



HERBERGER®
WASSERAUFBEREITUNG GMBH

REVERSE OSMOSIS SYSTEMS

PURE WATER FOR

- MEDICAL TECHNOLOGY
- INDUSTRY
- LABORATORIES
- GASTRONOMY
- HOUSEHOLDS





WATER TECHNOLOGY SINCE 1984

Herberger Wasseraufbereitung GmbH, based in Eschweiler in the Aachen technology region, develops, manufactures and sells cutting-edge technology in water treatment. The particular focus is on the construction of reverse osmosis systems, conductivity measuring devices and probes as well as the distribution of filter materials, accessories and water chemicals.

The company was founded in 1984 by Josef Herberger in Waghäusel, Baden-Württemberg. Until 2014 the company was run as a sole proprietorship. Since the takeover in February 2014 by Thomas Henzler and Dr. Ulrich Kögler as part of a succession plan, Herberger Wasseraufbereitung operates as a GmbH. The constant expansion of the company led to a relocation first to Reilingen, then later to Eschweiler near Aachen. At this location we develop, test and manufacture our products ourselves with a high degree of vertical integration.

Our product portfolio is subject to constant development and modernization. Innovation is very important to us. We are also involved in research projects and project partnerships with industrial partners, universities and long-standing customers. This is where new solutions are researched, new materials are tested and new products are developed until they are ready for the market. Our products are permanently tested in our test laboratory. Our large factory hall allows us to react flexibly to market requirements.

Our company now employs up to 10 people. We maintain good contacts with external partner companies, so that we can also work on comprehensive problems in water technology. We exhibit our products at international trade fairs and get suggestions for further development of our diverse product range.

REVERSE OSMOSIS SYSTEMS / PRODUCT LINES

Our reverse osmosis systems are characterized by an innovative all-in concept with a compact design. The storage tank is always designed to be as large as possible and - if possible - integrated into the system itself. This saves space without limiting the utility of the systems for our customers.

The **under-table format (UT)** can not only be integrated under a standard worktop in a workshop or laboratory, it also has a high output combined with a large storage container.

Despite the high delivery values, the **cabinet format (SF)** is still compact and is easily accessible for maintenance purposes.

The **mobile systems (M)** can practically be transported in a car (station wagon) and can be used on construction sites or in open areas.

The **MINI RO** systems are designed to meet the needs of low consumption and require little space.

Conventional or WiFi-enabled controller

To control the RO system, our customers can choose between a **conventional programmable logic controller** and an **innovative WiFi-enabled touch-screen controller**. This not only has the advantage of being able to be connected to the Internet/Intranet, but it also has special additional functions for operating the reverse osmosis system. Among other things, the chemical cleaning of the membranes and the tank was reconsidered and enables the entire unit to be disinfected fully automatically.

Our 4 product lines

Reverse osmosis systems with WiFi-enabled touch screen controller	iRO (UT or SF)
Reverse osmosis system with conventional logic controller (SPS)	RO (UT or SF)
Mobile reverse osmosis systems	RO M
Small reverse osmosis systems for industry and households	MINI-RO

Individual customer solutions / on-demand

In addition to our standard versions, we also develop and manufacture individual solutions for our customers up to a permeate output of 2000 l/h. The design remains largely intact.

RO XXX UT/SF XXX

iRO 100 UT 65

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal **under-table concept** for use in laboratories, doctors' practices, clinics, testing facilities and industry

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system includes a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs thus are significantly reduced. The system also has an automatic disinfection cycle, which means both, the membranes and the tank with the internal lines are disinfected.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.

