

product range

caprari

pumping power

at the service of man and the environment since 1945

The Caprari group is a leading manufacturer on an international level in the production of centrifugal pumps and electric pumps and in the creation of advanced solutions for management of the integrated water cycle.

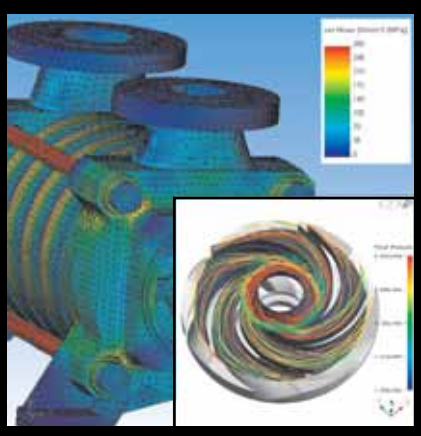
Founded in 1945 by Amadio Caprari, the company has continually expanded and diversified its business, to respond with innovative products and services to the specific and changing needs of the world of water with a view to an increasingly closer and more specialized partnership with its cu- singly customers.

Thanks to its exclusive and diversified know-how, the finest and most efficient solutions for the main water requirements are now supplied: deep well pumping, waste and drainage water lifting, residential, industrial and agricultural water supply and distribution, and water treatment in general.

Passion for technology

From hydraulic design using proprietary integrated programmes to complex structural analysis; from the conception of an innovative solution to severe testing in the field; from selecting the finest materials available to using the most sophisticated production technologies, the experience of many decades is combined with a daily passion.

Products with many versions to fully satisfy every specific system or use, easy installation, high efficiency and simple and cost-effective maintenance produce the best “Life Cycle Cost”: the maximum efficiency of use, over the long term, so that technology gives a tangible result for people and their environment.



deep clear water

surface clear water

waste and drainage water

pump control technology

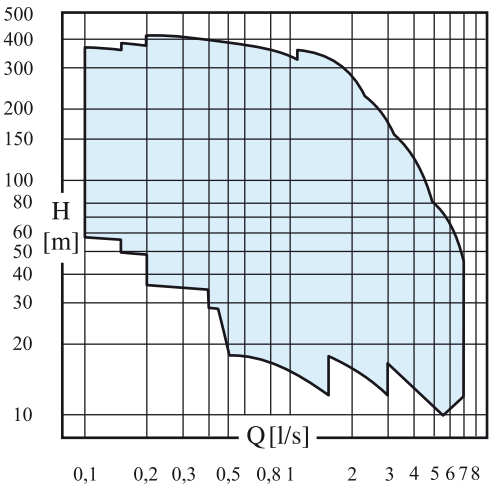

deep clear water

E4XP
Electric stainless radial submersible pumps

Electric 4” multistage submersible pumps of the latest generation. Compact, practical and stainless, they combine power and reliability thanks to the quality of their materials and innovative design (two exclusive patents). Designed to withstand wear caused by sand and galvanic corrosion.
The high hydraulic efficiencies provide tangible energy savings compared to other similar products.
The dependability of the check valves and of some structural elements made of micro-cast stainless steel, together with the use of extremely high quality thermoplastic materials, moreover ensure maximum safety and durability over time.
A very wide range for a choice, on every occasion, perfectly centred on actual needs.

technical specifications

Capacity up to	l/s	7
Head up to	m	425
Power up to	kW	7,5

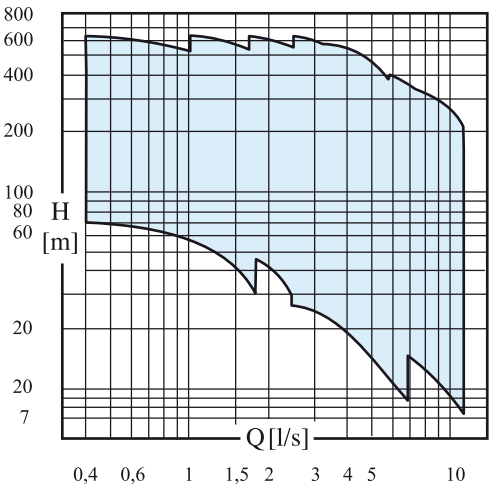


E6X
Electric stainless radial submersible pumps

Electric stainless 6” multistage submersible pumps.
The Caprari response to the need to combine high performance with a long life in particularly harsh working conditions.
A result achieved by optimizing the advantages offered by micro-cast stainless steel and the finest thermoplastic materials for impellers and diffusers. High hydraulic efficiencies, flows and heads covering the various needs of every application sector.
Extreme easyness of disassembly and riassembly, cut costs and maintenance time down to the minimum.

technical specifications

Capacity up to	l/s	12
Head up to	m	680
Power up to	kW	45

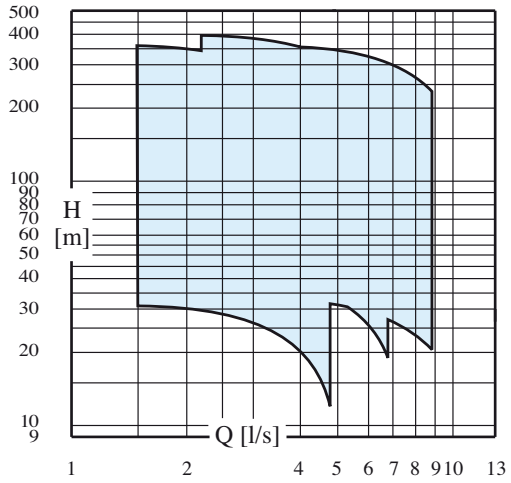


E6VX
Stainless steel electric radial submersible pumps

The E6VX series submersible electric pumps in stamped and welded stainless steel cover the segment of the market who requires stainless steel but not for aggressive and critical environments.
The E6VX series is coupled to oil-filled motors MCO series. On request, it can also be coupled to MCOI6 motors (AISI304 stainless steel) or the water filled MAC6 series.
Regarding to our competitors' pumps, the E6VX series is the only one with a canned construction to be equipped with the DEFENDER™ protector, which is covered by a Caprari international patent: the result is a sturdier construction as well as greater resistance to electro-chemical corrosion and galvanic currents thanks to the passivating effect that DEFENDER™ has on the stainless steel.
DEFENDER™ has been installed right to make the product longer lasting and distinguish it from the competitors' product manufactured with a similar construction technology.

