



HIGHLY EFFICIENT SOLUTION



Energy saving



Water saving



Low noise



Gentle to installations



High Salt Rejection Rate

Water is a very precious commodity today. Hence, energy and economic efficiency in industrial processes is now more important than ever.

It is therefore quite logical that the innovations within the Herco range aim at all the possibilities to save water and energy.

Herco RO systems excel because of their extremely low operating costs which increases your customers competitiveness. The very short payback period, which ranges between 1 and 3 years, makes a Herco RO for both parties an excellent investment.

This catalog is just the beginning of the service we can offer you in terms of Membrane Technology. The next few pages are a general overview of the RO range. Do not hesitate to contact us if you need more information, pictures, data or other items you need to complete your price quotation.

For more information, please contact Micron or tech@micron.be



UO ND Series



UO RKE Series



UO AS Series

Our comprehensive standardised RO program covers permeate capacities of 30 – 30,000 liters per hour. Our RO systems can be made to offer much more, however: The specific design of the various series offer you the best technology for every application:

- **UO ED Z**
Is the perfect solution for applications that are to be fed directly as for example humidifiers, this in order to counteract all the possible biological contaminants
- **KR**
Water savings by high permeate recovery up to 90%.
- **ND**
Highest desalination level, up to 99% and more
- **UP**
For the production of ultrapure water with resistance >10MΩxcm
- **RK / UO-D / UO AS-D / UO ED Z**
With RO Digital Controller

- **BW**
For the treatment of brackish water water
- **SW**
For the treatment of sea water

Thanks to our modular systems in the complete water treatment chain and numerous Options and accessories, any system can be perfectly tailored to your requirements.

Custom made versions and other capacities can also be produced, we gladly listen to your needs and advice you.

For your customers and yourselves, our water treatment technology means better competitiveness by optimized operating costs: Our highly efficient systems with latest control technology pay for themselves within only 1-2 years in most cases.

Basic data needed to select a reverse osmosis/EDI system

1. Quality and source of the feed water to be demineralised (analysis, pre-treatment)
2. Permeate rate (per hour and per day on average)
3. Permeate quality (conductivity)
4. Controller type (μ P controllers RO 524, RO 1000, RO digital, others)
5. Type of pre-treatment, available equipment on site, primary pressure, permeate backpressure, installation site, transport to location, etc
6. Significance of the running costs (electric energy, wastewater)

Feed water : softened tap water (without chlorine)				
Permeate	Features	Series	Controller	Remarks
50 to 500 l/h	wall device	WSE	RO 524	may also be installed on the floor
	skid mounted, free-standing	RKE	RO 524	
		RS	RO 1000	
		RK	RO digital	
600 to 1500 l/h	direct feeding without storage tank	UO-ED	RO digital	more hygienic
	skid mounted, free-standing	ND	RO 1000	Vertical membrane housings
		UO-D ND	RO digital	
	energy saving	UO-D ND/FU	RO digital	With frequency converter FU
	permeat conductivity approx. 5 μ S/cm	ND/P	RO 5000	permeat staged
2000 to 12000 l/h	skid mounted, free-standing	ND	RO 1000	Vertical membrane housings
		UO-D ND	RO digital	
	energy saving	UO-D ND/FU	RO digital	With frequency converter FU
	water saving	KR	RO 5000	special concentrate stage
	water and energy saving	KR/FU	RO 5000	special concentrate stage + FU
Ultrapure water				
Permeate	Features	Series	Controller	Remarks
150 to 20000 /h	UO + EDI	UP	RO 1000	dilute approx. 0,2 μ S/cm
	EDI	EP	no μ P control	dilute approx. 0,2 μ S/cm, demineralisation van het Permeat
Feed water : tap water (without chlorine, antiscalant dosing)				
Permeate	Features	Series	Controller	Remarks
1650 to 30000 l/h	skid mounted, free-standing	AS	RO 1000	incl. concentrate rinsing and connector kit for cleaning set
		UO-D AS	RO digital	
	energy saving	UO-D ND/FU	RO digital	With frequency converter FU
Feed water : brackish water				
Permeate	Features	Series	Controller	Remarks
250 to 27500 l/h	skid mounted, free-standing	BW	RO 1000	incl. concentrate rinsing and connector kit for cleaning set
		BW-FU	RO 1000	With frequency converter FU
Feed water : sea water				
Permeate	Features	Series	Controller	Remarks
650 to 20000l/h	skid mounted, free-standing	SW	RO 1000	incl. Permeate rinsing

Features of the microprocessor controllers

Type	RO 524	RO 1000	RO Digital	RO 5000
Display	2 digits	two lines with each 16 characters	four line with each 20 characters	graphical display
Conductivity measurement	1 to 99 µS/cm	2 to 200 µS/cm	2 to 200 µS/cm	2 to 200 µS/cm
Further conductivity ranges (µS/cm)	without comp. T	0,5 to 50, 20 to 2.000, 100 to 10.000	-	0,5 to 50, 20 to 2.000
Control voltage	24 VDC	230V / 50Hz	24 VDC	230V / 50Hz
Supply voltage	230V/50-60 Hz, +10%	230V/50-60 Hz, +10%	93-265V/50-60Hz	230V/50-60 Hz, +10%
Dry run prevention for RO pump	yes	yes	yes	yes
Port for Limitron	yes	yes	yes	yes
Forced stop RO	yes	yes	yes	yes
Operating signal	-	adjustable	adjustable	adjustable
Centralised alarm	yes	yes	yes	yes
Automatic mode (e.g. tank level)	yes	yes	yes	yes
Permeate conductivity limit	fixed	adjustable	adjustable	adjustable
Flow rate limits	-	-	adjustable	-
Pressure limits	-	-	adjustable	-
Behaviour in case of limit exceeded	fixed	adjustable	adjustable	adjustable
Constant permeate rate possible	-	-	yes if FU available	-
Pump Changeover device	-	-	-	yes
Optional ports (inputs)				
Concentrate rinse valve	yes	yes	yes	yes
Permeate recirculation	-	yes	yes	yes
Double-staged RO system	-	-	-	yes
Analogue level switch	-	-	yes	-
Feed water conductivity	-	-	-	yes, 3 measurement ranges
Programmable digital inputs	-	2	3	1
e.g. dosing container empty pre-alarm	-	yes	yes	yes
e.g. external fault	-	yes	yes	yes
Optional ports (outputs)				
Permeate conductivity pre-warning	-	-	yes	yes
Analogue values	-	1	2	1
e.g. permeate conductivity	-	yes	yes	yes
e.g. permeate rate	-	-	yes	-
Programmable digital outputs	-	1	1	1
e.g. operating signal	-	yes	yes	yes
Data logging	-	-	1960 data sets (approx. 10 days)	1145 data sets
Parameter setting	fixed	adjustable	adjustable	adjustable
Firmware update	in the factory	via update board	via RS232	via RS232

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

WALL MOUNTED - RO 120 - 500 L/H: WSE SERIES (RO 524)

- » Skid mounted, complete unit
- » RO 524 controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 to 14 bar (depending on type)
- » Voltage: 230 V/50 Hz
- » Analogue flowmeters

Reference	Code	Type	Description	Membranes	#	Flow	€
5110010091	381 940	UO 120 WSE	Wall mounted /free-standing unit	2,5" X 40"	1	120 L/H	
5110010042	381 941	UO 250 WSE	With RO 524 controller	4" x 40"	1	250 L/H	
5110010041	381 942	UO 300 WSE		4" x 40"	1	300 L/H	
5110010048	381 943	UO 400 WSE		4" x 40"	2	400 L/H	
5110010049	381 944	UO 500 WSE		4" x 40"	2	500 L/H	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
5213020923	382 377	Concentrate rinsing KSE500 Several storage tanks	for UO 50 - 500 see page 102



UO 500 WSE With Limitron (Option) and KSE (Option)

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

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RO 120 - 500 L/H : RKE SERIES (RO 524)

- » Skid mounted, complete unit
- » RO 524 controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 to 14 bar (depending on type)
- » Voltage: 230 V/50 Hz
- » Analogue flowmeters

Reference	Code	Type	Description	Mem-branes	#	Flow	€
5110010043	381 930	UO 120 RKE	Stand-type unit with RO 524 controller	2,5" X 40"	1	120 L/H	
5110010044	381 931	UO 250 RKE	skid mounted	4" x 40"	1	250 L/H	
5110010045	381 932	UO 300 RKE		4" x 40"	1	300 L/H	
5110010046	381 933	UO 400 RKE		4" x 40"	2	400 L/H	
5110010047	381 934	UO 500 RKE		4" x 40"	2	500 L/H	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
5213020923	382 377	Concentrate rinsing KSE500 Several storage tanks	for UO 50 - 500 see page 102



UO 500 RKE With Limitron (Option)

The RO units are designed for a maximum TDS level of 1000 mg/l, water temperature of 15°C and maximum SDI of 3. The efficiency depends on the feed water and the type of pretreatment.

