

Reverse Osmosis Unit UMWELT 3



Installation- and Instruction Manual

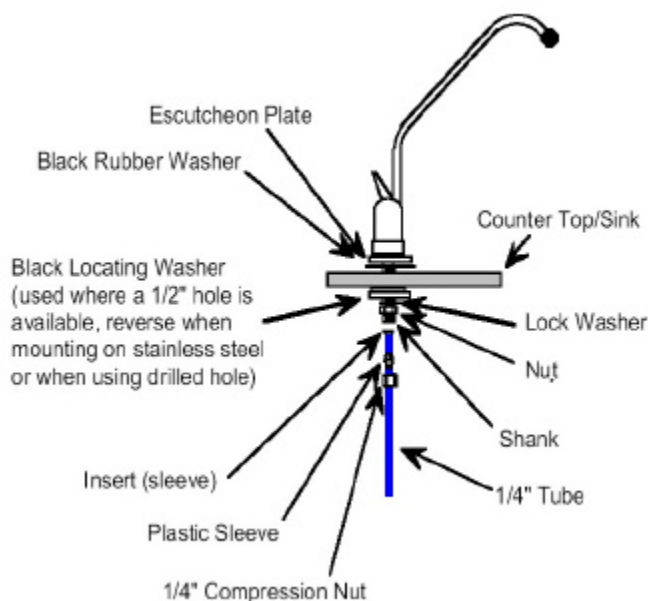
This Installation- and Instruction Manual shows you all the steps for the Installation of the Reverse Osmosis Water Filtration Unit, which can be easily done by you. If you don't want to install it yourself, please contact an adequate plumber on location.

Preparations before the Installation

1. The Unit can operate horizontal as well as in vertical Position. We recommend the vertical Installation because of the easier Way to change the Filters. Please be sure to have enough Space for the Replacement of the Filters. At the same Time the Unit should be installed near the Water Supply to avoid Pressure Drops through short Pipes.
2. The Tank should be positioned, where it doesn't displace. It doesn't need to be fixed and can be displaced later, if necessary.
3. The Tap should be positioned, so that the Water can drain into a Sink. When Mounting, please be sure, that there is enough Space for the Faucet.

Mounting of the Faucet

1. For the Faucet you need a Boring of Ø12mm. For Stainless Steel Sinks we recommend a Tapered Drill (No. 11802/3-14mm).
2. For wooden Counter Tops up to 25mm Thickness, you can use a Wood- or Metal Drill.
3. For wooden Counter Tops up to 40 mm Thickness, you need to countersink min. 15mm from the Bottom, using a Fortner-Drill (Ø40mm- No. 79510/40mm). Drill with a small Borer from the Bottom to the Top and afterwards rebores the Hole from the Top, using a 12mm Drill.
4. To tighten the Armature you need a 14mm Für das Festziehen der Armatur (Einbauhahn) benötigen Sie einen 14mm Socket Wrench (Nr. 62010/14x15). Please position the Plates and Seals as shown below and tighten the Nut.



Installation of the des Water Connection

***** Please be sure, that the Water is shut off, before working on the Water Pipe Net. *****

For the Water Connection, we enclosed two Parts:

- Feed Water Connector (A130) with ½" Inner- and ½" Outer Thread, with ¼" Inner Thread for the Connection of the Ball Valve (A200)
- Ball Valve (A200) with ¼" Inner- and Outer Thread



Feed Water Connector (A130)



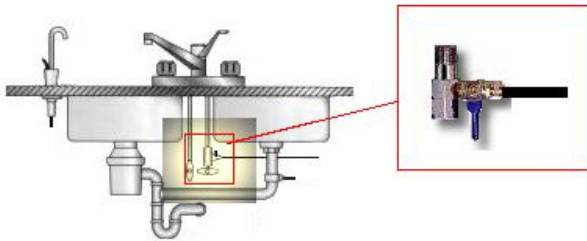
Ball Valve (A200)

Mounting of the both Parts to the Water Pipe Net:

Mounting of the Ball Valve to the Feed Water: wrap 3 to 4 Layers of Teflon Band around the Outer Thread of the Ball Valve and screw it inside the Feed Water Connector.

Remove the Cold Water Connector below the Sink from the ½"-Connection (mostly Angle Valve).

Mount the Thread Nipple and reconnect the ½"-Connector (Don't forget to seal the Threads with Teflon Band!).



Installation of the Feed Water Connector



Drain Clamp

Connection to the Drain Pipe:

1. The Drain Clamp has to be mounted to the upright Drain Pipe of the Sink, in front of the Sifon.
2. Drill a 6mm Hole into the Drain Pipe.
3. Bond the Sealing on the Adapter.
4. Fit the Adapter to the Drain Pipe (Holes to be centered by Drill).
5. Do not tighten the screws too hard.

Connecting of the Tubes

1. Connect the white Tube to the Feed Water Connector (max. Salinity of Feed Water: 600 ppm).
2. Connect the blue Tube with the Product Water Faucet.
3. Connect the black Tube to the Drain Clamp.

