

# LOWARA E-MP

## ring-section pumps



e-MPV



e-MPA



e-MPR



e-MPD

[Geothermal energy](#) [Multistage pumps](#) [Standard centrifugal pumps](#)

### Description

The Lowara e-MP pumps are multistage pumps built according to a modular design. The e-MP is easily integrated and highly effective in almost any high-pressure application. The entire series is made up of four size models with 10 hydraulic operating ranges. All e-MP models are designed in accordance with ISO 5199.

Due to a flexible mechanical configuration and a suction impeller in the first stage, the e-MP features extremely high suction power (or low NPSH). This satisfies the requirements of hot water and condensate applications. The highly efficient hydraulics of the e-MP are optimized by, among other things, the U-bend channels, which ensure ideal flow. These hydraulics reduce both life cycle costs and energy demand.

For continuous operation of your system, pressure, temperature and vibration sensors can be applied to the e-MP pumps. Couple these sensors to a monitoring system and you can create your own preventive maintenance schedule for the pump. The maintenance-friendly design also ensures that changing bearings and seals is possible without disassembling the pump part. The modular design minimizes the number of parts required, simplifying assembly and component management.

The e-MP multistage pumps are suitable for lightly contaminated water without large parts.

## e-MPV vertical multistage pump

Advantages: smallest footprint, four positions at spray head (90, 180, 270, 360).

### Specifications

- o capacity up to: 850 m<sup>3</sup>/h / 3.740 us gpm
- o head up to: 630 m / 2.060 ft
- o max. RPM: 3600 rpm
- o max. intake pressure: 10 bar / 145 psi
- o max. pressure: 63 bar / 915 psi
- o max. fluid temperature: 120 °C / 248 °f
- o connections: DN50 tot DN150
- o max. power: 355 kW / 480 pk
- o spray head: suction side: 90° rotatable  
drain side: radial, 90° rotatable



## e-MPA horizontal multistage pump

Advantages: highest suction power (lowest NPSH) thanks to ideal axial inlet flow, less wear due to fewer parts, small horizontal footprint.

### Specifications

- o capacity up to: 850 m<sup>3</sup>/h / 3.740 us gpm
- o head up to: 950 m / 3.100 ft
- o max. rpm: 3600 rpm
- o max. intake pressure: 10 bar / 145 psi
- o max. pressure: 100 bar / 1450 psi
- o max. fluid temperature: 140 °C (optional 180 °C) / 284 °f (optional 356 °f)
- o connections: DN50 tot DN150
- o max. power: 1.250 kW / 1.700 pk
- o spray head:
  - suction side: axial
  - drain side: radial, 90° rotatable (left, above, right)



## e-MPR horizontal multistage pump

Advantages: suction nozzle with high flexibility, less wear due to fewer parts, small horizontal footprint.

### Specifications

- o capacity up to: 850 m<sup>3</sup>/h / 3.740 us gpm
- o head up to: 950 m / 3.100 ft
- o max. RPM: 3600 rpm
- o max. intake pressure: 10 bar / 145 psi
- o max. pressure: 100 bar / 1450 psi
- o max. fluid temperature: 140 °C (optional 180 °C) / 284 °f (optional 356 °f)
- o connections: DN50 tot DN150
- o max. power: 1.250 kw / 1.700 pk
- o spray head:
  - suction side: 90° rotatable (left, above, right)
  - drain side: radial, 90° rotatable (left, above, right)





## e-MPD horizontal multistage pump

Advantages: higher inlet pressure possible, optional drive on suction side.

### Specifications

- o Capacity up to: 850 m<sup>3</sup>/h / 3.740 us gpm
- o head up to: 950 m / 3.100 ft
- o max. RPM: 3600 rpm
- o max. intake pressure: 40 bar / 580 psi
- o max. pressure: 100 bar / 1450 psi
- o max. fluid temperature: 140 °C (optional 180 °C) / 284 °f (optional 356 °f)
- o connections: DN50 tot DN150
- o max. power: 1.250 kW / 1.700 pk
- o spray head:
  - suction side: 90° rotatable (left, above, right)
  - drain side: radial, 90° rotatable (left, above, right)



### Material options

- o pumphousing:
  - cast iron
  - ductile iron
  - steel
  - stainless steel
  - duplex stainless steel
  - super duplex stainless steel
- o fan:
  - cast-iron
  - bronze
  - stainless steel
  - duplex stainless steel
  - super duplex stainless steel
- o elastomers:
  - EPDM
  - Viton® FPM
- o shaft seal:
  - mechanical seal
  - cartridge seal
  - soft gasket

### Applications

- o geothermal
- o industrial
- o sugar mills
- o oil and gas
- o power plants
- o mining
- o agriculture
- o reverse osmosis
- o construction service
- o snowmachines



Nominal pressures and versions

