



EVOSTA

SIMPLY  
RELIABLE



**DAB**  
WATER • TECHNOLOGY

### DAB. Innovation is not a goal but a new starting point.

This is not just a presentation of the range of Evosta electronic circulators. It is much more.

It is a story that began 43 years ago, **about a path of technological innovation** and about the application of a way of imagining, creating, producing and working at DAB.

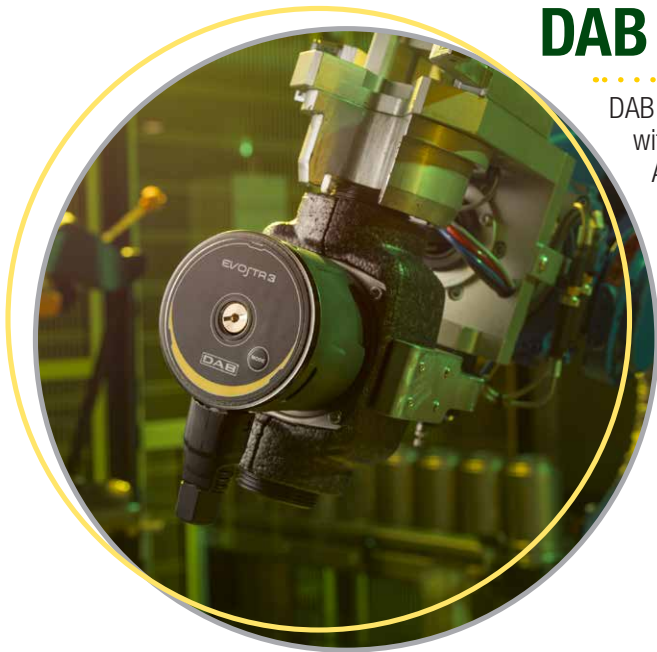
The result is the Evosta range of circulators, **the perfect synthesis between the strength of the mechanical circulator and the benefits of the electronic.**

Find it out with us.

### DAB 4.0

DAB inaugurates the new Factory 4.0 with the **Evosta** circulators.

A robotised production line where man, technology and services are integrated in the name of human safety and top quality of the product.



### A future of innovation

Replacing the previous Evotron and Evosta and on the basis of the success of **over 20 million pieces sold**, the range points to the future with the boost of an unprecedented technological acceleration.







## Performance and efficiency

Innovation, quality, performance and reliability all play a part in improving the performance and efficiency of the product.



## DAB 4.0

### RELIABILITY 4.0

Smart factory, Brilliant factory, Factory 4.0, Industry 4.0, Industrial Internet.

**Innovation is about capacity, not words.** It is about having a vision and adopting it in the corporate culture and complex organisational system.

DAB has done precisely this with the range of Evosta electronic circulators. It is the first of its kind to be designed and produced using an entirely Smart process.

### TECHNOLOGIES 4.0

Current technologies integrate the processes of operators, machines and tools.

### SERVICES 4.0

IT and technical infrastructures connect systems and people in a collaborative way to improve safety and the quality of work.

### SUSTAINABILITY 4.0

Ongoing research in energy efficiency represents a social duty for DAB.

Optimising resources and using them in a sustainable and intelligent way can assist us in our digital transformation.

DAB's Factory 4.0 is the result of the collaboration and integration of Research and Development, Industrialisation and Procurement.

The process is, therefore, entirely stable and constant while ensuring maximum flexibility of production. All the phases of assembly of the Evosta range are automated and involve intelligent **POKA-YOKE** control systems to guarantee fault-free production and a completely safe line for operators.







## **POKA-YOKE**

Poka-yoke is an industrial standard applied to a design choice or a device preventing any human error.

The concept is to avoid (yokeru) errors due to distraction and thereby ensure fault-free production and a risk-free workplace.

**RANGE**



## the range designed for the market of tomorrow

43 years of experience. over 20 million circulators sold.

History and know-how, together with the in-house design of the mechanics and electronics and technologies DAB 4.0 factory, make the Evosta electronic wet rotor circulators utterly innovative in terms of technology, reliability and performance.



