



Construction

Close coupled multi-stage submersible pumps in **chrome-nickel stainless steel**.

Hydraulic part under the motor and motor cooled by the pumped water for safe operation also with the pump only partially immersed. Double shaft seal with interposed oil chamber.

The suction strainer prevents the entrance of solids with diameter bigger than: - 2,5 mm for MXS 203,4,5,6 - 404,5 - 803,4
- 2 mm for MXS 207,8,9,10 - 406,7,8,9,10 - 805,6,7,8,9.

Applications

For water supply from wells, tanks or reservoirs. For domestic use, for civil and industrial applications, for garden use and irrigation. Utilization of rain water.

Operating conditions

Water temperature up to 35 °C.
Minimum internal diameter of well: 132 mm.
Minimum immersion depth: 100 mm.
Maximum immersion depth: 20 m (with suitable cable length).
Continuous duty.

Motor

2-pole induction motor, 50 Hz.
MXS : three-phase 230 V ± 10%;
three-phase 400 V ± 10%.
MXSM : single-phase 230 V ± 10%, with thermal protector up to 1,1 kW.
Control box with capacitor (and thermal device for 1,5 kW).
Float switch (on demand)

Cable: H07RN8-F, 4 G 1 mm², length 15 m.
Insulation class F.
Protection IP 68 (for continuous immersion).
Double impregnation humidity-proof dry winding.
Constructed in accordance with EN 60335-2-41.

Special features on request

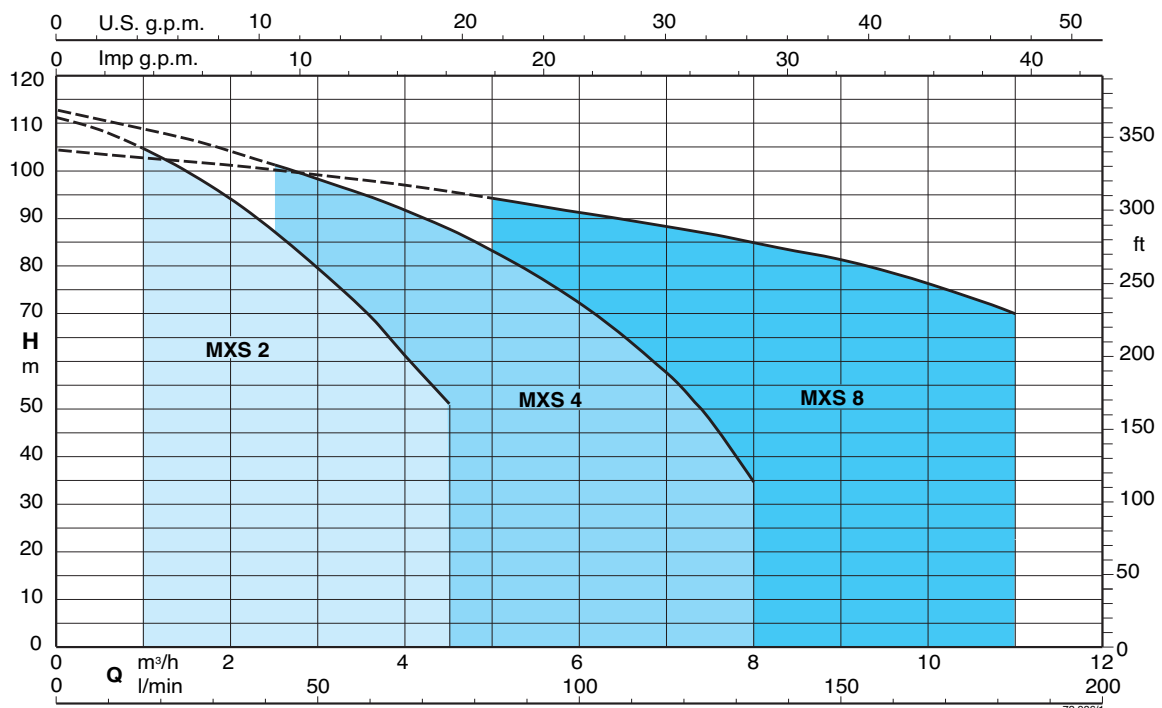
- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Cable length 20 m.

