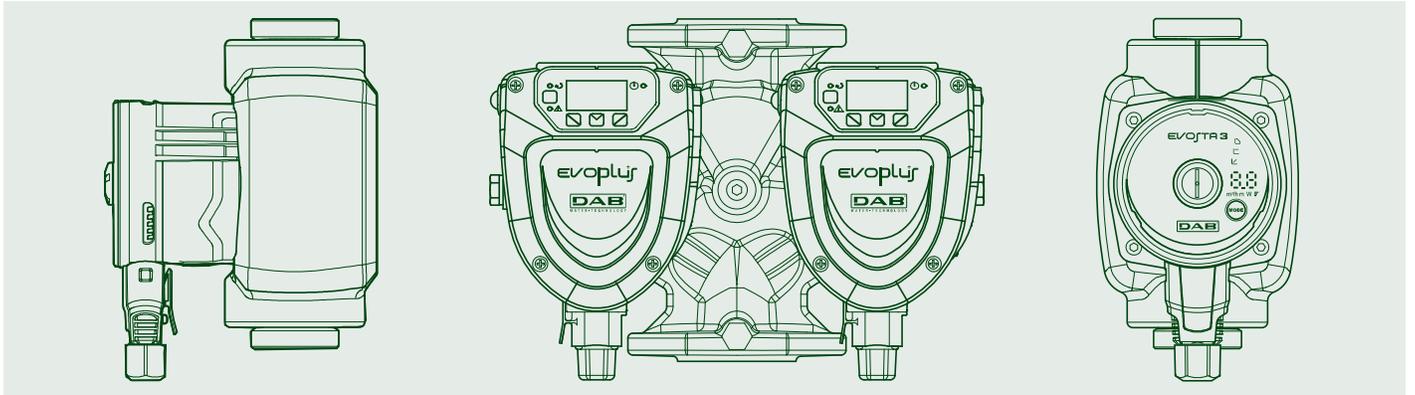


ErP
ready

CIRCULATORS



TECHNICAL CATALOGUE

EVOSTA 2 SAN

WET ROTOR ELECTRONIC CIRCULATORS



TECHNICAL DATA

Operating range: 0,4-4,2 m³/h with head up to 8 metres.

Pumped liquid temperature range: from -10 °C to +110°C

Working pressure: 10 bar (1000 kPa)

Protection class: IPX5

Insulation class: F

Installation: with horizontal motor axis.

Standard power input: single-phase 1x230 V~ 50/60 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 domestic hot water circulation.

ADVANTAGES

The new range of **EVOSTA 2 SAN** circulators by DAB combines the strength of a mechanical circulator with the benefits of an electronic circulator. Thanks to the permanent magnet synchronous motor, the frequency converter, as well as the protection class IPX5 and the integrated bleeding plug, **EVOSTA 2 SAN** family ranks as one of the best products in the category in terms of performance and reliability. The range of **EVOSTA 2 SAN** circulators is the perfect replacement for old three-speed circulators due to its compact size and all-round performance. The product is also extremely user-friendly, with a single button for sequential setting and direct access to the motor shaft for unlocking it when necessary.

CONSTRUCTION FEATURES

Bronze pump body and wet rotor motor. Steel motor casing, technopolymer impeller. Ceramic motor shaft on ceramic bushings lubricated by the pumped liquid. Stainless steel rotor liner and closing flange. Graphite thrust ring. EPDM seal ring and brass air bleeding plug. Thanks to the internal protection of the motor, the pump does not require any overload protection.

CONTROL PANEL

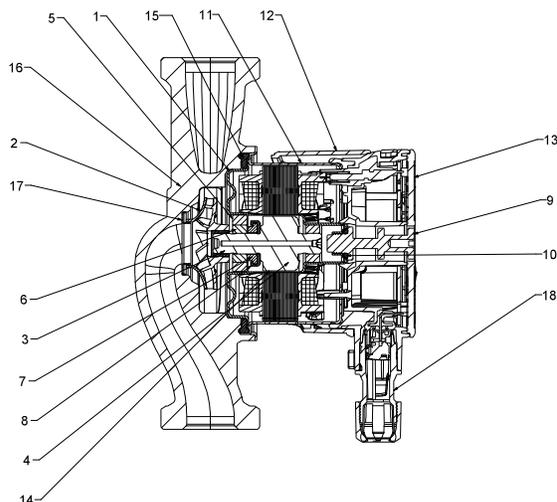
The settings of **EVOSTA 2 SAN** circulators can be modified in the control panel on the fascia of the pump. The pump has nine settings that can be selected scrolling the **MODE** button. Six illuminated segments on the display indicate the settings of the pump.

