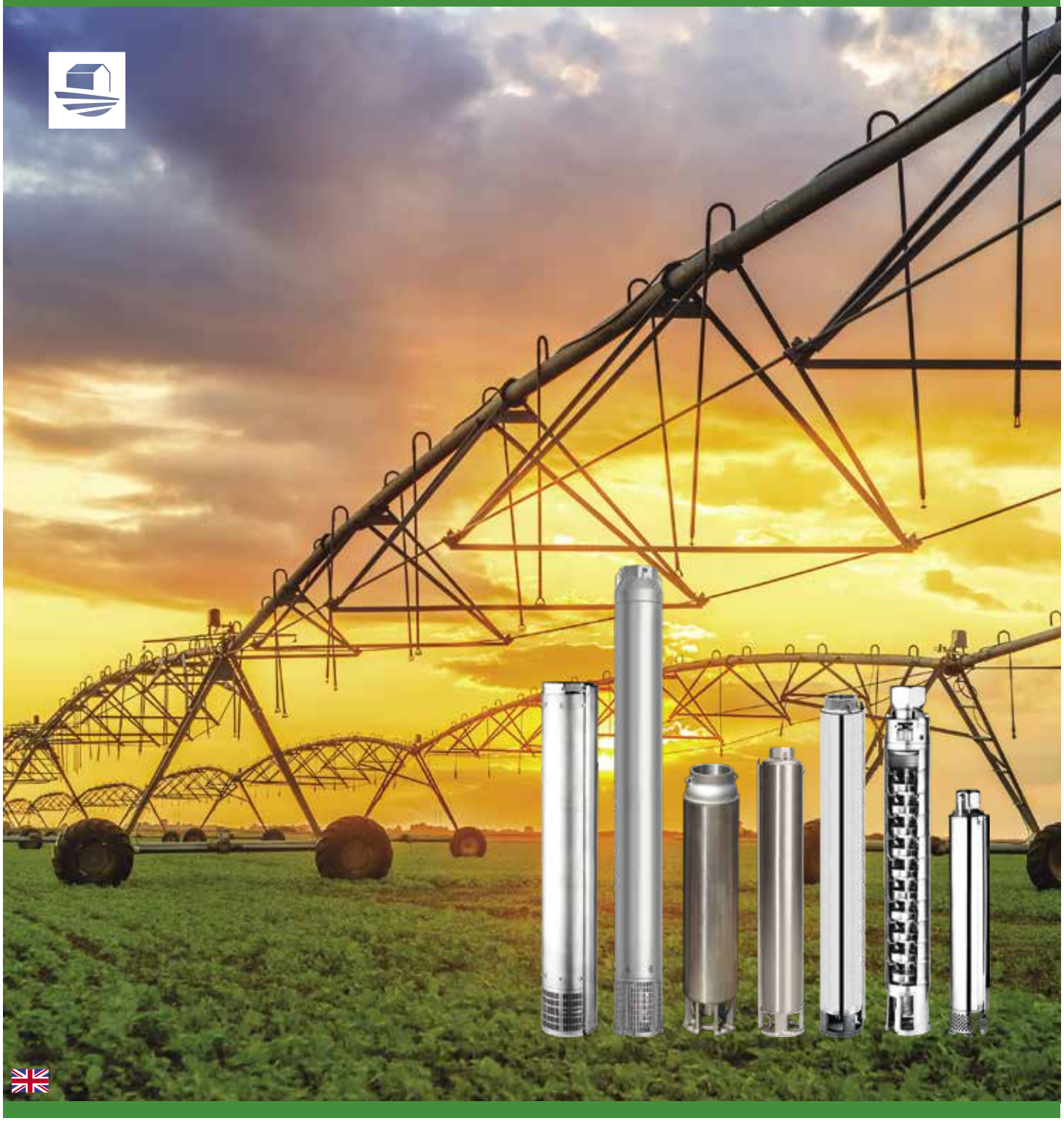
Looking ahead,
going beyond expectations

Ahead > Beyond

EBARA

Borehole Pumps

Product Catalogue



Looking ahead,
going beyond expectations

Ahead Beyond

Reliable, versatile, efficient.

The wide range of **borehole pumps** from 3” to 8” ensures high performance and ease of use.
From lifting, distribution and pressurisation of industrial systems to fire-fighting groups, from HVAC applications to fountains and the movement of clear water from wells and cisterns, our submersible pumps guarantee reliability, high resistance to corrosion and high efficiency thanks to special technical and constructive solutions.

The possibility of choice between different **motors** and **electrical panels** makes the range versatile and flexible to suit different types of use.

The efficiency and reliability of the pumps is enhanced by the ability to use inverter technology systems, including *E-SPD* and E-*drive*, for energy and cost savings of the entire system and an improvement of environmental sustainability.

