



Japanese Technology since 1912

## Multistage electric pumps

Product Catalogue





**Japanese Technology since 1912**

[www.ebara-europe.com](http://www.ebara-europe.com)



# Sectors and Areas of application

The wide choice of multistage electric pumps allows EBARA to adapt to the most disparate uses and applications and to respond, thanks to the versatility, to the needs of a large area of residential and industrial applications



## Pressurisation

For the pressurisation of water in residential, commercial, industrial and agricultural contexts



## Fire-fighting

For the creation of fire-fighting sets compliant with the European standard UNI EN 12845



## Irrigation

To make available the water necessary for crops



## Washing

For the creation of washing systems used in industry (car washing machines, dishwashers, cleaning in place, sterilising in place, etc.)



## Air-conditioning

For the circulation of water in air conditioning systems



## Heating

For the circulation of water in air conditioning systems



## Movement in general

Industrial liquid handling in process applications



## Swimming pools

For water recirculation of swimming pools or of sports facilities



## Refrigeration towers

For the circulation of water required in refrigeration towers



## Emptying/Filling

For the emptying/filling of tanks



# Vertical multistage electric pumps

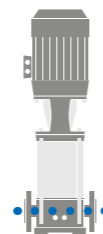
EBARA vertical multistage means **high pressure**, **innovation** and **advanced** technical solutions. The pumps of this line fully comply with these aspects.

Among the multistage vertical pumps stand out the **EVMS** that, thanks to the exclusive technical solutions adopted and the unmistakably EBARA design, represent the most innovative series on the market. Industrial applications represent their best field of use.

Following the **MULTIGO** range: the only one of the EBARA multistage in which the motor cooling takes place thanks to the pumped liquid that makes them suitable for both in-tank and surface applications. Completing the series are the **CVM** models featuring glass fibre reinforced technopolymer stages and cast iron base.



## CONFIGURATIONS



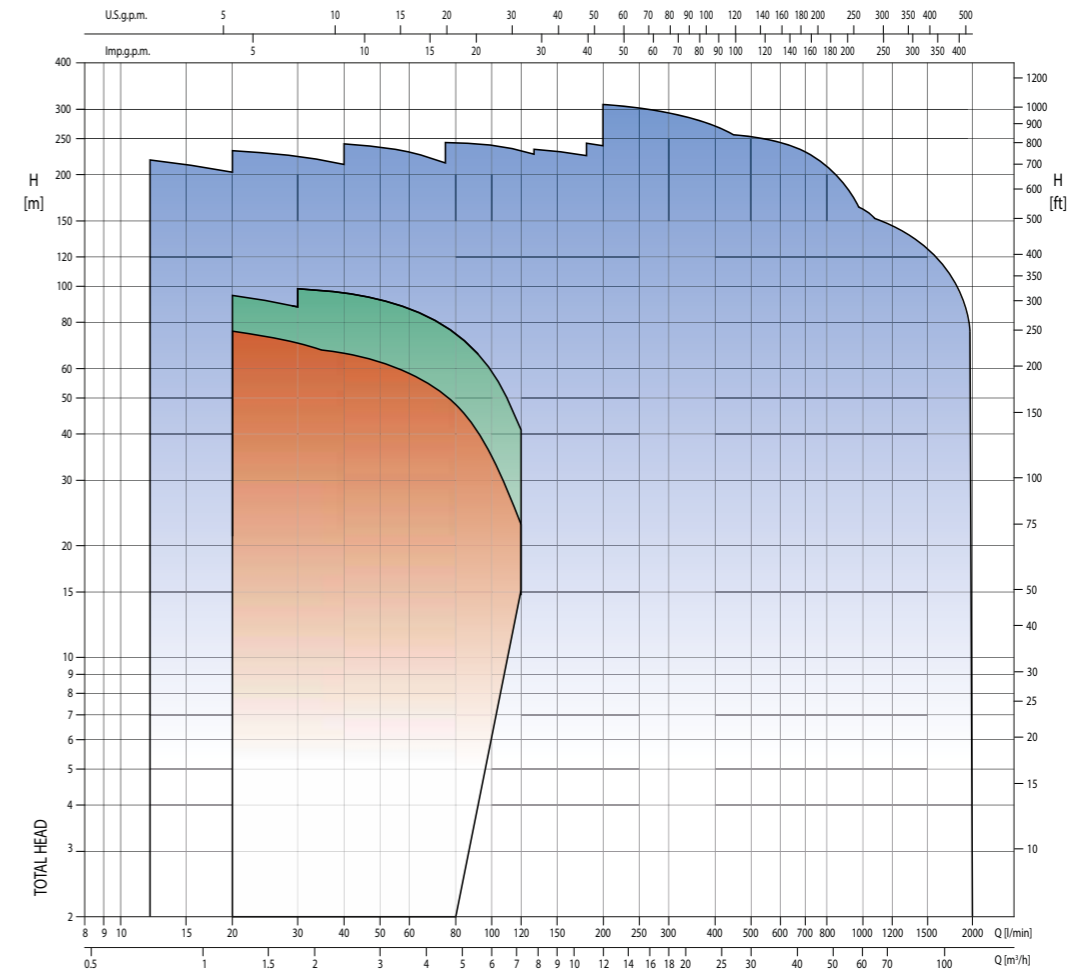
**"IN-LINE" TYPE**  
Suction and discharge are positioned on the same axis