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

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RO 50 - 500 L/H : RS SERIES (RO1000)

- » Skid mounted, complete unit
- » RO 1000 controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 to 14 bar (depending on type)
- » Voltage: 230 V/50 Hz
- » Analogue flowmeters

Reference	Code	Type	Description	Membranes	#	Flow	€
5110010857	380 211	UO 50 RS	Stand-type unit with RO1000 controller	2,5" X 40"	1	50 L/H	
5110010858	381 071	UO 100 RS	skid mounted	4" X 40"	1	100 L/H	
5110010859	381 081	UO 250 RS		4" x 40"	1	250 L/H	
5110010860	381 410	UO 300 RS		4" x 40"	1	300 L/H	
5110010861	381 091	UO 400 RS		4" x 40"	2	400 L/H	
5110010862	381 430	UO 500 RS		4" x 40"	2	500 L/H	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
5213020923	382 377	Concentrate rinsing KSE500	for UO 50 - 500
5213010920	382 305	Permeate recirculation PR500	for UO 50 - 500
		Several storage tanks	see page 102
5213040924	382 468	Connector kit (ARA DN 10) for cleaning set MRA	for UO 50 - 500
5213030696	382 026	Cleaning set MRA - Vessel size 100L	for UO 50 - 1500



UO 500 RS With Limitron (Option)

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

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RO 50 - 500 L/H : RK SERIES (RO DIGITAL)

- » Skid mounted, complete unit
- » RO Digital controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 to 14 bar (depending on type)
- » Voltage: 230 V/50 Hz
- » Digital flowmeters
- » 'Profinet' interface (option)

Reference	Code	Type	Description	Mem-branes	#	Flow	€
5110010106	387 118	UO-D 120 RK	Stand-type unit with RO	2,5" X 40"	1	120 L/H	
5110010107	387 119	UO-D 250 RK	digital controller	4" x 40"	1	250 L/H	
5110010108	387 120	UO-D 300 RK	skid mounted	4" x 40"	1	300 L/H	
5110010109	387 121	UO-D 400 RK		4" x 40"	2	400 L/H	
5110010110	387 122	UO-D 500 RK		4" x 40"	2	500 L/H	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 -1500
5213020002	383 222	Concentrate rinsing KSE500/24	for UO 50 - 500
5213010001	383 256	Permeate recirculation PR500/24	for UO 50 - 500
		Several storage tanks	see page 102
5213040924	382 468	Connector kit (ARA DN 10) for cleaning set MRA	for UO 50 - 500
5213030696	382 026	Cleaning set MRA - Vessel size 100L	for UO 50 - 1500
5213000054	541 842	PROFINET-Interface	



UO-D 500 RK

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment



RO DIGITAL CONTROLLER

The Digital Controller (UO-D) on the following RO units :

- UO-ND and ND/FU series
- AS and AS/FU series
- ES series



Advantages :

- Automatic encoding of parameters (Flow, pressure, conductivity, etc)
- Improve the security of the process by adjustable limit values of alarms
- Visualization of the running of the process on screen
- Great flexibility thanks to adjustable parameter to in-and output
- Display of conversion unit (calculated) and calculation of the total Flow
- New Option: [Interface « Profinet »](#), for connection with the central management system

The following data are provided and available when using the [Profinet Interface](#):

- mode of operation and status of the RO system
- Status of the Pump and valve
- Analogue inputs like flows, pressure, temperature and conductivity
- Digital inputs such as level, external stop and universal
- External inputs (stop, level storage tank ...)
- Total flows
- Number of working hours
- Alarm signal

Profinet interface also provides the possibility to command the RO from a distance:

- Validate the alarm
- Startup/stopping off RO unit

The Profinet module consists of an interconnection card, to assemble in a central electricity cabine, and a connection cable between the card and the RO Digital controller. There is also a CD included with the documentation for exchanging data. The integration of Profinet Interface in the overall system is the responsibility of the customer.

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

OPTIONS FOR WSE, RKE, RS EN RK SYSTEMS

PERMEATE RECIRCULATION :

guarantees the quality of the permeate through the recirculation of the permeate through the RO as soon as the quality exceeds a preset value

LIMITRON:

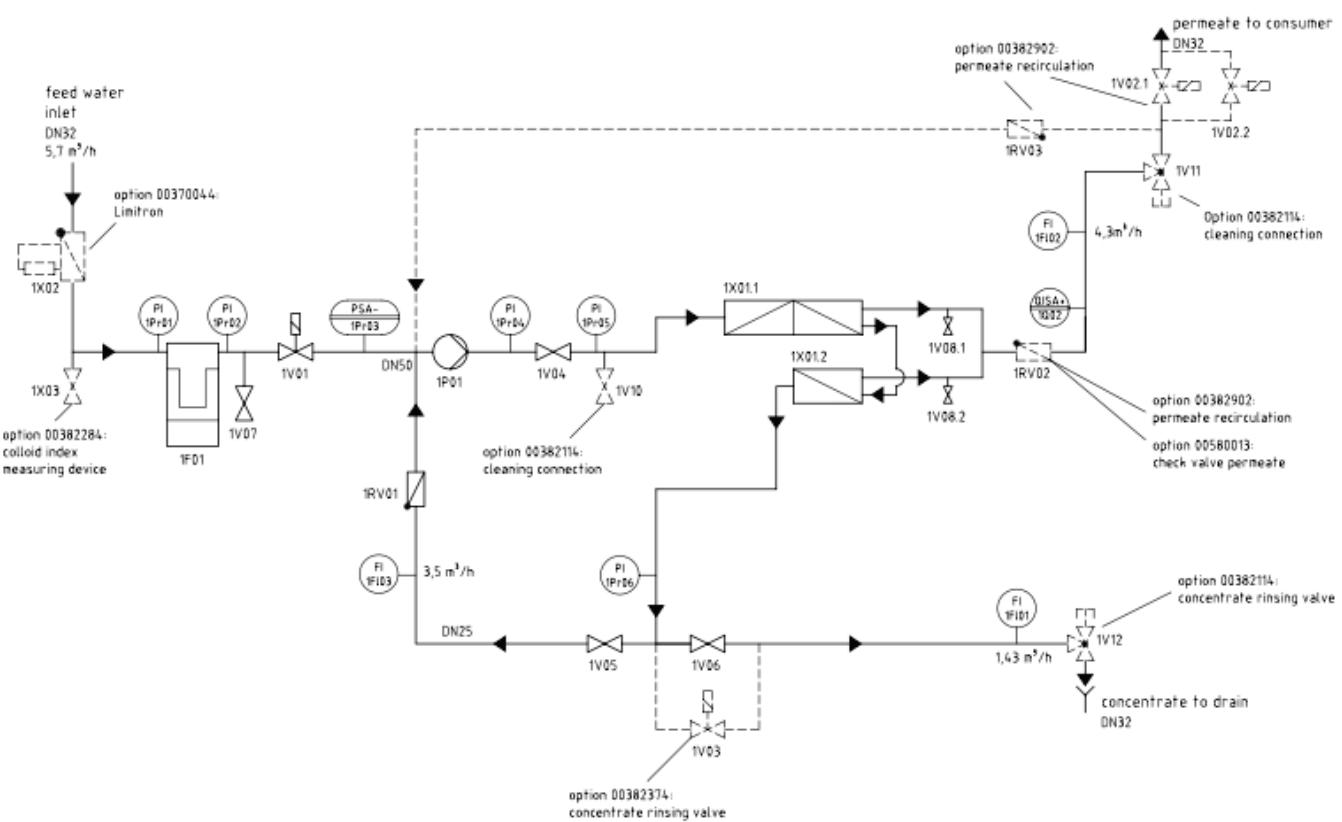
permanent control of the hardness of the water at the entrance. This device works without water and without chemical products. The Limitron is controlled by the controller of the RO
See page 106

CONCENTRATE BINSING KSE :

CONCENTRATE RINSING RSE :
effective flushing of the concentrate with raw water

CONNECTOR KIT FOR CLEANING SET

several connections that make it possible to connect a cleaning set for the manual cleaning of the membranes.