RELIABILITY

VERSATILITY AND FLEXIBILITY

HIGH RESISTANCE TO CORROSION

HIGH EFFICIENCY

Sectors and Areas of Application

Water movement
For the movement of clear water from wells in residential and domestic uses and to ensure the correct level of comfort

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

Irrigation
To make available the water necessary for crops

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

Washing
For the creation of washing systems used in industry

Water supply
For the supply of clear water in domestic, agricultural and industrial applications

Water treatment
For use in water treatment plants, such as reverse osmosis

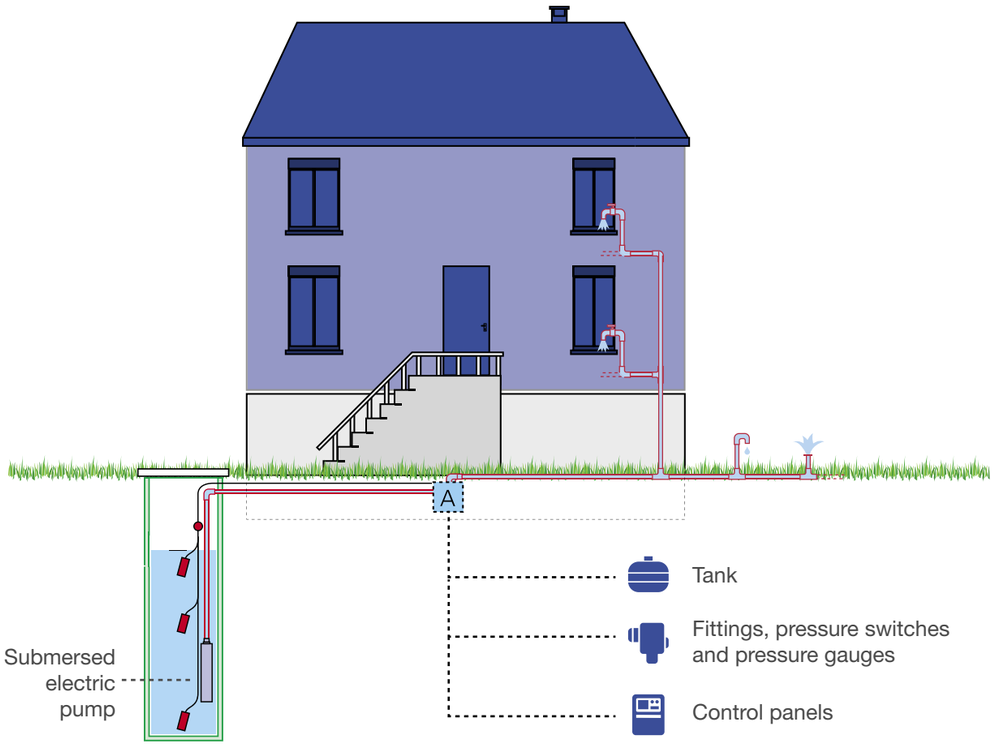
Cooling systems
To ensure the circulation of water in domestic and industrial cooling processes

Fountains
For the efficient circulation of process water ensuring the required performance

Ease of installation

Simplicity, flexibility, easy maintenance.
They are all features that make the difference and are important for the installation of a pump. EBARA submersible electric pumps include: simple design, high quality components optimised for the best performance, the possibility of performing quick, easy maintenance without the need for special equipment, flexibility of choice between 3”, 4”, 6” and 8” motors, with the adapter joint that allows the combination of the pump body and motor most suited to requirements and a wide selection of accessories to complete the functionality of our submersible pumps.

With these characteristics, the installation of EBARA pumps is quick, simple, accessible to all, and makes these pumps ideal for every application.



Discharge
The discharge casing of the different models is designed to reduce leaks, to increase resistance and to offer convenient securing to the supply pipe

Non-return valve
The non-return valve is designed to discharge the weight of the water column and allows the damping of any overpressure introduced into the system

External casing
The cooling casing is made of AISI 304 stainless steel. They have particular technical features that ensure perfect alignment of the components

Impeller
The impellers ensure our pumps a high volumetric efficiency and are designed to support axial thrust avoiding resting on the motor shaft. Made of different materials, they are designed to reduce friction, have high resistance to erosion and a long life

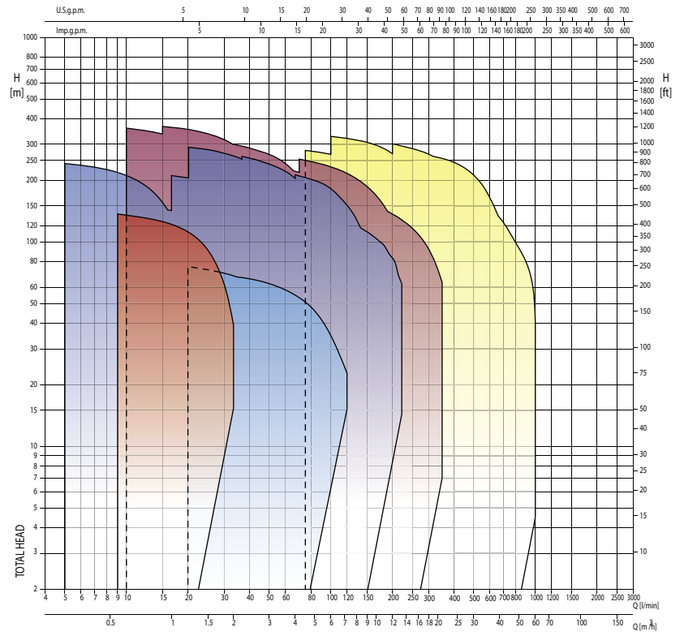
Motor joint
The motor joints comply with NEMA standards and the supports are designed to ensure the best possible resistance

Bespoke for everyone.