**"C" TYPE**  
Suction located at the bottom, discharge positioned above overlying the aspiration



**"L" TYPE**  
Suction located at the bottom, discharge positioned above radial to the aspiration



Model	Materials		Technical data
	Pump body	Impeller	
<b>EVMS</b>	<b>EVMS:</b> AISI 304 <b>EVMSG:</b> cast iron <b>EVMSL:</b> AISI 316	<b>EVMS:</b> AISI 304 <b>EVMSG:</b> AISI 304 <b>EVMSL:</b> AISI 316	<ul style="list-style-type: none"> <li>Total head up to 300 m</li> <li>Capacity up to 120 m<sup>3</sup>/h</li> <li>Maximum operating pressure: 16 - 25 - 35 bar</li> </ul>
<b>MULTIGO</b>	AISI 304	Technopolymer reinforced with fibre glass	<ul style="list-style-type: none"> <li>Total head up to 75.7 m</li> <li>Capacity up to 7.2 m<sup>3</sup>/h</li> <li>Maximum operating pressure: 11 bar</li> </ul>
<b>CVM</b>	Cast iron	Technopolymer reinforced with fibre glass	<ul style="list-style-type: none"> <li>Total head up to 98.5 m</li> <li>Capacity up to 7.2 m<sup>3</sup>/h</li> <li>Maximum operating pressure: 11 bar</li> </ul>

# EVMS

The EVMS feature a range of technical solutions that offer a revolutionary product on the market. And here's why:



**EBARA production ETM motors** in IE3 efficiency class, starting from 0.75 up to 11 kW. With the 1.5 kW size they have the PTC probe as standard.



### Technical data

- Total head up to 300 m
- Capacity up to 120 m<sup>3</sup>/h
- Hydraulic efficiency index MEI > 0.7
- IE3 high efficiency motors starting from 0.75 kW
- EBARA ETM electric motors from 0.75 to 11 kW
- Liquid temperature range: -30°C ÷ +140°C
- Maximum working pressure 16, 25 or 35 bar

**The cartridge-type mechanical seal** allows easy maintenance. Its replacement involves a simple operation without having to disassemble the motor support. The seals used are in compliance with EN12756 and easily available on the market if required.



**The Shurrricane impeller**, patented by EBARA in AISI 316 steel, with its innovative shape, ensures a reduction of the axial load that usually rests on the bearings, ensuring maximum efficiency on the market and also allowing the use of any standardised motor on the market.

**The vent cap**, conceived and designed to avoid the problem of dry running: it is in fact positioned specifically above the level of the mechanical seal, to ensure the bleeding of any air bubbles.

