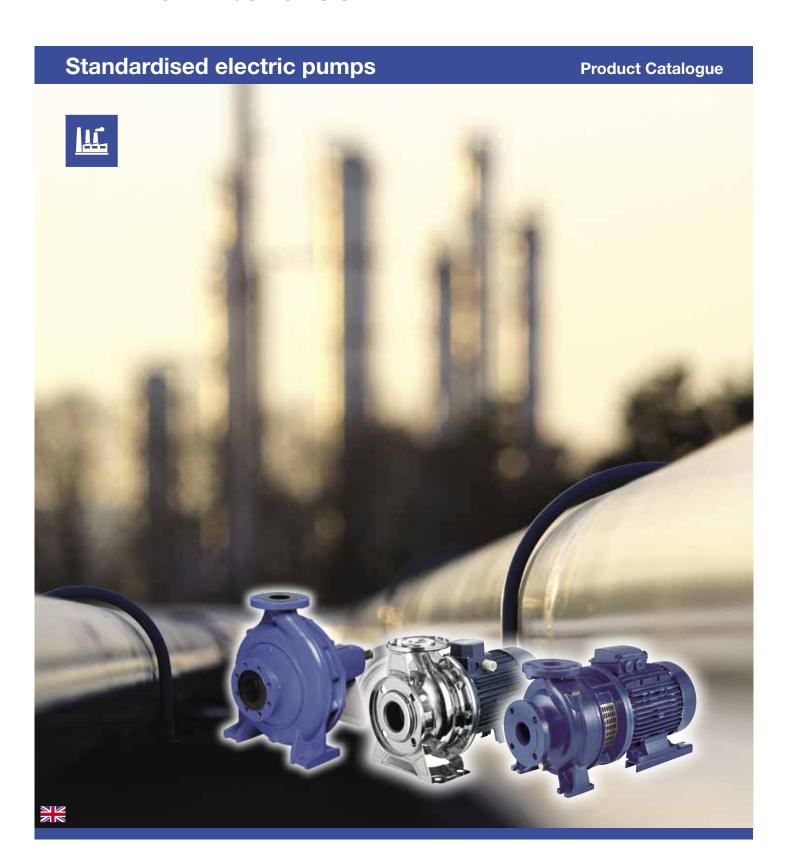
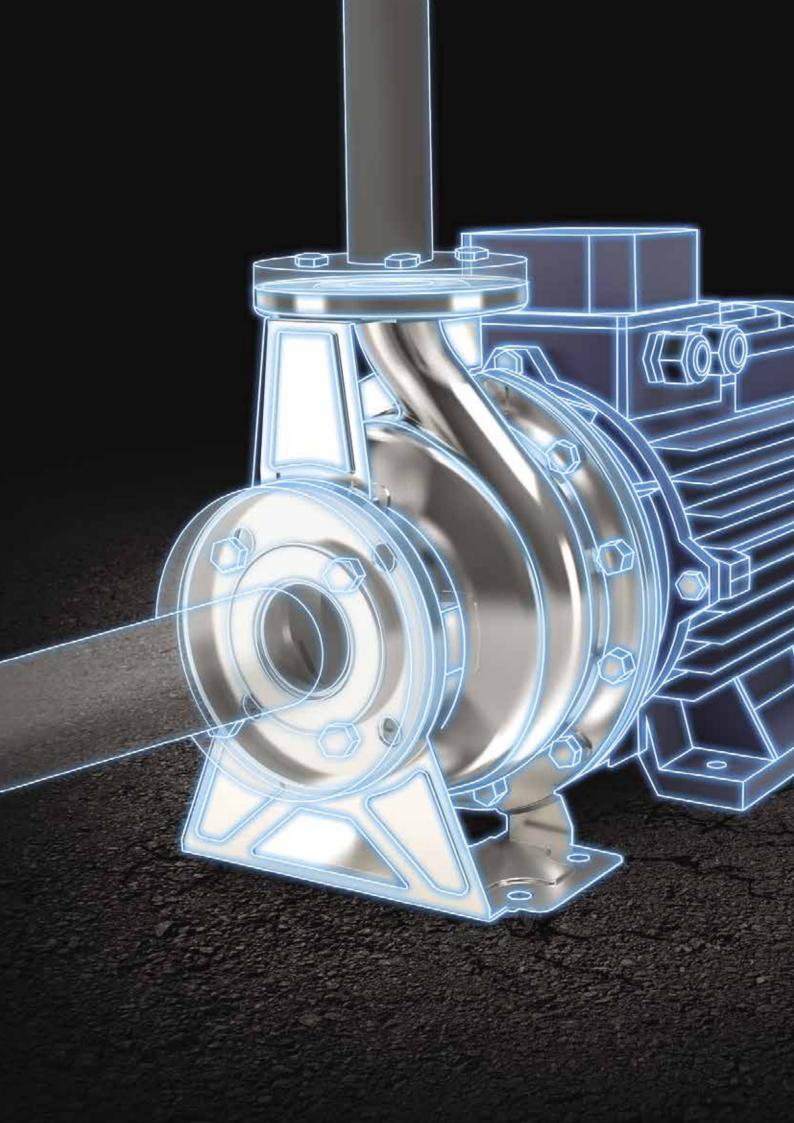