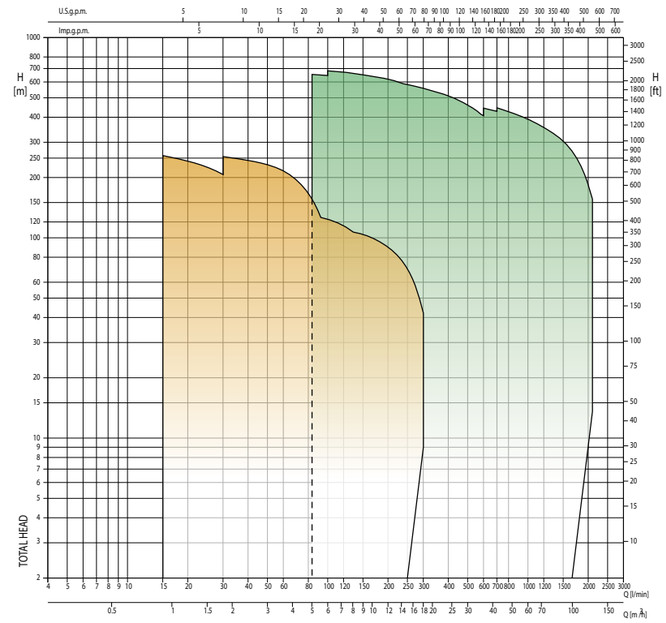
Wells for small domestic applications or for watering the garden. Large and deep wells with requests for large flow rates for the pressurisation of residential buildings, fire-fighting groups or industrial applications.

EBARA includes within the range of its submersible pumps **different types** of products, which differ in **diameter**, **materials** used and **performance** range.

SB3, the smallest with a diameter of 3”, combines the advantages of the AISI 304 stainless steel components with the advantages of technopolymer hydraulics, followed by 4” WINNER 4N, 4WN and 4BHS. The **WINNER 4N** and the **4WN** have stainless steel components and technopolymer impellers while the **4BHS** is made **entirely of stainless steel.** The range also includes **IDROGO**, 5” electric pump. It has an external casing, filter and closing ring in AISI 304 stainless steel, while the impeller and diffuser are in polypropylene and polystyrene (PPE + PS). Then there are **SF6** and **6BHE** which are 6” electric pumps. The first has a stainless steel outer casing and PPO impellers reinforced with glass fibres, the second is **entirely in AISI 304 stainless steel** and is also available in **AISI 316** (6BHEL).
The product series is completed by the **8BHE**, an 8” submersible electric pump, also **completely in AISI 304 stainless steel** and also in the **AISI 316** (8BHEL) version.



SB3 **4WN** **IDROGO** **WINNER 4N** **SF6**



4BHS **6-8BHE(L)**

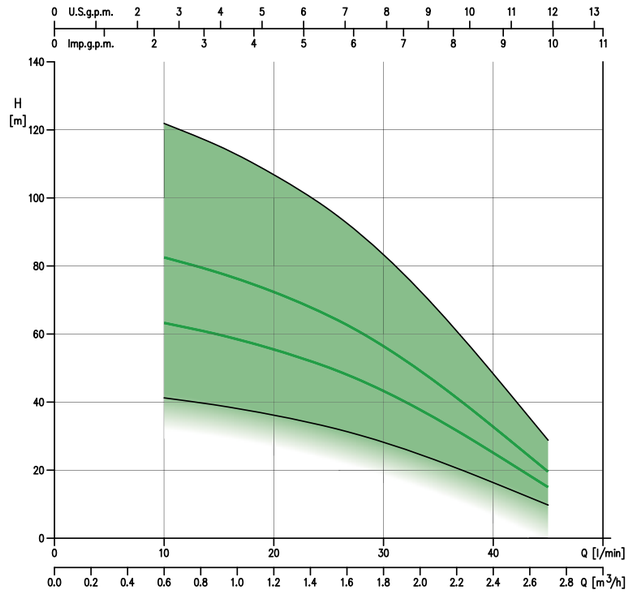
SB3

3” submersible centrifugal pump

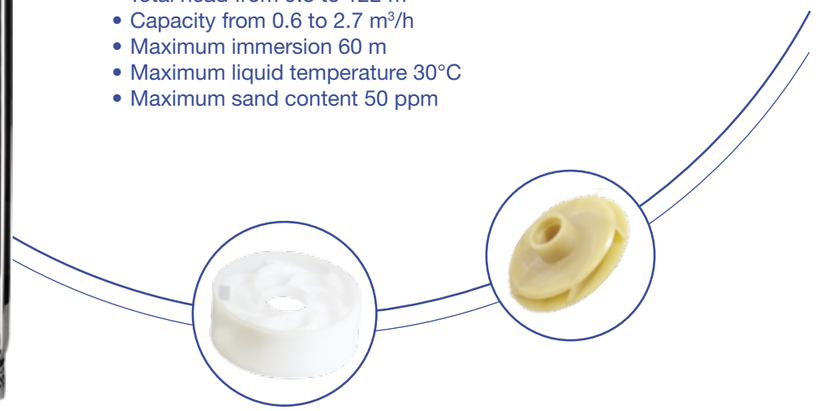
Casing, discharge casing and motor joint are in AISI 304. Polyacetal resin POM diffuser. Impeller in PPO, glass fibre reinforced polymer.
Especially recommended for the movement of clear water in wells, the pressurisation of clean water for agricultural use, industrial use and for the irrigation and pumping of water in general.

