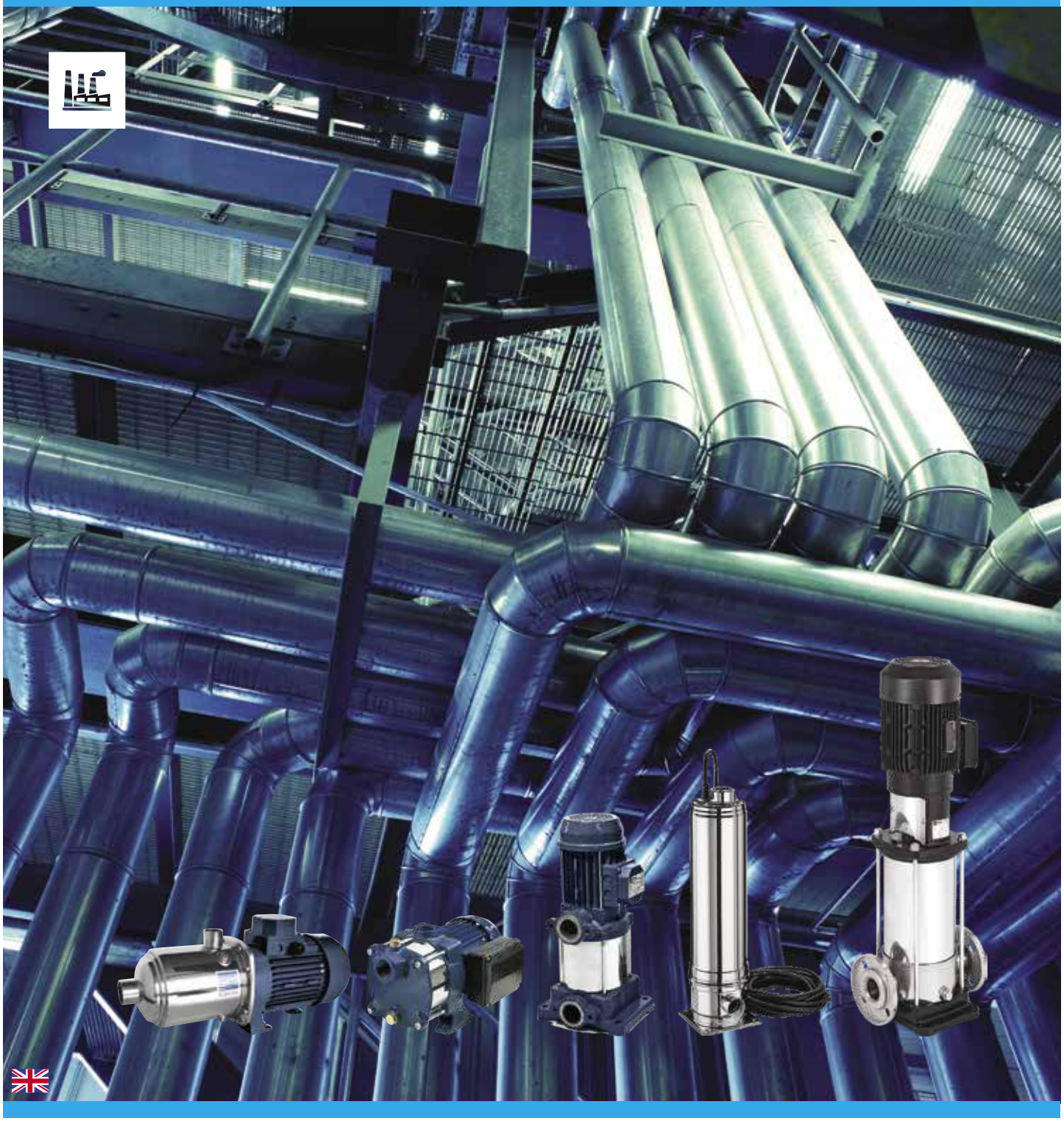
Looking ahead,
going beyond expectations

Ahead Beyond

EBARA

Multistage electric pumps

Product Catalogue



EBARA

www.ebaraeurope.com

Looking ahead,
going beyond expectations

Ahead Beyond

Multistage, multiuse, multifunction

Multistage electric pumps are an **excellent solution** to guarantee high performances: the stages that make up the hydraulic unit allow the reaching of very high pressures.
Our range is divided into two different types: **vertical** multistage and **horizontal** multistage. Each with its own peculiarities, specific features to better adapt to a specific application area or system, allowing it to cover a **truly vast area of applications**.

Domestic pressurisation and the supply of drinking water, industrial washing systems and pressure increases, as well as heating or cooling and rainwater recovery, are all situations that find the **right product** in this range. Our pumps ensure, in all these uses, reliability, high performance and energy efficiency thanks to innovative and cutting-edge technical solutions.