Initiation of the RO Unit

1. Connect the Unit to the Power Socket and switch on the Master Switch at the back of the Unit.
2. Open the Feed Water, in order to check the Unit for leaking Connections.
3. After a few Minutes the Water will flow out of the Product Water Faucet. (can last up to 5 Minutes, according to Water Pressure).
4. Let the Water flow for approx. 30 Minutes, to rinse the Filters sufficiently.
5. After that close the Product Water Faucet. Now the Storage Tank gets filled.
6. When the Tank is full, please drain it completely.

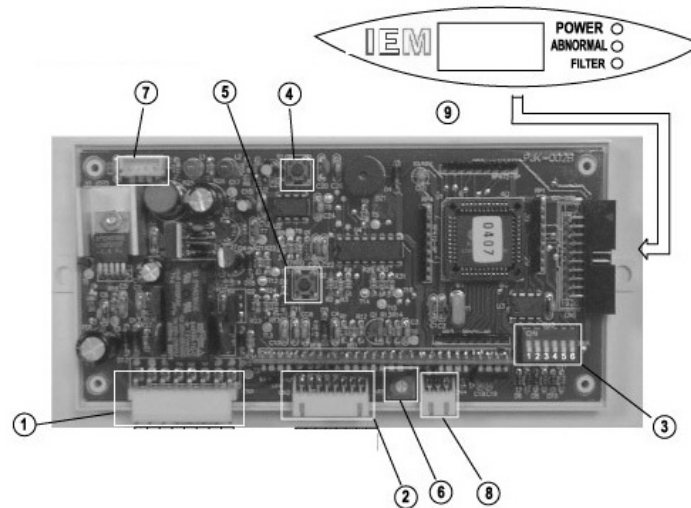
***** Please do not use the Water of the first Flushing of the Storage Tank!*****

***** Now the Unit is completely flushed and ready for Use.*****

Controller

The Controller is mounted on the Front Side of the Housing below the Covering.

Possible Errors	Causes
Leaking	The Unit is leaky.
Low Pressure	The Feed Pressure is below 1 bar, increase the Pressure.
Conductivity too high	The Unit is defect or the Membrane is deficient.
LED „Abnormal“ blinks	The Unit is defect.
LED „Filter“ blinks	The Filters need to be changed.



	1P	2P	3P	Time of change filter	
					[1] 1P / 2P / 3P :Set changing filter (refer to left table)
1	0	0	0	1000 Min.	[2] 4P: timing filter/count(flow meter)switch (OFF=>timing, ON =>counting (flow meter)
2	1	0	0	2000 Min.	[3] 5P: ON=>Reach time of changing filter, it will display and stop output. OFF=>Reach time of changing filter, it will not display and continue output.
3	0	1	0	3000 Min.	
4	1	1	0	5000 Min.	[4] 6P: Setting by supplier OFF (Don't touch!) 0=>OFF 1=>ON
5	0	0	1	10000 Min.	
6	1	0	1	15000 Min.	
7 (Umwelt 3)	0	1	1	20000 Min.	
8 (EisCafe)	1	1	1	12000 Min.	

- (1) Power / PUMP/ plug of auto flushing
- (2) Low pressure/ High pressure/ Leaking detector/ plug of water detector
- (3) Mode setting switch (total 6 option):
- (4) The switch of re-timing for changing filter: Set counting numeral "zero" for changing filter. (When operate, please press the switch continuously, and it will complete when the alarm stop.
- (5) Reset switch: Restart the circuit board system.
- (6) Adjust water detector sensitivity: Rotate anticlockwise (increase sensitivity), rotate clockwise (decrease sensitivity).
- (7) Buzzer: It will alarm when running abnormal.
- (8) Plug of flow meter: It can calculate and display the life of filter by way of flow meter.
- (9) Plug of LCD display board.

Security Advices

The RO Unit is constructed for a Water Pipe Pressure of 3 – 5 bar. In case of a lower Pressure, the Quantity and Quality of the Product Water will degrade. In Order to counter this, you should plump for an RO Unit with an included Booster Pump.

At a higher Pressure, the Membrane can be damaged. In this case you should install an additional Pressure Reducer.

Do not keep the Unit out of Action for a longer Time, since otherwise there is the risk of Bacterial Contamination.

Concerning the Choice of the Location, please keep the following in mind:

Position the Unit, where it doesn't displace and can be maintained.

The Unit should be positioned near the WaterSupply, to avoid Pressure Drops through short Pipes.

The Location of the Unit should necessarily have a Bottom Outlet, since possible Leakages can cause Water Damages. Because of this please obviate an Installation in Conjunction with Furniture.

Please check the Unit regularly for bacteriological and microbiological Contaminations.

If you don't use the Unit for any Length of Time, please shut down the Current Entry and close the Feed Water Supply. In this case you should disinfect the Unit before Reconnection.

Besides Rodents (Mice,...) can erode the Tubes.