Suitable for horizontal operation

Silent



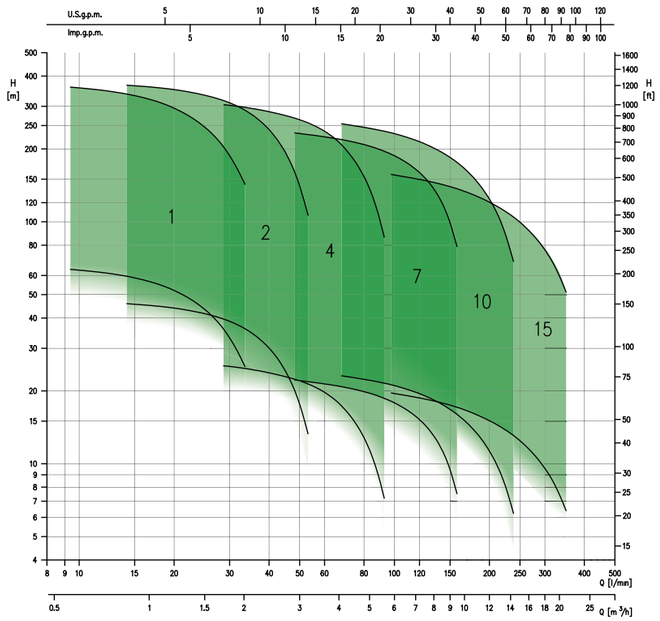
- Total head from 9.8 to 122 m
- Capacity from 0.6 to 2.7 m³/h
- Maximum immersion 60 m
- Maximum liquid temperature 30°C
- Maximum sand content 50 ppm



WINNER 4N

4” submersible centrifugal pump

4” submersible centrifugal electric pump in AISI 304 with floating impellers with frontal shim. Outer casing, shaft and valve are in AISI 304. Discharge casing in EN 1.4308 (ASTM CF8). The impeller is in Ixef® (glass fibre reinforced thermoplastic) for 4N1 - 4N2 - 4N4 - 4N7 models, in glass fibre reinforced polycarbonate for 4N10 - 4N15 models, PPE+PS diffuser reinforced with glass fibres. Particularly recommended for the movement of clear water in wells, the pressurisation of clean water for agricultural, domestic or industrial use, or for the irrigation and movement of water in general.



Suitable for horizontal operation

High resistance to corrosion

Easy installation

- Total head from 6.2 to 367 m
- Capacity from 0.6 to 21 m³/h
- Maximum immersion:
  - 350 m (water filled motor)
  - 150 m (oil filled motor)
- Maximum liquid temperature 40°C
- Maximum sand content 50 ppm
- Maximum chlorine content 500 ppm
- MEI > 0.4

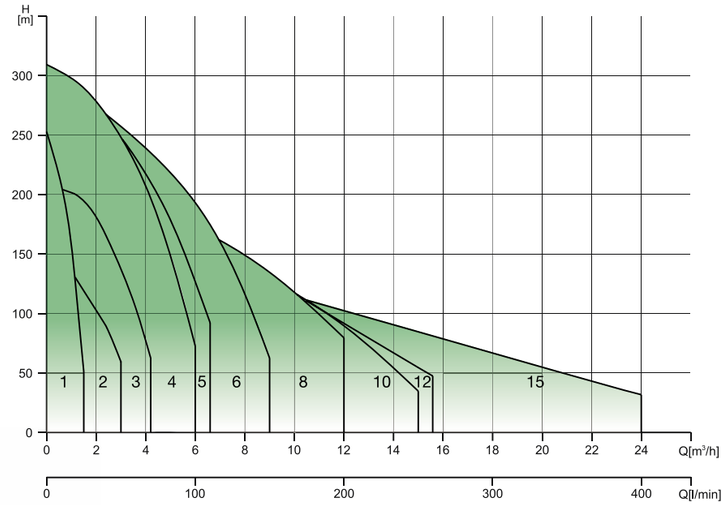
4WN

4” submersible centrifugal pump

4” submersible centrifugal electric pump in AISI 304 with a thick outer stainless steel casing, the discharge casing and the lower support are made of micro-cast stainless steel, the stainless steel non-return valve, as well as the stages, the pump shaft, the coupling joint and the stainless steel filter grid. Floating Noryl impellers and glass fibre reinforced polycarbonate diffusers. Motor coupling in accordance with the NEMA standards.
Particularly recommended for the movement of clear water in wells, the pressurisation of clean water for agricultural, domestic or industrial use, or for the irrigation and movement of water in general.