technical specifications

Capacity up to	l/s	9
Head up to	m	400
Power up to	kW	30



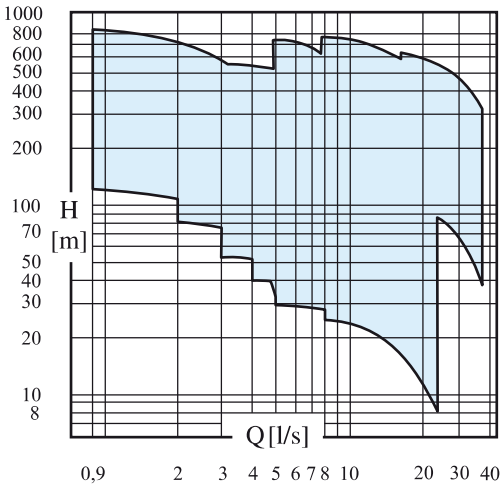
ESX - ERX
Stainless steel electric mixed flow and radial submersible pumps

ENDURANCE : electric mixed flow and radial submersible pumps made entirely of microcast stainless steel, including impellers and diffusers. Designed to ensure top performance in any aggressive environment, even marine.They combine compact dimensions with high performance. They are Caprari's professional response to the most heavy-duty use and most difficult working conditions. A great step forward in terms of reliability and performance compared to constructions of pressed - welded steel plate.

technical specifications

Capacity up to	l/s	37
Head up to	m	850
Power up to	kW	170

ENDURANCE
+RESISTANCE +PERFORMANCE

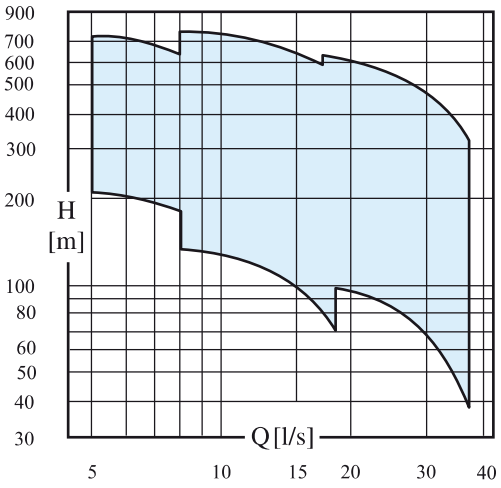


E8R - E10R
Electric radial submersible pumps

Electric 8” and 10” radial submersible pumps able to reach high heads. Thanks to the limited axial dimensions of the wet and these machines feature a high number of stages with limited length so as to make them compact and reliable.
Especially solid machines, designed to last and to always ensure peak performance and efficiency under harsh conditions of use at great depths of installation and extremely high heads.

technical specifications

Capacity up to	l/s	37
Head up to	m	770
Power up to	kW	170

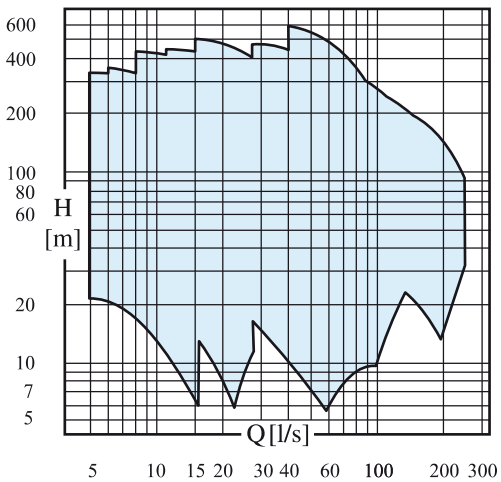


E6S - E8S - E9S
E10S - E12S - E14S
E16S - E18S
Electric mixed flow submersible pumps

Electric mixed flow submersible pumps coupled with asynchronous submersible motors at 2.900 and 1.450 rpm. Tried and tested machines whose ideal use is for lifting medium flows and medium heads.
Thousands of these Caprari pumps are installed in wells all over the world with unanimous satisfaction of the users.
Sturdy construction of cast iron or bronze with impellers keyed onto the stainless steelshaft. Their design makes them especially suited for lifting water containing sand.

technical specifications

Capacity up to	l/s	250
Head up to	m	600
Power up to	kW	370

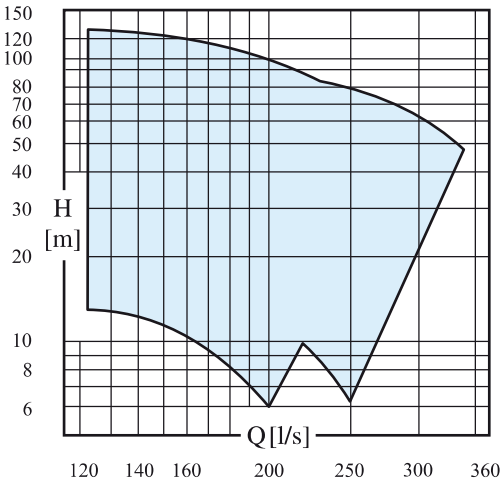


E20S - E22S
Electric mixed flow submersible pumps

Electric mixed flow submersible lifting pumps that require medium-high flows. Coupled to asynchronous submersible motors at 1.450 rpm., thanks to the low speed of rotation they ensure great reliability with low wear and a long life. Construction of cast iron or bronze with impellers keyed onto the stainless steel shaft. These electric pumps are particularly suited for continuous use in water supply, treatment systems and industrial systems in general where, besides their great reliability, energy savings play a fundamental role ensured by the excellent hydraulic efficiencies that characterise these electric pumps.

technical specifications

Capacity up to	l/s	350
Head up to	m	130
Power up to	kW	240



MC4 - MCO6 - MAC6 MAC8 - MAC10 MAC12 - M14
Submersible motors

Rewindable submersible single-phase and three-phase asynchronous motors expressly designed for use with “E” Series pumps. Made both in 2 and 4 poles, water or non-toxic, for perfect cooling and safe oil filled lubrication. NEMA standards for 4”, 6” and 8” flanged connection. A careful study of the supports and thrust-bearing devices, using the finest materials available, is an assurance of greater reliability over time. An exclusive electrical project combined with a series of specific precautions, dictated by profound experience in the field, provide incomparable operating efficiency in both deep wells and in industrial use or water supply.
Available in different construction metallurgies, they are the best solution for harsh conditions and professional systems.