### IPX5 TESTING

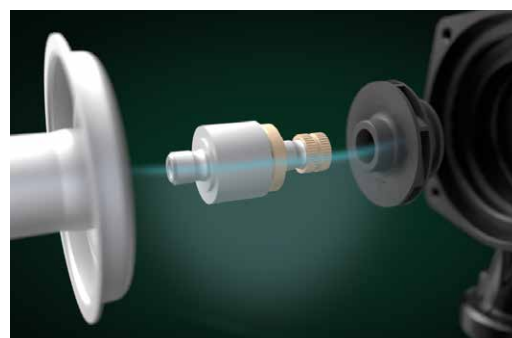
In this way, the infiltration of moisture is no longer an issue.

The IPX5 degree of protection is tested by firing a water jet from a 6.3 mm nozzle from every direction to ensure the watertightness of the circulator.



### CALCIUM REMOVAL CARTRIDGE

The Evosta calcium removal system keeps the motor shaft in perfect condition, preventing the normal formation of limescale generally caused by air and water residue.







## SELECTION GUIDE



	EVOSTA 3	EVOSTA 2	EVOSTA 2 SAN	EVOSTA 2 SAN	EVOSTA 2 SOL
5 Years Warranty (Only for EU markets)	•	•	•	•	•
Display	•	•	•	•	•
Quick connection plug	•	•	•	•	•
Proportional differential pressure regulation mode	•	•	•	•	•
Constant differential pressure regulation mode	•	•	•	•	•
Fixed speed regulation mode	•	•	•	•	•
Dry run protection	•	•	•	•	•
Auto-venting	•	•	•	•	•
Airvent plug	•	•	•	•	•
Auto-unlock	•	•	•	•	•
Calcium removal cartridge	•	•	•	•	•

# EVOSTA 3

THE FIRST SMART CIRCULATOR

FOR LIVING WITH COMFORT... AND NOT ONLY

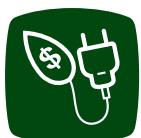


Regular feedback from installers. All-round vision of technological and productive innovation. The Evosta 3 electronic wet rotor circulator is based on this, on solid experience and an eye for the future. Evosta 3 is DAB's first own smart circulator and offers unique features thanks also to the new DAB 4.0: it represents a great leap forward in terms of assisting the installer and improving the performance of the systems.

Compact size, quality of construction, innovative materials and technical solutions all make Evosta 3 high performing, reliable and easy to install at the same time. Thanks to its usability and efficiency, Evosta 3 is the ideal solution for domestic cooling or heating systems.



## WHY CHOOSE EVOSTA 3



## APPLICATION





# Reliability, durability and practicality

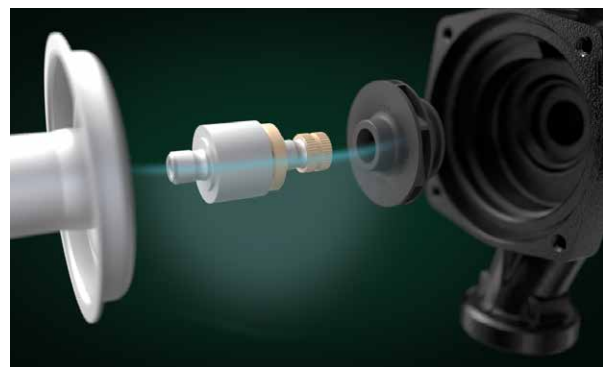
## IPX5 PROTECTION

This high degree of protection guarantees absolutely no infiltration of water in the mechanical and electronic components.



## CALCIUM REMOVAL CARTRIDGE

The Evosta calcium removal system keeps the motor shaft in perfect condition, preventing the normal formation of limescale generally caused by air and water residue.