**WiFi-
enabled
Touch-Screen
Controller**

**65 l
tank
inclusive!**



INNOVATION

- Internet connectivity (IoT)
- Automatic disinfection
- Touch-Screen Controller
- Plug & Play



INCLUSIVE

65 litre storage tank

Modern reverse osmosis controller (IoT)

- Touch-Screen
- Internet-connectivity (IoT)
- Ethernet for internet-/ server connection
- Permanent display of operating data (flow values, conductivity values, pressures)
- Leakage sensor with automatic shutdown

Cleaning function

for membranes

Disinfection function

for membranes and tank

3-fold pre-filtration

sediment filter, activated carbon, hardness stabilization

Sampling tap

CHARACTERISTICS

Permeate-Output

- 100 l/h permeate production
- 400 l/h delivery volume up to 5 bar delivery pressure

Fully automatic operation

Permeate rejection programme with adjustable limit value

Filter elements in standard sizes 5" or 10"

Connectors in 3/4"

Inlet, permeate, concentrate (sewage)

Stainless steel casing

TECHNICAL DATA

Power connection

230 VAC, 50 Hz, 600 W

Dimensions

60 x 86 x 60 (WxHxD in cm)

Curb weight

65 kg

El. conductivity

< 20 µS/cm

Deposition

ca. 95 - 99% of ingredients (at 20°C water temperature)

Yield

60 - 75 %

Residual hardness

0,1 - 0,2°dH



iRO 200 UT 65

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal **under-table concept** for use in laboratories, doctors' practices, clinics, testing facilities and industry

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system includes a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs thus are significantly reduced. The system also has an automatic disinfection cycle, which means both, the membranes and the tank with the internal lines are disinfected.

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**WiFi-
enabled
Touch-Screen
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**65 l
tank
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INNOVATION

- Internet connectivity (IoT)
- Automatic disinfection
- Touch-Screen Controller
- Plug & Play



INCLUSIVE

65 litre storage tank

Modern reverse osmosis controller (IoT)

- Touch-Screen
- Internet-connectivity (IoT)
- Ethernet for internet-/ server connection
- Permanent display of operating data (flow values, conductivity values, pressures)
- Leakage sensor with automatic shutdown

Cleaning function

for membranes

Disinfection function

for membranes and tank

3-fold pre-filtration

sediment filter, activated carbon, hardness stabilization

Sampling tap

CHARACTERISTICS

Permeate-Output

- 200 l/h permeate production
- 400 l/h delivery volume up to 5 bar delivery pressure

Fully automatic operation

Permeate rejection programme with adjustable limit value

Filter elements in standard sizes 5" or 10"

Connectors in 3/4"

Inlet, permeate, concentrate (sewage)

Stainless steel casing

TECHNICAL DATA

Power connection

230 VAC, 50 Hz, 600 W

Dimensions

60 x 86 x 60 (WxHxD in cm)

Curb weight

70 kg

El. conductivity

< 20 µS/cm

Deposition

ca. 95 - 99% of ingredients (at 20°C water temperature)

Yield

60 - 75 %

Residual hardness

0,1 - 0,2°dH



iRO 300 SF 100

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal concept for use in laboratories, doctors' practices, clinics, testing facilities, industry and gastronomy

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system includes a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs thus are significantly reduced. The system also has an automatic disinfection cycle, which means both, the membranes and the tank with the internal lines are disinfected.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.

**WiFi-
enabled
Touch-Screen
Controller**

**100 l
tank
inclusive!**



INNOVATION

- Internet connectivity (IoT)
- Automatic disinfection
- Touch-Screen Controller
- Plug & Play



INCLUSIVE

100 litre storage tank

Modern reverse osmosis controller (IoT)

- Touch-Screen
- Internet-connectivity (IoT)
- Ethernet for internet-/ server connection
- Permanent display of operating data (flow values, conductivity values, pressures)
- Leakage sensor with automatic shutdown

Cleaning function

for membranes

Disinfection function

for membranes and tank

3-fold pre-filtration

sediment filter, activated carbon, hardness stabilization

Sampling tap

CHARACTERISTICS

Permeate-Output

- 300 l/h permeate production
- 400 or 1.000 l/h delivery volume up to 5 bar delivery pressure

Fully rejection programme

Permeate fault

with adjustable limit value

Filter elements in standard sizes

5" or 10"

Connectors in 3/4" or 1"

Inlet, permeate, concentrate (sewage)

