



POWERTURBINES

ENERGY FROM WATER

MICROBAT SERIES



www.powerturbines.eu

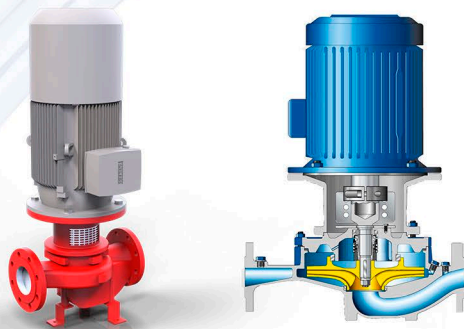
MICROBAT TURBINE SERIES

Specs

- Water turbines for battery charging.
- Designed for power supply in remote areas with no grid access.
- Compatible with lead-acid batteries or lithium (12V, 24V or 48V)
- Up to 1000W of charging power.
- Suitable for drinking water, irrigation water, dam water or raw water.
- Permanent magnet generator IP55.
- Control box made of high resistance ABS plastic (dimensions 400x300x210mm).
- Digital display with operating parameters.
- Automatic ON/OFF valve depending on the battery state of charge (optional).
- Modbus communications line for monitoring (optional)
- Two types of hydraulic design: Line or Line HP.
- Different models depending on the flow and pressure drop available.

Applications

- Installation on reservoirs with pressure break.
- Installation in parallel with pressure reducing valves (PRV's).
- Installation in dams or river reservoirs.



MICROBAT LINE

TECHNICAL DESCRIPTION

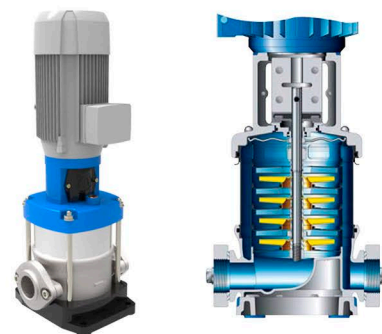
DESIGN: In line with the pipe
 INSTALLATION POSITION: Vertical or horizontal shaft
 CONNECTIONS: Flanged
 SEALING: Mechanical seal
 MAXIMUM PRESSURE: PN16
 BEARINGS: Standard ball bearing
 CERTIFICATES: ACS (under demand)
 FLOW RANGE: 5-24 liters/second
 PRESSURE DROP RANGE: 4-22 meters

MATERIALS

VOLUTE CASING: Cast iron
 IMPELLER: Cast iron (bronze or stainless steel optional)
 SHAFT : Tempered steel (stainless steel optional)
 GENERATOR COUPLING: Cast iron

OPERATING CONDITIONS

Temperature: -20 up to 45°C
 Humidity: Up to 95%
 Altitude: Up to 2000 without derrating



MICROBAT LINE HP

TECHNICAL DESCRIPTION

DESIGN: In line with the pipe
 INSTALLATION POSITION: Vertical shaft
 CONNECTIONS: Flanged or threaded (depending on model)
 SEALING: Mechanical seal
 MAXIMUM PRESSURE: Up to PN40 (depending on model)
 BEARINGS: Standard ball bearing
 CERTIFICATES: ACS & WRAS
 FLOW RANGE: 1,5-10 liters/second
 PRESSURE DROP RANGE: 6-120 meters

MATERIALS

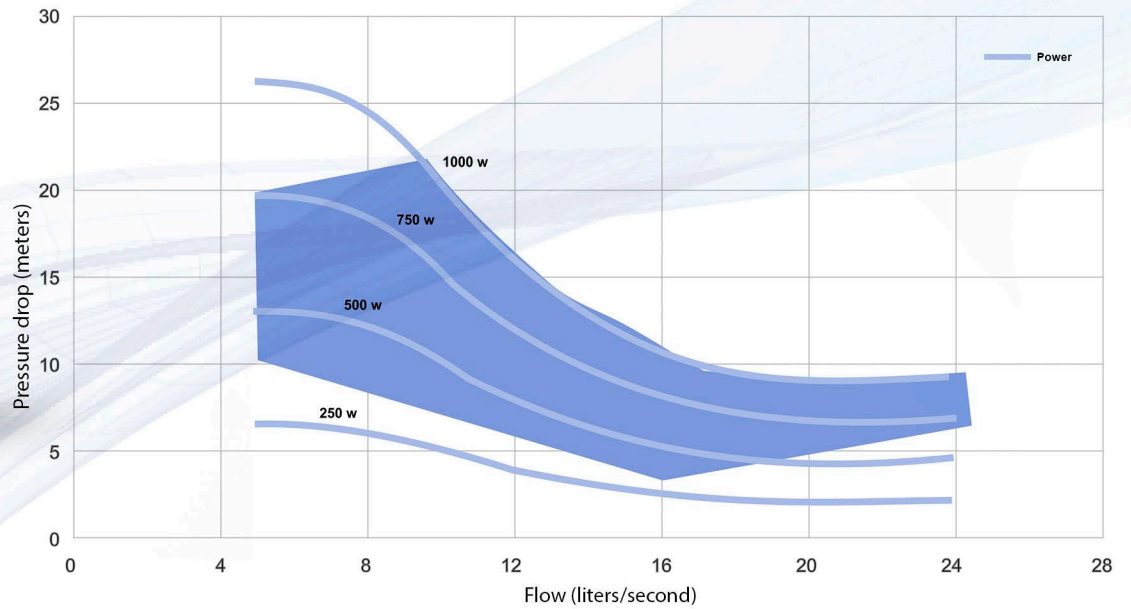
VOLUTE CASING: Stainless steel
 IMPELLER: Stainless steel
 SHAFT : Stainless steel
 GENERATOR COUPLING: Cast iron

OPERATING CONDITIONS

Temperature: -20 up to 45°C
 Humidity: Up to 95%
 Altitude: Up to 2000 without derrating

MICROBAT TURBINE SERIES

MICROBAT LINE



MICROBAT LINE HP

