



POWERTURBINES

ENERGY FROM WATER

MICROGRID SERIES



www.powerturbines.eu

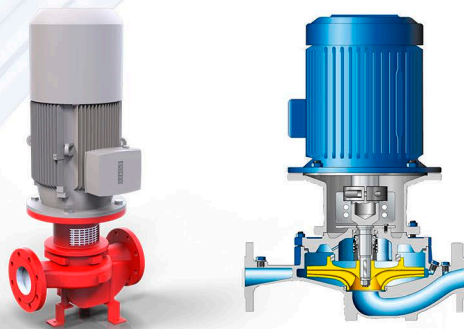
MICROGRID TURBINE SERIES

Specs

- Grid tied turbines designed for selling energy or self-consumption.
- Three phase or single phase grid connection (50 or 60Hz)
- Up to 25kw of generated power.
- Suitable for drinking water, irrigation water, dam water or raw water.
- Three phase permanent magnet generator IP55.
- Control box IP55 made of high resistance ABS plastic.
- Digital display with operating parameters.
- Equipped with an automatic valve to close in case of grid failure.
- Modbus communication line.
- Three types of hydraulic desing: Line, Line HP or Monobloc.
- Different models depending on the flow and pressure drop.

Applications

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



MICROGRID LINE

TECHNICAL DESCRIPTION

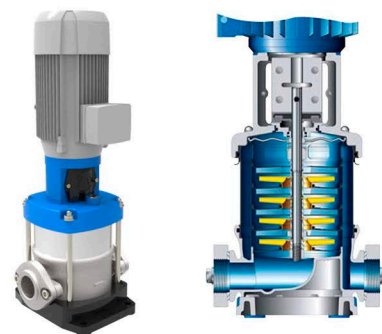
DESIGN: In line with the pipe
 INSTALLATION POSITION: Vertical or horizontal shaft
 CONNECTIONS: Flanged
 SEALING: Mechanical seal
 MAXIMUM PRESSURE: PN16
 BEARINGS: Standard ball bearing
 CERTIFICATES: ACS (under demand)
 FLOW RANGE: 5-150 liters/second
 PRESSURE DROP RANGE: 4-100 meters

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



MICROGRID 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: 2,5-30 liters/second
 PRESSURE DROP RANGE: 25-400 meters

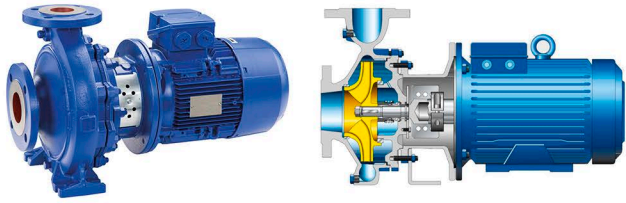
MATERIALS

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

MICROGRID TURBINE SERIES



MONOBLOC

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: 5-150 liters/second

PRESSURE DROP RANGE: 5-160 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

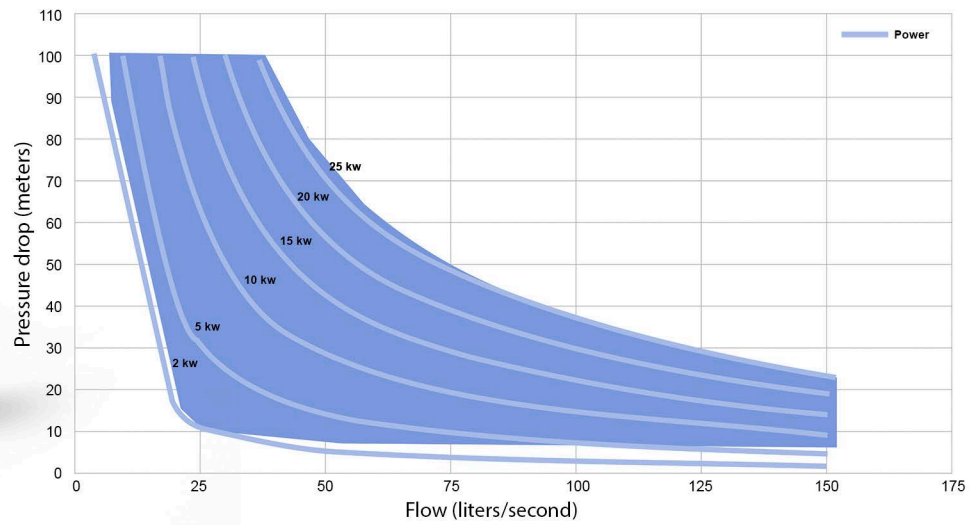
Temperature: -20 up to 45°C

Humidity: Up to 95%

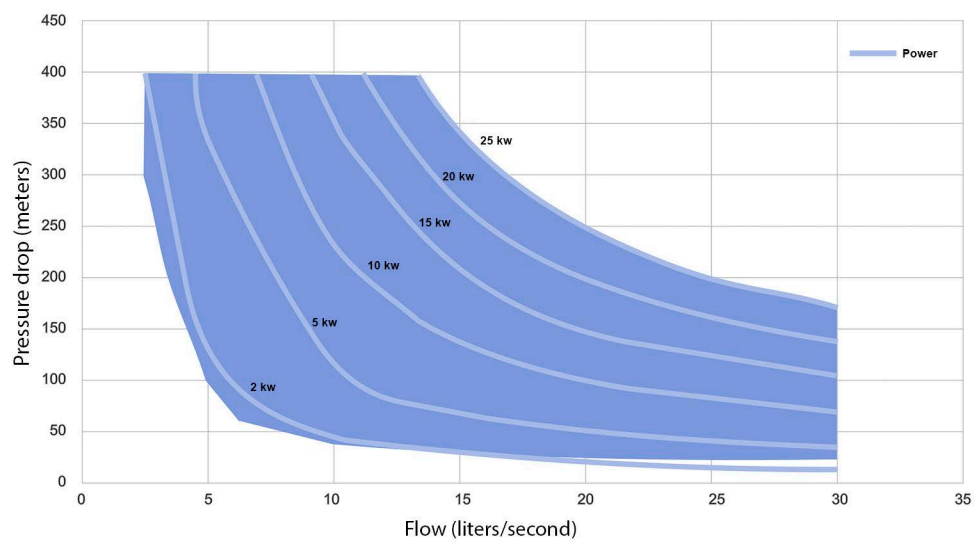
Altitude: Up to 2000 without derrating

MICROGRID TURBINE SERIES

MICROGRID LINE



MICROGRID LINE HP



MICROGRID MONOBLOC