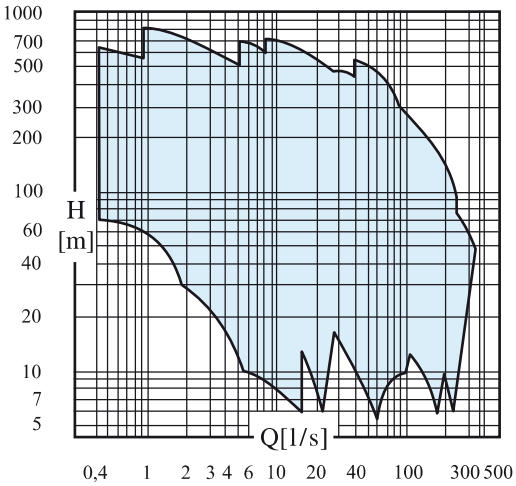
technical specifications

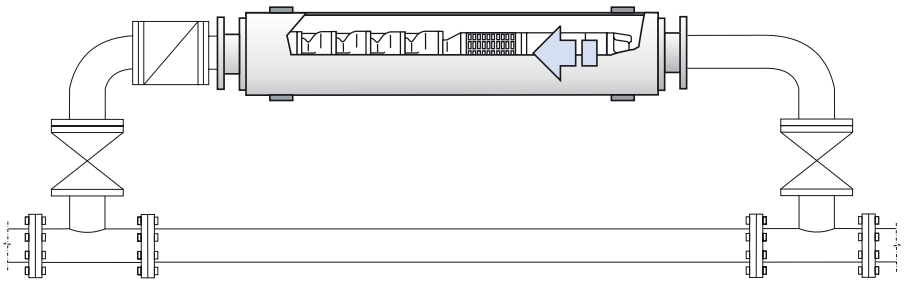
Poles		2 and 4
Frequency	Hz	50 and 60
Power up to	kW	370

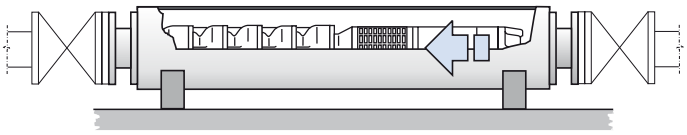
BOOSTER SETS

Booster sets for electric submersible pumps made of stainless steel or galvanized steel for horizontal or vertical installations, well suited not only to new systems but also to existing pipelines.
Caprari's experience in making electric submersible pumps for every field of application has been applied to these niche installations and is the best guarantee for an optimal solution in terms of reliability, efficiency and cost-effective system operation.
A peculiar feature of the installation of electric submersible pumpsin booster sets is their silent operation. This solution is therefore recommended in lifting stations near to residential areas, as an alternative to conventional surface electric pumps.

technical specifications		
Capacity up to	l/s	350
Head up to	m	830
Power up to	kW	370





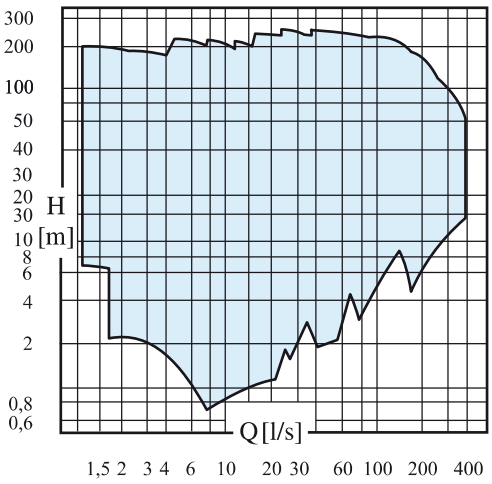


P6 ÷ P18
Vertical turbine pumps

Vertical lineshaft pumps with submerged pump bowl, lineshaft and drive unit on the surface, for installation in deep wells or tanks. Featuring an extremely solid and reliable construction design, they ensure great application flexibility. The technical characteristics and broad range of versions make this series ideal for pumping services in the sectors of water supply, industry, private and consortium irrigation and in fire-fighting systems. These machines can be controlled both by electric motors and by diesel engines and they ensure unequalled service efficiency.

technical specifications

Capacity up to	l/s	400
Head up to	m	250
Power up to	kW	400



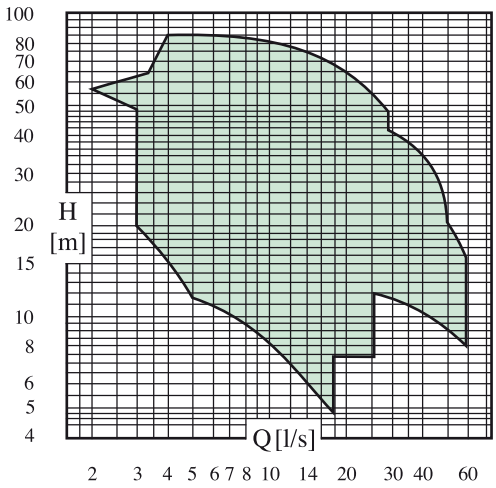
surface clear water

MD
Horizontal monobloc centrifugal electric pumps

Monobloc centrifugal electric pumps with horizontal shaft, single stage with adjustable packing or mechanical seal. Made of a sturdy cast iron structure, they are coupled with 2-pole threephase asynchronous electric motors. Ideal for air-conditioning and cooling tower, water circulation, vessel supply, booster and irrigation systems.

technical specifications

Capacity up to	l/s	60
Head up to	m	85
Power up to	kW	18,5

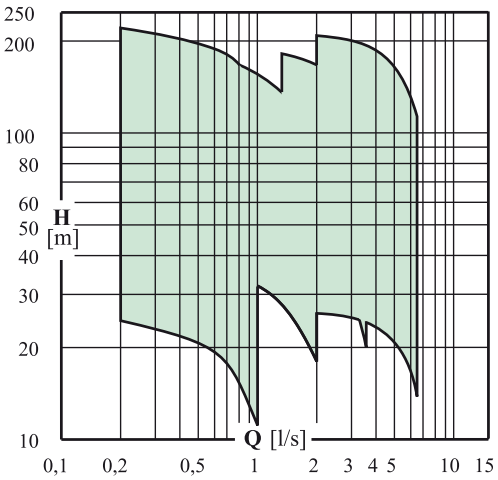


CVX
Vertical multistage electric pumps

The new range of vertical multistage pumps CVX series in stainless steel features suction and delivery in line and high energy efficiency motors. The competitive qualities of the product combined with the high quality and reliability that characterize Caprari's entire range are the more evident values of the new CVX series.

technical specifications

Capacity up to	l/s	7
Head up to	m	220
Power up to	kW	15

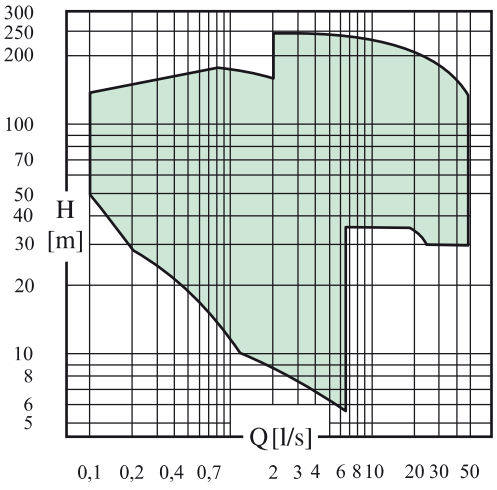


HV
Vertical centrifugal multistage electric pumps

Surface vertical multistage centrifugal electric pumps. Silent and efficient, they can be used in water supply systems, washing, fire-fighting, air-conditioning and cooling systems, in irrigation and for booster systems in general.