High resistance to corrosion

Easy installation

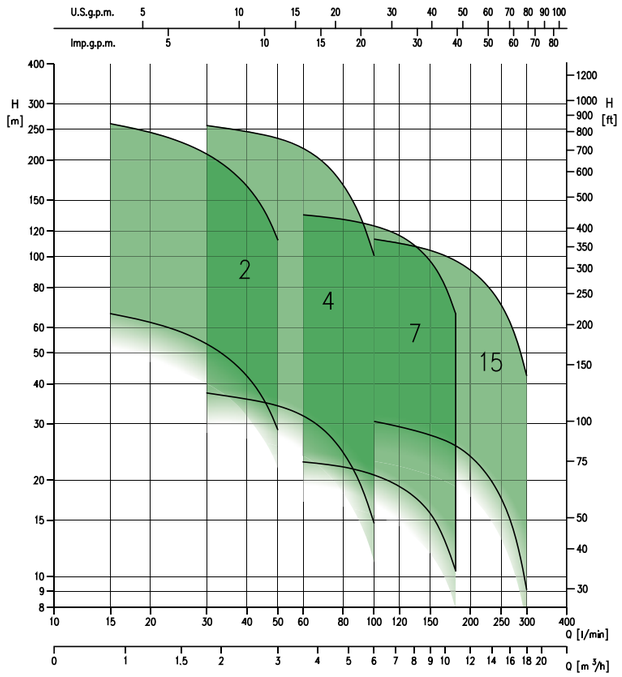


- Total head from 3 to 289 m
- Capacity from 0.3 to 24 m³/h
- Maximum immersion 150 m
- Maximum liquid temperature 35°C
- Maximum sand content 50 gr/m³
- MEI > 0.4 (from 4WN1 to 4WN5)

4BHS

4” submersible centrifugal pump

4” submersible centrifugal electric pump made entirely of AISI 304 stainless steel.
Suitable for coupling with NEMA-compliant motors.
The discharge casing and the motor support are made of molded stainless steel. Support, openings, joint, impeller, diffuser, valve, stages, tie rods and cable cover in EN 1.4301 (AISI 304). The shim ring in EN 14.301 (AISI 304) + EPDM while the shaft in EN 1.4401 (AISI 316). Radial bearings, axial bearings and thrust bearing are made of tungsten carbide. Suitable for domestic, agricultural and industrial water supply systems, pressurisation systems, for fire-fighting, irrigation, washing for and clear water movement in general.



High resistance to corrosion

Easy installation

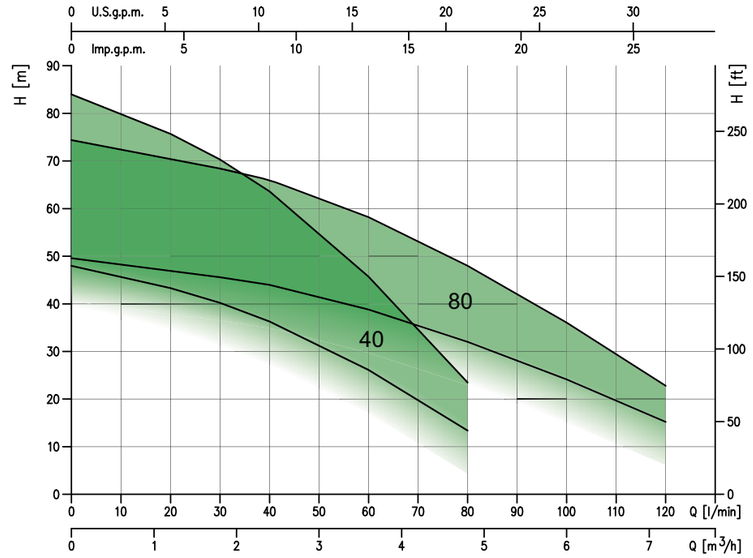
- Total head from 9.1 to 260 m
- Capacity from 0.9 to 18 m³/h
- Maximum immersion 350 m (water filled motor)
  150 m (oil filled motor)
- Maximum liquid temperature 30°C
- Maximum sand content 50 ppm
- Maximum chlorine content 500 ppm
- MEI > 0.4 (only for 4BHS 2 - 4 - 7)

IDROGO

5” submersible centrifugal pump

External casing, motor cover, seal housing disc, filter and closing ring in AISI 304 impeller, diffuser and spacer in PPE+PS reinforced with fibreglass and shaft in AISI 431. Upper mechanical seal (motor side) in Carbon/Ceramic/NBR while the lower one (pump side) in SiC/Carbon/NBR.
Movement of clean water from wells, cisterns and tanks, the pressurisation of domestic systems, small irrigation, the washing of vehicles and increases in pressure in general.

