

REVERSE OSMOSIS SYSTEMS up to 40 l/h

Werner RO 10 – 40 – the modular system



Ready-to-connect Reverse Osmosis – compact system in an attractive plastic housing, wall- or bench-mounted, service-easy by a big self-locking cover, consists of:

- integrated pre-filter 3 mm absolute
- pressure gauge (0 ... 10 bar), pressure switch
- tap water solenoid valve
- rotary-vane high-pressure pump with 230V/50Hz, 0,35 kW motor
- high-pressure gauge, glycerine-filled
- double pressure vessel from stainless steel, each double unit with 1 or 2 polyamide-polysulfone spiral-wound membrane
- brine flow restrictor
- quick-connectors for all fluid-connections
- microprocessor-control with digital display

| reverse osmosis system type | RO | 10 | 20 | 30 | 40 |
|---------------------------------|--------|-----------------|-----------------|-----------------|-----------------|
| product flow * | l/h | 10 | 20 | 30 | 40 |
| feedwater requirement | l/h | 40 | 80 | 100 | 120 |
| qty. of double pressure vessels | ea. | 1 | 1 | 2 | 2 |
| qty. of membranes | ea. | 1 | 2 | 3 | 4 |
| operating pressure | bar | 14 | 14 | 14 | 14 |
| electrical | V / Hz | 230 / 50 | 230 / 50 | 230 / 50 | 230 / 50 |
| power consumption | kW | 0,35 | 0,35 | 0,35 | 0,35 |
| min. feedwater pressure ** | bar | 1,5 | 1,5 | 1,5 | 1,5 |
| max. feedwater pressure ** | bar | 8 | 8 | 8 | 8 |
| water inlet | R“ | 3/8“ | 3/8“ | 3/8“ | 3/8“ |
| product | mm | 8 | 8 | 8 | 8 |
| brine | mm | 8 | 8 | 8 | 8 |
| size w x h x d | mm | 500 x 600 x 295 | 500 x 600 x 295 | 500 x 600 x 295 | 500 x 600 x 295 |
| weight | kg | 30 | 30 | 32 | 32 |
| article-no. | | 1981-001 | 1981-002 | 1981-003 | 1981-004 |
| price EUR | | 4 000.00 | 4 280.00 | 4 550.00 | 4 850.00 |
| article-no. (with RS232) | | 1981-022 | 1981-023 | 1981-024 | 1981-025 |
| price EUR | | 4 350.00 | 4 630.00 | 4 900.00 | 5 200.00 |

* at 10 °C and 14 bar, > 98% for ions, > 99% for micro organisms, pyrogenes

** feedwaterquality = tap water according to WHO (Cl₂ and Mg < 0,1 ppm, SDI < 5)

Special:

The units RO 10 - RO 30 are upgradable for a higher product flow rates within shortest time . Informations and prices on demand. RO-Systems up to 6.000 l/h are also available on request. The comfortable RS 232-controlbox (with interface to computer and printer) is standard on models 1981-022, -023, -024, -025.

RO - ACCESSORIES

Activated carbon filter 5"



the activated carbon filter is necessary in most countries with chlorinated tap-water. It protects the ro-membranes from damage; consists of:

- 5" filter housing from polypropylene
- activated carbon cartridge
- in-/outlet 1/4" fpt
- pressure resistant up to 8 bar

technical data:

| | |
|-------------------------|------------------|
| type | SM 5 A |
| in-/outlet | 1/4" fpt |
| filter cartridge | activated carbon |
| size | 5" |
| article-no. | 1971-001 |
| price EUR | 79.00 |

components:

| description | article-no. | price EUR |
|----------------------------|--------------------|------------------|
| filter housing 5" | 1802-001 | 60,00 |
| activated carbon cartridge | 1902-003 | 26.00 |

AQUADEM[®] post-desalination cartridge

The AQUADEM 8DF will be installed post your reverse osmosis system. The mixed bed resin will lower the conductivity of ro-product (typical 10 µS/cm) down to < 1 µS/cm. The capacity is up to 8.000 l of pure water, refill can be done by local service-DI or one-way resin. Combination of RO and AQUADEM will be the best pretreatment for your ultra pure water system.