## AIRVENT PLUG

Designed with front electronics and airvent plug providing access to the shaft in case of seizure.  
Evosta 3: easier maintenance for greater peace of mind



## STEEL MOTOR CASING

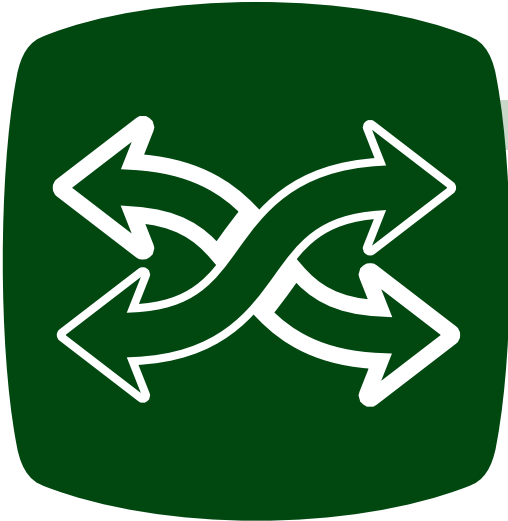
Made with stainless steel grade AISI 304 ensuring maximum comfort and long life, even in the case of cooling applications.



# EVOSTA 3

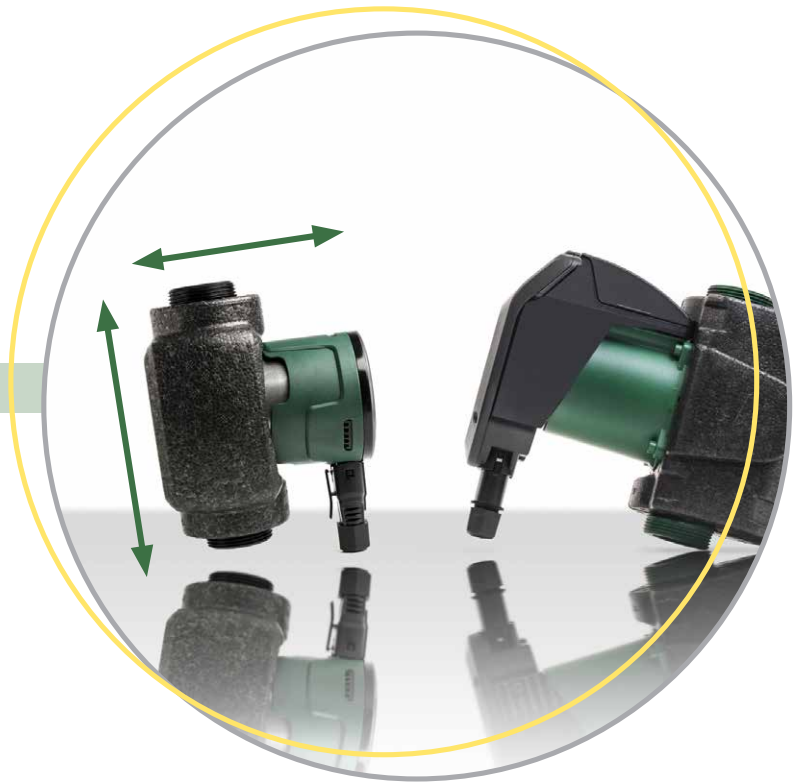
WHEN TECHNOLOGY

LEND US A HAND



## EASY TO REPLACE

The circulator can now be replaced easily: the interchangeable power connector of the Evosta 3 range can be used with connection plugs of other competitors without the need to rewire all the electrical connections. Even the most awkward replacement is now quick and easy.



## ERGONOMIC INNOVATION

DAB's technological evolution has made possible a consistent reduction of the overall size of Evosta 3 now offering unparalleled flexibility.





### WHEN SMART MEANS EASY

The new user interface with illuminated display and sequential button with immediate feedback makes easier the setting and readability under all conditions, since the settings remain available and can be edited at any time... with just a finger.



