

BMEX Booster Seawater

➤ BMEX Booster system

The new Grundfos BMEX pump system is a unique design dedicated for seawater and brackish water desalination.

The innovative system is capable of delivering 2.500m³/day with a maximum energy consumption of only 3 kWh/m³.

The unique BMEX system features components made of super stainless steel, polymer and ceramic, which make it extremely resistant to its operating environment.

The Grundfos BMEX system offers state-of-the-art technologies that make the system extremely efficient and highly dependable regardless of the application. These systems are built to last, and are an excellent choice whenever you need a reliable and compact solution.

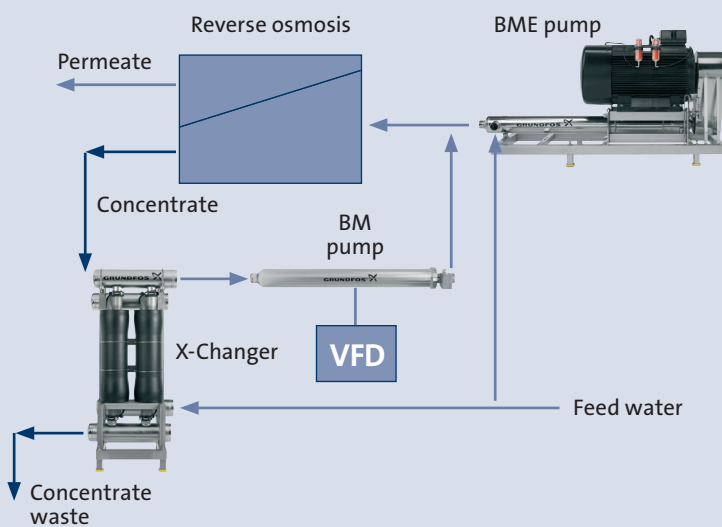


Features and benefits

- **Corrosion resistance**
All parts that come in contact with the pumped liquid are made from stainless steel, polymer and ceramic, ensuring resistance to corrosive and low-viscosity fluids, e.g. seawater and brackish water.
- **High quality products**
The BMEX system offers years of trouble free operation at a low cost of operation with limited maintenance effort.
- **Compact design**
The BMEX system has a very small foot print giving system builders a free hand to design more compact systems.

BMEX system

- The BMEX system consists of a BME pump creating the flow through the membranes as well as the design pressure.
The X-Changer converts the energy from the concentrate $Q \times H$ of the membranes into the feed stream to the membrane.
The pressure loss in the X-Changer is equalized by the BM pump and VFD frequency converter holding the desired pressure for the RO process.



BMEX 5: Permeate 500 m³/day

| | |
|-------------------------|----------------------|
| Feed water | 60 m ³ /h |
| Feed pressure | 3-5Bar |
| Recovery from membrane: | 35% |

| | |
|------------|---------------------|
| BME | |
| Head | 70 bar |
| Capacity | 21m ³ /h |

| | |
|---------------------|---------------------|
| BM & VFD | |
| Head | 4-5 bar |
| Capacity | 39m ³ /h |

| | |
|----------------------|---------------------|
| 2 units × 140 | |
| Capacity | 39m ³ /h |

BMEX 10: Permeate 1000 m³/day

| | |
|-------------------------|-----------------------|
| Feed water | 119 m ³ /h |
| Feed pressure | 3-5Bar |
| Recovery from membrane: | 35% |

| | |
|------------|---------------------|
| BME | |
| Head | 70 bar |
| Capacity | 42m ³ /h |

| | |
|---------------------|---------------------|
| BM & VFD | |
| Head | 4-5 bar |
| Capacity | 77m ³ /h |

| | |
|----------------------|---------------------|
| 2 units × 180 | |
| Capacity | 77m ³ /h |

BMEX 15: Permeate 1500 m³/day

| | |
|-------------------------|-----------------------|
| Feed water | 179 m ³ /h |
| Feed pressure | 3-5Bar |
| Recovery from membrane: | 35% |

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|------------|---------------------|
| BME | |
| Head | 70 bar |
| Capacity | 63m ³ /h |

| | |
|---------------------|----------------------|
| BM & VFD | |
| Head | 4-5 bar |
| Capacity | 116m ³ /h |

| | |
|----------------------|----------------------|
| 2 units × 180 | |
| Capacity | 116m ³ /h |

BMEX 20: Permeate 2000 m³/day

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|-------------------------|-----------------------|
| Feed water | 238 m ³ /h |
| Feed pressure | 3-5Bar |
| Recovery from membrane: | 35% |

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|------------|---------------------|
| BME | |
| Head | 70 bar |
| Capacity | 83m ³ /h |

| | |
|---------------------|----------------------|
| BM & VFD | |
| Head | 4-5 bar |
| Capacity | 155m ³ /h |

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|----------------------|----------------------|
| 4 units × 220 | |
| Capacity | 155m ³ /h |

Other systems on request, please contact Grundfos.