

Submersible pump MP 1



Grundfos MP 1 submersible pump

The Grundfos MP 1 is a 2" environmental pump used for water monitoring. You can collect groundwater samples for analysis from depths down to 90 m to establish the precise type and degree of contamination.

The Grundfos MP 1 submersible pump is specially designed for purging and sampling of monitoring wells with a diameter of at least 50 mm or bigger. The pump motor is controlled by an adjustable frequency converter. Due 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.

- High top capacity for purging, smooth flow for sampling
- Compact and easy to install; mobile
- Resistant against corrosive fluids
- Pumped medium only in contact with stainless steel and PTFE
- Anaerobe sampling
- Simple cleaning procedures



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

Availability

Various standard sets are available for purging and sampling monitoring wells to a depth of 30 to 90 m. Among other items the standard sets contain: a Grundfos 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 Grundfos MP 1 submersible pump set

- Full stainless steel/PTFE pump for both purging and sampling of all parameters
- Maximum lift 90 m of water
- Supplied with different lengths of PTFE cable, suspension cable and tubing
- Speed (flow) regulated
- Various warnings guard pump safety
- Converter to convert 110 or 240 Volts single phase to three phase 400 Volt 0-400Hz
- Can be fitted with PTFE or PE tubing (various sizes)
- Operated from mains or electronically regulated 110 or 240 Volt power generator
- Field replaceable impellers



Frequency converter to control the Grundfos MP 1 pump

Specifications Grundfos 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 convertor
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 Wwight (pump & motor)	5.5 lbs. (2.5 kg), excluding motor lead

All information contained in this brochure is of a provisional nature. We retain the right to amend equipment, procedures and specifications.