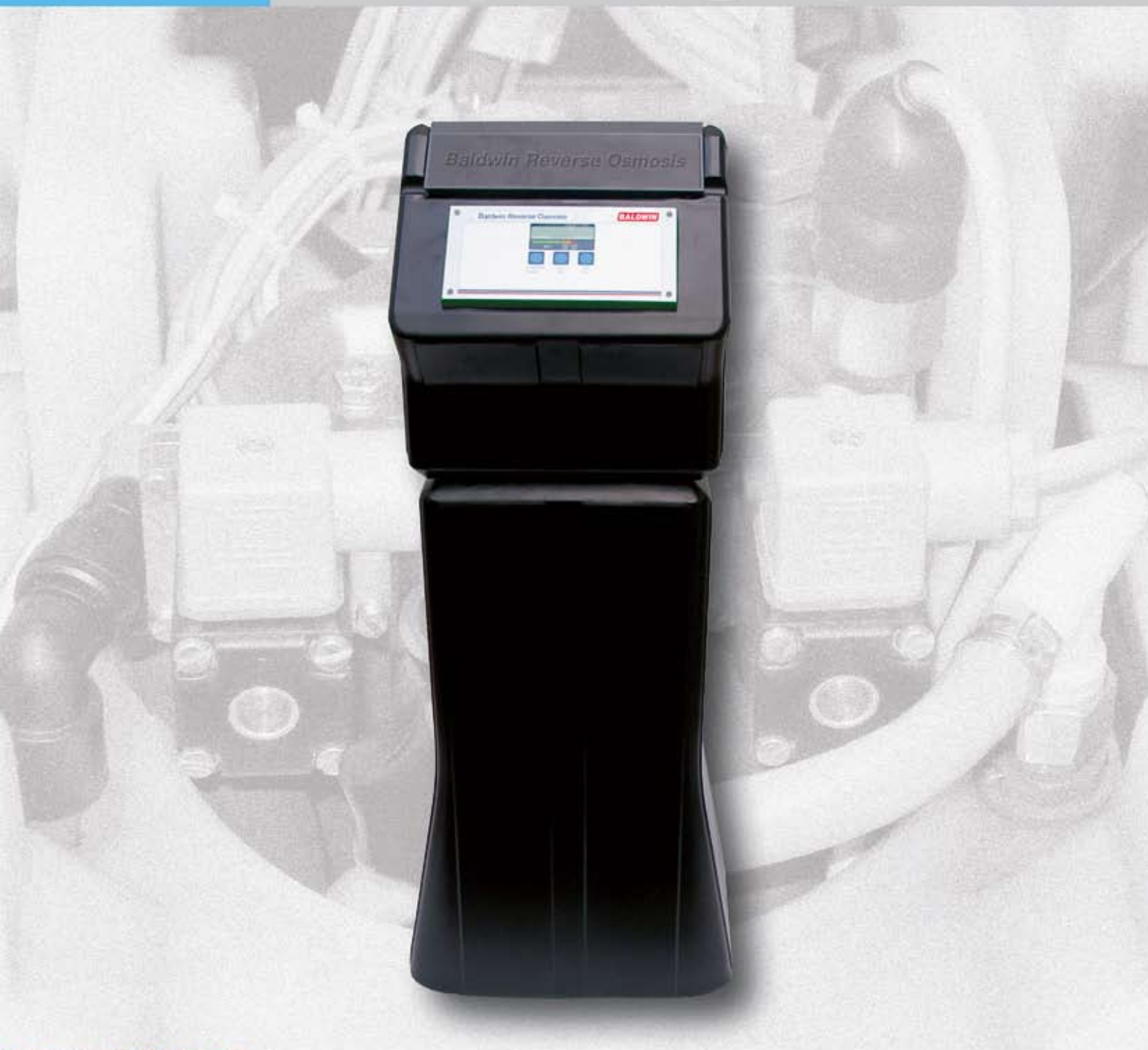
Reverse Osmosis

Compact reverse osmosis unit with permeate reservoir and pressurising pump

Dampening Systems



BALDWIN®

Reverse Osmosis

Compact reverse osmosis unit with permeate reservoir and pressurising pump

The Reverse Osmosis-K 125 reverse osmosis unit is used for desalinating untreated water.

The untreated water is first passed through a 5-◂m prefilter, then pressurised to a system pressure of 7 bar via a shut-off pump.

The ultra-low-energy osmosis membrane then divides the untreated water into partial flows of permeate (pure water) and concentrate.

Part of the concentrate is then recycled into the untreated water to increase system efficiency.

The permeate is collected in the permeate tank and pumped to users on demand via a pressure-controlled pressurising pump.

A microprocessor control unit with LCD function and service interval indicator controls all functions of the Reverse Osmosis-K 125.

Malfunctions are transmitted to a central control room via a potential-free central fault message.

Valve block for regulation and control of the various partial flows

Untreated water limiting values:

Total hardness < 0.1 °dH; free chlorine < 0.2 mg/l (active carbon filter); iron < 0.2 mg/l; manganese < 0.05 mg/l; silicate < 15 mg/l; turbidity < 1 TE/F; colloid index < 3; pH-range 3-9.

Technical Data

Nominal water-pipe connectors: Ω“ (DN 15)AG
Electrical connection power, approx.: 0.7 kW
Mains supply: 230 V / 50 Hz
Permeate capacity at 10 - 15 °C water inlet temperature: 125/105 l/h
Electric pump power at working pressure (high-pressure pump): 0.55 kW
Nominal pressure: 16 bar
Salt retention: 95-99%
Pressurising pump capacity: 10 l/h at 2.8 bar
Permeate reservoir capacity: 38 l
Size (W x H x D): 450 x 1130 x 600 mm
Operating weight, approx.: 65 kg

For further details on technical data and connected loads as well as preconditions for installation to be provided by the customer please see the separate technical information sheet. We reserve the right to alter any specification for the sake of technical improvement without notice.

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