Suitable
for horizontal operation



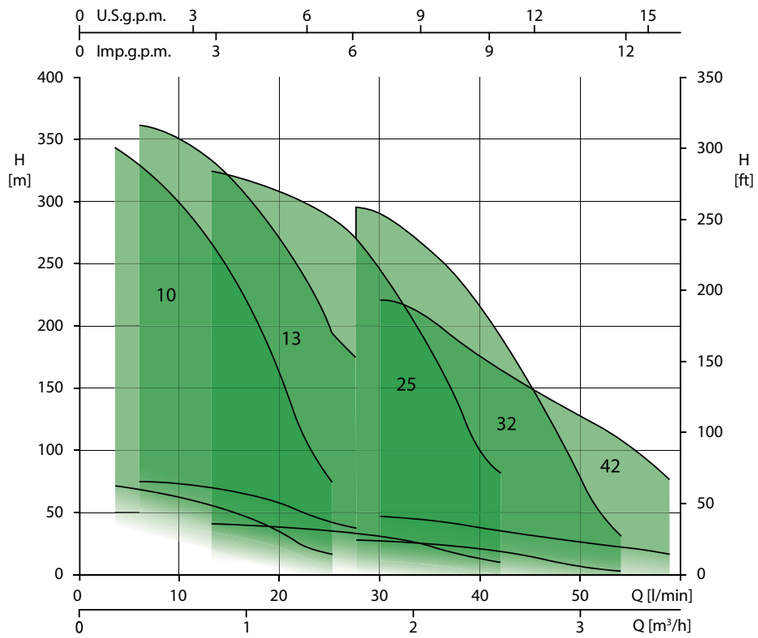
- Total head from 10.3 to 75.7 m
- Capacity from 1.2 to 7.2 m³/h
- Maximum immersion 150 m
- Maximum liquid temperature 40°C
- Maximum solid size passage 2.5 mm

Impeller, diffuser and spacer in PPE+PS reinforced with fibreglass

SF6

6” submersible centrifugal pump

Discharge and suction casing in AISI 304. Outer casing, spacers, shim rings, non-return valve, cable protection and suction grid in AISI 304. The impellers and diffusers in PPO reinforced with glass fibres. The shaft is in AISI 420. Suitable for water supply systems for civil and industrial use, for pressurisation systems, for irrigation, aqueducts for communities.



- Total head from 4 to 362 m
- Capacity from 3 to 66 m³/h
- Maximum liquid temperature 30°C
- Maximum sand content 50 ppm
- MEI > 0.4 for SF6 R10 - R13

High resistance
to corrosion

Light and easy to
transport

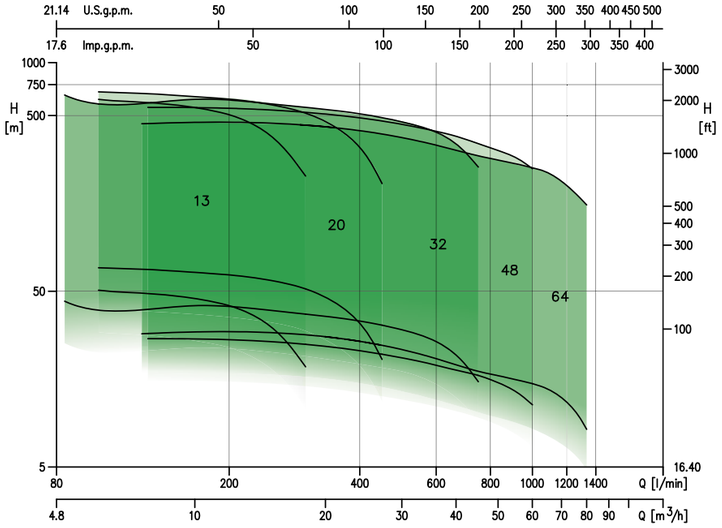
6BHE(L)

6” submersible centrifugal pump

6” submersible pump, stainless steel AISI 316 AISI 304 (**6BHE**) and (**6BHEL**), for deep wells.
Discharge casing, impeller, stages, support and diffuser are in AISI 304 or AISI 316 depending on the model. The shaft is in AISI 431 for 6BHE and AISI 316 + AISI 329 for 6BHEL.
They can be used for water supply from deep wells, for water distribution and pressurisation, irrigation systems, water treatment, filtering and reverse osmosis, industrial cooling systems, fountains and fire-fighting systems.

Suitable for horizontal operation

High resistance to corrosion

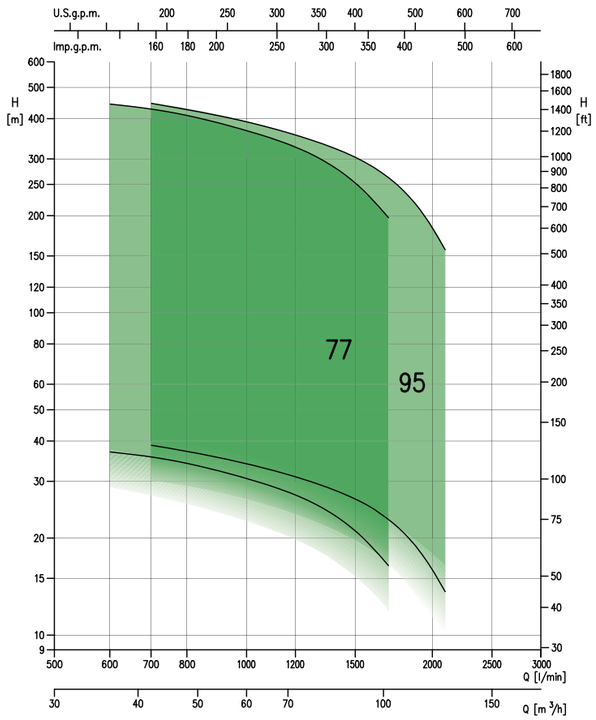


- Total head from 11.3 to 682 m
- Capacity from from 5 to 75 m³/h
- Maximum immersion: 350 m (water filled motor) 150 m (oil filled motor)
- Maximum liquid temperature 60°C
- Maximum sand content 100 gr/m³
- MEI > 0.4 (for all models except 6BHE (L) 13)