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RO WITH PERMEAT PRESSURE UP TO 7 BAR: UO-ED Z SERIES (RO DIGITAL)

- » Skid mounted, complete unit
- » Permeat pressure up to 7bar
- » Integrated diaphragm pressure vessel
- » RO Digital controller
- » Return: up to 80%
- » Salt rejection percentage: min. 97%
- » Working pressure: 12-15 bar (depending on type)
- » Voltage: 1x230V(50-150) / 3x380V (300-1200)
- » Digital flowmeters
- » 'Profinet' interface (option)
- » Incl. Permeate recirculation
- » Hygienic concept to avoid biological contamination

Reference	Code	Type	Description	Mem-branes	#	Permeat flow	€
						4 bar	7 bar
5110010113	380 620	UO-ED 50 Z	Skid mounted , free-standing unit	2,5" X 40"	1	50 l/h	35 l/h
5110010114	380 621	UO-ED 150 Z	With RO Digital controller	4" x 40"	1	150 l/h	100 l/h
5110010115	380 622	UO-ED 300 Z	with diaphragm pressure vessel in the	4" x 40"	1	300 l/h	200 l/h
5110010116	380 623	UO-ED 600 Z	permeate pipe for direct, pressurised	4" x 40"	2	600 l/h	400 l/h
5110010117	380 624	UO-ED 900 Z	permeate withdrawal	4" x 40"	3	900 l/h	600 l/h
5110010118	380 625	UO-ED 1200 Z	up to 7 bar	4" x 40"	4	1200 l/h	800 l/h

Options
4804000640 370 038 Limitron 3/4" For automatic monitoring of the quality of soft water
5213000054 541 842 PROFINET-Interface



UO-ED 900 Z

The UO-ED Z series was developed for the direct feeding of multiple systems (e.g. humidifiers) that randomly require pure water.

The advantages of the UO-ED series:

- » Pressurised permeate withdrawal (up to 7 bar)
- » Integrated diaphragm pressure vessel
- » Integrated Permeate recirculation
- » Hygienic concept to avoid biological contamination

When the desired permeate pressure is lower than 7 bar is, more water will be produced
The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3.

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RO 600L/H - 12000L/H : ND SERIES (RO1000)

- » Skid mounted, complete unit
- » RO 1000 controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 to 14 bar (depending on type)
- » Voltage: 3 x 380V
- » Analogue flowmeters



Reference	Code	Type	Description	Membranes	#	Flow	€
5110010646	381101	UO 600 ND	Stand-type unit with RO1000 controller	4" x 40"	2	600 L/H	
5110010647	381111	UO 900 ND	mounted on stainless steel skid	4" x 40"	3	900 L/H	
5110010648	381121	UO 1200 ND	with vertical membrane housings 4"	4" x 40"	4	1200 L/H	
5110010649	381131	UO 1500 ND		4" x 40"	5	1550 L/H	
5110010650	381301	UO 2000 ND	Stand-type unit with With RO1000 controller	4" x 40"	6	2000 L/H	
5110010651	381311	UO 2500 ND	mounted on stainless steel skid	4" x 40"	8	2500 L/H	
5110010652	381321	UO 3000 ND	with horizontal membrane housings 4"	4" x 40"	9	3000 L/H	
5110010653	381331	UO 3500 ND		4" x 40"	11	3500 L/H	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
4804000641	370 069	Limitron 1"	for UO 1650 - 3500
5213020692	382 370	Concentrate rinsing KSE1500	for UO 600 - 1500
5213020693	382 372	Concentrate rinsing KSE3500	for UO 2000 - 3500
5213010686	382 369	Permeate recirculation PR1500	for UO 600 - 1500
5213010687	382 900	Permeate recirculation PR2500	for UO 1600 - 2500
5213010688	382 901	Permeate recirculation PR3500	for UO 3000 - 3500
5213040700	382 096	Connector kit (ARA DN 20) for cleaning set MRA	for UO 600 - 1500
5213040701	382 113	Connector kit (ARA DN 25) for cleaning set MRA	for UO 2000 - 3500
		Several storage tanks	see page 102
5213030696	382 026	Cleaning set MRA - Vessel size 100L	for UO 50 - 1500
5213030697	382 095	Cleaning set MRA - Vessel size 200L	for UO 1650 - 3500

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3.
The return will depend on the incoming water and the type of pretreatment

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RO 600L/H - 12000L/H : ND SERIES (RO1000)

- » Skid mounted, complete unit
- » RO 1000 controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 tot 14 bar (depending on type)
- » Voltage: 3 x 380V
- » Analogue flowmeters



Reference	Code	Type	Description	Membranes	#	Flow	€
5110010654	381 440	UO 4300 ND	Free-standing unit RO 1000 controller	8" x 40"	3	4300 L/H	
5110010655	381 450	UO 5400 ND	mounted on stainless steel skid	8" x 40"	4	5400 L/H	
5110010006	381 203	UO 6000 ND	with horizontal membrane housings 8"	8" x 40"	5	6000 L/H	
5110010656	381 460	UO 7000 ND		8" x 40"	5	7000 L/H	
5110010657	381 470	UO 8000 ND		8" x 40"	6	8000 L/H	
5110010658	381 480	UO 9500 ND		8" x 40"	7	9500 L/H	no longer available
5110010105	381 233	UO 10000 ND		8" x 40"	8	10000 L/H	
5110010659	381 490	UO 12000 ND		8" x 40"	9	12000 L/H	

Options

4804000642	370 044	Limitron 1 1/4" For automatic monitoring of the quality of soft water	for UO 3800 - 6000
4804000643	370 070	Limitron 1 1/2"	for UO 7000 - 10000
4804000644	370 063	Limitron 2"	for UO 11000 - 18000
5213020694	382 374	Concentrate rinsing KSE10000	for UO 3800 - 10000
5213020695	382 139	Concentrate rinsing KSE30000	for UO 12000 - 30000
5213010689	382 902	Permeate recirculation PR5400	for UO 3800 - 5400
5213010921	382 903	Permeate recirculation PR6000	for UO 6000
5213010690	382 373	Permeate recirculation PR10000	for UO 7000 - 10000
5213010691	382 092	Permeate recirculation PR17000	for UO 11000 - 17000
5213040702	382 114	Connector kit (ARA DN 32) for cleaning set MRA	for UO 3800 - 5400
5213040703	382 122	Connector kit (ARA DN 40) for cleaning set MRA	for UO 6000 - 9500
5213040704	382 138	Connector kit ARA DN 50/1) for cleaning set MRA	for UO 10000 - 14000
		Several storage tanks	see page 102
5213030698	382 332	Cleaning set MRA - Vessel size 300L	for UO 3800 - 9500
5213030699	382 407	Cleaning set MRA - Vessel size 500L	for UO 10000 - 17000

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment

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RO 600L/H - 12000L/H : UO-D ND SERIES (RO DIGITAL)

- » Skid mounted, complete unit
- » RO Digital controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 tot 14 bar (depending on type)
- » Voltage: 3 x 380V
- » Digital flowmeters
- » 'Profinet' interface (option)



UO-D 1500ND in stainless steel (Option)

Reference	Code	Type	Description	Membranes	#	Flow	€
5110010050	387 001	UO-D 600 ND	Stand-type unit with RO Digital controller	4" x 40"	2	600 L/H	
5110010052	387 004	UO-D 900 ND	mounted on stainless steel skid	4" x 40"	3	900 L/H	
5110010054	387 007	UO-D 1200 ND	with vertical 4" membrane housings	4" x 40"	4	1200 L/H	
5110010056	387 010	UO-D 1500 ND		4" x 40"	5	1550 L/H	
5110010058	387 013	UO-D 2000 ND	Stand-type unit with RO Digital controller	4" x 40"	6	2000 L/H	
5110010060	387 016	UO-D 2500 ND	mounted on stainless steel skid	4" x 40"	8	2500 L/H	
5110010062	387 019	UO-D 3000 ND	with horizontal 4" membrane housings	4" x 40"	9	3000 L/H	
5110010064	387 022	UO-D 3500 ND		4" x 40"	11	3500 L/H	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
4804000641	370 069	Limitron 1"	for UO 1650 - 3500
5213020001	383 204	Concentrate rinsing KSE1500/24	for UO 600 - 1500
5213020003	382 873	Concentrate rinsing KSE3500/24	for UO 2000 - 3500
5213010002	383 205	Permeate recirculation PR1500/24	for UO 600 - 1500
5213010003	383 621	Permeate recirculation PR2500/24	for UO 1600 - 2500
5213010004	383 622	Permeate recirculation PR3500/24	for UO 3000 - 3500
5213040700	382 096	Connector kit (ARA DN 20) for cleaning set MRA	for UO 600 - 1500
5213040701	382 113	Connector kit (ARA DN 25) for cleaning set MRA	for UO 2000 - 3500
		Several storage tanks	see page 102
5213030696	382 026	Cleaning set MRA - Vessel size 100L	for UO 50 - 1500
5213030697	382 095	Cleaning set MRA - Vessel size 200L	for UO 1650 - 3500
5213000054	541 842	PROFINET-Interface	

