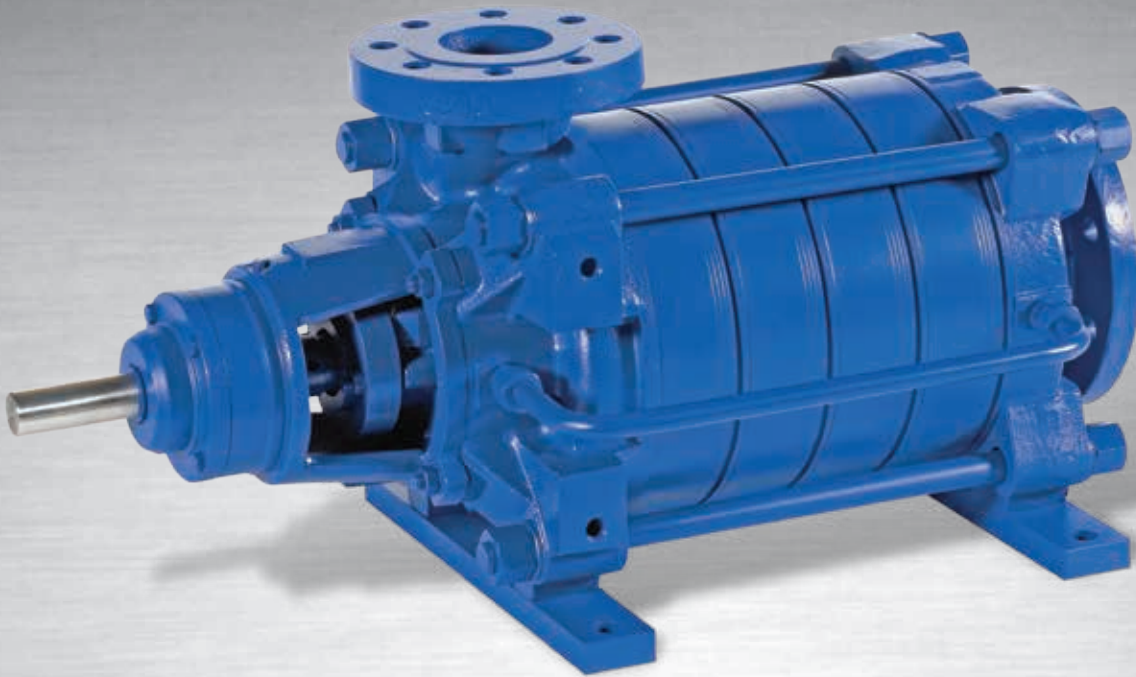


## Multitec RO – High-pressure Pump in Ring-section Design

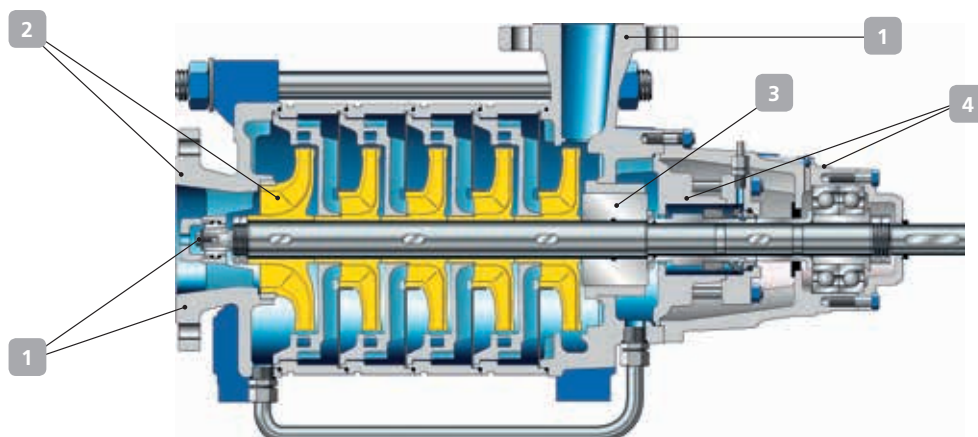


### Applications:

- Reverse osmosis desalination of brackish water and seawater
- Chilled water applications
- Geothermal energy

More information: [www.ksb.com/products](http://www.ksb.com/products)

# Multitec RO – High-pressure Pump in Ring-section Design



## 1 Minimal investment and installation work

- The product-lubricated plain bearing allows short distances between the bearings. This ensures high availability.
- Axial inlet and product-lubricated bearing make for compact design and small footprint. This results in reduced foundation space and cost.
- The pump is supplied ready for operation and does not need any auxiliary systems (plug and play). Radial discharge nozzle with flexible connection to easily adapt to the system.

## High operating reliability

- 2 The suction impeller and axial inlet design make for low NPSHr values thus ensuring maximum operating reliability.
  - Corrosion-resistant and durable materials (duplex or super duplex steel) for a longer service life
  - Wear-resistant, self-aligning plain bearing made of silicon carbide
- 3 Axial thrust balancing through balancing drum for a long service life

### Materials

|          |                             |
|----------|-----------------------------|
| Casing   | Duplex / super duplex steel |
| Impeller | Duplex / super duplex steel |
| Diffuser | Duplex / super duplex steel |
| Shaft    | Duplex / super duplex steel |

### Automation options

PumpDrive, PumpDrive R, KSB SuPremE® IE4\* motor

## Low operating costs

- Optimised hydraulic design and impellers trimmed to the duty point as standard to ensure the system's high efficiency. The KSB SuPremE® IE4\* synchronous reluctance motor and PumpDrive or PumpDrive R variable speed systems make for optimal efficiency of the complete pump set and automatic adjustment to current demand, thus important energy savings are achieved.

## Service-friendly design, low spare parts costs

- The pump only has one discharge-side mechanical seal, which reduces the costs for purchasing and storing spare parts.
- Simple and compact design provides for ease of service
- 4 Easy dismantling of bearing and shaft seal without the need to remove hydraulic components thanks to separate seal chamber/bearing housing as well as shaft protecting sleeves at the bearing and shaft seal

### Other features

|         |                          |
|---------|--------------------------|
| Flanges | DIN or drilled to ASME   |
| Drive   | direct by electric motor |

### Technical data

| Size: DN 50-150         |   |
|-------------------------|---|
| Fluids handled          | Seawater, brackish water, chilled water |
| Flow rate               | up to 850 m <sup>3</sup> /h 3742 Usqpm  |
| Discharge head          | up to 1000 m 3280 ft                    |
| Pump discharge pressure | up to 100 bar up to 1450 psi            |
| Fluid temperature       | up to 45 °C 113 °F                      |
| Frequency               | 50 and 60 Hz, 2 and 4 poles             |

\* IE4 acc. to IEC/CD 60034-30 Ed. 2



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