Data sheet as of 18/04/2023

KVP BW
Concentrate displacement with permeate

Concentrate displacement with permeate (KVP) for reverse osmosis units operated with antiscalant dosing and problematic raw water. At each production start, the rinse tank is filled with initial permeate. After production stops, the concentrate is displaced with permeate from the rinse tank and not with raw water. By using permeate, the system is optimally rinsed out and the risk of scaling on the membrane surface is significantly reduced.
The KVP system can also be used for manual cleaning of the reverse osmosis unit.

BENEFITS

- RO unit is optimally flushed out with permeate
- Risk of fouling on the membrane surface is significantly reduced

APPLICATIONS

- For RO units of the UO-D BW/FU series
- For problematic raw waters and antiscalant dosing

CONDITIONS OF USE

The KVP option must be ordered together with the reverse osmosis unit of the UO-D BW/FU series since the entire control for the automatic concentrate displacement with permeate incl. the pilot valves and voltage supply of the pump is integrated into the RO controller.

If the KVP option is integrated into a RO unit with variable-speed drive (VSD = FU), this RO unit can no longer be operated at 50 - 60 Hz and 380 - 500 V, but exclusively at 50 Hz and 400 V.

Product name Volume l	Compatible with	Mains connection kW / V / Hz	Dimensions in mm W x D x H	Item number
KVP 100 BW	UO-D 250 - 1,000 BW/FU	0.46 / 3 x 400 / 50	640 x 830 x 1,370	384 720
KVP 200 BW	UO-D 2,000 - 3,000 BW/FU	0.46 / 3 x 400 / 50	640 x 830 x 1,450	384 721
KVP 300 BW	UO-D 4,500 - 6,500 BW/FU	1.50 / 3 x 400 / 50	840 x 940 x 1,750	384 722
KVP 500 BW	UO-D 10,000 - 13,500 BW/FU	2.20 / 3 x 400 / 50	840 x 1,080 x 1,890	384 723