The UO-D ND/FU are equipped with a frequency converter for the high pressure pump, for energy savings of 30% and higher
(the savings depend on the operating conditions) - Price On demand

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 °C and maximum SDI of 3.
The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO 600L/H - 12000L/H : UO-D ND SERIES (RO DIGITAL)

- » Skid mounted, complete unit
- » RO Digital controller
- » Return: up to 75%
- » Salt rejection percentage: 97%
- » Working pressure: 10 tot 14 bar (depending on type)
- » Voltage: 3 x 380V
- » Digital flowmeters
- » 'Profinet' interface (option)



UO-D 4300 ND/FU With Limitron (Option)

Reference	Code	Type	Description	Membranes	#	Flow	€
5110010066	387 025	UO-D 4300 ND	Stand-type unit with RO Digital controller	8" x 40"	3	4300 L/H	
5110010068	387 028	UO-D 5400 ND	mounted on stainless steel skid	8" x 40"	4	5400 L/H	
5110010070	387 031	UO-D 6000 ND	with horizontal 8" membrane housings	8" x 40"	5	6000 L/H	
5110010072	387 034	UO-D 7000 ND		8" x 40"	5	7000 L/H	
5110010074	387 037	UO-D 8000 ND		8" x 40"	6	8000 L/H	
5110010076	387 040	UO-D 9500 ND		8" x 40"	7	9500 L/H	
5110010078	387 043	UO-D 10000 ND		8" x 40"	8	10000 L/H	
5110010080	387 046	UO-D 12000 ND		8" x 40"	9	12000 L/H	

Options

4804000642	370 044	Limitron 1 1/4" For automatic monitoring of the quality of soft water	for UO 3800 - 6000
4804000643	370 070	Limitron 1 1/2"	for UO 7000 - 10000
4804000644	370 063	Limitron 2"	for UO 11000 - 18000
5213020004	382 878	Concentrate rinsing KSE10000/24	for UO 3800 - 10000
5213020005	382 905	Concentrate rinsing KSE30000/24	for UO 12000 - 30000
5213010005	382 957	Permeate recirculation PR5400/24	for UO 3800 - 5400
5213010006	383 623	Permeate recirculation PR6000/24	for UO 6000
5213010007	382 881	Permeate recirculation PR10000/24	for UO 7000 - 10000
5213010008	382 908	Permeate recirculation PR17000/24	for UO 11000 - 17000
5213040702	382 114	Connector kit (ARA DN 32) for cleaning set MRA	for UO 3800 - 5400
5213040703	382 122	Connector kit (ARA DN 40) for cleaning set MRA	for UO 6000 - 9500
5213040704	382 138	Connector kit (ARA DN 50/1) for cleaning set MRA	for UO 10000 - 14000
		Several storage tanks	see page 102
5213030698	382 332	Cleaning set MRA - Vessel size 300L	for UO 3800 - 9500
5213030699	382 407	Cleaning set MRA - Vessel size 500L	for UO 10000 - 17000
5213000054	541 842	PROFINET-Interface	

De UO-D ND/FU are equipped with a frequency converter for the high pressure pump, for energy savings of 30% and higher
(the savings depend on the operating conditions) - Price On demand

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3.
The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO WITH HIGH EFFICIENCY (90%) : KR SERIES (RO 5000)

- » Complete unit skid mounted
- » RO 5000 controller
- » Efficiency from 85% up to 90%
- » Min. salt rejection: 98,5%
- » Working pressure: 15 - 18,5 bar (depending on type)
- » Inlet pressure: 2 - 4 bar
- » Voltage: 3 x 380V
- » Analogue flowmeters
- » incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set



Reference	Code	Type	Description	Membranes	#	Flow	€
5110010880	381 820	UO 3000 KR	Free-standing unit for the desalination of softened water	4" x 40"	12	3000 L/H	
5110010881	381 830	UO 3500 KR		4" x 40"	14	3500 L/H	
5110010882	381 840	UO 4000 KR	on stainless steel skid with 5000 controller	4" x 40" 8" x 40"	4 3	4000 L/H	
5110010883	381 850	UO 5000 KR		4" x 40"	4	5000 L/H	
				8" x 40"	4		
5110010884	381 860	UO 6000 KR		4" x 40"	5	6000 L/H	
			incl. concentrate rinsing and connector kit for manual cleaning set	8" x 40"	5		
5110010885	381 870	UO 7000 KR		4" x 40"	6	7000 L/H	
				8" x 40"	6		
5110010886	381 880	UO 8500 KR		4" x 40"	7	8500 L/H	
				8" x 40"	7		
5110010887	381 890	UO 10000 KR		4" x 40"	9	10000 L/H	
				8" x 40"	9		

Options

4804000641	370 069	Limitron 1" For automatic monitoring of the quality of soft water	for UO 1650 - 3500
4804000642	370 044	Limitron 1 1/4"	for UO 3800 - 6000
4804000643	370 070	Limitron 1 1/2"	for UO 7000 - 10000
5213010688	382 901	Permeate recirculation PR3500	for UO 3000 - 3500
5213010689	382 902	Permeate recirculation PR5400	for UO 3800 - 5400
5213010921	382 903	Permeate recirculation PR6000	for UO 6000
5213010690	382 373	Permeate recirculation PR10000	for UO 7000 - 10000
		Several storage tanks	see page 102
5213030697	382 095	Cleaning set MRA - Vessel size 200L	
5213030698	382 332	Cleaning set MRA - Vessel size 300L	for UO 3800 - 9500

Advantages of the KR series:

- » Water saving system through additional concentrate stage: permeate yield up to 90%
- » High salt rejection rate: 98,5%
- » Very low energy consumption KR/FU: -30%
- » ROI/ payback period: < 1 year through cost savings in water, wastewater and energy

De UO-D ND/FU are equipped with a frequency converter for the high pressure pump, for energy savings of 30% and higher (the savings depend on the operating conditions) - Price On demand

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 °C and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO WITH PERMEAT STAGED (DOUBLE PASS) : ND-P SERIES (RO 5000)

- » Complete unit skid mounted
- » RO 5000 controller
- » Efficiency van 70% tot 71%
- » Min. salt rejection 99,5%
- » Working pressure: 14 bar
- » Voltage: 1 x 230V (220-400) / 3 x 380V (6000-2000)
- » Analogue flowmeters
- » 2nd permeate stage for high permeate quality
- » 2 high pressure pumps



UO300ND/P

Reference	Code	Type	Description	Mem-branes	#	Flow	€
5110010026	385 884	UO 220 ND/P	Free-standing unit for softened water	4" x 40"	2	220 l/h	
5110010027	385 655	UO 300 ND/P	demineralisation	4" x 40"	3	300 l/h	
5110010028	385 622	UO 400 ND/P	on stainless steel skid	4" x 40"	4	400 l/h	
5110010029	381 107	UO 600 ND/P	with a second high pressure pump	4" x 40"	5	600 l/h	
5110010030	385 851	UO 800 ND/P	for the 2nd permeate stage	4" x 40"	6	800 l/h	
5110010031	385 692	UO 1000 ND/P	for high permeate quality	4" x 40"	7	1000 l/h	
5110010111	381 139	UO 1500 ND/P	with 5000 controller	4" x 40"	11	1500 l/h	
5110010032	385 792	UO 2000 ND/P	and 4" membrane housings	4" x 40"	14	2000 l/h	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
4804000641	370 069	Limitron 1"	for UO 1650 - 3500
5213020692	382 370	Concentrate rinsing KSE1500	for UO 600 - 1500
5213020693	382 372	Concentrate rinsing KSE3500	for UO 2000 - 3500
5213010920	382 305	Permeate recirculation PR500	for UO 50 - 500
5213010686	382 369	Permeate recirculation PR1500	for UO 600 - 1500
5213010687	382 900	Permeate recirculation PR2500	for UO 1600 - 2500
5213040700	382 096	Connector kit (ARA DN 20) for cleaning set MRA	for UO 600 - 1500
5213040701	382 113	Connector kit (ARA DN 25) for cleaning set MRA	for UO 2000 - 3500
		Several storage tanks	see page 102
5213030696	382 026	Cleaning set MRA - Vessel size 100L	for UO 50 - 1500
5213030697	382 095	Cleaning set MRA - Vessel size 200L	for UO 1650 - 3500