technical specifications

Capacity up to	l/s	50
Head up to	m	250
Power up to	kW	90

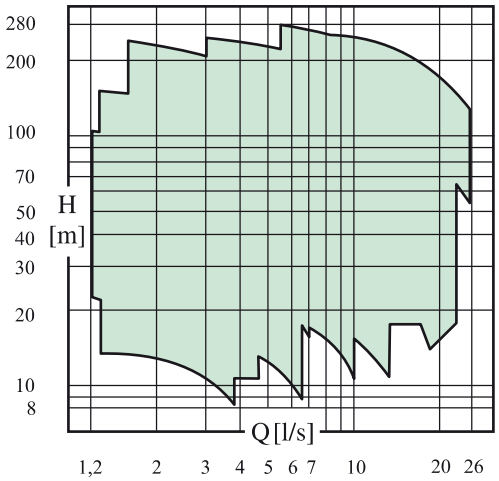


HMU
Horizontal centrifugal multistage pumps

Horizontal centrifugal multistage pumps. Made with cast iron hydraulic structure and copperalloy impellers, they ensure constant performance over time and the greatest economy in power consumption. Available in a wide range, they can be coupled with both electric motors and diesel engines. They can be used in different sectors such as water supply, industrial, irrigation and fire-fighting uses.

technical specifications

Capacity up to	l/s	26
Head up to	m	280
Power up to	kW	55

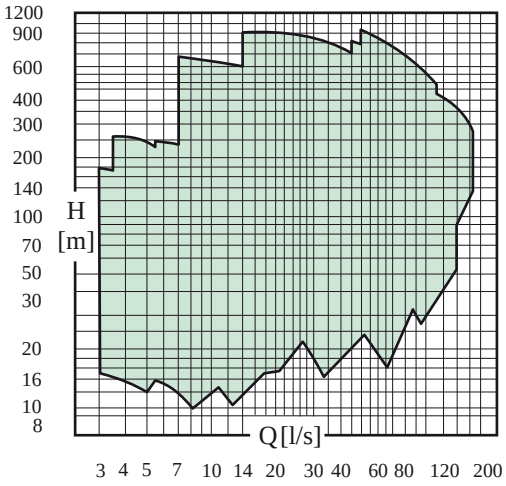


PM
Horizontal centrifugal multistage pumps

Centrifugal multistage pumps for high pressure. Made of special nodular, engineering cast iron for higher pressures (100 bar) and bronze. Double support with large sized bearings and hydraulic pressure balancing device. Available in versions with adjustable packing or mechanical seal. They ensure high performance and peak hydraulic efficiency.
The main application sectors are: water supply, fire-fighting, snow making systems, irrigation and industrial applications in general.

technical specifications

Capacity up to	l/s	160
Head up to	m	1000
Power up to	kW	650

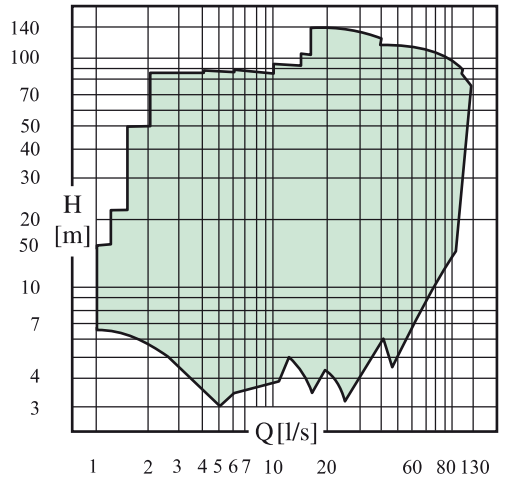


MEC A
Horizontal centrifugal single stage pumps

Horizontal centrifugal single stage pumps. Made with cast iron hydraulics and steel shaft. They can be coupled to both diesel engines and electric motors with 2 and 4 poles. Both packing and mechanical seals are available. A particularly versatile pump that is used in water supply, industrial, irrigation and fire-fighting applications.

technical specifications

Capacity up to	l/s	130
Head up to	m	140
Power up to	kW	132

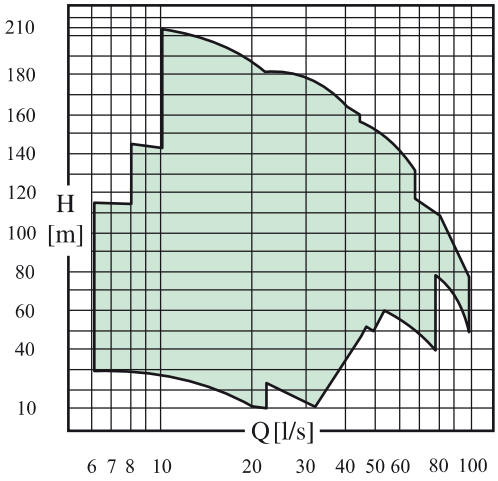


MEC MR
Horizontal centrifugal multistage pumps

Horizontal centrifugal multistage pumps. They can be coupled to both engines and electric motors with 2 and 4 poles. Both packing and mechanical seals are available. They are suited for use in different sectors such as water supply, industrial, irrigation and fire-fighting uses and for every requirement for raising clean water.

technical specifications

Capacity up to	l/s	100
Head up to	m	210
Power up to	kW	132

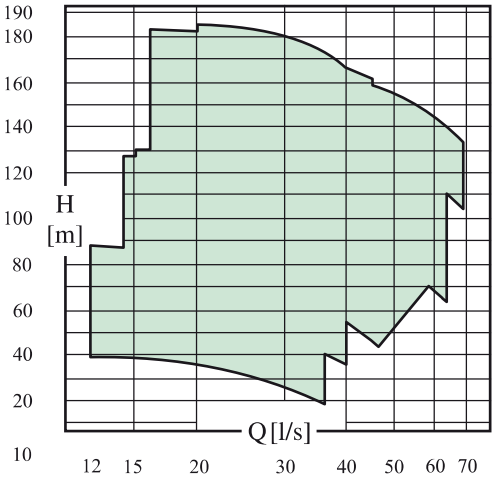


MEC MG
Flanged multistage centrifugal pumps

Horizontal centrifugal multistage pumps switable to be flanged to diesel engines. Thanks to the compactness and sturdiness they are ideal for setting up motor pump assemblies for irrigation and fire-fighting uses.

technical specifications

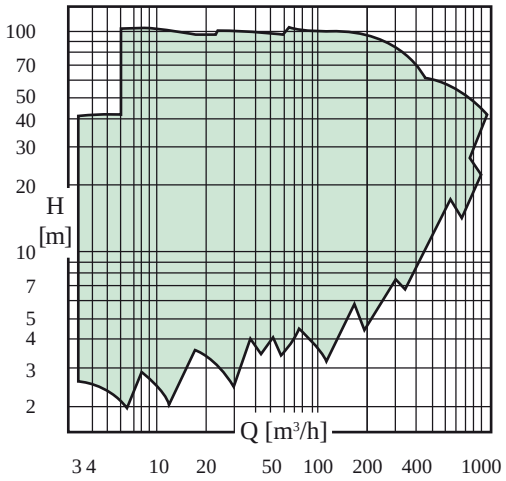
Capacity up to	l/s	70
Head up to	m	185
Power up to	kW	132



NC
Standardized horizontal single stage centrifugal pumps

Single-stage horizontal centrifugal pumps conforming to DIN 24255/EN 733 standards. They are used in heating and air-conditioning systems in refrigerator plants, water supply, industry, irrigation and fire-fighting units. Version with mechanical seal and cast iron or stainless steel impeller are available.