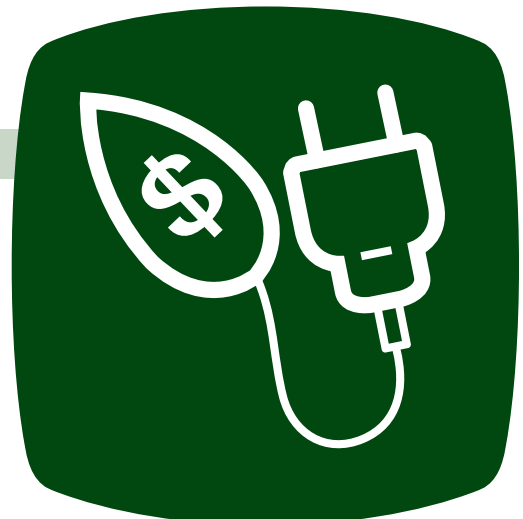
### MAXIMUM PERFORMANCE, MINIMUM CONSUMPTION

The energy performance of the Evosta 3 has been improved with the concept of Smart energy and the use of an inverter, bringing the EEl index to  $\leq 0.19$ : lower than ever before.



### AIMING FOR SAVINGS

the Evosta 3 model is supplied as standard with insulation shells which reduce the dispersion of thermal energy, ensuring further energy savings



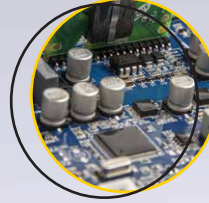
# EVOJTA 3

## MECHANICAL STRENGTH

## ELECTRONICS EVOLUTION

### INVERTER

Evosta absorbs just the energy strictly necessary, ensuring significant cost savings.



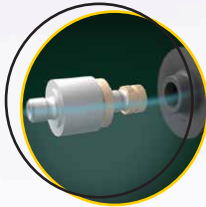
### USER INTERFACE

Intuitive interface providing immediate feedback for keeping the operating settings under control at all times.



### CALCIUM REMOVAL CARTRIDGE

It prevents the formation of limescale and keeps the motor shaft in perfect condition. This saves both time and resources.