Advantages of the ND/P series:

- » 2nd permeate stage for treating the permeate of the first stage once again
- » Salt rejection > 99%
- » Conductivity < 5µS/cm
- » RO 5000 controller with graphical display

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 °C and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

ULTRA-PURE (RO+EDI) : UP SERIES (RO 1000)

- » Complete unit skid mounted
- » For the production of ultrapure water
- » Reverse osmosis combined with electro-deionization
- » RO 1000 controller
- » Efficiency: 70%
- » Resistance of UP water (with free CO₂): 5MΩxcm
- » Resistance of UP water (without free CO₂): > 10 MΩxcm
- » Working pressure: 12-18 bar (depending on type)
- » Voltage: 1 x 230V (150-250) / 3 x 380V (550-20000)
- » Analogue flowmeters



Reference	Code	Type	Description	Membranes	#	Flow	€
5110030670	425 082	UP 150	Free-standing RO unit (with vertical 4"	4" x 40"	1	150 L/H	
5110030671	425 092	UP 250	membrane housings) combined with	4" x 40"	1	250 L/H	
5110030672	425 002	UP 550	electro-deionization, for the production of	4" x 40"	2	550 L/H	
5110030673	425 012	UP 800	ultrapure water	4" x 40"	3	800 L/H	
5110030674	425 022	UP 1100		4" x 40"	4	1100 L/H	
5110030675	425 032	UP 1350		4" x 40"	5	1350 L/H	
5110030676	425 042	UP 1500	ditto but with horizontal 4" membrane housings	4" x 40"	6	1500 L/H	
5110030677	425 062	UP 1700		4" x 40"	6	1700 L/H	
5110030678	425 052	UP 2200		4" x 40"	8	2200 L/H	
5110030679	425 075	UP 3000		4" x 40"	11	3000 L/H	
5110030001	425 076	UP 4100	ditto but with horizontal 8" membrane housings	8" x 40"	4	4100 L/H	
5110030002	425 077	UP 6000		8" x 40"	5	6000 L/H	
5110030003	425 078	UP 8200		8" x 40"	7	8200 L/H	
5110030004	425 079	UP 11000		8" x 40"	9	11000 L/H	
5110030005	425 080	UP 20000		8" x 40"	17	20000 L/H	

Options

		Membrane degassing, dosing station, concentrate flushing unit (KSE)	On demand
0601090001	430 264	PE Vessel With inlet and overflow RET 1100 S	
0601090002	430 265	PE Vessel With inlet and overflow RET 1500 S	
0601090003	430 266	PE Vessel With inlet and overflow RET 2000 S	
0601090009	430 395	PE Vessel With inlet and overflow RET 2500 S	
0601090004	430 268	PE Vessel With inlet and overflow RET 3000 S	
0601090005	430 269	PE Vessel With inlet and overflow RET 4000 S	
5213000091	630 208	Visual indicator - Safety brine valve With cable and indicator, 0-200 cm	
5213040020	435 128	2 PVC baal valves for withdrawal and drain for RET	
4804000006	382 419	Water seal WS-50	
5213000029	435 066	CO ₂ Absorption filter CAF1	max. 1,5m ³ /h air
5213008975	435 057	CO ₂ Absorption filter CAF5	max. 5,0m ³ /h air
5213000092	435 191	CO ₂ Absorption filter CAF15	max. 15,0m ³ /h air
5213008976	300 001	Air vent filter BF 02 S	MicroMeter Flow 0,02 µm, max. 6 m ³ air/h
1700010004	300 020	Air vent filter BF 03	MicroMeter Flow 0,3 µm, max. 3 m ³ air/h
5213000093	300 113	Air vent filter BF 30 S	MicroMeter Flow 0,02 µm, max. 30 m ³ air/h
5213040061	435 207	3 float switches- MAX/MIN/TLS	

The EDI units are designed for soft (< 0,2 °F) and for hard water with a maximum TDS level of 1000 mg/l, water temperature of 15°C, a maximum SDI of 3, CO₂ level < 10 mg/l and SiO₂ < 20mg/l

CHAPTER 1 REVERSE OSMOSIS

1. FEED WATER : SOFTENED TAP WATER (WITHOUT CHLORINE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

ULTRA-PURE (EDI) : EP SERIES

- » Complete unit skid mounted
- » For de demineralisation of the permeat
- » uses the electro-deionization technology
- » Efficiency: 90%
- » Resistance of UP water (With Free CO₂): 5MΩxcm
- » Resistance of UP water (without Free CO₂): > 10 MΩxcm
- » Working pressure: 1 - 2,5 bar (depending on type)
- » Voltage: 1 x 230 (150) / 3 x 380 V (300-2200)
- » Analogue flowmeters

Reference	Code	Type	Description	Flow	€
5110030006	425 161	EP 150	Free-standing unit mounted on stainless steel skid, for de demineralisation of OI	50 - 150 L/H	
5110030666	425 101	EP 300	for de demineralisation of OI	100 - 300 L/H	
5110030667	425 121	EP 900	permeate using electro-deionization	400 - 900 L/H	
5110030668	425 141	EP 1500		1000 - 1500 L/H	
5110030669	425 151	EP 2200		1600 - 2200 L/H	

Options

Membrane degassing, dosing station, concentrate flushing unit(KSE)

On demand



EP 1500

The EPI units are designed for feed water with a conductivity of 4 - 20 µS/cm, CO₂ level < 10mg/l and SiO₂ level < 0,5 mg/l and a SDI of max 2,5
The Feed water must be softened(< 0,2°F) and pretreated with a OI unit

CHAPTER 1 REVERSE OSMOSIS

2. FEED WATER: TAP WATER (WITHOUT CHLORINE, ANTI-SCALANT DOSAGE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO WITH ANTI-SCALANT DOSAGE : AS SERIES (RO 1000)

- » Complete unit skid mounted
- » RO 1000 controller
- » Efficiency: 75%
- » Min. salt rejection: 97%
- » Working pressure: 11,5 - 13 bar (depending on type)
- » Voltage: 3 x 380V
- » Analogue flowmeters
- » Incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set
- » Prepared for a dosing station with antiscalant
- » Option: dosing tank and dosing pump

Reference	Code	Type	Description	Membranes	#	Flow	€
5110050888	381 500	UO 1650 AS	Stand-type unit with RO1000 controller	4" x 40"	6	1650 L/H	
5110050889	381 510	UO 2200 AS	With 4"membrane housings	4" x 40"	8	2200 L/H	
5110050890	381 520	UO 2500 AS	on stainless steel skid	4" x 40"	9	2500 L/H	
5110050891	381 530	UO 3100 AS		4" x 40"	12	3100 L/H	

Options

5213010687	382 900	Permeate recirculation PR2500	for UO 1600 - 2500
5213010688	382 901	Permeate recirculation PR3500	for UO 3000 - 3500
5213030697	382 095	Cleaning set MRA - Vessel size 200L	for UO 1650 - 3500
Several storage tanks			see page 102
Dosing stations			see page 102



UO 1650 AS

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

2. FEED WATER: TAP WATER (WITHOUT CHLORINE, ANTI-SCALANT DOSAGE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
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RO WITH ANTI-SCALANT DOSAGE : AS SERIES (RO 1000)

- » Complete unit skid mounted
- » RO 1000 controller
- » Efficiency: 75%
- » Min. salt rejection: 97%
- » Working pressure: 11,5 - 13 bar (depending on type)
- » Voltage: 3 x 380V
- » Analogue flowmeters
- » Incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set
- » Prepared for a dosing station with antiscalant
- » Option: dosing tank and dosing pump



