

REVERSE OSMOSIS LKF SERIES



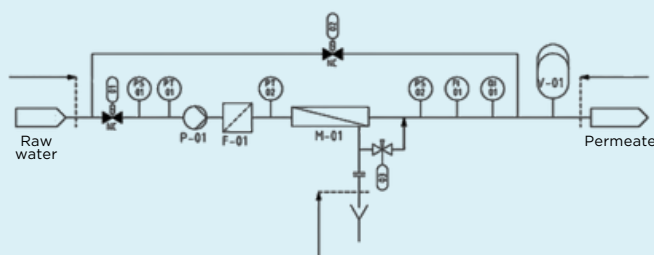
The LKF 1000–3000 Reverse Osmosis units are compact, efficient systems designed to deliver high-quality desalinated water for a variety of small to medium-volume applications.

Each unit features advanced membrane filtration, integrated sensors, and a TFT push-button display for reliable monitoring and simple operation.

WHY CHOOSE LKF SERIES

- 💧 **Consistent purity** – High-performance RO membranes for reliable water quality.
- 💧 **Bypass mode** – Maintains uninterrupted water flow during servicing.
- 💧 **Clear display** – TFT with push-button interface for system status and menu access.
- 💧 **Advanced filtration** – CBF 5.0 activated carbon pre-filter with 5-micron filtration.
- 💧 **Built-in protection** – Auto shut-off on low pressure or leaks.
- 💧 **Smart monitoring** – Tracks pressure, flow, and conductivity in real time.
- 💧 **Easy maintenance** – Fast access to replace membranes and filters.
- 💧 **Optional pressure vessel** – Reduces pump cycling for longer service life.
- 💧 **Compact design** – Ideal for restricted spaces, easy to install.
- 💧 **Pre-configured** – Factory-set for instant operation with no setup needed.

SYSTEM FLOW DIAGRAM



SYMBOL	DEFINITION
01	Incoming solenoid valve (NC)
02	Solenoid valve bypass
PS 01	Pressure sensor feed water pressure
PT 01	Input water pressure sensor
P 01	High pressure pump
F-01	Pre-filter CBF 5.0
PT 02	Pressure sensor for the membranes
M-01	RO membranes
03	Mixing valve concentrate / permeate
PS 02	Pressure switch permeate
FI-01	Flow sensor permeate
QI-01	Sensor conductivity
V-01	Pressure vessel permeate (optional)

TECHNICAL SPECIFICATION

WATER QUALITY OUTPUT (TYPICAL VALUES)

Conductivity <40 µS/cm (adjustable via mixing valve)

Pre-filter Filtration 5 micron activated carbon

Permeate Pressure Output Max. 2.5 bar

FEED WATER SPECIFICATION

Supply Type Potable Water

Total Conductivity <750 µS/cm

Hardness <400 mg/L

Free Chlorine <0.4 mg/L

Inlet Pressure 0.5 – 4 bar

Temperature 5 – 25 °C

PRODUCT SPECIFICATION

Type	LKF 1000	LKF 2000	LKF 3000
Capacity (at 15°C) (L/h)	140	280	440
Power Consumption	300W	500W	500W
Dimensions L x W x H (mm)	450 x 220 x 440	550 x 220 x 440	660 x 220 x 440
Power Supply	230V, 50Hz		
Shipping weight (approx.)	20-40 kg		
Inlet Connection	3/4" hose connection		
Outlet Connection	3/4" hose connection		
Drain Hose	3/4" hose connection		
Pre-filter	CBF 5.0		

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