EVOSTA 2 SAN

WET ROTOR ELECTRONIC CIRCULATORS

MATERIALS

| N° | PARTS | MATERIALS |
|----|------------------|---------------|
| 1 | ROTOR CAN FLANGE | AISI 316 |
| 2 | IMPELLER | ULTRASON |
| 3 | SHAFT | ALLUMINA |
| 4 | ROTOR | Fe |
| 5 | BEARING HOUSING | BRASS |
| 6 | BEARING | ALLUMINA |
| 7 | AXIAL BEARING | GRAPHITE |
| 8 | AXIAL HOUSING | EPDM |
| 9 | PLUG | BRASS |
| 10 | O-RING | EPDM |
| 11 | STATOR HOUSING | AISI 304 |
| 12 | ENCLOSURE SHELL | POLYCARBONATE |
| 13 | ENCLOSURE | POLYCARBONATE |
| 14 | ROTOR SLEEVE | AISI 304 |
| 15 | SEAL | EPDM |
| 16 | PUMP HOUSING | BRONZE |
| 17 | NECK RING | AISI 304 |
| 18 | CONNECTOR | POLYCARBONATE |



REGULATION MODES

PROPORTIONAL PRESSURE REGULATION MODE

PP1
PP2
PP3

CONSTANT PRESSURE REGULATION MODE

CP1
CP2
CP3

FIXED CURVE REGULATION MODE

I
II
III

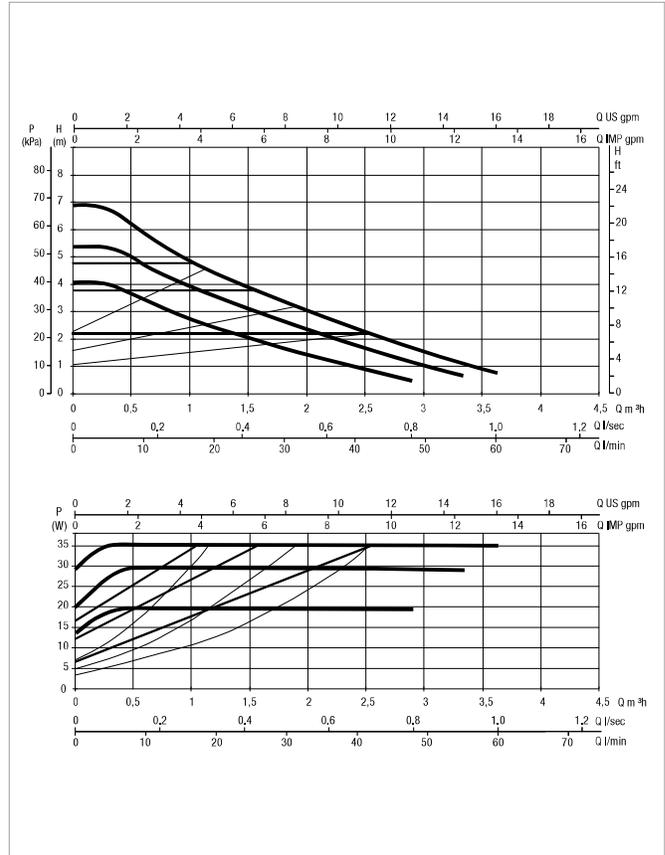
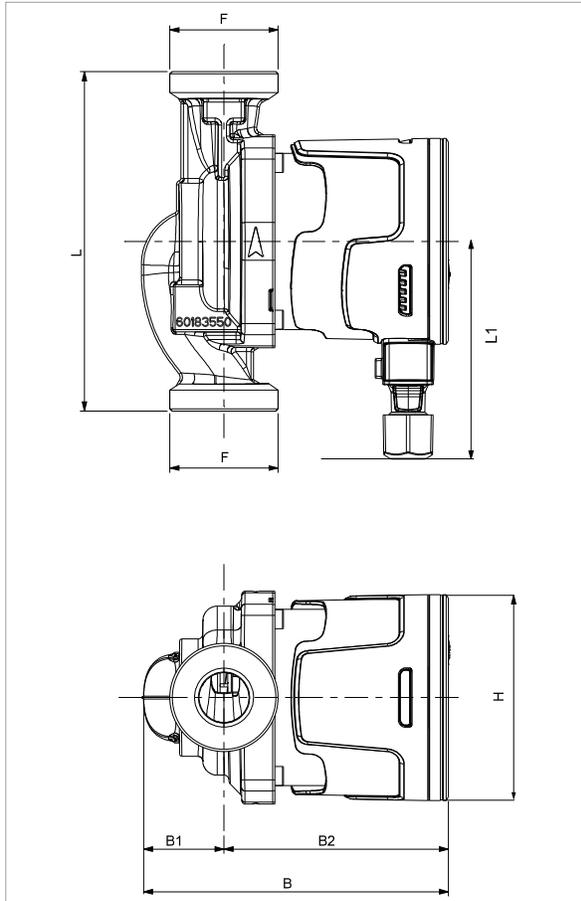
Model Number:
(example)