Reference	Code	Type	Description	Membranes	#	Flow	€
5110050892	381 540	UO 3800 AS	Stand-type unit with RO1000 controller	8" x 40"	3	3800 L/H	
5110050893	381 550	UO 5000 AS	with 8" membrane housings	8" x 40"	4	5000 L/H	
5110050894	381 560	UO 6000 AS	on stainless steel skid	8" x 40"	5	6000 L/H	
5110050895	381 570	UO 7000 AS		8" x 40"	6	7000 L/H	
5110050896	381 580	UO 8000 AS		8" x 40"	7	8000 L/H	
5110050897	381 590	UO 10000 AS		8" x 40"	9	10000 L/H	
5110050898	381 600	UO 12000 AS		8" x 40"	10	12000 L/H	
5110050899	381 610	UO 15000 AS		8" x 40"	12	15000 L/H	
5110050900	381 620	UO 18000 AS		8" x 40"	15	18000 L/H	
5110050901	381 630	UO 20000 AS		8" x 40"	17	20000 L/H	
5110050902	381 640	UO 25000 AS		8" x 40"	20	25000 L/H	
5110050903	381 650	UO 30000 AS		8" x 40"	25	30000 L/H	

Options

5213010689	382 902	Permeate recirculation PR5400	for UO 3800 - 5400
5213010921	382 903	Permeate recirculation PR6000	for UO 6000
5213010690	382 373	Permeate recirculation PR10000	for UO 7000 - 10000
5213010691	382 092	Permeate recirculation PR17000	for UO 11000 - 17000
5213010922	382 093	Permeate recirculation PR25000	for UO 18000 - 25000
5213030698	382 332	Cleaning set MRA - Vessel size 300L	for UO 3800 - 9500
5213030699	382 407	Cleaning set MRA - Vessel size 500L	for UO 10000 - 17000
5213030927	382 809	Cleaning set MRA - Tank de 1000L	for UO 18000 - 30000
		Several storage tanks	see page 102
		Dosing stations	see page 102

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 °C and maximum SDI of 3. The return will depend on the incoming water and the type of pretreatment.

CHAPTER 1 REVERSE OSMOSIS

2. FEED WATER: TAP WATER (WITHOUT CHLORINE, ANTI-SCALANT DOSAGE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO WITH ANTI-SCALANT DOSAGE : UO-D AS SERIES (RO DIGITAL)

- » Complete unit skid mounted
- » RO Digital controller
- » Efficiency 75%
- » Min. salt rejection: 97%
- » Working pressure: 11,5 - 13 bar (depending on type)
- » Voltage : 3 x 380V
- » Digital flowmeters
- » 'Profinet' interface (option)
- » Incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set
- » Prepared for a dosing station with antiscalant
- » Option: dosing tank and dosing pump

Reference	Code	Type	Description	Membranes	#	Flow	€
5110050013	387 049	UO-D 1650 AS	Stand-type unit with RO Digital controller and	4" x 40"	6	1650 L/H	
5110050017	387 052	UO-D 2200 AS	4" membrane housings	4" x 40"	8	2200 L/H	
5110050021	387 055	UO-D 2500 AS	on stainless steel skid	4" x 40"	9	2500 L/H	
5110050023	387 058	UO-D 3100 AS		4" x 40"	12	3100 L/H	
Options							
5213010003	383 621	Permeate recirculation PR2500/24		for UO 1600 - 2500			
5213010004	383 622	Permeate recirculation PR3500/24		for UO 3000 - 3500			
5213030697	382 095	Cleaning set MRA - Vessel size 200L		for UO 1650 - 3500			
		Several storage tanks				see page 102	
		Dosing stations				see page 102	
5213000054	541 842	PROFINET-Interface					



UO-D 3100 AS

The UO-D AS/FU are equipped with a frequency converter for the high pressure pump, for energy savings of 30% and higher
(the savings depend on the operating conditions) - Price On demand

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3.
The return will depend on the incoming water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

2. FEED WATER: TAP WATER (WITHOUT CHLORINE, ANTI-SCALANT DOSAGE)

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO WITH ANTI-SCALANT DOSAGE : UO-D AS SERIES (RO DIGITAL)

- » Complete unit skid mounted
- » RO Digital controller
- » Efficiency 75%
- » Min. salt rejection: 97%
- » Working pressure: 11,5 - 13 bar (depending on type)
- » Voltage : 3 x 380V
- » Digital flowmeters
- » 'Profinet' interface (option)
- » Incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set
- » Prepared for a dosing station with antiscalant
- » Option: dosing tank and dosing pump

Reference	Code	Type	Description	Membranes	#	Flow	€
5110050025	387 061	UO-D 3800 AS	Stand-type unit with RO Digital controller	8" x 40"	3	3800 L/H	
5110050027	387 064	UO-D 5000 AS	and 8" membrane housings	8" x 40"	4	5000 L/H	
5110050029	387 067	UO-D 6000 AS	on stainless steel skid	8" x 40"	5	6000 L/H	
5110050031	387 070	UO-D 7000 AS		8" x 40"	6	7000 L/H	
5110050033	387 073	UO-D 8000 AS		8" x 40"	7	8000 L/H	
5110050035	387 076	UO-D 10000 AS		8" x 40"	9	10000 L/H	
5110050037	387 079	UO-D 12000 AS		8" x 40"	10	12000 L/H	
5110050039	387 082	UO-D 15000 AS		8" x 40"	12	15000 L/H	
5110050041	387 085	UO-D 18000 AS		8" x 40"	15	18000 L/H	
5110050043	387 088	UO-D 20000 AS		8" x 40"	17	20000 L/H	
5110050045	387 091	UO-D 25000 AS		8" x 40"	20	25000 L/H	
5110050047	387 094	UO-D 30000 AS		8" x 40"	25	30000 L/H	

Options

5213010005	382 957	Permeate recirculation PR5400/24	for UO 3800 - 5400
5213010006	383 623	Permeate recirculation PR6000/24	for UO 6000
5213010007	382 881	Permeate recirculation PR10000/24	for UO 7000 - 10000
5213010008	382 908	Permeate recirculation PR17000/24	for UO 11000 - 17000
5213010009	382 904	Permeate recirculation PR25000/24	for UO 18000 - 25000
5213030698	382 332	Cleaning set MRA - Vessel size 300L	for UO 3800 - 9500
5213030699	382 407	Cleaning set MRA - Vessel size 500L	for UO 10000 - 17000
5213030927	382 809	Cleaning set MRA - Tank de 1000L	for UO 18000 - 30000
		Several storage tanks	see page 102
		Dosing stations	see page 102
5213000054	541 842	PROFINET-Interface	

De UO-D AS/FU are equipped with a frequency converter for the high pressure pump, for energy savings of 30% and higher
(the savings depend on the operating conditions) - Price On demand

The RO devices are designed for a maximum TDS content of 1000 mg/l, water temperature of 15 ° c and maximum SDI of 3.
The return will depend on the incoming water and the type of pretreatment

OPTIONS FOR RO UNITS FOR TAP WATER

Reference	Code	Type	Description	€
Hardness 'monitoring'				
4804000635	370 037	limitent 3/4"	For RO - 5000 l/h	
4804000636	370 067	limitent 1"	For RO 5000 l/h - 20000 l/h	
4804000637	370 043	limitent 1 1/4"	For RO 20000 - 30000 l/h	
4804000638	370 068	limitent 1 1/2"		
4804000639	370 055	limitent 2"		
4804000640	370 038	limitron 3/4"	UO 100 - 1500	
4804000641	370 069	limitron 1"	UO 1650 - 3500	
4804000642	370 044	limitron 1 1/4"	UO 3800 - 6000	
4804000643	370 070	limitron 1 1/2"	UO 7000 - 10000	
4804000644	370 063	limitron 2"	UO 11000 - 18000	
4804000645	370 031	spare sensor	Replacement sensor for limitent et limitron	



The Limitron can not be integrated in RO units type W/S

Cleaning Set (for RO's type RS(E), ND, KR, AS et BW)

5213030696	382 026	MRA 100	Vessel size 100 l for RO 50 - 1500
5213030697	382 095	MRA 200	Vessel size 200 l for RO 1650 - 3500
5213030698	382 332	MRA 300	Vessel size 300 l for RO 3800 - 9500
5213030699	382 407	MRA 500	Vessel size 500 l for RO 10000 - 17000
5213030927	382 809	MRA 1000	Vessel size 1000 l for RO 18000 - 30000 (without les tuyaux)



consists of a tank, stainless steel pump, ball valves for mixing, emptying and removal of water, connecting hoses for ARA systems (except MRA1000)