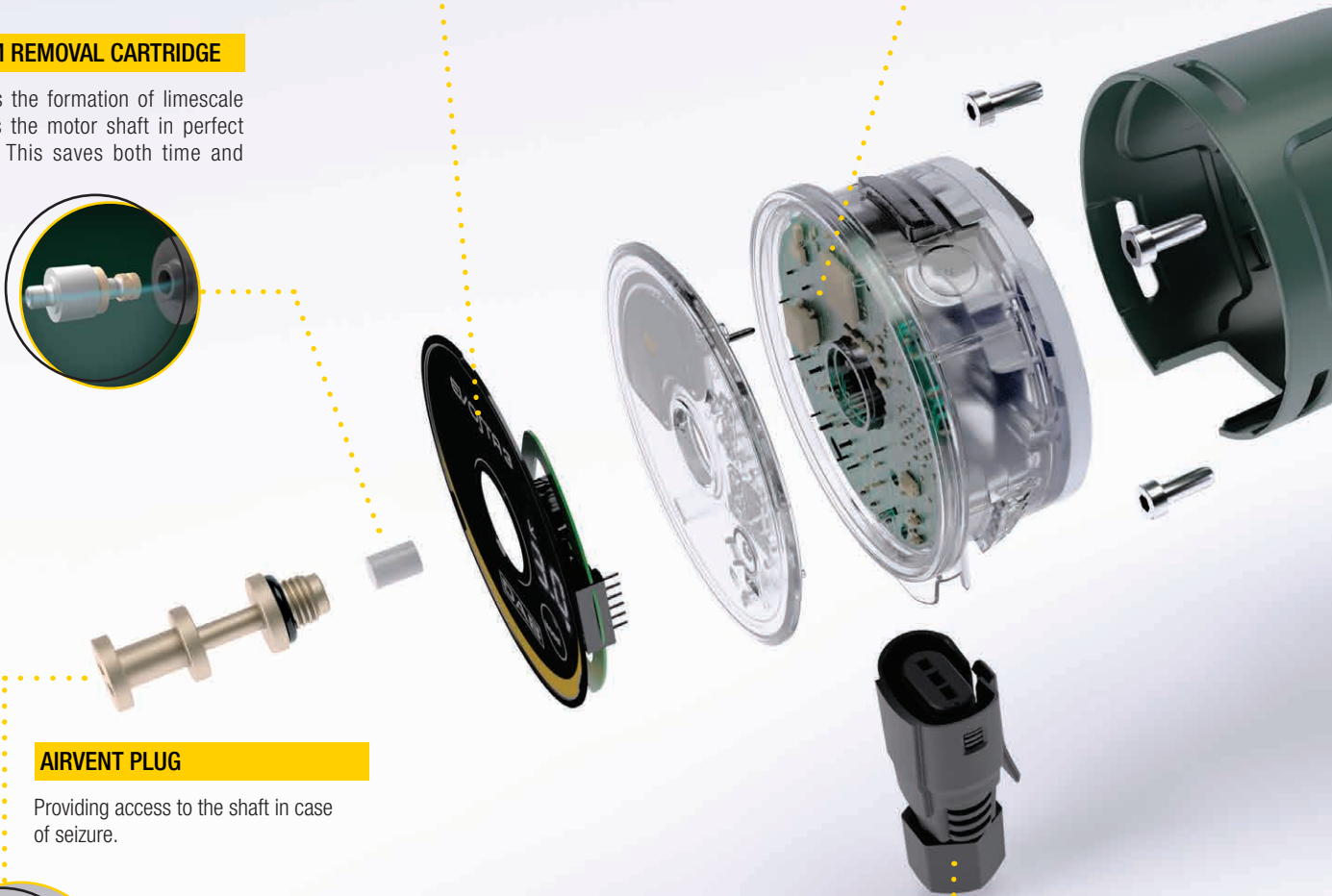
### AIRVENT PLUG

Providing access to the shaft in case of seizure.



### UNIVERSAL CONNECTOR PLUG

Compatible with the connectors of our main competitors, meaning that it can be replaced without the need to rewire the electrical connection.





# FEATURES

## PUMP BODY

Cast iron pump body with cathaphoresis paint coating.



## MOTOR

Permanent-magnet synchronous motor.



## STEEL MOTOR CASING

AISI 304 stainless steel.



## INSULATION SHELLS

Supplied with an insulation kit reducing consistently the dispersion of thermal energy to guarantee further energy savings.



# EVOSTA 2

**NOW EVEN TO KEEP YOU COOLED**



Increasingly complex systems, ever more advanced technologies and higher demand for better quality. In this scenario, DAB's Smart Factory offers all the answers to a more specialised market with the new Evosta 2 circulators. These ensure exceptional reliability and comfort, high performance and low consumption, and ease of use and maintenance, for central heating, solar panel systems, DHW circulation systems and even air conditioning systems.



Q max  
**3,6 m<sup>3</sup>/h**

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H max  
**6,9 m**



**EEI ≤ 0.18**



## EVOSTA 2 S A N



Q max  
**4,2 m<sup>3</sup>/h**

---

H max  
**8 m**



Q max  
**0,6 m<sup>3</sup>/h**

---

H max  
**1,1 m**

Domestic hot water

## EVOSTA 2 S O L

Solar panel systems



Q max  
**3,5 m<sup>3</sup>/h**

---

H max  
**14,5 m**

### WHY CHOOSE EVOSTA 2

### APPLICATION





## OVERVIEW



### IPX5 PROTECTION

This certified degree of protection prevents the infiltration of water in the mechanics and, most importantly, in the electronics: faults are reduced to a minimum for absolute peace of mind.

### STEEL MOTOR CASING

Made with stainless steel grade AISI 304 ensuring maximum comfort and long life, even in the case of cooling applications.

### AIRVENT PLUG

Designed with front electronics and breather plug providing access to the shaft in case of seizure.  
Evosta 2: easier maintenance for greater peace of mind.

### CALCIUM REMOVAL CARTRIDGE

The Evosta calcium removal system keeps the motor shaft in perfect condition, preventing the normal formation of limescale generally caused by air and water residue.

### USER INTERFACE

The new user interface with sequential button makes easier the setting..with a shells finger.



### MAXIMUM PERFORMANCE, MINIMUM CONSUMPTION

The energy performance of the new Evosta 2 has been improved with the new concepts of Smart energy and the use of an inverter, bringing the EEI index to  $\leq 0.18$ : lower than ever before.



