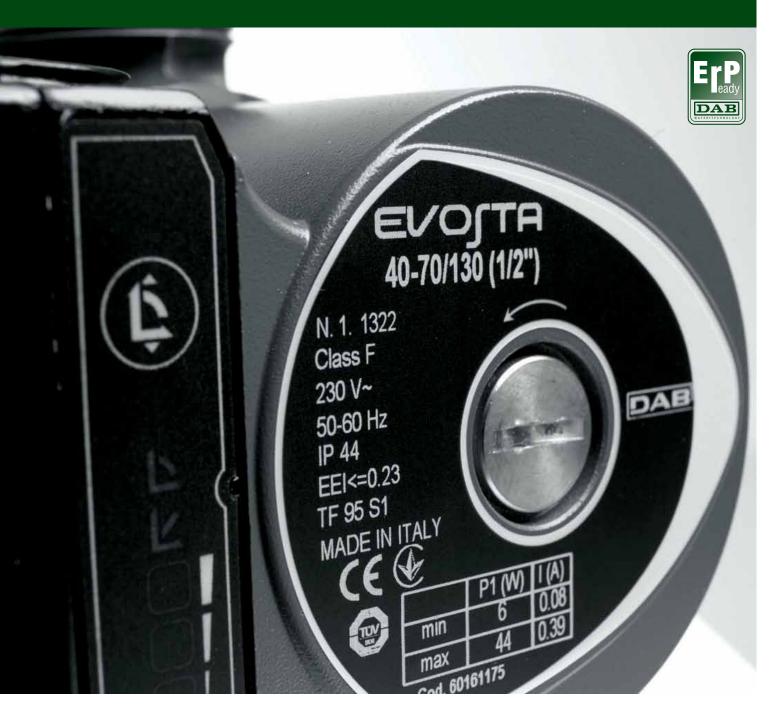




EVOSTA

ELECTRONIC CIRCULATORS FOR HEATING SYSTEMS



EVOSTA

ELECTRONIC CIRCULATORS FOR HEATING SYSTEMS



TECHNICAL DATA

Operating range: from 0.4 to 3.3 m3/h with head up to 6.9 meters.

Liquid temperature range: from +2 °C to +95 °C.

Working pressure: 10 bar (1000 kPa)

Protection rating: IP 44 **Insulation class:** F

Installation: with horizontal motor shaft.

Standard power supply: single-phase 1x230 V ~ 50/60 Hz

Pumped liquid: clean, free from solids and mineral oils, not viscous, chemically neutral, close to the properties of water (max. glycol contents 30%).



in line with the European Directive 2009/125/EC Erp (formerly EuP) and is ready to meet the 2015 Erp requirements (EEI \leq 0.23).

APPLICATIONS

Low power consumption pump for circulation of hot water, suitable for all types of domestic heating systems.

BENEFITS

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, bringing appreciable benefits in terms of energy saving. For this reason, the new, **EVOSTA** circulator, is in line with the European Directive 2009/125/EC Erp (formerly EuP) and is ready to meet the 2015 Erp requirements (**EEI** \leq **0.23**). The circulator features an electronic device that detects the changes demanded by the system and automatically adapts the circulator performance accordingly, always ensuring optimal efficiency and minimum energy consumption.

The **EVOSTA** circulator is also ideal to replace the old three-speed circulators, as it has the same dimensions of the VA series and it can cover with a single model pumps with head of 4.5 and 6 meters. In addition, it is a product that can simplify the user's work, thanks to a single sequential setting button and a breather plug used to degas the system and unlock the motor shaft.

The EVOSTA series circulator can operate in 2 different modes:

• Constant curve



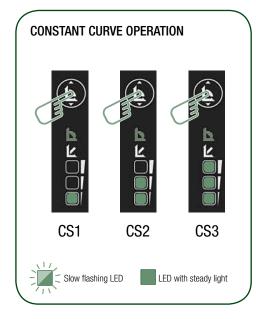
3 curves

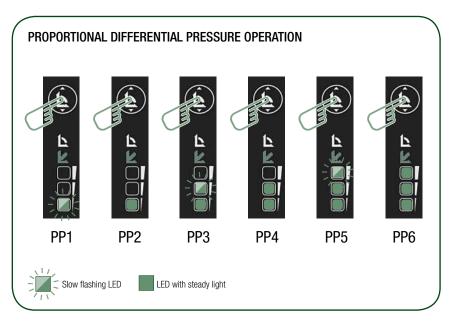
• Proportional differential pressure



6 curves

OPERATING MODES







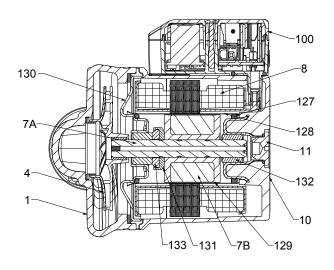
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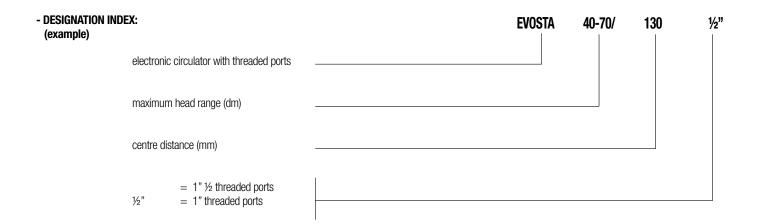
CONSTRUCTION CHARACTERISTICS