**Standard connection for pressure sensor** available for quick connection, in case of presence of inverter or other control systems.  
**3/8" loading and unloading plugs** as standard or suitable for connecting a pressure gauge.

**The wide variety of connections available** that meet all the needs depending on the application, the pumped liquid, the system on which they are to be installed: DIN round flanges, DIN mobile flanges, oval flanges, Victaulic and Clamp joint.

# MULTIGO



MULTIGO is a vertical multistage centrifugal electric pump with an outer casing, a motor cover and a seal holder disc in AISI 304.



- The components of the hydraulics, i.e. impeller, diffuser and spacer, are made of polypropylene and polystyrene (PPE + PS) reinforced with glass fibres.
- Constructively it presents a double mechanical seal in an oil chamber, to ensure **continuous lubrication** and **maximum reliability**. Both seals, on the motor side and on the pump side, are made of Carbon/Ceramic/EPDM.
- Cooling of the motor is guaranteed by the passage of the pumped fluid, so that this pump can be used both in the **surface** and in the **submerged** configuration. It is precisely this feature that makes it suitable for different applications.
- All the MULTIGO models are supplied with 5 meters of H07RN-F cable.

### Technical data

- Total head from 75.7 to 13.4 m
- Capacity from 1.2 to 7.2 m<sup>3</sup>/h
- Hydraulic efficiency index MEI > 0.4
- Liquid temperature up to +40°C
- Maximum suction depth: 6 m
- IP 68 protection degree

# CVM



The EBARA CVM electric pump is a vertical multistage for residential use.



- The hydraulic components are made of glass fibre reinforced plastic, while the mechanical seal is made of Ceramic/Carbon/NBR.
- The MEI hydraulic efficiency index > 0.4 and the 0.75 kW IE3 motors make them compliant with the relevant European Directives.
- To provide an even more **complete** product, the CVM models are also available as standard already combined with the *E-drive* inverter, which allows the optimal setting and operation according to requirement, ensuring the **reduction of operating costs**.

