Merkur Super Star 20K

Reverse Osmosis Water Treatment Systems



Reliable Water Quality for Commercial Applications
The Merkur Super Star Series is designed to deliver consistent, high-quality treated water for demanding i commercial processes. With its stainless-steel construction, high-efficiency membrane technology, automatic flushing function and advanced control system, it supports operational reliability, equipment protection and process efficiency.

Ideal for businesses that require stable water quality, reduced scaling risk and dependable system performance.

KEY BENEFITS

Consistent Water Quality
High-efficiency reverse osmosis membrane technology helps deliver stable permeate water quality for critical processes.

Equipment Protection
Reduced mineral content helps minimize scaling and supports the long-term performance of boilers, heating systems, washing equipment and production lines.

Reliable System Operation
Automatic membrane flushing, pressure switches, flowmeters and control components help ensure safer and more controlled operation.

Durable Industrial Design
SS-304 stainless steel construction provides strength, corrosion resistance and suitability for demanding operating environments.

Flexible Integration
The system is designed to allow the addition of permeate flushing or raw water blending assemblies according to process requirements.

OPTIONS

- CSM 40x40 BL/BE membrane option
- CIP system
- Blending assembly
- Permate Flushing

APPLICATIONS

The Merkur Super Star Series is suitable for a wide range of commercial and industrial applications, including:

- Beverage production
- Icemachines
- Steam boilers
- Laundries
- Heating and cooling circuits
- Poultry farms
- Glass washing
- Commercial process water applications

SPECIFICATIONS

- High-efficiency Waterclinic by A.O. Smith membrane (4pcs.)
- Grundfos pump (CM Series)
- UNILINE RO controller with Conductivity meter
- SS-304 stainless steel construction
- 20" BB pre-filtration
- FRP membrane vessel
- Pump, inlet water and permeate water pressure indicators for Merkur 15K and above models
- Permeate and Reject flowmeters
- Membrane auto-flush function
- High and low pressure switches
- Rejection valve
- Inlet water solenoid valve
- Phase control relay for Merkur 15K and above models
- Emergency stop button for Merkur 15K and above models

*For the ideal performance Inlet Water should be free of grease, hydrogen suphate, oxidizing elements, microbiological contamination and turbidity.

A.O. Smith Su Teknolojileri A.Ş.

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nqa. ISO 9001 OHSAS 18001 Registered

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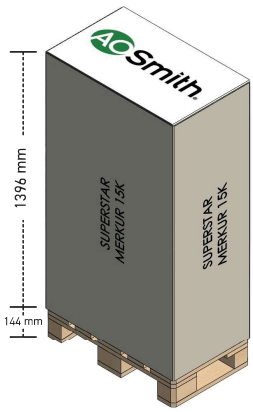
TECHNICAL SPECIFICATION

Permeate capacity [1]		**800 L/h - 900 L/h**
Permeate recovery [2]		**%60 - %75**
Maximum TDS		**3000 mg/L (see chart for details)**
Influent flow demand		1200...1600 L/h (service)
		2800...3800 L/h (rinse)
Operating pressure		8...12 bar
Maximum pressure		14 bar
Electrical requirements		380 V, 50 Hz (3 ph)
Electrical power		2,2 kW
Prefilter rating		5 µm
Influent water		G ½"
Concentrate water		G 1"
Permeate		G 1"
Antiscalant dosing port		G ½"
Permeate flushing input port		Optional
Raw water blending port		Optional
Approx. weight	(bare system) (crate)	101 kg 109 kg

[1] Depends on feed water parameters such as TDS, temperature and permeate recovery.
[2] For low scaling / low fouling water.







Süperstar Merkür Device Dimensions : 800 mm x 480 mm x1396 mm
Palet Dimensions : 1000 mm x1200 mm x144 mm
Süperstar Merkür + Palet Dimensions : 1000 mm x1200 mm x 1540mm

3-Pack Süperstar Merkür Palet Dimensions : 1000 mm x 1285 mm x 1540mm

*Subject to change

Operating Note: For ideal performance, inlet water should be free of grease, hydrogen sulphide, oxidizing agents, microbiological contamination and turbidity.
Logistics Information: Pallet loading and shipment configuration details are available upon request.

Suggested Cover Message:
Industrial RO Performance for Reliable Process Water
Protect your equipment. Stabilize your water quality. Improve operational efficiency.
Merkur Super Star Series reverse osmosis systems are engineered for demanding commercial and industrial applications where water quality directly affects process performance, equipment lifetime and operating costs.

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