Stainless steel casing

TECHNICAL DATA

Power connection

230 VAC, 50 Hz, 1,2 W

Dimensions

60 x 160 x 70 (WxHxD in cm)

Curb weight

85 kg

El. conductivity

< 20 µS/cm

Deposition

ca. 95 - 99% of ingredients (at 20°C water temperature)

Yield

60 - 75 %

Residual hardness

0,1 - 0,2°dH



iRO 600 SF 100

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal concept for use in laboratories, doctors' practices, clinics, testing facilities, industry and gastronomy

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system includes a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs thus are significantly reduced. The system also has an automatic disinfection cycle, which means both, the membranes and the tank with the internal lines are disinfected.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.

**WiFi-
enabled
Touch-Screen
Controller**

**100 l
tank
inclusive!**



INNOVATION

- Internet connectivity (IoT)
- Automatic disinfection
- Touch-Screen Controller
- Plug & Play



INCLUSIVE

100 litre storage tank

Modern reverse osmosis controller (IoT)

- Touch-Screen
- Internet-connectivity (IoT)
- Ethernet for internet-/ server connection
- Permanent display of operating data (flow values, conductivity values, pressures)
- Leakage sensor with automatic shutdown

Cleaning function

for membranes

Disinfection function

for membranes and tank

3-fold pre-filtration

sediment filter, activated carbon, hardness stabilization

Sampling tap

CHARACTERISTICS

Permeate-Output

- 600 l/h permeate production
- 1.000 l/h delivery volume up to 5 bar delivery pressure

Fully automatic operation

Permeate rejection programme with adjustable limit value

Filter elements in standard sizes 5" or 10"

Connectors in 3/4" or 1" Inlet, permeate, concentrate (sewage)

Stainless steel casing

TECHNICAL DATA

Power connection

230 VAC, 50 Hz, 1,2 W

Dimensions

60 x 160 x 70 (WxHxD in cm)

Curb weight

85 kg

El. conductivity

< 20 µS/cm

Deposition

ca. 95 - 99% of ingredients (at 20°C water temperature)

Yield

60 - 75 %

Residual hardness

0,1 - 0,2°dH



RO 100 UT 65

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal **under-table concept** for use in laboratories, doctors' practices, clinics, testing facilities and industry

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system has a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs are thus significantly reduced.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.



INNOVATION

● **ALL-IN
CONCEPT**

● **UNDER-TABLE
FORMAT**

● **PLUG &
PLAY**

**Connection
in 3/4"**



INCLUSIVE

- 65 litre storage tank**
expandable to 85 litres
- Stainless steel casing**
- Cleaning function**
for membranes
- 3-fold pre-filtration**
e.g. sedimentation, active-carbon,
hardness stabilization in 5"
- Flow measurement**
 - permeate
 - concentrate
 - recirculation
- Display operating pressure**
for optimal operation
- Sampling tap**

CHARACTERISTICS

- Permeate-Output**
 - 100 l/h permeate production
 - 400 l/h delivery volume up to 5 bar
delivery pressure
- Fully rejection programme**
- Permeate fault**
with adjustable limit value
- Leakage sensor**
with automatic shutdown
- Potential-free output**
 - Collective fault message
 - Remote alarm for control room
- Connection in 3/4"**
Inlet, permeate, concentrate (sewage)

TECHNICAL DATA

- Power connection**
230 VAC, 50 Hz, 600 W
- Dimensions**
60 x 86 x 60 (WxHxD in cm)
- Curb weight**
65 kg
- El. conductivity**
< 20 µS/cm
- Deposition**
ca. 95 - 99% of ingredients
(at 20°C water temperature)
- Yield**
60 - 75 %
- Residual hardness**
0,1 - 0,2°dH

RO 200 UT 65

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal **under-table concept** for use in laboratories, doctors' practices, clinics, testing facilities and industry

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system has a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs are thus significantly reduced.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.