EVOSTA 2 SAN 40/70 150

Threaded connection electronic circulator _____
 Maximum head range (dm) _____
 Centre distance (mm) _____

EVOSTA 2 SAN - WET ROTOR ELECTRONIC CIRCULATORS

Pumped liquid temperature range: from -10 °C to +110 °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.

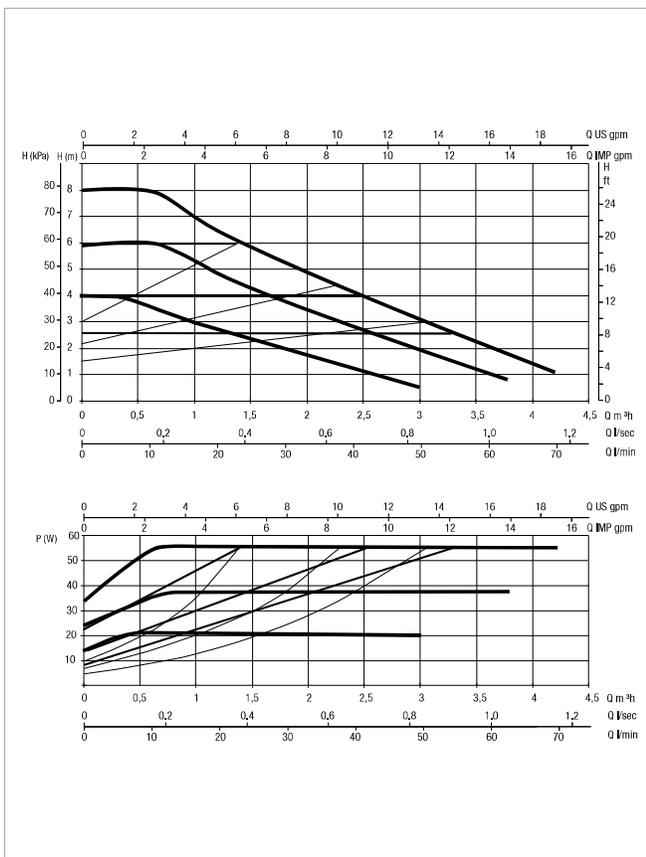
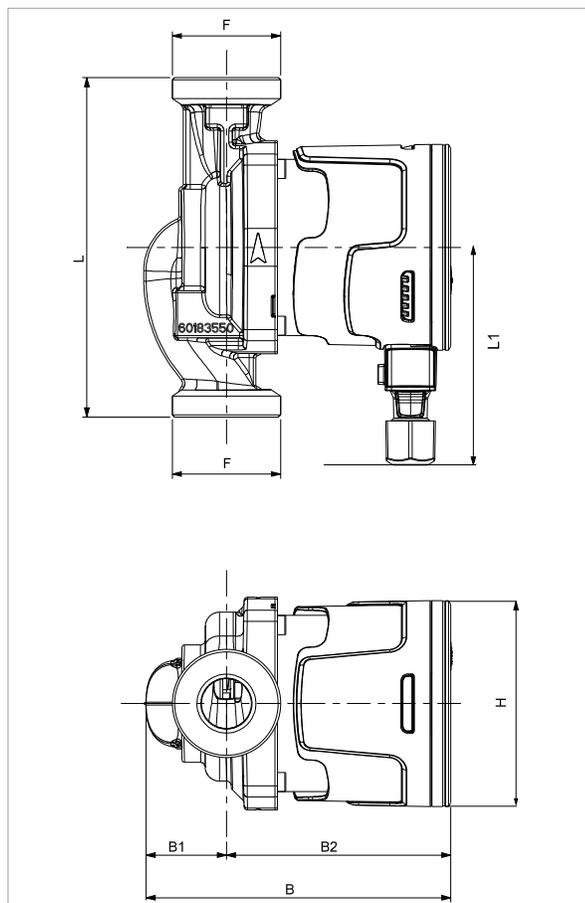
| MODEL | Q=m³h | 0 | 0,3 | 0,6 | 0,9 | 1,8 | 2,4 | 3 | 3,6 |
|-----------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| | Q=l/min | 0 | 5 | 10 | 15 | 30 | 40 | 50 | 60 |
| EVOSTA 2 40-70/150 SAN (1") | H (m) | 6,9 | 6,9 | 5,8 | 5,1 | 3,4 | 2,4 | 1,6 | 0,8 |