Dosing stations

Dosage With Chemical products for RO type ND, AS, ES, KR, UP

5213000094	450 302	DOSIN UO-DB75	Dosing pump (Flow 2,5L/h) With dosing control for dosage directly from the 75kg drum	4/6mm
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Anti-scalant Dosage for RO type AS en ES

5213000046	450 301	DOSIN AS-K	Dosing pump (Flow 2,5L/h) With dosing control for dosage directly from the 25kg drum	4/6 mm
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Storage tank for RO installation

0601016584	DS/MZC750SPW	Storage tank 750 L Connection 1"	730/730/1640
0601014895	DS/MZC1100SPW	Storage tank 1100 L Connection 1"	780/780/1960
0601015054	DS/MZ2000SPW	Storage tank 2000 L Connection 1"	2130/720/1660
Other storage tanks available On demand			

Safety brine valves

5209001130	Float switch - length 3m
5209001691	Float switch - length 10m

Drukverhoging

2101032706	Grundfoss JP5 - Type presscontrol in stainless steel 4000 L / H
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Fouling Index Measurement Device

5213021530	382 284	VIM	incl. pressure reducing valve and 0.45 µm Filter
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CHAPTER 1 REVERSE OSMOSIS

3. FEED WATER : BRACKISH WATER

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO FOR BRACKISH WATER: BW SERIES (RO 1000)

- » Complete unit skid mounted
- » RO 1000 controller
- » Efficiency: 50%
- » Min. salt rejection: 97%
- » Working pressure: 15 bar
- » Voltage : 3 x 380V
- » Analogue flowmeters
- » Incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set
- » Prepared for a dosing station with antiscalant
- » Option: dosing tank and dosing pump
- » Versie With frequency converter (energy saving) on demand
- » Option: flushing With Permeat



Reference	Code	Type	Description	Membranes	#	Flow	€
5110060001	384 500	UO 250 BW	With RO 1000 controller	4" x 40"	1	250 l/h	
5110060002	384 510	UO 500 BW	incl. concentrate rinsing	4" x 40"	2	500 l/h	
5110060003	384 520	UO 750 BW	Incl. connector kit for manual cleaning set	4" x 40"	3	750 l/h	
5110060004	384 530	UO 1000 BW	prepared for a dosing station With antiscalant	4" x 40"	4	1000 l/h	
5110060005	384 540	UO 1250 BW	With Verticaale 4" membrane housings	4" x 40"	5	1250 l/h	
5110060006	384 550	UO 1500 BW	ditto but With horizontal 4" membrane housings	4" x 40"	6	1500 l/h	
5110060007	384 560	UO 2000 BW		4" x 40"	8	2000 l/h	
5110060008	384 570	UO 2500 BW		4" x 40"	10	2500 l/h	
5110060009	384 580	UO 3000 BW		4" x 40"	12	3000 l/h	

Options

4804000640	370 038	Limitron 3/4" For automatic monitoring of the quality of soft water	for UO 100 - 1500
4804000641	370 069	Limitron 1"	for UO 1650 - 3500
5213010920	382 305	Permeate recirculation PR500	for UO 50 - 500
5213010686	382 369	Permeate recirculation PR1500	for UO 600 - 1500
5213010687	382 900	Permeate recirculation PR2500	for UO 1600 - 2500
5213010688	382 901	Permeate recirculation PR3500	for UO 3000 - 3500
5213000009	384 700	Concentrate rinsing (With Permeat) 100 l tank (KVP 100)	for UO 250 - 1250
5213000010	384 701	Concentrate rinsing (With Permeat) 200 l tank (KVP 200)	for UO 1500 - 3000
		Frequency converters	on demand
		Several storage tanks	see page 102

Using high quality materials, brackish water RO systems are designed to be long-term compatible with the high salt content of the water, particularly on the concentrate side

BW systems are also available with frequency converter (BW/FU) for energy savings up to 30% - Price On demand

The RO units are designed for a maximum TDS level of 45.000mg/l, water temperature of 25°C and a maximum SDI of 3. The efficiency depends on the feed water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

3. FEED WATER : BRACKISH WATER

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO FOR BRACKISH WATER: BW SERIES (RO 1000)

- » Complete unit skid mounted
- » RO 1000 controller
- » Efficiency: 50%
- » Min. salt rejection: 97%
- » Working pressure: 15 bar
- » Voltage : 3 x 380V
- » Analogue flowmeters
- » Incl. concentrate rinsing
- » Incl. connector kit for manual cleaning set
- » Prepared for a dosing station with antiscalant
- » Option: dosing tank and dosing pump
- » Versie With frequency converter (energy saving) on demand
- » Option: flushing With Permeat

Reference	Code	Type	Description	Mem-branes	#	Flow	€
5110060010	384 590	UO 3500 BW	ditto but with horizontal 8" membrane housings	8" x 40"	3	3500 l/h	
5110060011	384 600	UO 4500 BW		8" x 40"	4	4500 l/h	
5110060012	384 610	UO 5500 BW		8" x 40"	5	5500 l/h	
5110060013	384 620	UO 6500 BW		8" x 40"	6	6500 l/h	
5110060014	384 630	UO 8500 BW		8" x 40"	8	8500 l/h	
5110060015	384 640	UO 10000 BW		8" x 40"	9	10000 l/h	
5110060016	384 650	UO 11500 BW		8" x 40"	11	11500 l/h	
5110060017	384 660	UO 13500 BW		8" x 40"	12	13500 l/h	
5110060018	384 670	UO 17500 BW		8" x 40"	16	17500 l/h	
5110060019	384 680	UO 22000 BW		8" x 40"	20	22000 l/h	
5110060020	384 690	UO 27500 BW		8" x 40"	25	27500 l/h	

Options

4804000641	370 069	Limitron 1" For automatic monitoring of the quality of soft water	for UO 1650 - 3500
4804000642	370 044	Limitron 1 1/4"	for UO 3800 - 6000
4804000643	370 070	Limitron 1 1/2"	for UO 7000 - 10000
4804000644	370 063	Limitron 2"	for UO 11000 - 18000
5213010688	382 901	Permeate recirculation PR3500	for UO 3000 - 3500
5213010689	382 902	Permeate recirculation PR5400	for UO 3800 - 5400
5213010921	382 903	Permeate recirculation PR6000	for UO 6000
5213010690	382 373	Permeate recirculation PR10000	for UO 7000 - 10000
5213010691	382 092	Permeate recirculation PR17000	for UO 11000 - 17000
5213010922	382 093	Permeate recirculation PR25000	for UO 18000 - 25000
5213000011	384 702	Concentrate rinsing (With Permeat) Vessel size 300 l (KVP 300)	for UO 3500 - 8500
5213000012	384 703	Concentrate rinsing (With Permeat) Vessel size 500 l (KVP 500)	for UO 10000 - 13500
5213000013	384 704	Concentrate rinsing (With Permeat) Vessel size 1000 l (KVP 10000)	for UO 17500 - 27500
		Frequency converters	
		Several storage tanks	see page 102

The RO units are designed for a maximum TDS level of 45.000 mg/l, water temperature of 25°C and a maximum SDI of 3.
The efficiency depends on the feed water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

4. FEED WATER : SEA WATER

All prices are ex-works Freiberg (Germany). If delivery to Micron, or directly to the site, the transport cost will be invoiced.
Please contact us before making your offer

RO FOR SEA WATER: SW SERIES

- » Complete unit skid mounted
- » RO 1000 controller
- » Efficiency: 28-33% (depending on type)
- » Min. salt rejection: 98,5%
- » Working pressure: 65 bar
- » Voltage: 3x380V
- » Analogue flowmeters
- » Version with frequency converter (energy saving): On demand
- » Option: flushing With Permeat

Reference	Code	Type	Description	Membranes	#	Flow	€
5110020660	384 001	UO 650 SW	Standard units for the desalination of sea water	8" x 40"	1	650 l/h	
5110020661	384 011	UO 850 SW		8" x 40"	2	850 l/h	
5110020662	384 021	UO 2500 SW	45.000 ppm TDS at 25 °C	8" x 40"	4	2500 l/h	
5110020663	384 031	UO 5000 SW		8" x 40"	8	5000 l/h	
5110020664	384 041	UO 10000 SW		8" x 40"	16	10000 l/h	
5110020665	384 051	UO 20000 SW		8" x 40"	32	20000 l/h	



The RO units are designed for a maximum TDS level of 45.000mg/l, water temperature of 25°C and maximum SDI van 3.
The efficiency depends on the feed water and the type of pretreatment