INNOVATION

● **ALL-IN
CONCEPT**

● **UNDER-TABLE
FORMAT**

● **PLUG &
PLAY**

Connection
in 3/4"



INCLUSIVE

- 65 litre storage tank**
expandable to 85 litres
- Stainless steel casing**
- Cleaning function**
for membranes
- 3-fold pre-filtration**
e.g. sedimentation, active-carbon,
hardness stabilization in 5"
- Flow measurement**
 - permeate
 - concentrate
 - recirculation
- Display operating pressure**
for optimal operation
- Sampling tap**

CHARACTERISTICS

- Permeate-Output**
 - 200 l/h permeate production
 - 400 l/h delivery volume up to 5 bar
delivery pressure
- Fully automatic operation**
- Permeate rejection programme**
with adjustable limit value
- Leakage sensor**
with automatic shutdown
- Potential-free output**
 - Collective fault message
 - Remote alarm for control room
- Connection in 3/4"**
Inlet, permeate, concentrate (sewage)

TECHNICAL DATA

- Power connection**
230 VAC, 50 Hz, 600 W
- Dimensions**
60 x 86 x 60 (WxHxD in cm)
- Curb weight**
70 kg
- El. conductivity**
< 20 µS/cm
- Deposition**
ca. 95 - 99% of ingredients
(at 20°C water temperature)
- Yield**
60 - 75 %
- Residual hardness**
0,1 - 0,2°dH

RO 300 SF 450

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal concept for use in industry, gastronomy, laboratories, doctors' practices, clinics and testing facilities

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system has a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs are thus significantly reduced.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.

450 l
tank
inclusive!



INNOVATION

- **ALL-IN CONCEPT**
- **PLUG & PLAY**

Connection
in 3/4"



INCLUSIVE

- 450 litre storage tank**
integrated in system
- Stainless steel casing**
- Cleaning function**
for membranes
- 3-fold pre-filtration**
e.g. sedimentation, active-carbon, hardness stabilization in 10"
- Flow measurement**
 - permeate
 - concentrate
 - recirculation
- Display operating pressure**
for optimal operation
- Sampling tap**

CHARACTERISTICS

- Permeate-Output**
 - **300 l/h** permeate production
 - **5.500 l/h** delivery volume up to 5 bar delivery pressure
- Fully automatic operation**
- Permeate rejection programme**
with adjustable limit value
- Integrated leakage sensor**
with automatic shutdown
- Potential-free output**
 - Collective fault message
 - Remote alarm for control room
- Connection in 3/4"**
Inlet, permeate, concentrate (sewage)

TECHNICAL DATA

- Power connection**
2 x 230 VAC, 50 Hz, 2,2 kW
- Dimensions**
70 x 160 x 100 (WxHxD in cm)
- Curb weight**
95 kg
- El. conductivity**
< 20 µS/cm
- Deposition**
ca. 95 - 99% of ingredients
(at 20°C water temperature)
- Yield**
60 - 75 %
- Residual hardness**
0,1 - 0,2°dH



RO 1200 SF 2000

PURE WATER FOR INDUSTRY, LABORATORIES, MEDICAL TECH- NOLOGY

Ideal concept for use in industry, gastronomy, laboratories, doctors' practices, clinics and testing facilities

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system has a cleaning module for rinsing the membranes with citric acid. This prevents an otherwise inevitable clogging of the membranes and the lifespan is extended from 1-3 years to 5-10 years (and more). The maintenance costs are thus significantly reduced.

An integrated hardness stabilization also reduces clogging of the membranes. This means that the system can be operated without an upstream softening system. Only with very hard water (from 20°H) a softening system is also recommended.



2.000 l
tank
external!

