v	6 3/8"	3 2/3"	2 1/3"	4"	3"	1 1/32"	4 3/4"	2 7/8"	2"	1/_"	3 ⁷ / ₆₄ 3 ¹⁵ / ₆₄ "	4 9/_"	5 1/8"	7 1/2"	5 29/32 "	0.095	5.29						

