

DAB[®]

WATER • TECHNOLOGY

EVOSTA 2 EVOSTA 2C

ELECTRONIC CIRCULATOR FOR HOT WATER





EVOSTA 2 EVOSTA 2d

ELECTRONIC
CIRCULATORS



Display (d- version)
Shows the real working point



Energy saving



Ideal for replacement



Water resistant



Airvent plug

DABPUMPS.COM

EVOSTA 2 SAN



Hot Water
recirculating



Drinking Water
approved



Pump body in stainless steel



TECHNICAL DATA

Operating range: 0.8 - 15.1 gpm with head up to 18 ft.

Pumped liquid temperature range: from +14 °F (-10°C) to +230 °F (110°C).

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

Protection class: IP X5. (NEMA 4X) Protected against jets of water.

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 its **electronic driver (also called ECM: Electronic Commutation Motor or BLDC motor: Brushless DC motor)**, the new range of **EVOSTA2** 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 **EVOSTA2** 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 EVOSTA2 circulators can operate in 3 different modes:

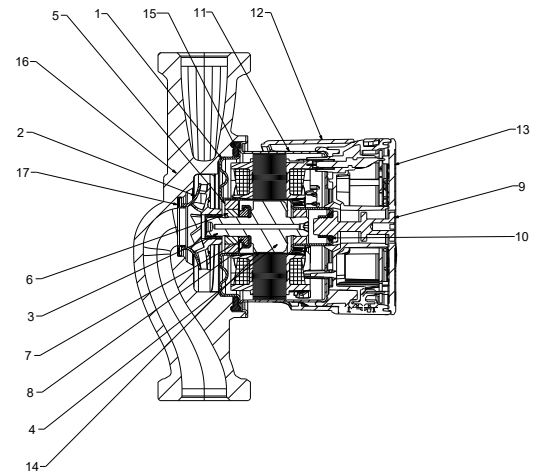
- Proportional differential pressure  3 curves
- Constant differential pressure  3 curves
- Fixed curve  3 curves

CONSTRUCTION FEATURES

- Pump body in cast iron with cathaphoresis treatment EVOSTA2 SAN version with Stainless Steel
- Motor casing in stainless steel
- Motor casing cover in technopolymer
- Motor shaft in ceramic (alumina)
- IPX5: Protected against water jets

MATERIALS

N.	PARTS	MATERIALS
1	ROTOR CAN FLANGE	STAINLESS STEEL AISI 316
2	IMPELLER	ULTRASON
3	MOTOR SHAFT	CERAMIC (ALUMINA)
4	ROTOR	Fe
5	BEARING HOUSING	BRASS
6	BEARING	ALUMINA
7	AXIAL BEARING	GRAPHITE
8	AXIAL HOUSING	EPDM
9	PLUG	BRASS
10	O-RING	EPDM
11	STATOR HOUSING	STAINLESS STEEL AISI 304
12	OUTER SHELL	POLYCARBONATE
13	COVER	POLYCARBONATE
14	ROTOR SLEVE	STAINLESS STEEL AISI 304
15	SEAL	EPDM
16	PUMP HOUSING	Standard version CAST IRON with cataphoresis treatment SANITARY version STAINLESS STEEL
17	NECK RING	POLYCARBONATE