Materials

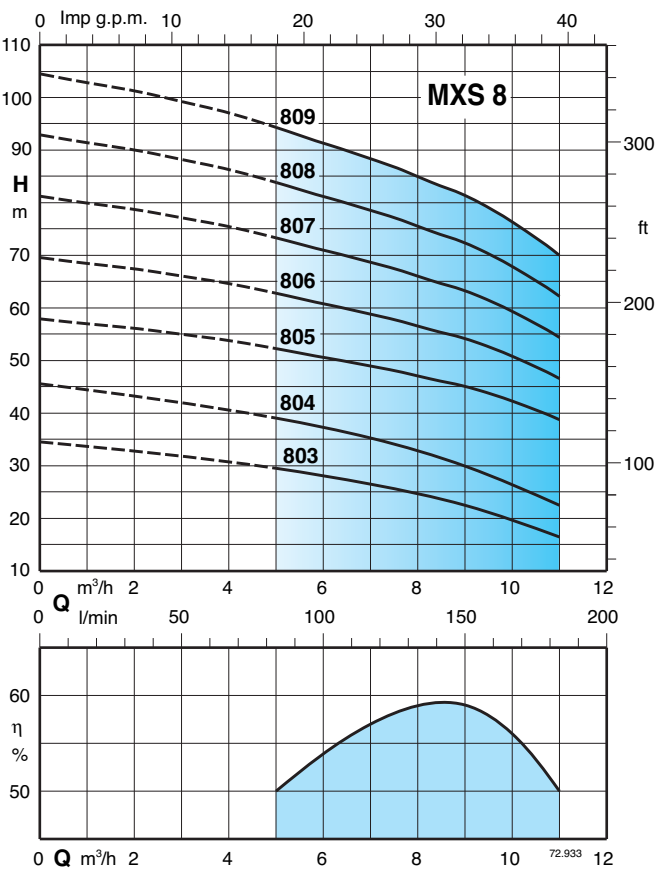
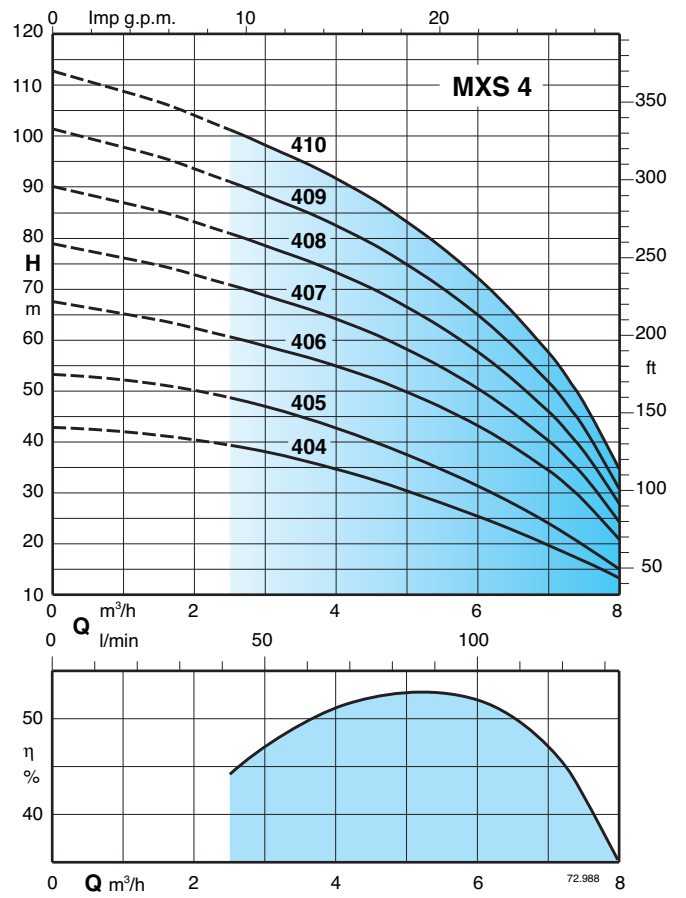
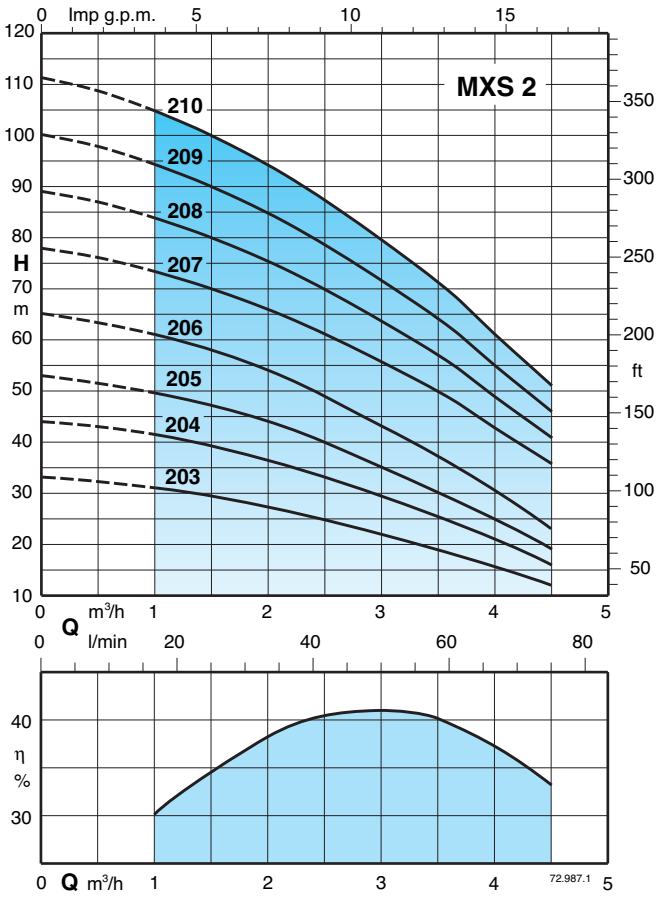
Component	Material
Delivery casing*	Chrome-nickel steel 1.4301 EN 10088 (AISI 304) Nickel-plated Brass UNI-EN 12165-98**
External jacket - Suction strainer	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Stage casing -Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Oil chamber cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Spacer sleeve -Motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303) Cr-Ni steel 1.4301 EN 10088 (AISI 304)**
Motor shield	Brass P- Cu Zn 40 Pb 2 UNI 5705 Cr-Ni steel 1.4301 EN 10088 (AISI 304)**
Upper mechanical seal	Steatite, carbon, NBR
Lower mechanical seal	Ceramic alumina, silicon carbide, NBR Silicon carbide, Silicon carbide, NBR**
Seal lubrication oil	Oil for food machinery and pharmaceutical use

