

MP 1 submersible pump

Exclusively manufactured by Royal Eijkelkamp



MP 1 submersible pump

The MP 1 submersible pump is specially designed for purging and sampling of monitoring wells. It's a unique pump in that it fits a 2" monitoring well while being able of pumping water up to an impressive 90 metres. It allows you to collect groundwater samples from deep wells for analysis.

The pump motor is controlled by an adjustable frequency converter. Thanks to the variable setting of the frequency, the capacity of the pump can be adjusted from 0 to 2 m³/hour. This results in a steady flow of anaerobe water.

The high capacity of this pump allows for quick purging of the measuring point. By setting a low pumping capacity, the same pump can then be used for sampling. Built-in safeguards protect the MP 1 and frequency converter against overload. The actual frequency can be read from the display.

Availability

The MP 1 submersible pump is available in standard sets for purging and sampling monitoring wells to a depth of 30, 60, or 90 metres. You can choose a PTFE, HDPE, or no tube. Among other items the standard sets contain: an MP 1 submersible pump, a cooling jacket, a service kit, a frequency converter, a suspension cable, tube with connection and a hose reel cart. The materials in the set are fully assembled.

Benefits MP 1 submersible pump set

- Pump housing completely made of stainless steel to prevent contamination of the sample
- Maximum lift 90 metres of water
- Supplied with cable in 30, 60, or 90 metres
- Available with different lengths of power cable, suspension cable, and tubing, or no tubing
- Speed (flow) regulated
- Pump is protected against overload
- Converter for either 110 or 240 Volts, single phase to three phase
- Can be fitted with PTFE or LDPE tubing in various lengths, or no tube
- Operated from mains or electronically regulated 110 or 240 Volt power generator
- Field replaceable impellers

Specifications MP 1 pump

Full load rating	0.5 HP/220V/3 PH/400 Hz/5.5A
Maximum current (SFA)	5.5 amps
Motor protection	Thermal overload
Current overload	Incorporated into MP 1 frequency converter
Minimum ambient fluid temperature	32°F (0°C)
Maximum ambient fluid temperature	95°F (35°C)
Motor lubricating fluid	Deionized (DI) water
Dimensions (pump & motor)	11.3" L x 1.81" D (28.7cm L x 4.6cm D)
Net weight (pump & motor)	5.5 lbs. (2.5 kg), excluding motor lead

- High top capacity for purging, smooth flow for sampling
- Compact, mobile, and easy to use
- Resistant against corrosive fluids
- Pump completely made of stainless steel
- Anaerobe sampling
- Simple cleaning procedures



Frequency converter to control the MP 1 pump

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