EVOSTA 2

# EVOSTA 2

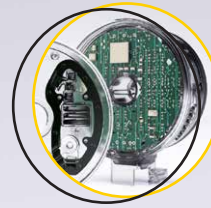
## MECHANICAL STRENGTH

## ELECTRONICS EVOLUTION



### USER INTERFACE

Intuitive interface providing immediate feedback for keeping the operating settings under control at all times.

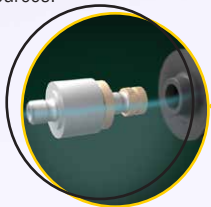


### INVERTER

Evosta absorbs only the energy that is strictly necessary, ensuring significant financial savings.

### CALCIUM REMOVAL CARTRIDGE

It prevents the formation of limescale and keeps the motor shaft in perfect condition. This saves both time and resources.



### AIRVENT PLUG

Providing access to the shaft in case of seizure.



### CONNECTOR PLUG

Allows a simple and quick electrical connection, even in the most uncomfortable installation situations.



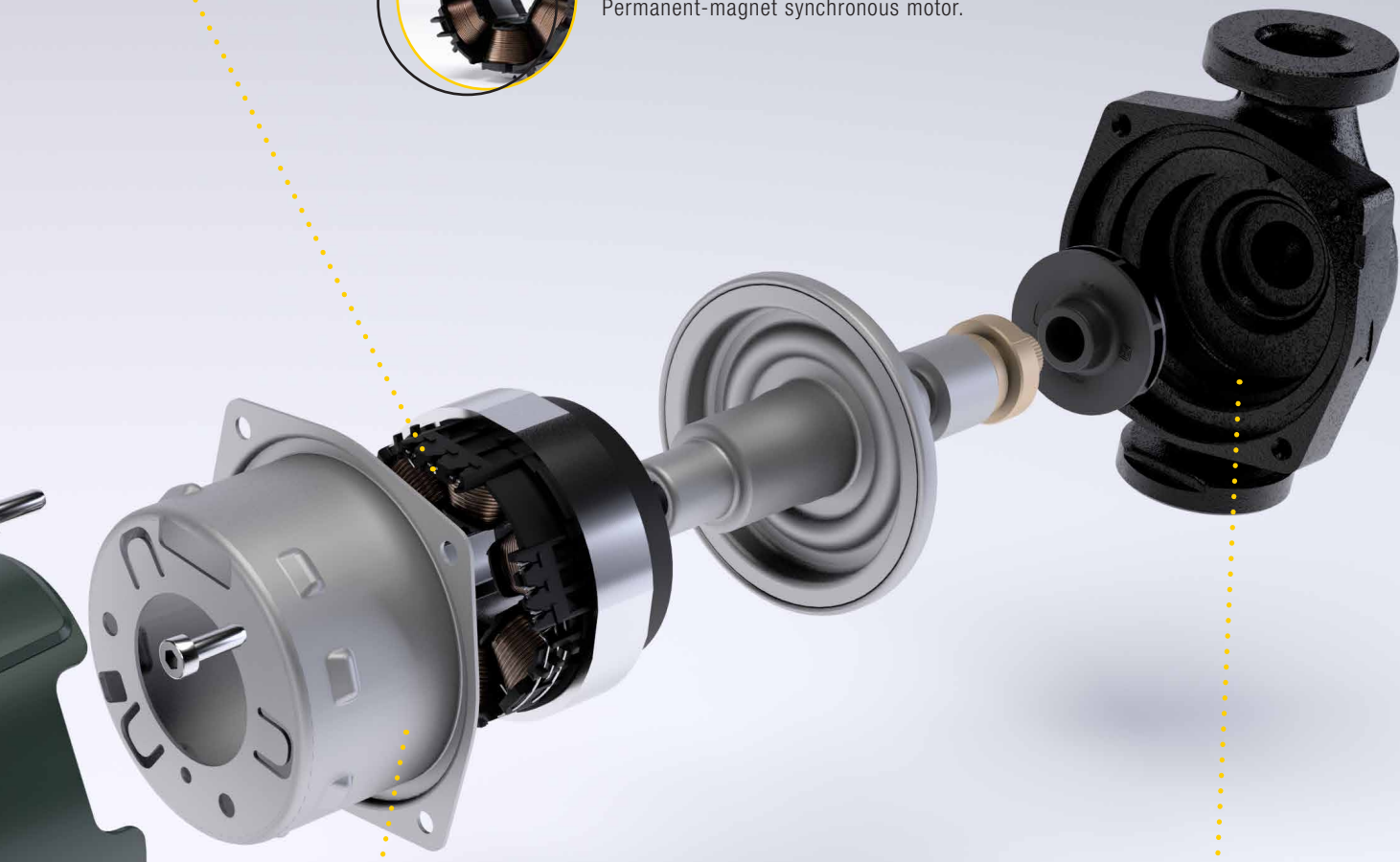


# FEATURES



## MOTOR

Permanent-magnet synchronous motor.



## PUMP BODY

EVOSTA 2 and SOL: Cast iron pump body with cataphoresis paint coating.

EVOSTA 2 SAN bronze pump body.



## STEEL MOTOR CASING

AISI 304 stainless steel.

# TECHNICAL DATA



	<b>EVOSTA 3</b>	<b>EVOSTA 2</b>	<b>EVOSTA 2 SAN</b>
<b>OPERATING RANGE:</b>	0,4 - 4,2 m <sup>3</sup> /h with head up to 8 metres	0,4 - 3,6 m <sup>3</sup> /h with head up to 6,9 metres	0,4 - 4,2 m <sup>3</sup> /h with head up to 8 metres
<b>PUMPED LIQUID TEMPERATURE RANGE:</b>	from -10 °C to +110°C	from -10 °C to +110°C	from -10 °C to +110°C
<b>WORKING PRESSURE:</b>	10 bar (1000 kPa)	10 bar (1000 kPa)	10 bar (1000 kPa)
<b>PROTECTION CLASS:</b>	IPX5	IPX5	IPX5