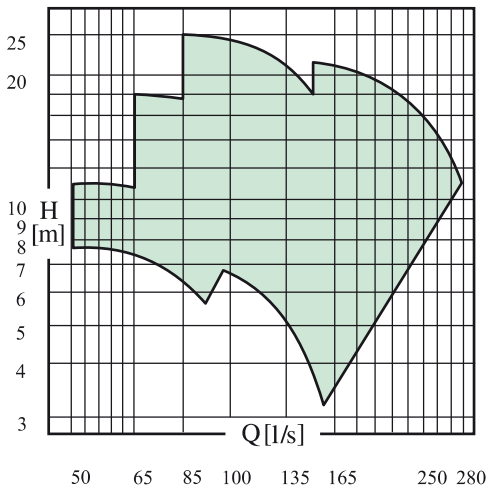
technical specifications		
Capacity up to	l/s	300
Head up to	m	100
Power up to	kW	160



BHR
Horizontal single stage centrifugal pumps

Horizontal centrifugal single stage pumps. They can be coupled with both electric motors with 6 and 4 poles and with diesel engines. Pumps that deliver substantial flows find their application in irrigation, fish farming and industry in general.

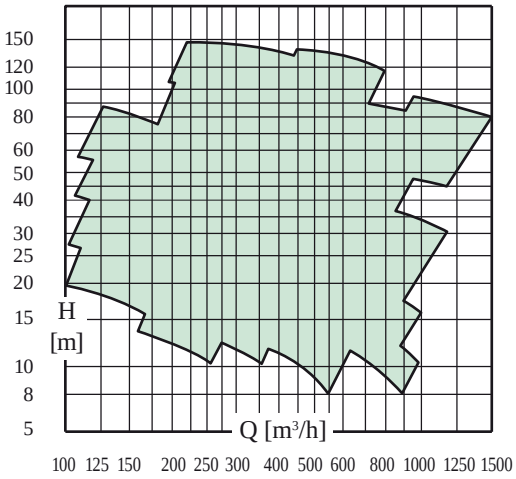
technical specifications		
Capacity up to	l/s	280
Head up to	m	25
Power up to	kW	37



SCC
Split Case

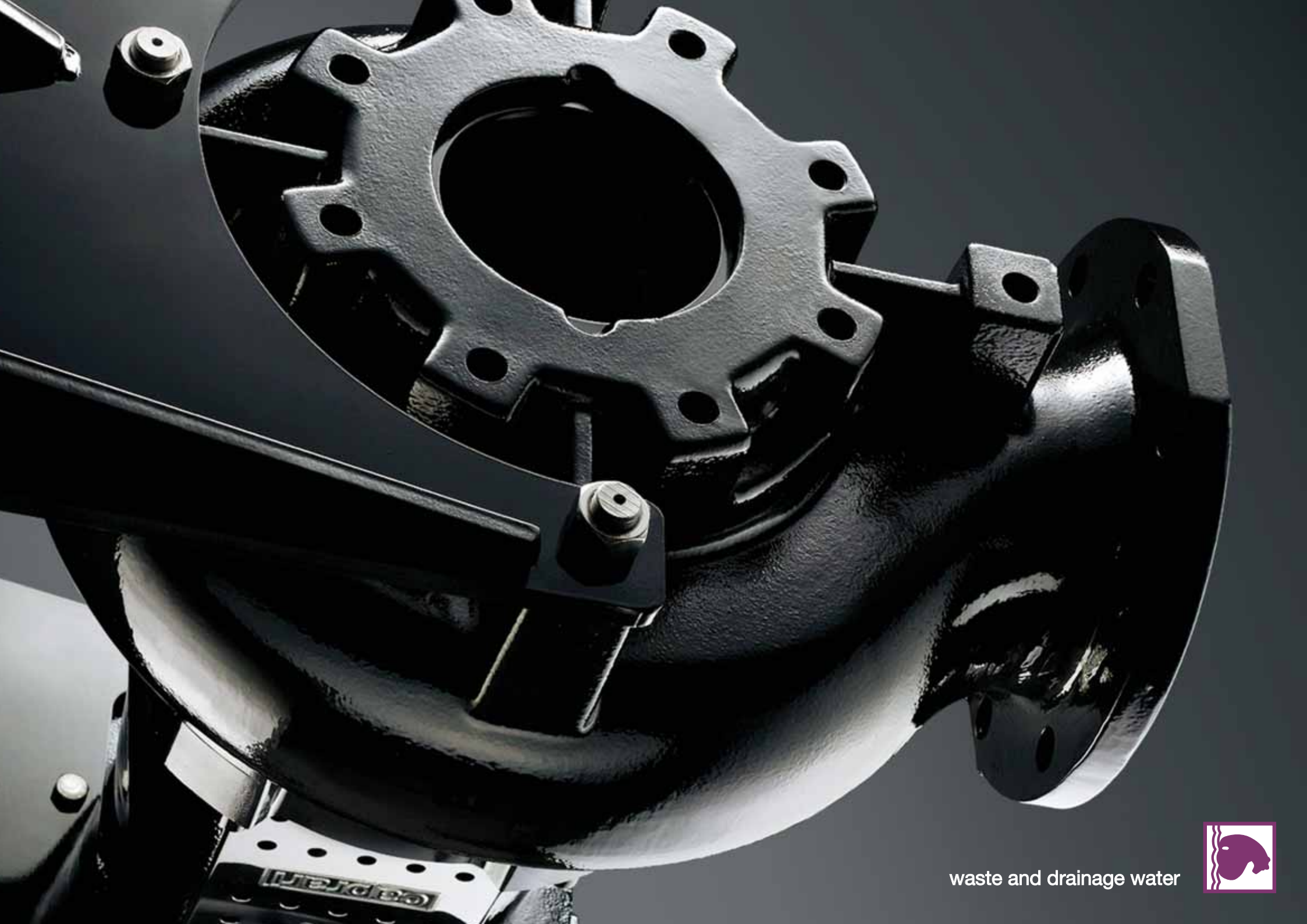
Machines providing high efficiency and excellent reliability throughout their entire life cycle against very low running costs. Ideal for heavy duty applications and continuous service. Their robust and compact structure guarantees long-lasting performance with very low maintenance and great flexibility.

technical specifications		
Capacity up to	l/s	416
Head up to	m	150
Power up to	kW	400



PUMPING SET

The vast production range of single-stage and multistage pumps, the possibility of operation with an electric motor and the availability of special versions on request permit offering the optimal solutions, for each use, in terms of reliability, efficiency and operating economy.
Caprari presents pumping sets assembled with motors of first class production and high efficiencies.