INNOVATION

● ALL-IN CONCEPT ● PLUG & PLAY

Connection
in 1"



INCLUSIVE

2.000 litre storage tank

external: via level control in the system integrated

Stainless steel casing

Cleaning function for membranes

3-fold pre-filtration

e.g. sedimentation, active-carbon, hardness stabilization in 10"

Flow measurement

- permeate
- concentrate
- recirculation

Display operating pressure for optimal operation

Sampling tap

CHARACTERISTICS

Permeate-Output

- 1.200 l/h permeate production
- 4.000 l/h delivery volume up to 4 bar delivery pressure (or other)

Fully automatic operation

Permeate rejection programme with adjustable limit value

Integrated leakage sensor with automatic shutdown

Potential-free output

- Collective fault message
- Remote alarm for control room

Connection in 1"

Inlet, permeate, concentrate (sewage)

TECHNICAL DATA

Power connection

380 V, 50 Hz, 4,5 kW

Dimensions

90 x 145 x 60 (WxHxD in cm) plus tank

Curb weight

120 kg

El. conductivity

< 20 µS/cm

Deposition

ca. 95 - 99% of ingredients
(at 20°C water temperature)

Yield

60 - 75 %

Residual hardness

0,1 - 0,2°dH



RO 300 M

For
MOBILE
Applications

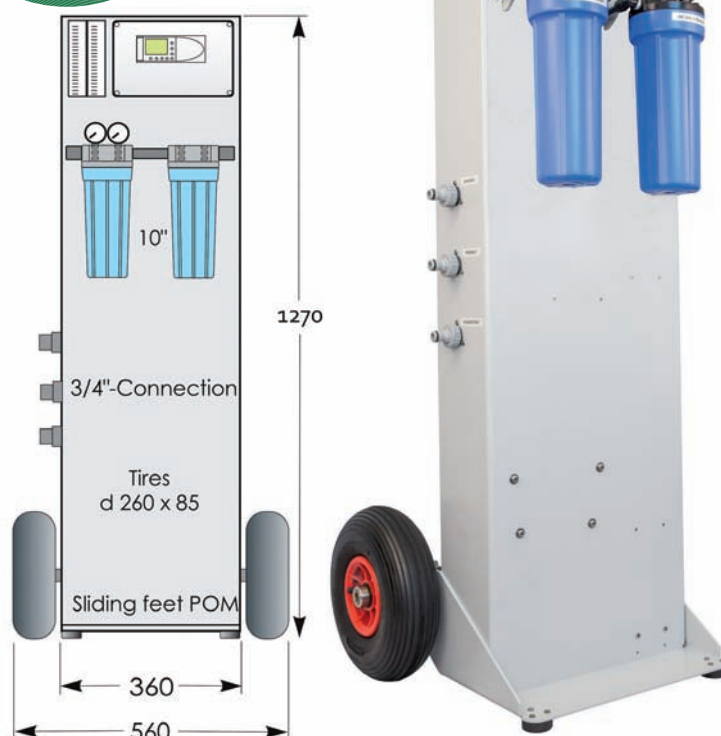
PURE WATER FOR MOBILE APPLICATIONS

Ideal concept for heating water filling, building cleaning, solar panel cleaning, car washing etc.

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system is controlled fully automatically. A permeate rejection programme ensures that only high quality treated water is released for further use. Operating data such as flows, pressure and conductivity are constantly displayed.

A cleaning programme with citric acid ensures long-term preservation of the membranes. Only when operating with 360 very hard water (from 20°dH) an upstream softening system is recommended in addition.



FOR MOBILE APPLICATIONS:

- Heating water filling
- Building cleaning
- Solar panel cleaning
- Car wash sites
- Mobile car wash
- Mobile truck wash

INCLUSIVE

- Solid mobile aluminium frame**
easy to handle
- Water connections in 3/4"**
with practical quick-release fasteners
- Hose set** for feed water, pure water and waste water each 5m long and matching 3/4" quick-release fasteners
- Prefiltration in 10"** upon choice like
 - Sedimentation
 - Activated carbon
 - Hardness stabilization (from 12°dH)
- Wheels with PUR-tires**
- Potential-free output** for e.g.
 - Collective fault message
 - Remote alarm for control room
- Assecoires upon choice:**
 - Switch-off element upon choice
 - Storage container
 - Booster pump for buildings higher than 20 m
 - Mixed bed cartridge for complete desalination

