

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.

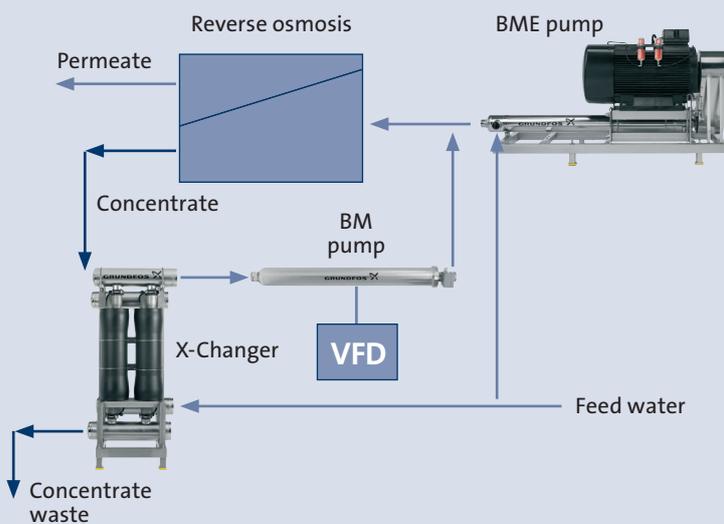


Features and benefits

- **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%

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

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

BME	
Head	70 bar
Capacity	83m ³ /h

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

4 units × 220	
Capacity	155m ³ /h

Other systems on request, please contact Grundfos.