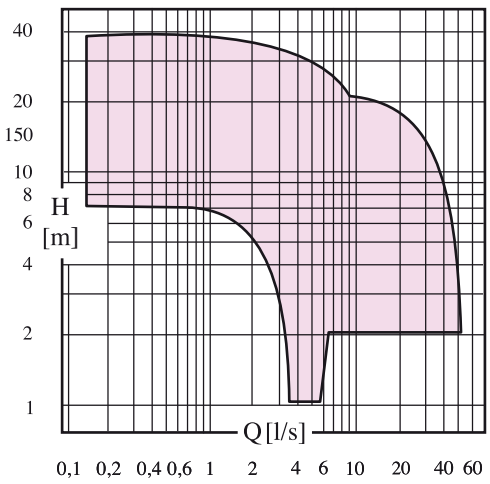
waste and drainage water

D
Electric submersible pumps for drainage

Electric submersible pumps designed for raising drainage water, thanks to their handiness and sturdiness they are used for draining out excavations even under the harshest working conditions. Ideal for conveying clean or dirty water containing mud and sand, draining tanks and reservoirs, irrigating gardens and allotments.

technical specifications

Capacity up to	l/s	50
Head up to	m	40
Power up to	kW	7

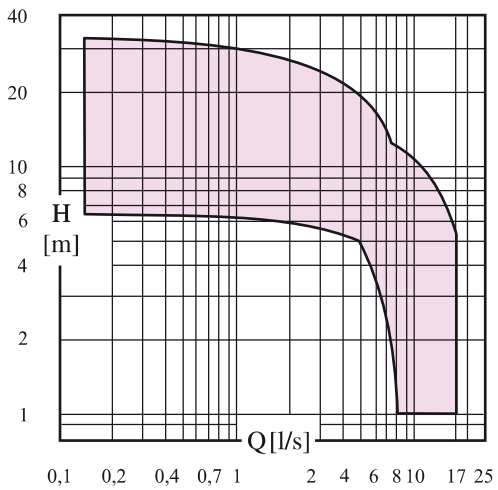


M e MAT
Electric submersible pumps for dirty water

Electric submersible pumps for dirty water suited for conveying sewage water with solid matter in suspension.
The models in the MAT series are equipped with a shredder for residential and industrial drainage systems. Designed for high heads and small flows, they are the ideal solution to convey residential waste water in isolated areas far from the sewer mains.

technical specifications

Capacity up to	l/s	17
Head up to	m	34
Power up to	kW	2,2

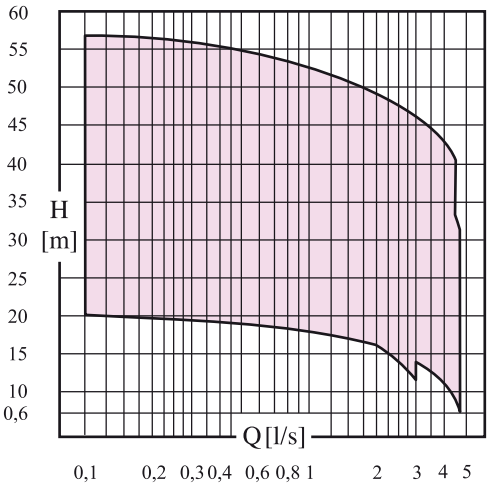


KT+
Electric submersible pumps with shredder DN 40

Electric submersible pumps with shredder for waste water. Impellers with front clearance adjustment, hardened stainless steel shredder, high efficiency low temperature motors. Ideal for raising drainage water containing solid or fibrous matter from housing estates, single dwellings, campsites, hotels, service areas, supermarkets, farms, food preserve industries, paper industries and whenever solids in suspension must be shredded. Innovative technical solutions ensure peak hydraulic efficiency and performance with the greatest reliability.
Available also in explosion. Proof version conforming to ATEX II 2G Exd IIB T4.

technical specifications

Capacity up to	l/s	4,7
Head up to	m	57
Power up to	kW	5,5

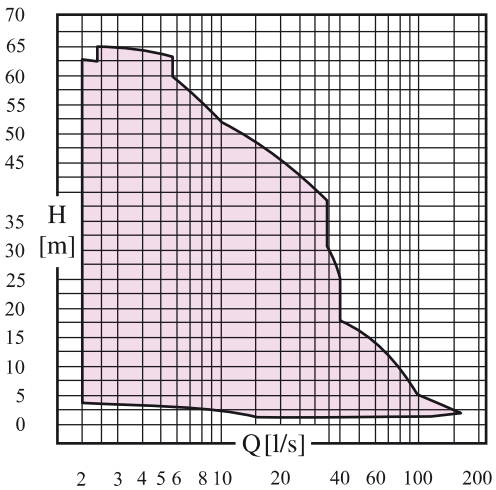


K+
Electric submersible pumps DN 65 ÷ 200

High-efficiency electric submersible pumps for raising waste water. Expressly designed for pumping residential and industrial waste, in drainage lifting stations and water treatment plants.
Single-and double-channel hydraulics or with retracted open impeller, ideal to convey liquids with high concentrations of solids. Impellers with anti-clogging device, double mechanical seal for motor protection, oil chamber and conductivity probe. High efficiency low temperature motors, for use in a dry chamber too.
A modern and professional range to ensure the best results in cutting running and maintenance costs in residential and industrial systems. Available also in explosion. Proof version conforming to ATEX II 2G Exd IIB T4.