The efficiency and **reliability** of the multistage pumps are further improved by the possibility of using the inverter technology systems, for an **energy** and **economic** saving of the entire system and an improvement of **environmental sustainability**.

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

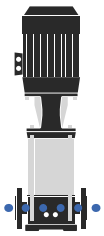
Vertical multistage electric pumps

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.

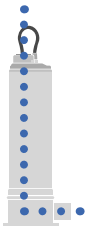
Following the **MULTIGO** range: the only one of the EBARA multistage in which the motor cooling takes place thanks to the pumped liquid that makes them suitable for both in-tank and surface applications.
Completing the series are the **CVM** models featuring glass fibre reinforced technopolymer stages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

CONFIGURATIONS

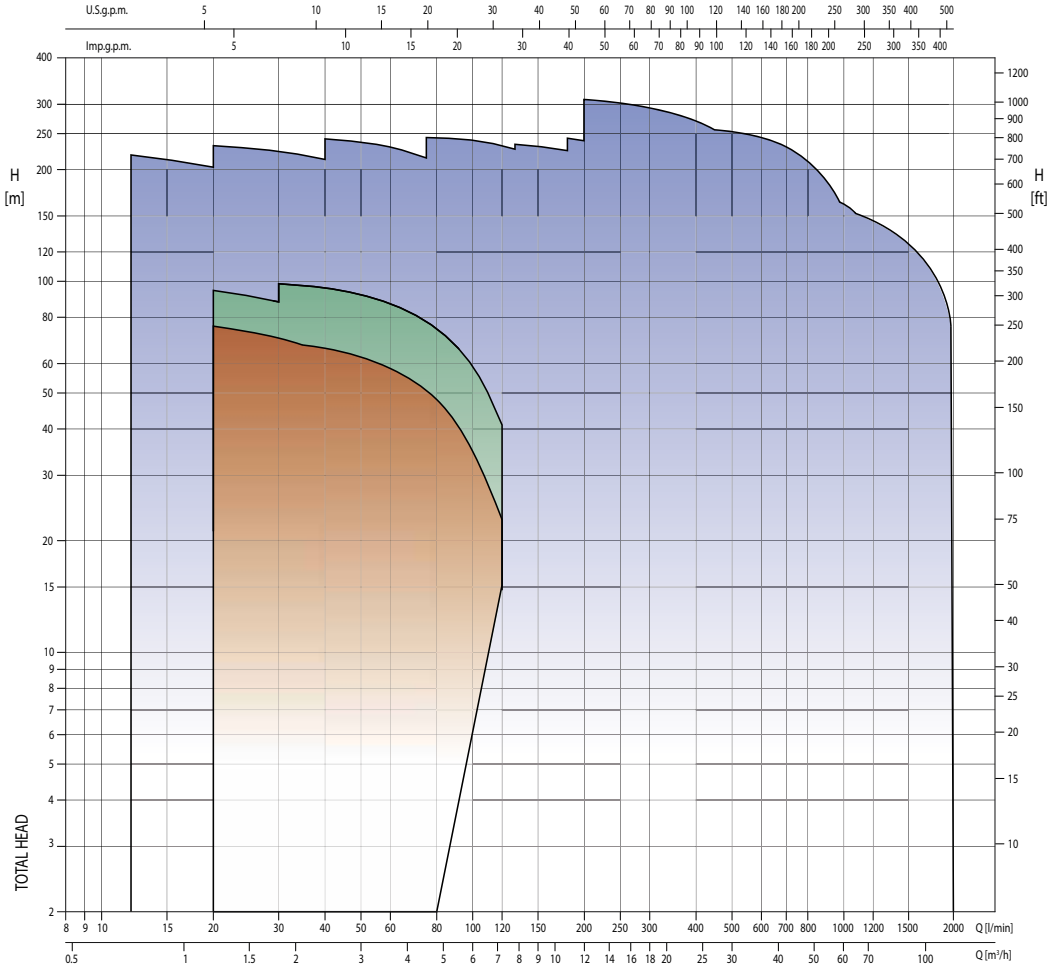


"IN-LINE" TYPE
Suction and discharge are positioned on the same axis

"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	
EVMS	**EVMS:** AISI 304 **EVMSG:** cast iron **EVMSL:** AISI 316	**EVMS:** AISI 304 **EVMSG:** AISI 304 **EVMSL:** AISI 316	• Total head up to 320 m • Capacity up to 120 m³/h • Maximum operating pressure: 16 - 25 - 30 - 35 bar
MULTIGO	AISI 304	Technopolymer reinforced with fibre glass	• Total head up to 75.7 m • Capacity up to 7.2 m³/h • Maximum operating pressure: 9 bar
CVM	Cast iron	Technopolymer reinforced with fibre glass	• Total head up to 98.5 m • Capacity up to 7.2 m³/h • Maximum operating pressure: 11 bar

EVMS

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

Technical data
- Total head up to 320 m
- Capacity up to 120 m³/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

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.