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Extraordinarily standardised

The centrifugal electric pumps standardised according to the EN733 standard, with axial suction and radial discharge, are the flagship of the EBARA products.

They stand out for the quality and reliability of the individual components, for the vastness of the range and for the variety of solutions offered.

The motors available for the various models that make up the range are energy efficient 2- or 4-pole motors. The efficiency and reliability of the pumps is improved by the possibility of using the inverter technology systems present in the EBARA range in different types, for an energy and economic saving of the entire system and an improvement of environmental sustainability.

EBARA is a fundamental partner for the supply of pumping systems. This is why it is important to supply not only the electric pumps, but also the complementary products for the system. EBARA offers a wide range of accessories for standardised electric pumps,

including: special seals, variable speed control systems, electrical panels,

vessels and floats.







Different needs, a unique range

Making a range complete means **combining** the different needs of the sectors in which the pumps will be used with **innovative**, **reliable**, **efficient** solutions to operate successfully, even in the most difficult and challenging of conditions.

The range consists of **3 SERIES**, available in AISI 304 or AISI 316 stainless steel in a monobloc versions, with a rigid joint, with a flexible joint and also in the "Z version" with adjustable foot; then there is the **3D SERIES**, standardised cast iron electric pump with AISI 304 impeller, also available with monobloc motor, rigid coupling, flexible coupling. Completing the 3D SERIES are the pumps of the **MD – MMD** series, monobloc electric pumps with elongated shaft and impeller in AISI 304 steel for the MD, and cast iron impeller for the MMD.

The **GS** electric pumps, that combine the best technical and performance characteristics in a single solution, integrate an already comprehensive range.







Sectors and Areas of application

The range of EN733 standardised electric pumps is suitable for different types of use, from industrial applications to irrigation, from air conditioning and heating to washing systems and in all those applications that require reliability and efficiency as well as reduced cost management.



Water supply

For water supply in civil, agricultural or industrial plants



Pressurisation

For the pressurisation of water in residential, commercial, industrial and agricultural areas ensuring an efficient water supply



Fir-fighting

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



Irrigation

To make available the water necessary for crops



Washes

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



Air-conditioning

For the circulation of water in air conditioning systems



Heating

For the circulation of water in heating systems



Handling

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

For the emptying of tanks





Perfect interchangeability

3D SERIES - MD - MMD

Pump body made of cast iron EN-GJL-250-EN 1561 (fig. 1).

3 - 3L SERIES

The external structure has been tested at a pressure of 14 bar in a sequence of 1 million cycles, reinforced to withstand the stresses and strains of the system, high hydraulic efficiency thanks to the volute obtained by hydroforming.