technical specifications

Capacity up to	l/s	160
Head up to	m	65
Power up to	kW	15

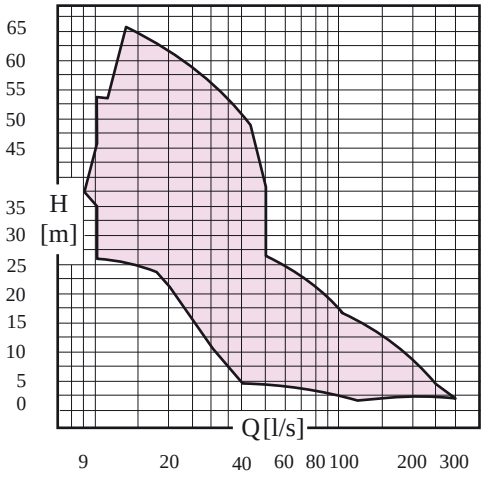


K+
Electric submersible pumps DN 100 ÷ 250

High-efficiency electric submersible pumps for raising waste water. Expressly designed for pumping residential and industrial waste, in drainage lifting stations and treatment plants.
Single- and multi-channel hydraulics or with retracted open impeller, ideal to convey liquids with high concentrations of solids. Impellers with anti-clogging device, double mechanical seal for motor protection with oil chamber and conductivity probe. High efficiency motors, also with forced cooling system for use in a dry chamber.
A modern and professional range to ensure the best results in cutting running and maintenance costs in residential and industrial treatment systems.
Available also in explosion.
Proof version conforming to ATEX II 2G Exd IIB T4.

technical specifications

Capacity up to	l/s	300
Head up to	m	66
Power up to	kW	32

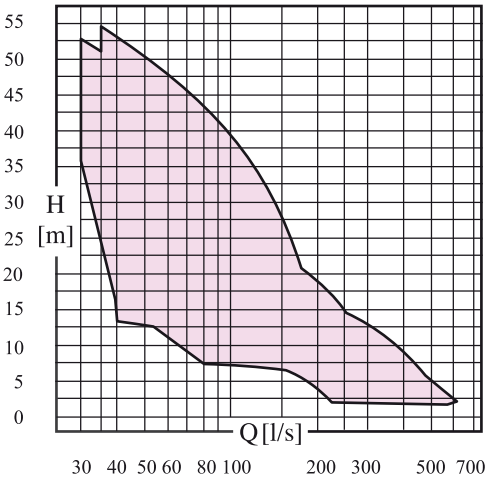


K+
Electric submersible pumps DN 150 ÷ 350

High-efficiency electric submersible pumps for raising waste water. Expressly designed for pumping residential and industrial waste, in drainage lifting stations and treatment plants. Single- and multi-channel hydraulics, ideal to convey liquids with high concentrations of solids. Impellers with anti-clogging device, double mechanical seal for motor protection with oil chamber and conductivity probe. High efficiency motors, also with forced cooling system for use in a dry chamber. A modern and professional range to ensure the best results in cutting running and maintenance costs in residential and industrial systems.
Available also in explosion.
Proof version conforming to ATEX II 2G Exd IIB T4.

technical specifications

Capacity up to	l/s	600
Head up to	m	55
Power up to	kW	62

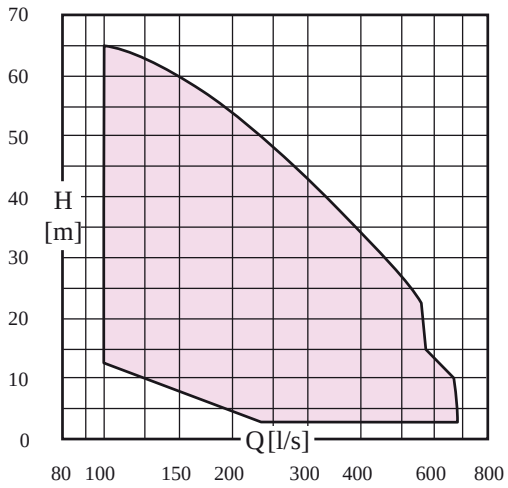


K+
Electric submersible pumps DN 250 ÷ 350

High-efficiency electric submersible pumps for raising waste water. Expressly designed for pumping residential and industrial waste, in drainage lifting stations and treatment plants.
Single- and multi-channel hydraulics, ideal to convey liquids with high concentrations of solids. Impellers with anti-clogging device, double mechanical seal for motor protection with oil chamber and conductivity probe. High efficiency motors, also with forced cooling system for use in a dry chamber. A modern and professional range to ensure the best results in cutting running and maintenance costs in residential and industrial systems.

technical specifications

Capacity up to	l/s	680
Head up to	m	65
Power up to	kW	180

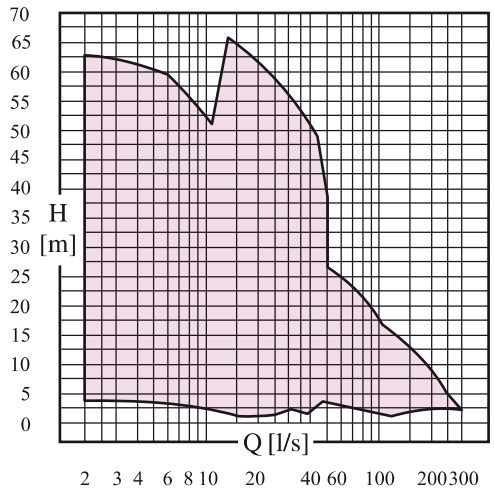


K - KOMPACT
Monobloc surface electric pumps for waste water

Innovative series of surface monobloc electric pumps, in horizontal or vertical version, for pumping residential and industrial waste water, coupled with standard electric motors. Compact, reliable, versatile, with easy maintenance and installation in dry chambers. Equipped with retracted vortex high-efficiency hydraulics, single-channel or double-channel impeller.
Supplied as standard with double mechanical seal on the shaft, barrier oil chamber and conductivity probe. The double support for the rotor ensures excellent resistance even in the harshest industrial applications.

technical specifications

Capacity up to	l/s	300
Head up to	m	66
Power up to	kW	37

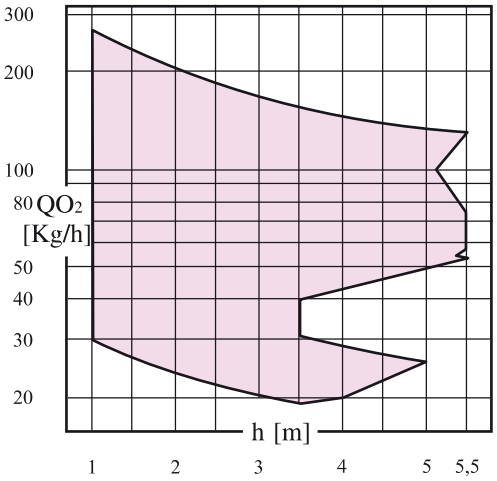


OXY FLOW
Aeration assembly

Aeration assembly for processes of oxygenation and homogenization in treatment plants for residential, industrial and livestock farming waste water, in fish farming and aerated ponds. Ideal for rainwater collection basins too. Compact and simple to install, they are suitable for use in tanks of any shape and size.

technical specifications

O_2 output up to	Kg/h	280
Water head up to	m	5,5
Power up to	kW	25



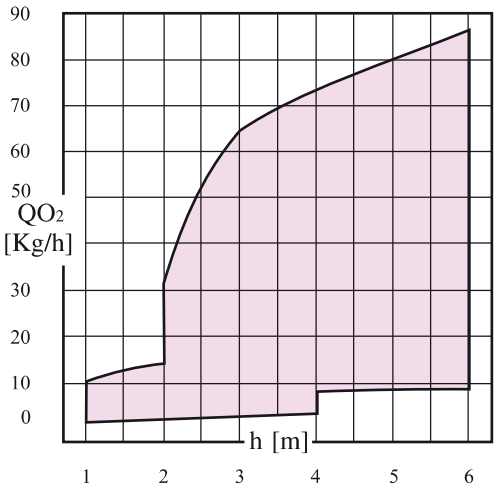
ARS - ARS/S
Radial submersible aerators

Radial submersible aerators. They are an extremely flexible system of aeration, versatile and efficient in water treatment and in all cases where mixing with the addition of air is required. The machine's compactness helps installation and maintenance without draining the tanks or stopping the systems.