8BHE(L)

8” submersible centrifugal pump

8” submerged centrifugal electric pump, for semi-axial flow deep wells, in stainless steel AISI 304 (**8BHE**) or AISI 316 (**8BHEL**).
Developed specifically for high flow pumping needs. Discharge casing, stages and support in AISI 304 or AISI 316 depending on the model. The shaft is in AISI 329 and the impeller in AISI 316.
They can be used for water supply from deep wells, for water distribution and pressurisation, irrigation systems, water treatment, filtering and reverse osmosis, industrial cooling systems, fountains and fire-fighting systems.



Suitable for horizontal operation

High resistance to corrosion

- Total head from 13.6 to 446 m
- Capacity from from 36 to 126 m³/h
- Maximum immersion: 350 m (water filled motor) 150 m (oil filled motor)
- Maximum liquid temperature 60°C
- Maximum sand content 100 gr/m³

Submersed motors

Single phase and three phase, oil filled motor and water filled motor versions

The different availability of electric motors combined with submersible pumps widen the range of pump performance, thus providing the possibility of having the best possible performance in terms of flow rate, prevalence and energy efficiency.

High resistance to corrosion

AISI 316

Available in AISI 316

MAIN FEATURES

The 3”, 4”, 6” and 8” motors make it possible to find the right combination of hydraulic performance and electrical efficiency.
The choice is between **oil filled motors** or **water filled motors**, both available in **AISI 304** stainless steel and in **AISI 316**.
The NEMA-compliant connections ensure flexibility and ease of use.

Cable sizing

Oil filled motors 3”

Example: Motor 0.75 kW - 230V single phase - cable length 75 m = 4x2.5 mm²

Motor	HP	kW	Cable type								
			3x1.5	3x2.5	3x4	3x6	4x1	4x1.5	4x2.5	4x4	4x6
Type 3” Single phase 230V	0.5	0.37	-	-	-	-	50	75	125	-	-
	0.75	0.55	-	-	-	-	38	57	95	152	-
	0.8	0.6	70	120	180	270	-	-	-	-	-
	1	0.75	-	-	-	-	30	45	75	120	174
	1.2	0.9	60	85	125	190	-	-	-	-	-
	2.0	1.5	55	75	90	140	-	-	-	-	-
Type 3” Three phase 400V	0.5	0.37	-	-	-	-	240	-	-	-	-
	0.75	0.55	-	-	-	-	164	246	-	-	-
	1	0.75	-	-	-	-	133	200	233	-	-
	1.5	1.1	-	-	-	-	97	146	244	390	-

Oil filled motors 4” - 6”

Example: Motor 1.1 kW - 230V single phase - cable length 53 m = 4x2.5 mm²

Motor	HP	kW	Cable type								
			4x1	4x1.5	4x2.5	4x4	4x6	4x10	4x16	4x25	4x35
Type 4” Single phase 230V	0.5	0.37	50	75	125	-	-	-	-	-	-
	0.75	0.55	38	57	95	152	-	-	-	-	-
	1	0.75	30	45	75	120	174	-	-	-	-
	1.5	1.1	22	33	53	85	127	210	-	-	-
	2	1.5	-	23	38	63	92	154	246	-	-
	3	2.2	-	-	28	45	67	112	180	-	-
Type 4” Three phase 400V	0.5	0.37	240	-	-	-	-	-	-	-	-
	0.75	0.55	164	246	-	-	-	-	-	-	-
	1	0.75	133	200	333	-	-	-	-	-	-
	1.5	1.1	97	146	244	390	-	-	-	-	-
	2	1.5	72	109	180	290	435	-	-	-	-
	3	2.2	51	78	130	207	310	516	-	-	-
	4	3	41	62	104	167	250	416	-	-	-
	5.5	4	31	46	77	124	186	310	496	-	-
	7.5	5.5	-	33	56	90	135	225	360	-	-
	10	7.5	-	-	-	66	100	165	270	-	-
Type 6” Three phase 400V	5.5	4	-	-	110	160	250	400	-	-	-
	7.5	5.5	-	-	68	108	161	265	415	-	-
	10	7.5	-	-	53	84	126	207	325	-	-
	12.5	9.2	-	-	44	70	104	171	267	413	-
	15	11	-	-	-	59	87	144	223	347	548
	20	15	-	-	-	-	65	107	167	258	350
	25	18.5	-	-	-	-	-	87	136	210	295
	30	22	-	-	-	-	-	75	117	181	246
	40	30	-	-	-	-	-	-	110	180	235

Cable sizing

Water filled motors 4” - 6” - 8”