Pump body made of AISI 304 for 3 SERIES and of AISI 316L for the 3L SERIES pumps, for the 65-250 pumps and the 80-160/200/250 pumps of the 3L SERIES, it is made of AISI 316 micro-cast (fig 2).





Impeller

Hydraulically balanced to prevent axial thrusts against the seal, it achieves 80% efficiency.

Made of stainless steel AISI 304 for 3 SERIES - 3D SERIES - MD, in AISI 316 for the 3L SERIES - 3D 65, in cast iron for the MMD.

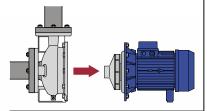




3 - 3D - MD - MMD SERIES

Back pull-out design

It allows removal of the motor, the coupling, the cantilever support and the impeller without compromising the housing of the pump body or removing the pipes.





Several options

The many types of mechanical seal that can be mounted on the electric pumps allow the use of special materials and therefore adapt to different needs based, for example, on the type of liquid, the temperature or other factors of use covering, depending on the models, the following temperature range:

- -10°C ÷ 90°C for versions with standard seals
- -20°C ÷ 120°C for versions with special seals



Materials available for the impeller

All the GS family models are available with cast iron or bronze impeller to ensure the best solution for various applications.

the GS models have two replaceable bronze wear rings as standard.





MODEL GS

Back pull out design and shielded bearings

This configuration ensures disassembly and inspection of the pump without having to remove it from the system piping. Furthermore, the use of shielded bearings eliminates the need to add or replace lubricating oil.

This solution facilitates and speeds up maintenance.



Sealing options

The seal is available in two different versions:

- SiC/Carbon/EPDM mechanics for liquid temperature up to 120°C
- A packing that guarantees resistance to wear and ensures that the tightness of the entire system is monitored visually



One range, multiple solutions

Type of product

Standardised single-stage centrifugal pumps (EN 733)

Liquid temperature range

from -10°C to + 90°C for the standard version of the 3-3D-MD-MMD SERIES (depending on the model)

from -10°C to + 120°C for the Model GS

from -20°C to + 120°C for the special versions of the 3-3D-MD SERIES (depending on the model)

Maximum working pressure

10 bar (16 for Model GS)

Materials available

Stainless steel AISI 304 for 3 SERIES
Stainless steel AISI 316L for 3L SERIES
Micro-cast stainless steel AISI 316 for the 3L SERIES 65-250, 3L SERIES 80
Cast iron for the 3D SERIES-MD-MMD e Model GS

Regulations

It complies with regulations ErP 547/2012 (index MEI > 0.4), 640/2009 (motors in IE3 efficiency class) EN 733



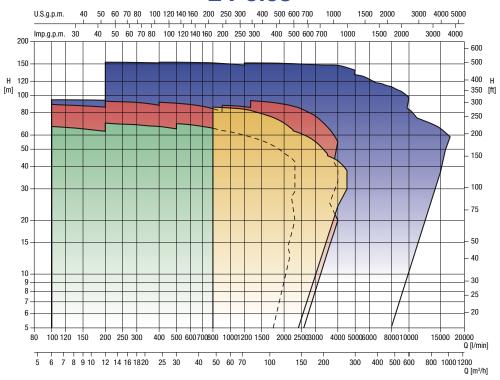




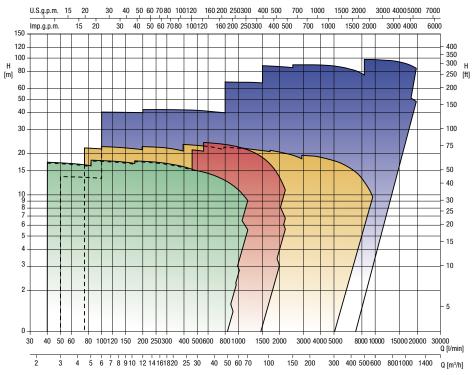








4 Poles





3D SERIES







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.



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



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