Pumps · Valves · Systems

HGM-RO – High-Pressure Pump for Energy Recovery Systems with Pressure Exchanger

Applications

- Seawater desalination in reverse osmosis systems
- Cold water applications

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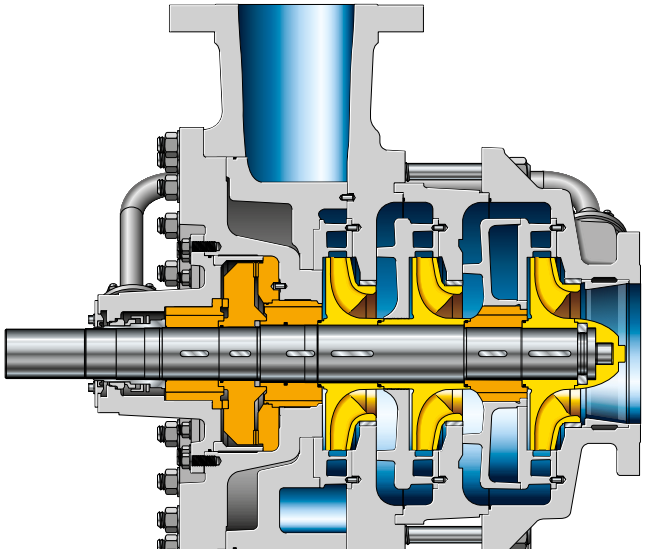

Service friendly design

Product-lubricated plain bearings make for a short bearing span, which ensures a long bearing life and optimum smooth running. The pump is clear of oil and grease, and the compact design of the pump is space-saving and service friendly. The pump can be disassembled and reassembled from either side.

Optimized hydraulic performance

Optimized pump hydraulic systems designed for top efficiencies. The axial inlet make for low NPSH values, therefore minimizing the investment cost of the RO system.

Easy maintenance, low spare parts costs

The pump has only one mechanical seal, which reduces the cost and stock of spare parts. As there is no bearing bracket, the mechanical seal can be replaced easily, if required.

Faster and lower-cost installation, reduced operating costs

This pump does not require any vibration or temperature monitoring. Supply systems for oil-lubricated bearings are not needed, the pump is fully self-sufficient.

Materials*

Shaft	Duplex steel
Impeller/suction impeller	Super duplex steel
Diffuser	Super duplex steel
Pressure boundary	Super duplex steel

*Other materials on request

Miscellaneous

Flanges	to DIN or ASME
Drive	direct by electric motor or turbine

Technical data

Fluid pumped	Seawater, cold water	
Flow rate at max. speed	Up to 1,500 m³/h	Up to 6,600 gpm
	Up to 417 l/s	Up to 110 gps
Head*	Up to 950 m	Up to 3,116 ft
Pump discharge pressure	Up to 120 bar	Up to 1,740 psi
Temperature	Up to 40 °C	Up to 104 °F
Speed	3,000/3,600 rpm	

*Higher heads on request

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