<b>INSULATION CLASS:</b>	F	F	F
<b>INSTALLATION:</b>	with horizontal motor shaft	with horizontal motor shaft	with horizontal motor shaft
<b>STANDARD POWER INPUT:</b>	single-phase 1x230 V~ 50/60 Hz	single-phase 1x230 V~ 50/60 Hz	single-phase 1x230 V~ 50/60 Hz
<b>PUMPED LIQUID:</b>	Clean, free of solids and mineral oils, non-viscous, chemically neutral, with properties similar to water (glycol max 30%)	Clean, free of solids and mineral oils, non-viscous, chemically neutral, with properties similar to water (glycol max 30%)	Clean, free of solids and mineral oils, non-viscous, chemically neutral, with properties similar to water



	<b>EVOSTA 2 SAN</b>	<b>EVOSTA 2 SOL</b>
<b>OPERATING RANGE:</b>	0 - 0,6 m <sup>3</sup> /h with head up to 1,1 metres	0 - 3,5 m <sup>3</sup> /h with head up to 14,5 metres
<b>PUMPED LIQUID TEMPERATURE RANGE:</b>	from +2 °C to +75°C	from -10 °C to +110°C ( with peaks up to 130°C)
<b>WORKING PRESSURE:</b>	10 bar (1000 kPa)	10 bar (1000 kPa)
<b>PROTECTION CLASS:</b>	IP42	IPX5
<b>INSULATION CLASS:</b>	II	F
<b>INSTALLATION:</b>	with horizontal motor shaft	with horizontal motor shaft
<b>STANDARD POWER INPUT:</b>	single-phase 1x115-230 V~ 50/60 Hz	single-phase 1x230 V~ 50/60 Hz
<b>PUMPED LIQUID:</b>	Clean, free of solids and mineral oils, non-viscous, chemically neutral, with properties similar to water	Clean, free of solids and mineral oils, non-viscous, chemically neutral, with properties similar to water (glycol max 30%)





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