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.

Shurricane®

The Shurricane 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 Ceramic/Carbon/NBR.
- 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^3/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

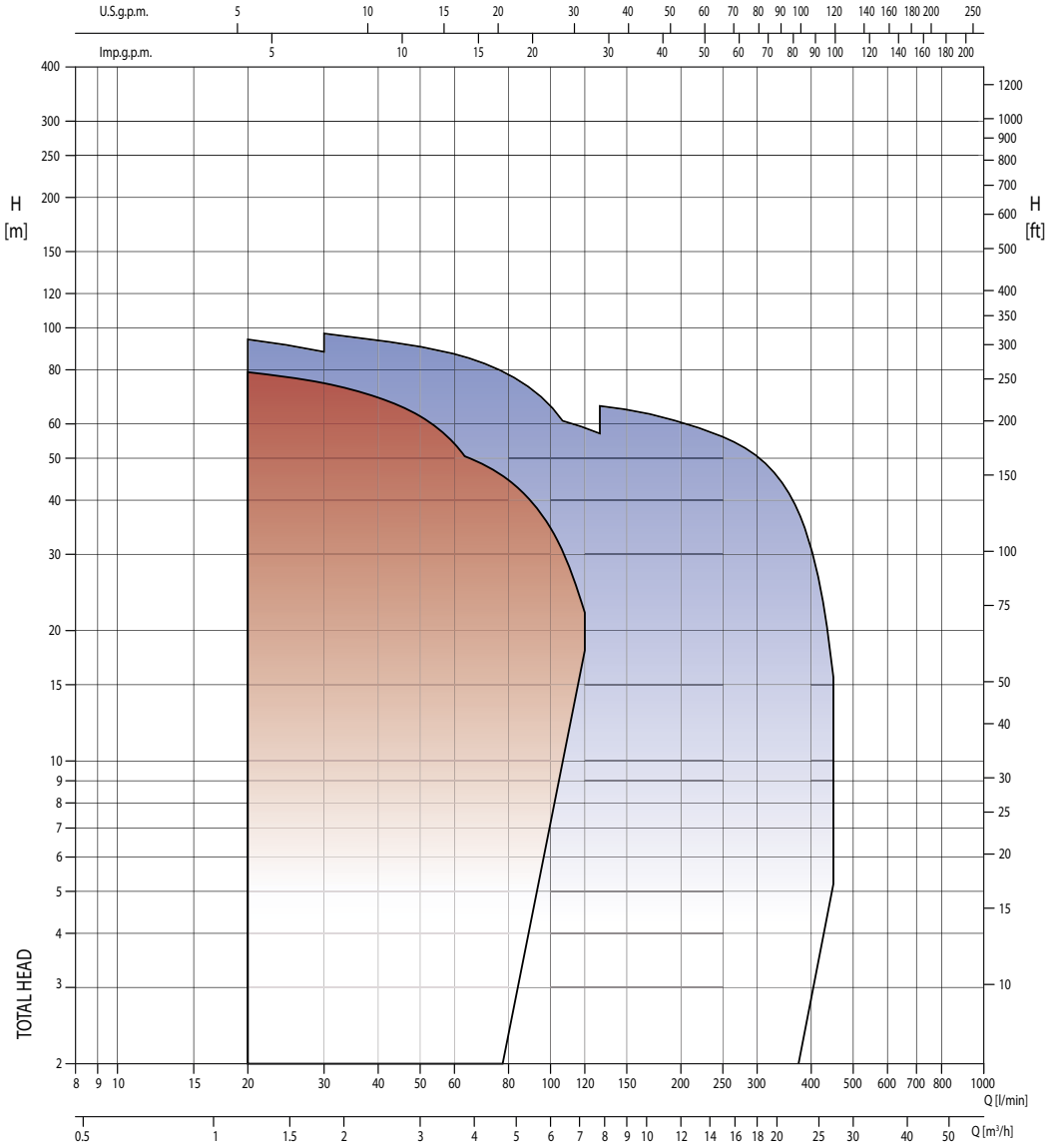
- Total head from 98.5 to 6.4 m
- Capacity from 1.2 to 7.2 m^3/h
- Hydraulic efficiency index MEI > 0.4
- IE3 high efficiency motors starting from 0.75 kW
- Liquid temperature up to +40°C
- Protection with automatic re-set incorporated for the single phase models

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 DM174 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	
MATRIX	AISI 304	AISI 304	• Total head up to 97 m • Capacity up to 27 m³/h • Maximum operating pressure 10 bar
COMPACT	Cast iron	Technopolymer reinforced with fibre glass	• Total head up to 79 m • Capacity from 1.2 to 7.2 m³/h • Maximum operating pressure 10 bar

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.