### Technical data

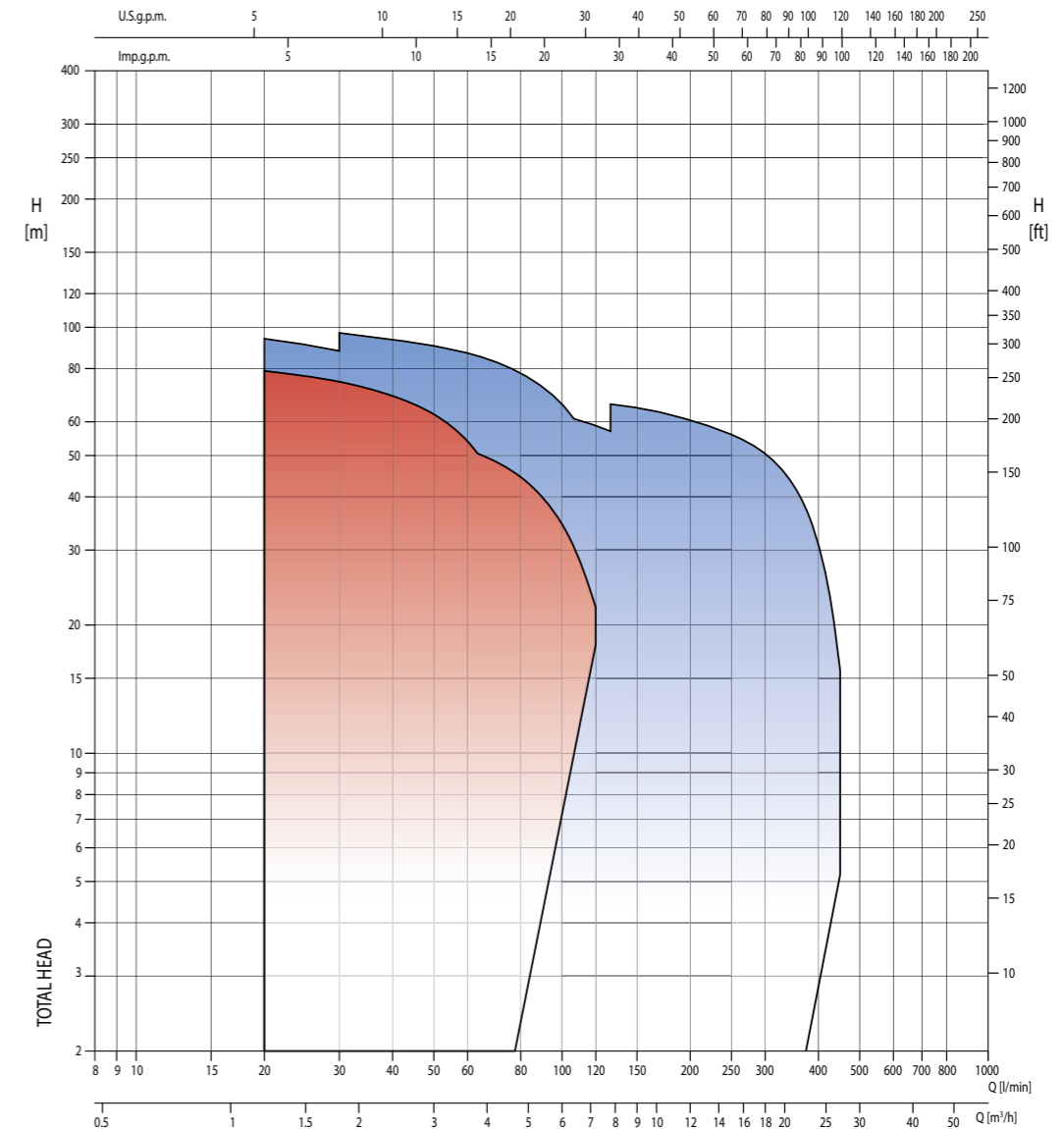
- Total head from 98.5 to 6.4 m
- Capacity from 1.2 to 7.2 m<sup>3</sup>/h
- Hydraulic efficiency index MEI > 0.4
- IE3 high efficiency motors starting from 0.75 kW
- Liquid temperature up to +40°C
- Protection with automatic re-set incorporated for the single phase models

# Horizontal multistage electric pumps

Horizontal multistage electric pumps: the ideal solution for industrial and residential applications where performance and reliability are required. Two series of electric pumps are part of this line: **MATRIX** and **COMPACT**.

The **MATRIX** electric pumps, made of AISI 304 stainless steel, are suitable for multiple uses in both the **industrial** and **residential sectors**. They have various certifications including the WRAS and TIFQ which make them suitable for drinking water. Thanks to the high operating pressure (10 bar) and the renowned robustness, they are ideal for industrial applications such as washing systems or in chillers and hydronic groups.

The **COMPACT** series, instead, is made of cast iron and with a technopolymer impeller and is widely used in the **residential** sector, in domestic pressurisation and clean water handling. This is thanks to its constructive characteristics: **compactness, lightness** and extraordinary **quietness**.



Model	Materials		Technical data
	Pump body	Impeller	
<b>MATRIX</b>	AISI 304	AISI 304	<ul style="list-style-type: none"> <li>Total head up to 97 m</li> <li>Capacity up to 27 m³/h</li> <li>Maximum operating pressure 10 bar</li> </ul>
<b>COMPACT</b>	Cast iron	Technopolymer reinforced with fibre glass	<ul style="list-style-type: none"> <li>Total head up to 79 m</li> <li>Capacity from 1.2 to 7.2 m³/h</li> <li>Maximum operating pressure 10 bar</li> </ul>

# MATRIX



Horizontal multistage centrifugal electric pumps characterised by a **sturdy** and **compact** construction. Available in various versions and models and suitable for many applications: pressure groups, water distribution and treatment, heating and air conditioning, cooling and chiller, irrigation and rainwater recovery, industrial washing and industrial systems.