| type | capacity * | model | article-no.. | price EUR |
|-------------------|-------------------|--------------|---------------------|------------------|
| 8 DF | 8000 l | standard | 1942-006 | 499.00 |
| 13 SDF | 13 000 l | standard | 1943-005 | 675.00 |
| 20 SDF | 20 000 l | standard | 1943-015 | 885.00 |
| connecting kit RO | --- | --- | 1944-006 | 49.00 |

* at an average ro-product quality of 10 µS/cm

RO-ACCESSORIES

Storage tank, float switches



Pure water storage, made of black polyethylene, with upper cap Ø 160 mm. The storage is equipped with the following connectors:

- thread ¾" at the bottom
- optional vent filter
- overflow DN 10
- inlet DN 8

Tank:

| volume | l | 60 l | 100 l | 200 l | 300 l | 500 l | 750 l |
|-------------|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| size Ø x h | mm | 420 x 640 | 450 x 810 | 550 x 1.040 | 650 x 1.080 | 770 x 1.230 | 980 x 1.170 |
| article-no. | | 1822-012 | 1822-013 | 1822-014 | 1822-015 | 1822-016 | 1822-017 |
| price EUR | | 145.00 | 233.00 | 416.00 | 470.00 | 738.00 | 950.00 |

Float switches:

| type | | 10581 | 10587 | 10587 | 10587 | 10324 | 10324 |
|--------------------|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| overall length | mm | 180 | 750 | 750 | 750 | 1.145 | 1.145 |
| 1. switch point L1 | mm | 50 | 80 | 80 | 80 | 140 | 140 |
| 2. switch point L2 | mm | 150 | 300 | 300 | 300 | 600 | 600 |
| 3. switch point L3 | mm | ----- | 700 | 700 | 700 | 1.100 | 1.100 |
| article-no. | | 1733-005 | 1733-016 | 1733-016 | 1733-016 | 1733-012 | 1733-012 |
| price EUR | | 98.00 | 207.00 | 207.00 | 207.00 | 328.00 | 328.00 |

Pure water tanks in special executions

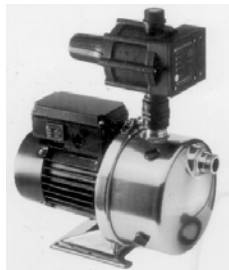
Several tanks (from 10 – 3.000 liters) are available, please ask for your quotation:

- materials stainless steel, PVDF, PP ...
- with cone bottom for a complete emptying
- with accessories (vent filtration, UV-desinfection....)
- special solutions – taylor made storage tanks for under counter benches

RO- ACCESSORIES

BOOSTER SYSTEMS

Type AQUApress



Ready-for-operation booster system, consist of:

- horizontal centrifugal pump
- electronic control unit with integrated dry-run protection and automatic on-off switch with 3 LED-lights for operation control
- stainless steel (1.4301) / polypropylene materials
- connection cable 1,7 m

Technical data:

| booster unit type | | AQUApress |
|-------------------|-------------------|-------------------|
| pressure | bar | up to 3,7 |
| flow rate | m ³ /h | 0,5 ... 4,1 |
| inlet | G | 1" male thread |
| electrical | V / Hz | 230 - 240 / 50 Hz |
| power consumption | W | 755 |
| size l x w x h | mm | 375 x 205 x 440 |
| article-no. | | 1332-003 |
| price EUR | | 499.00 |

Type MINIpress



Ready-for-operation booster system, consists of:

- diaphragm-pump with integrated pressure switch for full automatic start-stop
- pressure vessel PP, 0,7 l
- installation in the housing of Reverse Osmosis RO 10..40 possible

Technical data:

| Type | | MINIpress |
|-------------------|--------|--|
| pressure | bar | 2,8 |
| flow rate | l/min | 5 ... 10 |
| inlet | R" | ½" NPT |
| electrical | V / Hz | 230 - 240 / 50 |
| power consumption | W | 65 |
| size h x w x d | mm | 200 x 140 x 130 (pump) 220 x 120 x 100 (vessel) |
| article-no. | | 1332-002 |
| price EUR | | 589,07 |