CHARACTERISTICS

- Permeate output 250 - 300 l/h**
with delivery pressure of approx. 2,7 bar
- Manual ON/OFF**
Optional: automatic switch-off via a pressure switch, water meter or level sensor etc.
- Good visibility of operating data**
 - Permeate flow
 - Concentrate flow
 - Operating pressure
 - Electric conductivity
- Permeate rejection programme**
with adjustable limit value
- Leakage sensor**
with automatic shutdown
- Operation possible in vertical or horizontal position**
- Easy storage in vehicle due to sliding elements on handle**

TECHNICAL DATA

- Power connection**
230 VAC, 50 Hz, 700 W
- Dimensions**
56 x 130 x 48 (WxHxD in cm)
- Curb weight**
ca. 40 kg
- El. conductivity**
< 20 µS/cm
- Deposition**
ca. 95 - 99% of ingredients
(at 20°C water temperature)
- Yield**
60 - 75 %
- Residual hardness**
0,1 - 0,2°dH

RO 600 M

For
MOBILE
Applications

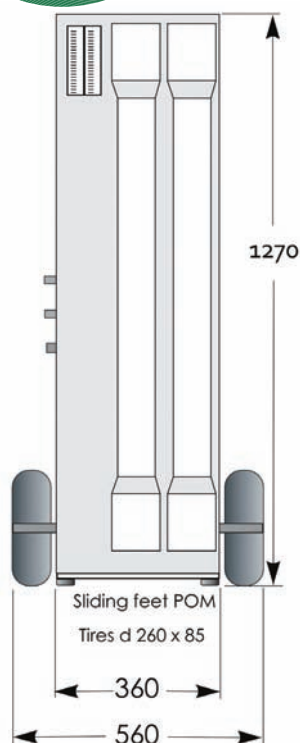
PURE WATER FOR MOBILE APPLICATIONS

Ideal concept for heating water filling, building cleaning, solar panel cleaning, car washing etc.

Reverse osmosis system for obtaining pure, salt-free and lime-free water with a separation of up to 99% of in the feed water contained and dissolved substances.

The system is controlled fully automatically. A permeate rejection programme ensures that only high quality treated water is released for further use. Operating data such as flows, pressure and conductivity are constantly displayed.

A cleaning programme with citric acid ensures long-term preservation of the membranes. Only when operating with 360 very hard water (from 20°dH) an upstream softening system is recommended in addition.



FOR MOBILE APPLICATIONS:

- Heating water filling
- Building cleaning
- Solar panel cleaning
- Car wash sites
- Mobile car wash
- Mobile truck wash

INCLUSIVE

- Solid mobile aluminium frame**
easy to handle
- Water connections in 3/4"**
with practical quick-release fasteners
- Hose set** for feed water, pure water and waste water each 5m long and matching 3/4" quick-release fasteners
- Prefiltration in 10"** upon choice like
 - Sedimentation
 - Activated carbon
 - Hardness stabilization (from 12°dH)
- Wheels with PUR-tires**
- Potential-free output** for e.g.
 - Collective fault message
 - Remote alarm for control room
- Assecoires upon choice:**
 - Switch-off element upon choice
 - Storage container
 - Booster pump for buildings higher than 20 m
 - Mixed bed cartridge for complete desalination

CHARACTERISTICS

- Permeat output 500 - 600 l/h**
with delivery pressure of approx. 2.7 bar
- Manual ON/OFF**
Optional: automatic switch-off via a pressure switch, water meter or level sensor etc.
- Good visibility of operating data**
 - Permeat flow
 - Concentrate flow
 - Operating pressure
 - Electric conductivity
- Permeate rejection programme**
wth adjustable limit value
- Leakage sensor**
with automatic shutdown
- Operation possible in vertical or horizontal position**
- Easy storage in vehicle due to sliding elements on handle**

TECHNICAL DATA

- Power connection**
230 VAC, 50 Hz, 700 W
- Dimensions**
56 x 130 x 48 (WxHxD in cm)
- Curb weight**
ca. 45 kg
- El. conductivity**
< 20 µS/cm
- Deposition**
ca. 95 - 99% of ingredients
(at 20°C water temperature)
- Yield**
60 - 75 %
- Residual hardness**
0,1 - 0,2°dH



MINI RO-10 FAMILY EDITION

BEST DRINKING WATER FOR HOME

Ideal concept for households

Osmosis system for domestic use to obtain high-quality drinking water in the versions 75 GPD (290 litres per day) or 100 GPD (390 litres per day).