* Delivery casing and external jacket as one piece only for MXS 203,204,205,206,404,405,803,804
** per MXS 207,208,209,210 - 406,407,408,409,410 - 805,806,807,808,809

Coverage chart n ≈ 2900 rpm



Characteristic curves $n \approx 2900$ rpm



Features

Low Cost Installation

Immersed without suction pipe and valves. The cylindrical suction strainer, with smaller diameter with respect to the pump, allows for obstacle-free suction also from wells with the minimum diameter of 132 mm or, with its robust stainless steel construction, for supporting the pump when positioned on the flat surface of a tank for operation with the minimum water level of 100 mm.

Low-Noise Operation

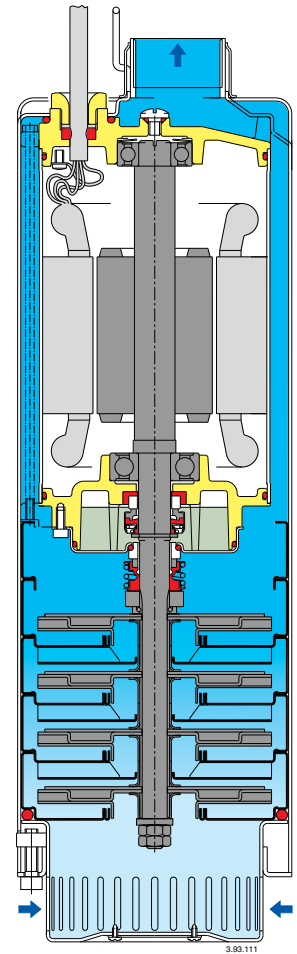
The design of hydraulic parts, the water-filled shroud around the motor and the submersed pump allow for low-noise operation.

Reliable and Environment Friendly

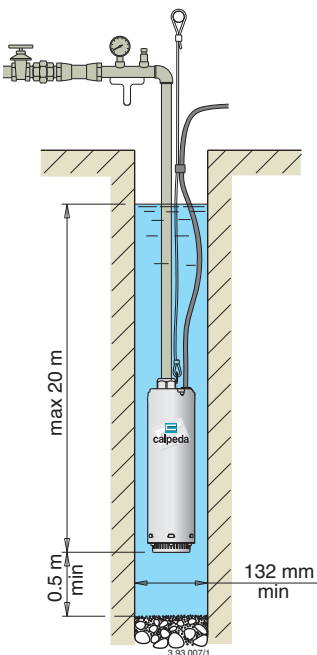
With hydraulic parts in cold-pressed drawn stainless steel. The only pump of its kind with no components in plastic material.

Greater Safety

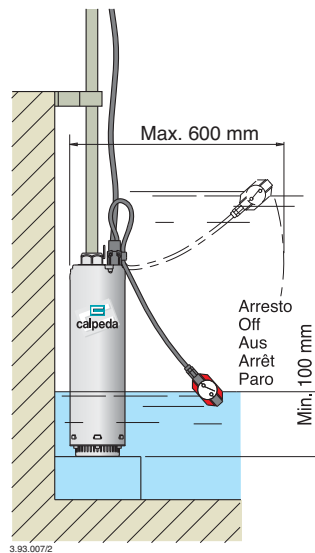
With submersed pumps protected against dry running and the danger of freezing. No filling operations at start-up and no suction problems. The double shaft sealing with an interposed oil chamber separates the motor from the water and provides further protection against accidental operation when dry.



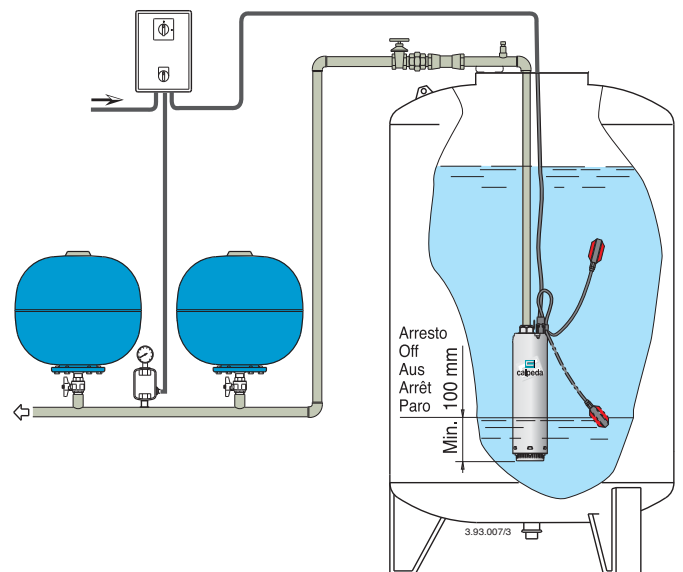
Installation



Pump in suspended position



Pump with float switch (on demand)



Installation example