The following are available on request:
pressurized radial submersible aerators, surface aeration turbines and disc or porous pipes.

technical specifications

O_2 output up to	Kg/h	87
Water head up to	m	6
Power up to	kW	51

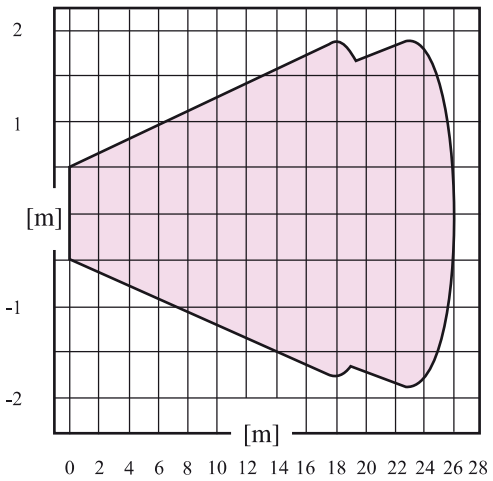


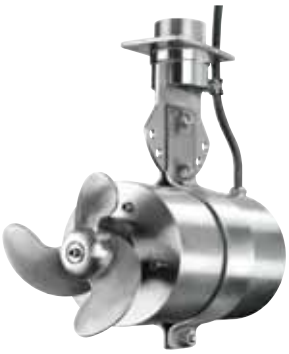
CMVY - CMDY CMDX
Horizontal submersible mixers

Horizontal submersible mixers with direct drive. For applications in nitrification/denitrification, sludge treatment and storage, disinfection tanks and industrial mixing. Available with cast-iron construction and stainless steel propeller or in totally stainless steel version - AISI 316. Galvanic separation system for standard components providing effective protection against corrosion.

technical specifications

Capacity up to	l/s	316
Axial thrust	N	429
Power up to	kW	3



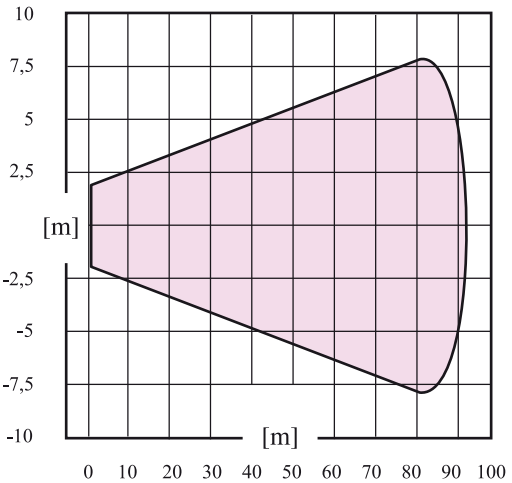


CMRY
Horizontal submersible mixers with gear

Horizontal submersible mixers with epicyclical gear between electric motor and propeller. For applications in nitrification/ denitrification, sludge treatment and storage, disinfection tanks and industrial mixing. Galvanic separation system for standard components providing effective protection against corrosion.

technical specifications

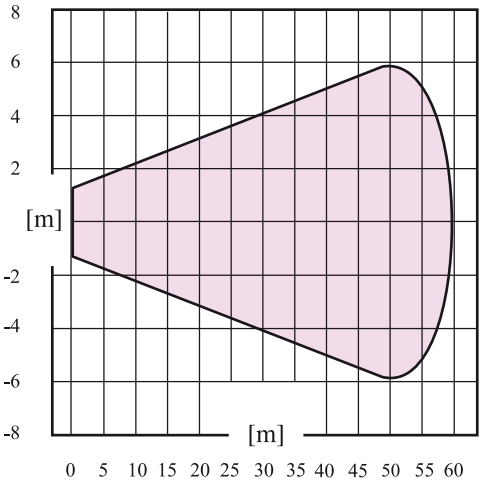
Capacity up to	l/s	1860
Axial thrust	N	3725
Power up to	kW	18,5



CBAY
Horizontal submersible flow accelerators

Flow accelerators for applications in nitrification/denitrification tanks, disinfection and industrial mixing. Propeller with self-cleaning blades made of a composite material with high hydraulic efficiency. Galvanic separation system for standard components providing effective protection against corrosion.

technical specifications		
Capacity up to	l/s	4890
Axial thrust	N	2900
Power up to	kW	4



pump control technology

UNIVERSAL REMOTE MANAGEMENT
Remote data management

URM, or Universal Remote Management, is a complete supervisory and telecontrol system that has been specially created for fluid management and treatment. It allows the operating data of all the devices in a complex water supply system to be monitored, controlled and acquired.
Optimization of the networks and systems with consequent energy and water savings.
Thanks to its open architecture, the URM can function with all protocols and can be easily installed in existing SCADA systems.

technical specifications

Versatile, modular URM control units that can be expanded to adapt to the most varied requirements.

ELECTRIC PANELS
Control and Monitoring

Control and protection panels for electric pumps and motors (single and threephase).
Constant pressure panels with microprocessors for 1 and several electric pumps, multifunction, for all installations that need pioneering systems for a sophisticated control.

technical specifications

VSD
Frequency converter

Thanks to a vast range of standard and optional functions, the VLT® AQUA Drive frequency converter helps to cut down on the running costs of water treatment systems by regulating the start-up speed of the machines. This prevents the flow rate from fluctuating, allowing the pressure to be kept under precise control, avoiding pressure surges and reducing leaks

- energy saving
- smaller sized installations
- water pumping and treatment
- fast installation
- built-in RFI filters

technical specifications		
Power supply voltage	V	200 - 690 ± 10%
Frequency	Hz	50 and 60
Temperatures up to		50°C

MG1 - MG2
Control, monitoring and protection device for electric motors

This control, monitoring and protection device ensures that Caprari Electric motors operate in the best possible way.
MotorGuard can be easily installed in the control panel and guarantees:

- Lower consumption
- A more reliable installation
- Longer pump life

MotorGuard