CHAPTER 1 REVERSE OSMOSIS

5. MB INSTALLATIONS

Reference	Code	Type	Description	Flow	€
MB installation With replacement cartridge					
	1600010633	010 001	destillo D 2 kpl	Consists of : filter cartridge (disposable), entrance/exit, immediately connectable on water tap (2L)	50 l/h
PALLAS MB installation					
5001996410		Pallas démi 10L	Manual valve With Vessel and		
5001992921		Pallas démi 25L	mixbed Resin		
5001992196		Pallas démi 50L			
5001990720		Pallas démi 75L			
5001990722		Pallas démi 100L			
MB installation With RVS Vessel					
	1600011009	020 001	destillo D 12 dE kpl	MB installation with mixbed Resin	300 l/h
	1600011010	020 054	destillo D 17 dE kpl	in RVS Vessels, working pressure 6 bar,	300 l/h
	1600011011	020 056	destillo D 22 dE kpl	conductivity meter LWM 330 dE,	950 l/h
	1600011012	020 058	destillo D 26 dE kpl	Hoses for connection, Spanner for disassembling	1000 l/h
	1600011013	020 060	destillo D 46 dE kpl		1200 l/h
	1600011014	020 007	destillo D 100 dE kpl	(Litrages 12L, 17L, 22L, 26L, 46L, 100L)	2500 l/h
Filtercartridge					
	1700010634	010 002	destillo D 2 EP	replacement cartridge for destillo D 2	
	1700011015	020 002	destillo D 12 dE	replacement vessel with resin for destillo	
	1700011016	020 055	destillo D 17 dE	D 12 dE kpl - D 100 dE kpl	
	1700011017	020 057	destillo D 22 dE	(Litrages 2L, 12L, 17L, 22L, 26L, 46L, 100L)	
	1700011018	020 059	destillo D 26 dE		
	1700011019	020 061	destillo D 46 dE		
	1700011020	020 008	destillo D 100 dE		
Conductivity meter, analogue uitlezing					
	4804021027	070 009	LWM 336 dE	Conductivity meter with limit value contact, voltage-free change over contact	

Standard capacity of a demi unit with mixbed Resin per liter
resin: 100L water with a conductivity of 300µS/cm

CHAPTER 1 REVERSE OSMOSIS

5. MB INSTALLATIONS

Reference	Code	Type	Description	€
Digitale conductivity meter				
4804021028	090 032	LWM 358-S	For integration in control cabinet	0,1 - 10 µS/cm
4804020005	090 042	LWM 358-S	with temperature compensation,	1 - 100 µS/cm
4804021029	090 033	LWM 358-S	two digitale inputs,	0,2 - 20 µS/cm
4804020006	090 043	LWM 358-S	three voltage free switch outputs,	2 - 200 µS/cm
4804021030	090 034	LWM 358-S	analogue output 4-20 mA	20 - 2000 µS/cm
4804021031	090 035	LWM 358-S		0,1 - 10 mS/cm
4804021032	090 036	LWM 358-W	Wall model	0,1 - 10 µS/cm
4804020007	090 046	LWM 358-W	with temperature compensation,	1 - 100 µS/cm
4804021033	090 037	LWM 358-W	two digitale inputs,	0,2 - 20 µS/cm
4804020008	090 047	LWM 358-W	three voltage free switch outputs,	2 - 200 µS/cm
4804021034	090 038	LWM 358-W	analogue output 4-20 mA	20 - 2000 µS/cm
4804021035	090 039	LWM 358-W		0,1 - 10 mS/cm
4804030002	100 047	sonde EMZ 1 1/2"	with 6m cable for 0,1-10 µS/cm / 1-100µS/cm	1 1/2"
4804021036	100 020	sonde EMZ 1 1/2"	with 6m cable for 0,2-20 µS/cm / 2-200 µS/cm	1 1/2"
4804021038	100 059	sonde EMZ 1 1/2"	with 6m cable for 2-2000µS/cm	1 1/2"
4804021039	100 060	sonde EMZ 1 1/2"	with 6m cable for 0,1-10 µS/cm	1 1/2"
4804021040	100 019	Housing for EMZ 1 1/2"		3/4", 1 1/2"

The Pollet Water Group has its own regeneration-unit for MB-Resin. So there is a possibility to regenerate MB Resin.
For more information, please contact our technical department: tech@micron.be



CHAPTER 1 REVERSE OSMOSIS

6. COOLING SYSTEMS

Reference	Code	Type	Description	Conductivity-range	€
Bleed off unit Cooltrol					
			K = conductivity probe, I = inductive probe, MKV = motor ball valve MV = solenoid valve		
2309050001	170 121	Cooltrol-K (MKV 15)	For cycles of concentration limit and	10 - 500mS/m	
5309050002	170 120	Cooltrol-I (MKV 15)	dosing control in open cooling systems and scrubbers	10 - 300 mS/m	
<ul style="list-style-type: none"> » For the controlled limitation of concentration/thickening of salt content in open cooling systems, humidifiers, and as control unit for up to 3 metering pumps » Enables connection for conductive (LFK) and inductive (LFI) probes » Automatic interlock for biocide dosing » Temperature compensated conductivity measurement » User-friendly design » Context sensitive assignment of function keys » Startup wizard » Graphic display with multi-language menu 					
					
				COOLTROL-K	COOLTROL-I

Bypass Bleed off unit Cooltrol-BP

2309050003	170 125	Cooltrol-K BP K=1,0	For cycles of concentration limit	10 - 500mS/m
2309050004	170 126	Cooltrol-K BP K=0,1	and dosing control in open	1 - 50mS/m
2309050005	170 124	Cooltrol-I BP	cooling systems and scrubbers	10 - 300 mS/m
2909040975	175 041	WSG	Protective plastic casing, heated	



Bleed off unit type “Bleed Off” LF-CC (conductive measurement)

2309010948	170 074	LF-CC (MV 15) K = 1,0	For cycles of concentration limit	10-500 mS/m
2309010949	170 075	LF-CC (MV 15) K = 0,1	and dosing control in open	1-50 mS/m
2309010950	170 076	LF-CC (MKV 15) K = 1,0	Mounted on a board together with the blowdown valve	10-500 mS/m
2309010951	170 077	LF-CC (MKV 15) K = 0,1	Conductive conductivity measurement	1-50 mS/m

Bleed off unit type “Bleed Off” LF-CC-I (inductive measurement)

2309020952	170 101	LF-CC-I (MV 15)	For cycles of concentration limit	10 - 300 mS/m
2309020953	170 102	LF-CC-I (MKV 15)	in open cooling systems and scrubbers	10 - 300 mS/m

CHAPTER 1 REVERSE OSMOSIS

6. COOLING SYSTEMS

Reference	Code	Type	Description	Conductivity-range	€
Components for Bleed off uniten "Bleed Off"					
2909040962	175 043	LFK 1,0-E	conductivity probe K=1,0 With cable (1,2 m)	10-500 mS/m	
2909040963	175 044	LFK 1,0-ES	With plug, without cable	10-500 mS/m	
2909040964	175 045	LFK 0,1-E	conductivity probe K=0,1 With cable (1,2 m)	1-50 mS/m	
2909040965	175 046	LFK 0,1-ES	With plug, without cable	1-50 mS/m	
2909040967	175 097	sonde LFI	probe for LF-CC-I	35-350 mS/m	
2909040972	175 027		cable With connector for LFI and LFK - 1,2 m	1,2 m	
2909040973	175 028		cable With connector for LFI and LFK - 5 m	5 m	
2909040974	175 029		cable With connector for LFI and LFK - 10 m	10 m	

Corrosion test

4804001433	535 001	System TS 2	Corrosion test With 2 testing points, Flowmeter
4804001420	535 002	System TS 4	Corrosion test With 4 testing points, Flowmeter
4804000009	535 004		Test samples TC1 – Black steel St37
4804000010	535 005		Test samples TC2 – Copper Cu
4804000011	535 008		Test samples TC5 – Galvanized steel St/Zn

HERCO - CUSTOMIZED PROJECTS

Adjustments or custom made devices are possible. Therefore please contact our technical department to discuss your project: tech@micron.be



2 x Double Pass RO 2 x 25000 L / H build in a container



Duplex RO 2 x 20000 L / H - 1 skid - With PLC controller - PP piping



Double Pass RO 30000 L / H - With concentrate stage (efficiency 85%)



UO 5400ND - cabinet



duplex RO - 2 x 30000 L / H - 1 skid - Stainless steel