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

MATERIALS

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







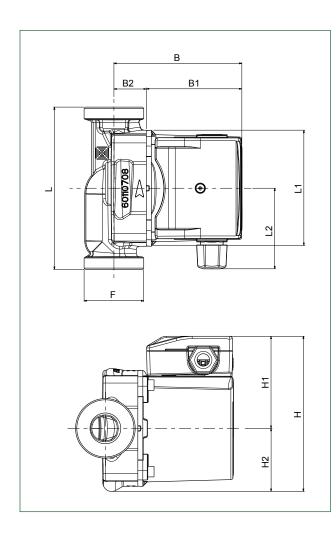
ELECTRONIC CIRCULATORS FOR HEATING SYSTEMS

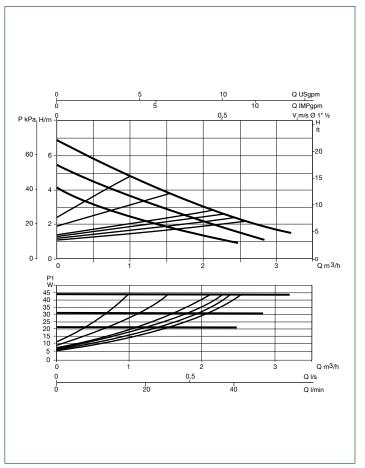
EVOSTA 40-70 Single with unions

Liquid temperature range: from $+2^{\circ}\text{C}$ to $+95^{\circ}\text{C}$. Maximum working pressure: 10 bar (1000 kPa)

		CENTRE	UNIONS ON	N REQUEST	E	LECTRICAL DAT	MINIMUM SUCTION PRESSURE		
MODEL		DISTANCE	CTANDADDIZED	CDECIAL		Р	ln	WINNING SOUTION FRESSORE	
			W	A	t°	m.c.a.			
EVOSTA 40-70/130	1x230 V ~	130	1"F	¾" F - 1¼" M	MIN MAX	6 44	0,08 0,38	90°	10
EVOSTA 40-70/130 1/2"	1x230 V ~	130	½" F	-	MIN MAX	6 44	0,08 0,39	90°	10
EVOSTA 40-70/180	1x230 V ~	180	1"F	¾" F - 1¼" M	MIN MAX	6 44	0,08 0,38	90°	10

MODEL		14	10	D	D1	D0	ш	U4	UO	г	PACI	PACK DIMENSIONS		VOLUME	WEIGHT	Q.TY X PALLET
MODEL	L	LI	L2	В	B1	B2	П	H1	H2	Г	L	В	Н	m³ 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	240
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	240
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	180

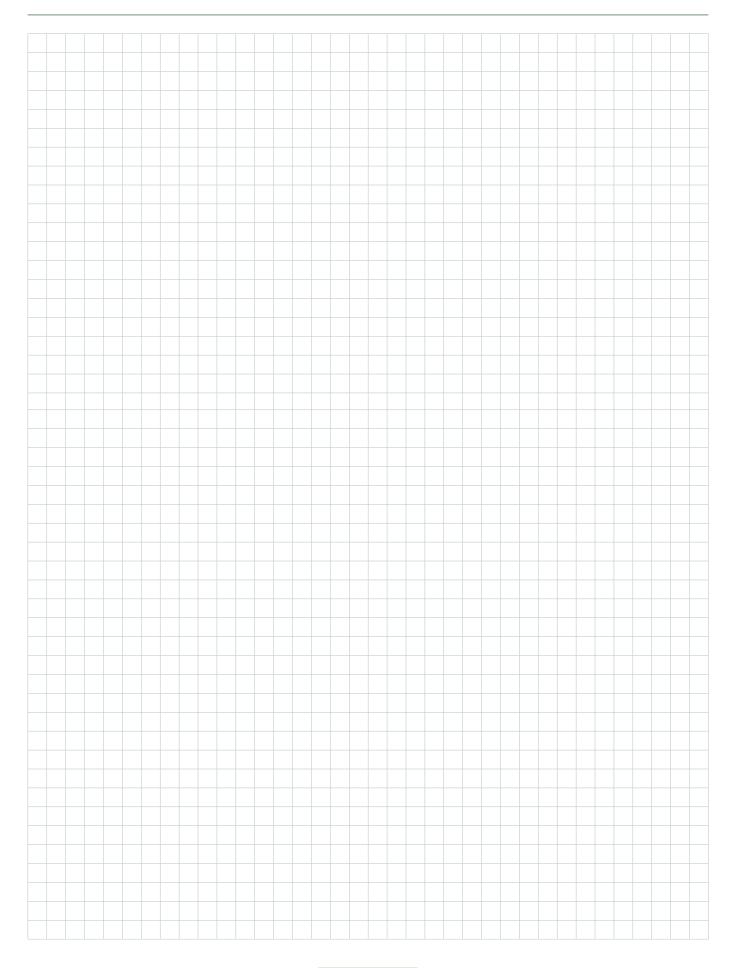




The performance curves are based on kinematic viscosity values = 1 mm 2 /s and density equivalent to 1000 kg/m 3 . Tolerance of curves to ISO9906.



NOTES







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