- Body, impellers, intermediate stages, seal holder disc and shaft (part in contact with the liquid) in AISI 304.
- The standard mechanical seal is in Ceramic/Carbon/EPDM; then there is the possibility of using different types of special seals to reach a temperature range from -15°C to +110°C
- **WRAS**-certified for standard models up to 85°C.
- It is possible to combine these pumps with 2 poles, self-ventilated, high efficiency asynchronous motors.

### Technical Data

- Total head up to 97 m
- Capacity up to 27 m<sup>3</sup>/h
- IE3 high efficiency motors starting from 0.75 kW
- Maximum liquid temperature from -15°C to +85°C (standard) from -15°C to +110°C (TE version for high temperatures)



Available, as an accessory, the **insulation casing** for the pump body for use with coolant liquids or in situations where condensation may occur



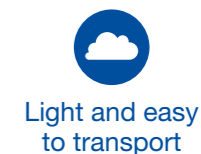
# COMPACT

Extremely **silent** horizontal multistage centrifugal electric pumps. Suitable for pressure increases in general, domestic pressurisation, small garden irrigation, vehicle washing and clean water handling.

- High silence
- The pumps are equipped with 2-pole energy efficient asynchronous motors.

### Technical Data

- Total head from 6 to 79 m
- Capacity from 1.2 to 7.2 m<sup>3</sup>/h
- Maximum operating pressure 10 bar
- Maximum liquid temperature 40°C
- The pump body and the support are in cast iron, the outer jacket is in AISI 304. The impeller and diffuser are made of PPE + PS reinforced with glass fibres and PTFE. The shaft is in AISI 416.
- The mechanical seal is in Ceramic/Carbon/NBR





# A driver for your system

Pressure or temperature variations, as well as the variation in the demand for water itself, are situations that commonly occur in water systems, whether this relates to heating systems or in general to distribution and pressurization, irrigation or industrial uses. Responding promptly to these variations means **improving the efficiency** and **reliability** of the entire system. How does this work? EBARA provides a **system that meets these needs**, increases the **versatility** of the plant and offers certain advantages: **E-drive**



Combined with high efficiency motors and thanks to the design and construction of the pump hydraulics EBARA guarantees **high overall efficiency**



**Flexible** and **versatile** solution depending on the system. It is possible to set the inverter with control on the differential pressure, differential temperature and differential flow according to the actual requirement



Remote operation control, either using the ModBus communication protocol, or via the analogue 0-10V and digital analog inputs provided as standard. This makes it a **product that is compatible with the most modern and cutting-edge systems**, in which the interconnection of the various devices is frequently requested



SOFT START and SOFT STOP: ensures starting and stopping controlled by the motor, **increasing reliability and efficiency**



It offers a multitude of standard controls, which **protect the entire electric pump system**: protection against dry running, overcurrent, overvoltage, undervoltage,  $P_{max}$  protection,  $P_{min}$  protection, etc.



# EZ-finder, more than just a simple selector

**EZ-finder**, a way to look for a model of electric pump?? **Much more.** It is the ultimate tool to find and select the right product for your needs. Thanks to the logic of the selector, it is possible to search for a product in **various ways**: according to the duty point, by entering the model name or by selecting the application type. **Simple**, the right product in seconds. EZ-finder is the **ideal tool** available to the installer, the designer or the engineer.

Discover it at the link <https://ezfinder.ebara.com>



Everything  
that you need  
just a click away  
visit our website [www.ebaraeurope.com](http://www.ebaraeurope.com)



## Data book

Complete technical documentation to be consulted to obtain all the data related to the pumps



## Instruction manual

The manual with all the information needed for correct installation of our pumps



## Kensaku

a system for the selection of spare parts



## Ez-finder

The correct pump selection software for every need  
<https://ezfinder.ebara.com>



## Service

A team of professionals at your disposal to advise you in your choice of pump and to offer post sale assistance

# EBARA sales network

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