Direct osmosis systems work via the municipal water supply pressure and do not require an extra booster pump. Because osmosis water is only produced slowly an intermediate storage is recommended. We recommend a glass canister which has the advantage of simple cleaning; this means in terms of hygiene you are always on the safe side!

The osmosis system can be installed in a base cabinet and screwed on the side wall. The glass canister can be placed on a worktop in the kitchen.

The operation is carried out manually by switching on using the start button; the storage container is then filled and automatically switched off. This takes 25 - 50 minutes depending on the design and local conditions.

The devices are designed according to your wishes. The only consumable material to be replaced is an activated carbon filter. When used as drinking water we recommend gemstones like (rose quartz, rock crystal, amethyst or marble in the storage tank to softly remineralize the water naturally.



Filling head with electronic shutdown sensor; suitable for glass or other canisters



Glass canister with dispenser

- **Direct osmosis for drinking water or aquariums**

- **Glass canister as a storage container**
- **Automatic shutdown device**

INCLUSIVE	CHARACTERISTICS	TECHNICAL DATA
Glas storage canister 5 or 10 litre (or other)	Permeate output 10 - 14 litres per hour	Power connection 230 VAC, 50 Hz, 0,1 kW
Mini-controller <ul style="list-style-type: none"> ● Semi-automatic operation ● Manual ON/OFF ● Electronic shutdown sensor ● Operating display 	Connection upon choice	Dimensions 23 x 36 x 13 (WxHxD in cm)
2-fold pre-filtration 10" sedimentation 10 µm and active-carbon in one cartridge	Solid aluminium casing powder coated	Deposition ca. 95 - 97% of ingredients
		Minimum feed water pressure 4 bar

MINI RO-10 INDUSTRIAL

PURE WATER FOR INDUSTRY, LABORATORIES AND MEDICAL TECHNOLOGY

Ideal concept for low consumption in industry, laboratories, doctors' practices, clinics, testing facilities and gastronomy

Osmosis system for industrial use to obtain high-quality process water in the versions 75 GPD (290 litres per day) or 100 GPD (390 litres per day).

A combined sediment and active-carbon filter softens the input feed water and filters out particles and suspended matter up to 10 µm thick. The remaining substances are filtered through the osmosis membrane and flushed out with the drain water, the so-called concentrate. The pure water is stored in the pressure tank for further use as process water.

The Industrial version is designed to be fully automatic including a mini-controller, a booster pump, a pressure storage tank and a withdrawal fitting unit. The booster pump improves the deposition-rate and increases the yield. It also facilitates the use of the system in an environment with low municipal feed water pressure and enables the filling of the pressure tank up to 5 bar. The system is fully automatically switched off when the storage pressure is reached and again switch on at 1.2 bar. Both switching pressures can subsequently be adjusted between 1 - 5 bar.



- **Fully automatic mini-controller**
- **Pressure tank upon choice with 5 bar delivery pressure**
- **Booster pump up to 5.5 bar**

INCLUSIVE	CHARACTERISTICS	TECHNICAL DATA
Storage tank up to 5 bar size upon choice Mini controller <ul style="list-style-type: none"> ● Fully automatic operation ● Manual ON/OFF ● Automatic ON/OFF via pressure control ● Operating display 2-fold pre-filtration 10" Sedimentation (10 µm) and active-carbon in one cartridge	Permeate output 10 - 14 litres per hour Connection upon choice Solid aluminium casing powder coated	Power connection 230 VAC, 50 Hz, 0,1 kW El. conductivity 10 -30 µS/cm Deposition ca. 95 - 97% of ingredients (at 20°C water temperature) Yield approx. 50 % Minimum feed water pressure min. 1.5 bar



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