| MODEL | CENTRE DISTANCE mm | PUMP CONNECTIONS | POWER INPUT 50 Hz | P1 MAX W | In A | MINIMUM SUCTION PRESSURE | |
|-----------------------------|--------------------|------------------------|-------------------|----------|--------------|--------------------------|-----|
| | | | | | | t° | 90° |
| EVOSTA 2 40-70/150 SAN (1") | 150 | DN25 THREADED (G 1" ½) | 1x230 V ~ | 35 | 0,043 - 0,32 | m.c.w. | 10 |

| MODEL | L | L1 | B | B1 | B2 | H | F | PACKING DIMENSIONS | | | VOLUME m³ | WEIGHT Kg |
|-----------------------------|-----|----|-------|------|------|----|------|--------------------|----|-----|-----------|-----------|
| | | | | | | | | L | B | H | | |
| EVOSTA 2 40-70/150 SAN (1") | 150 | 96 | 134,6 | 35,5 | 99,1 | 91 | 1" ½ | 192 | 99 | 150 | 0,0028 | 2,16 |

EVOSTA 2 SAN - WET ROTOR ELECTRONIC CIRCULATORS

Pumped liquid temperature range: from -10 °C to +110 °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 | 0,9 | 1,8 | 2,4 | 3,0 | 3,6 | 4,2 |
|--------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|
| | Q=l/min | 0 | 15 | 30 | 40 | 50 | 60 | 70 |
| EVOSTA 2 80/150 SAN (1") | H (m) | 8 | 7,2 | 5,4 | 4,2 | 3,2 | 2,1 | 1 |

| MODEL | DISTANCE CENTRE mm | PUMP CONNECTIONS | POWER INPUT 50 Hz | P1 MAX W | In A | MINIMUM SUCTION PRESSURE | |
|--------------------------|--------------------|-------------------------|-------------------|----------|------------|--------------------------|-----|
| | | | | | | t° | 90° |
| EVOSTA 2 80/150 SAN (1") | 150 | DN25 THREADED (G 1" ½) | 1x230 V ~ | 55 | 0,053-0,47 | m.c.w. | 10 |

| MODEL | L | L1 | B | B1 | B2 | H | F | PACKING DIMENSIONS | | | VOLUME m ³ | WEIGHT Kg |
|--------------------------|-----|----|-------|------|------|----|------|--------------------|----|-----|-----------------------|-----------|
| | | | | | | | | L | B | H | | |
| EVOSTA 2 80/150 SAN (1") | 150 | 96 | 134,6 | 35,5 | 99,1 | 91 | 1" ½ | 192 | 99 | 150 | 0,0028 | 2,16 |

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