Sturdy construction

Compact Design

Approvals suitable for drinking water treatment

Technical Data

- Total head up to 97 m
- Capacity up to 27 m^3/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^3/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

Sturdy construction

Particularly silent

Light and easy to transport

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 they are civil pressurisation systems or related to irrigation or industrial uses.
Responding promptly to these variations by linking the operation of the pump to these events means **improving the efficiency** and **reliability** of the entire system.

E-SPD

E-SPD is the new inverter introduced by EBARA, with air cooling, to be installed directly on terminal box of the EBARA motors, it has all the characteristics to satisfy all customer needs.

Easy: E-SPD is easy and intuitive, with terminal box mounting and easy connection, along with the easy to use start up wizard to save time.

Flexibility: E-SPD can be adapted to EBARA centrifugal pumps including both horizontal and vertical

Versatility: E-SPD can be either mounted directly on the terminal box of ETM or EBARA branded motors, or wall mounted with the optional wall bracket

Visibility: E-SPD has a large LCD display that can indicate important performance data, system parameters and alarm notifications.

Safety: E-SPD provides both protection for the motor and the pump preventing common problems like overcurrent, overheating, voltage protection, dry running and water leaks.

Connectivity: E-SPD can offer multiple connections with 2 digital inputs and outputs as standard, along with 1 analogue input and dedicated communication port for linking up to 8 inverters for multiple pump systems.

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

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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sales@ebara.com.au
www.ebara.com.au/index.html

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.:
164980-2014-AE-ITA-ACCREDIA

Data prima emissione/Initial date:
14 ottobre 2014

Validità:/Valid:
14 ottobre 2017 - 14 ottobre 2020

Si certifica che il sistema di gestione di/This is to certify that the management system of

EBARA PUMPS EUROPE S.p.A.

Sede Legale: Via Pacinotti,32 - 36040 Brendola (VI) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Ambientale/
Has been found to conform to the Environmental Management System standard:

UNI EN ISO 14001:2015 (ISO 14001:2015)

Valutato secondo le prescrizioni del Regolamento Tecnico RT-09/
Evaluated according to the requirements of Technical Regulations RT-09

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione e produzione di pompe e sistemi di pompaggio attraverso le fasi di stampaggio plastica, taglio lamiera e coils, stampaggio lamiera, saldatura, tornitura e fresatura, lavaggio, passivazione, lucidatura, verniciatura, assemblaggio e collaudo

(Settore EA: 18 - 17 - 14)

This certificate is valid
for the following scope:

Design, and manufacturing of pumps and pumping systems by means of plastic moulding, metal cutting and shearing, metal stamping, welding, machining and milling, cleaning, passivation, polishing, painting, assembly and testing

(EA Sector: 18 - 17 - 14)

Luogo e Data/Place and date:
Vimercate (MB), 12 ottobre 2017

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

Per l'Organismo di Certificazione/
For the Certification Body

Nicola Privato
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l., Via Energy Park, 14 - 20871 Vimercate (MB) - Italy. TEL:039 68 99 905. www.dnvgl.it/assurance

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato No./Certificate No.:	Data prima emissione/Initial date:	Validità/Valid:
CERT-17819-2006-AQ-VEN-SINCERT	13 ottobre 2006	10 ottobre 2015 - 10 ottobre 2018

Si certifica che il sistema di gestione di/This is to certify that the management system of

EBARA PUMPS EUROPE S.p.A.

Via Pacinotti, 32 - 36040 Brendola (VI) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/
has been found to conform to the Quality Management System standard:

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione, vendita e commercializzazione di pompe e sistemi di pompaggio

(Settore EA: 18 - 17 - 14)

This certificate is valid
for the following scope:

Design, manufacture, sales and trade of pumps and pumping systems

(EA Sector: 18 - 17 - 14)

Luogo e Data/Place and date:
Vimercate, 06 agosto 2015

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F
EMAS N° 009 F
PRD N° 003 B
PRS N° 094 C
SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

Per l'Organismo di Certificazione/
For the Certification Body

Vittore Marangon
Management Representative

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Looking ahead,
going beyond expectations

Ahead Beyond

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EBARA Pumps Europe S.p.A. reserves the right to make changes without notice: all the specifications may be subject to change

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