Example: Motor 0.75 kW - 230V single phase - cable length 73 m = 4x2.5 mm²

Motor	HP	kW	Cable type																		
			4x1	4x1.5	4x2.5	4x4	4x6	4x10	4x16	4x25	4x35	4x50	4x70	4x95	4x120	4x150	4x185	4x240	4x300	4x400
Type 4” Single phase 230V	0.5	0.37	50	76	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.75	0.55	39	58	97	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	0.75	29	44	73	117	175	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.5	1.1	20	30	50	79	119	198	-	-	-	-	-	-	-	-	-	-	-	-
	2	1.5	-	23	39	62	93	156	249	-	-	-	-	-	-	-	-	-	-	-
	3	2.2	-	-	28	45	68	113	181	-	-	-	-	-	-	-	-	-	-	-
Type 4” Three phase 400V	0.5	0.37	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.75	0.55	223	335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	0.75	167	251	418	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.5	1.1	120	179	299	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	1.5	86	129	215	343	515	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	2.2	61	91	152	243	365	609	-	-	-	-	-	-	-	-	-	-	-	-
	4	3	45	67	112	179	268	446	-	-	-	-	-	-	-	-	-	-	-	-
	5.5	4	34	51	85	135	203	338	541	-	-	-	-	-	-	-	-	-	-	-
	7.5	5.5	-	40	66	106	159	266	425	-	-	-	-	-	-	-	-	-	-	-
	10	7.5	-	-	-	78	117	196	313	-	-	-	-	-	-	-	-	-	-	-
Type 6” Three phase 400V	5.5	4	40	60	100	161	242	404	646	-	-	-	-	-	-	-	-	-	-	-
	7.5	5.5	-	45	75	120	180	300	481	-	-	-	-	-	-	-	-	-	-	-
	10	7.5	-	-	60	96	138	228	354	-	-	-	-	-	-	-	-	-	-	-
	12.5	9.2	-	-	48	77	120	192	306	468	-	-	-	-	-	-	-	-	-	-
	15	11	-	-	-	66	102	162	258	396	525	-	-	-	-	-	-	-	-	-
	20	15	-	-	-	-	72	126	192	294	402	546	-	-	-	-	-	-	-	-
	25	18.5	-	-	-	-	60	102	156	240	330	438	576	-	-	-	-	-	-	-
	30	22	-	-	-	-	-	84	132	204	276	372	489	-	-	-	-	-	-	-
	40	30	-	-	-	-	-	-	102	156	210	288	380	490	580	-	-	-	-	-
	50	37	-	-	-	-	-	-	-	123	169	230	310	390	460	550	890	-	-	-
Type 8” Three phase 400V	60	45	-	-	-	-	-	-	-	105	142	200	255	330	387	453	516	800	-	-
	75	55	-	-	-	-	-	-	-	-	117	164	229	270	324	380	435	510	573	-
	100	75	-	-	-	-	-	-	-	-	-	-	160	205	240	290	324	381	429	600
	125	93	-	-	-	-	-	-	-	-	-	-	-	160	190	225	255	300	330	380
	150	110	-	-	-	-	-	-	-	-	-	-	-	-	160	180	183	240	270	400

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 pressurization group to these events means **improving the efficiency** and **reliability** of the entire system.
To do this, different types of inverters are available that offer different modes of operation of the group ensuring optimal operation.
The available options are: ***E-SPD*** and **E-*drive***.

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.

EBARA Pumps Europe

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 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 Pumps Europe

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 Campo Sportivo, 30 - 38023 Cles (TN) - Italy
e i siti come elencati nell'Appendix che accompagna questo certificato / and the sites as mentioned in the appendix accompanying this certificate

È conforme ai requisiti della norma per il Sistema di Gestione Ambientale/
Has been found to conform to the Environmental Management System standard:
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 , avvolgimento di motori elettrici,assemblaggio e collaudo
(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, electrical motors winding, assembly and testing
(EA 18, 17, 14)

Luogo e Data/Place and date:
Vimercate (MB), 24 maggio 2018

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

Per l'Organismo di Certificazione/
For the Certification Body
DNV GL – Business Assurance
Via Energy Park, 14 - 20871 Vimercate (MB) - Italy

Zeno Beltrami
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

EBARA Pumps Europe

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.:
CERT-17819-2006-AQ-VEN-SINCERT

Data prima emissione/Initial date:
13 ottobre 2006

Validità:/Valid:
10 ottobre 2018 - 10 ottobre 2021

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 Campo Sportivo, 30 - 38023 Cles (TN) - Italy
e i siti come elencati nell'Appendix che accompagna questo certificato / and the sites as mentioned in the appendix accompanying this certificate

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/
has been found to conform to the Quality Management System standard:
ISO 9001:2015

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione, vendita e commercializzazione di pompe e sistemi di pompaggio
(EA: 18, 17, 14)

This certificate is valid
for the following scope:

Design, manufacture, sales and trade of pumps and pumping systems
(EA: 18, 17, 14)

Luogo e Data/Place and date:
Vimercate (MB), 03 ottobre 2018

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

Per l'Organismo di Certificazione/
For the Certification Body
DNV GL – Business Assurance
Via Energy Park, 14 - 20871 Vimercate (MB) - Italy

Zeno Beltrami
Management Representative

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Looking ahead,
going beyond expectations

Ahead Beyond

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