OPERATING MODES

EVOSTA 2

PROPORTIONAL PRESSURE REGULATION MODE

PP1 PP2 PP3

CONSTANT PRESSURE REGULATION MODE

CP1 CP2 CP3

FIXED CURVE REGULATION MODE

I II III

EVOSTA 2C

PROPORTIONAL PRESSURE REGULATION MODE

PP1 PP2 PP3

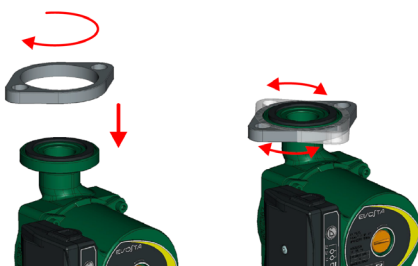
CONSTANT PRESSURE REGULATION MODE

CP1 CP2 CP3

FIXED CURVE REGULATION MODE

I II III

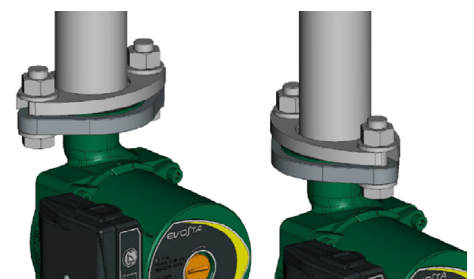
2 BOLT FLANGE



CHECK VALVE

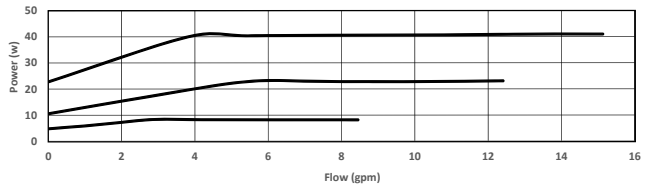
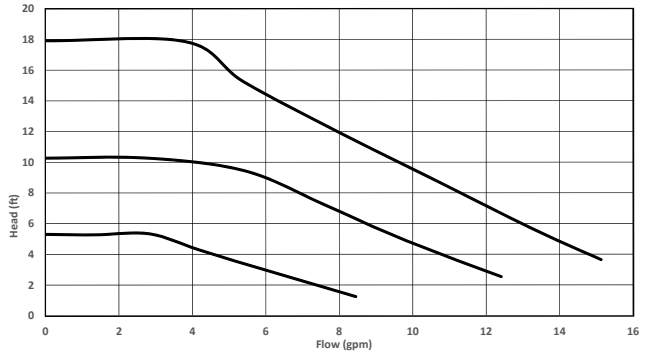
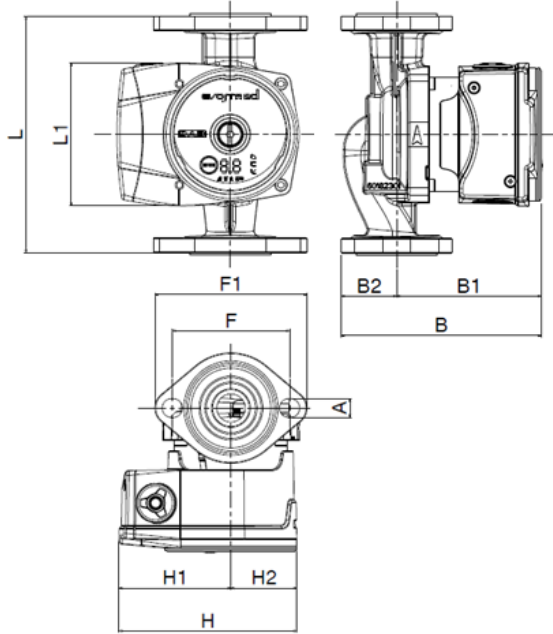


360° Rotation around a vertical axis

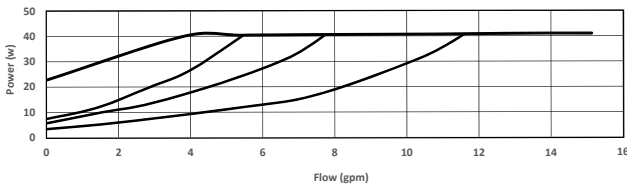
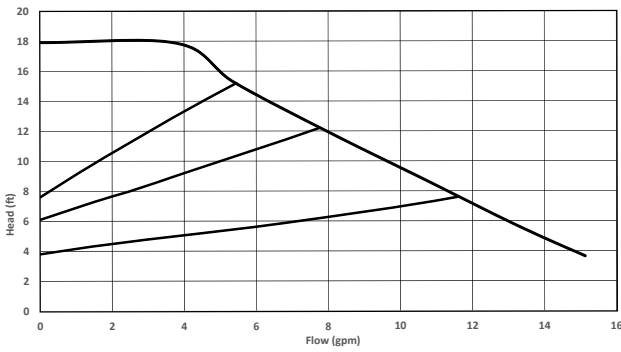


EVOSTA2 - ELECTRONIC CIRCULATORS FOR DOMESTIC HEATING SYSTEMS - SINGLE, WITH UNIONS

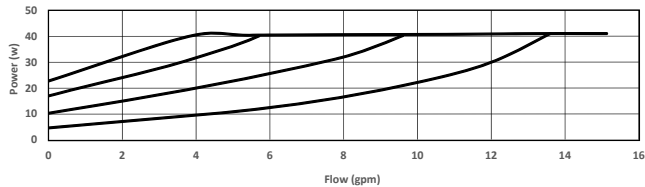
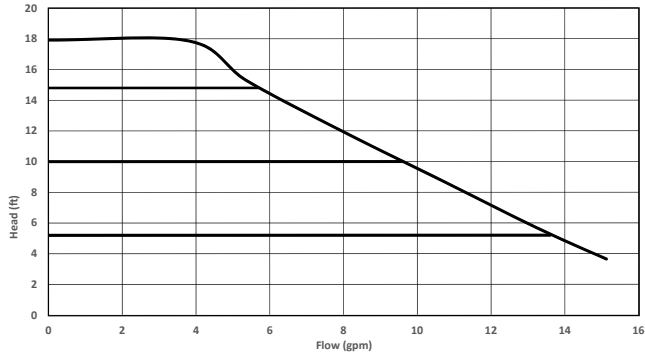
Pumped liquid temperature range: from +14 °F to +230 °F - Maximum operating pressure: 145 psi 10 bar (1000 kPa)



CONSTANT SPEED



PROPORTIONAL PRESSURE



CONSTANT PRESSURE

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=gpm	0	2	4	6	8	10	12	14	15.12
EVOSTA 110-127v	H (ft)	17.92	17.85	17.81	14.38	11.98	9.42	7.01	4.79	3.34

MODEL	CENTRE DISTANCE	FLANGE	POWER INPUT 60 Hz	P1 MAX W	In A	EEI *	MINIMUM SUCTION PRESSURE	
							t°	194 °F
EVOSTA 110-127v	6 3/8"	OVAL 2 BOLT	1 x 110-127 V ~	4 41	0.064 0.61	EEI ≤ 0,23	ft.c.w.	32.8

MODEL	L	L1	B	B1	B2	H	H1	H2	A	F	F1	PACKING DIMENSIONS			VOLUME ft ³	WEIGHT lbs
												L	B	H		
EVOSTA 110-127v	6 3/8"	5 55/64"	5 25/64"	3 57/64"	1 1/2"	5 5/8"	3 13/64"	1 13/64"	33/64"	3 3/16"	4 9/64"	5 23/64"	7 1/4"	6 17/32"	0.1467	5.37



