Installation and operating instructions

Translation of the original operating instructions

Bioquell®-PURE

JUDO reverse osmosis system

Please transfer to the operator.
Read before installation and commissioning!
Keep for future use!

02/2022 • 1703434

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Dear customer,

Thank you for the confidence you have shown in us by purchasing this device. In purchasing this JUDO reverse osmosis system you have procured a state of the art product.

Our aim is that you remain with us as a satisfied customer. Therefore we kindly ask that if you have any questions concerning your JUDO reverse osmosis system, e.g. concerning the possible addition of expansion stages or if you have any general questions concerning water treatment, then please contact our field service representative or directly contact our works in Winnenden (Germany).
If you have any queries, please specify the model name, order and manufacturing numbers that you can find on the type label of your JUDO device.

Every JUDO reverse osmosis system has been carefully checked prior to supply. Nevertheless, if difficulties occur, please contact your responsible customer service representative.
For the customer service address, see also the last page of this manual.

For queries, orders, service, please contact:

JUDO Wasseraufbereitung GmbH
Werk Winnenden
Hohreuschstraße 39-41
D-71364 Winnenden
+49 (0)7195-692-0
info@judo.eu
www.judo.eu

Operating instructions in other languages at:
Betriebsanleitungen in anderen Sprachen unter:
Mode d'emploi dans d'autres langues à l'adresse:
Gebruiksaanwijzingen in andere talen op:
其他语言的操作说明见:

https://www.judo.eu/QR-001

1 General notes

1.1 About these installation and operating instructions

These installation and operating instructions should simplify getting to know your JUDO reverse osmosis system and inform you of its intended applications. The installation and operating instructions contain important information so that you can use the JUDO reverse osmosis system safely, as intended and economically.
They contain basic information that must be observed during installation, operation and servicing. Observance of this information will help to avoid dangers, reduce repair costs and increase the reliability and service life of your JUDO reverse osmosis system.
Alongside the installation and operating instructions and the legal regulations applicable in the country and place of use in respect of accident prevention, the recognised technical regulations for safe and professional work must be observed.
All pictorial, dimensional and implementation information correspond to the date of going to press. We reserve the right to make changes due to technical progress and continuing development. Model and product claims cannot be lodged.

NOTE

The installation and operating instructions must always be available at the place of use of the JUDO reverse osmosis system and must be kept in a good, legible state!
All persons involved in installation, commissioning, operation, maintenance, servicing and repair of the JUDO reverse osmosis system must be appropriately qualified and trained and must have carefully read and understood these installation and operating instructions and also any separate installation and operating instructions for other devices and systems!

1.2 Validity of the installation and operating instructions.

These installation and operating instructions are valid for the following models:

Designation	Model	Order no.
JUDO reverse osmosis system	Bioquell®-PURE	8200390

Table 1: Models

1.3 CE declaration

The applicable CE declaration can be requested from the manufacturer.

1.4 Warranty

The warranty is valid in accordance with our general terms of sale and delivery only if ...

- The JUDO reverse osmosis system is used solely for its intended use and its system components are not opened, tampered with or incorrectly treated in any other way,
- Safety guards are used and these are not tampered with or removed,
- The operating conditions correspond to the technical specifications,
- Inspection and maintenance are performed according to EN 806-5:2012 and EN 14743,
- Repairs are only performed with original spare parts by JUDO customer service or authorised technical personnel,
- All work must only be performed by qualified and authorised technical personnel.

Alongside the general terms and conditions of JUDO Wasseraufbereitung GmbH, the following must also be observed:

- On the basis of the order, the supplied components must be checked for completeness and sound condition by the purchaser!
- The buyer must report in writing any visible defects within a period of 8 days from receipt of goods and any hidden defects within 8 days from their detection!
- Upon product delivery, missing parts, as well as missing technical documents or materials, must also be reported within 8 days from receipt of the other goods!

1.5 Intended use

The JUDO reverse osmosis system produces pure drinking water from normal tap water and in doing so removes any unwanted water hardness and nearly all organic water contents and other harmful substances. The compact device is suitable for use in clear, colourless, iron and manganese-free tap water.
Intended use also includes the reading of these installation and operating instructions, adherence to all the safety conditions and instructions contained within them and the performance of inspection and maintenance work at the prescribed time intervals.

ATTENTION

Other uses are not compliant with the intended use and not permitted!
JUDO Wasseraufbereitung GmbH will not be responsible for the resulting damage, the operator alone bears the risk!

NOTE

Only designated for operation in closed spaces!

1.6 Transport, storage, disposal

1.6.1 Transport

CAUTION

Transport the JUDO reverse osmosis system with care in an upright position, do not knock over, do not transport when there is a risk of frost, also protect against dust and dirt effects!

1.6.2 System storage

CAUTION

Dry, frost-proof storage location with aggressive atmosphere!
Protect against the effects of coarse dust or dirt, also avoid UV radiation and direct sunshine!
Permissible storage temperature: +4 °C to +40 °C!

1.6.3 Disposal

Packaging

NOTE

The packaging must be disposed of sorted by materials!
Place cardboard and carton in waste paper recycling and film in materials recycling.

Disposal of old devices

NOTE

Old devices must not be disposed of with domestic refuge!
Electric and electronic components must not be disposed of with domestic refuge!
Material groups must be properly disposed of by the consumer according to their substance group!
The legal regulations applicable in the country and place of use must be observed when disposing of different material groups and operating resources!

2 Safety

Warning and safety instructions, residual danger signs and pictographs provide the user of the operating instructions with information on possible dangers:

- Dangerous actions referred to in the operating instructions are preceded by warnings.
- General information, pictographs and information are presented with the respective action or at the relevant points.
- Residual danger signs, insofar as residual dangers exist, are attached to the system.

2.1 Representation of pictographs

Danger pictographs

Danger pictographs supplement the warnings to clarify the type of danger.
The following danger pictographs can be used in the operating instructions and on the system:

Pictograph	Safety-related meaning	Pictograph	Safety-related meaning
	General danger symbol		Warning of electric voltage

Table 2: Danger pictographs

Mandatory pictographs

Mandatory pictographs show actions that must be followed to prevent danger.
The following mandatory pictographs can be used in the operating instructions and on the system:

Pictograph	Safety-related meaning	Pictograph	Safety-related meaning
	General information and user tips!		Read and understand the operating instructions!
	Disconnect from the mains before working on the system!		

Table 3: Mandatory pictographs

General pictographs

General pictographs give additional tips and support and should clarify particular circumstances at the place and location.
The following general pictographs can be used in the operating instructions and on the system:

Pictograph	Meaning	Pictograph	Meaning
	Only designated for operation in closed spaces!		Packaging recycling
	Correct disposal of scrap and operating resources!		

Table 4: General pictographs

2.2 Representation of warning messages

Danger class

Four danger classes are used in the operating instructions to identify dangers for persons and property.
The danger classes are identified by pictographs and signal words. If multiple dangers may appear simultaneously, the warnings are shown separately from each other. In this case, the highest danger class is listed first.

Risk of personal harm

To identify risks of personal harm, the following danger class warnings are used in the operating instructions.

Class		Colour	Risk
	DANGER	Signal red	DANGER identifies a danger, which if not avoided, will result in death or severe injury.
	WARNING	Orange	WARNING identifies a danger, which if not avoided, may result in death or severe injuries.
	CAUTION	Yellow	CAUTION identifies a danger, which if not avoided, may result in injuries.

Table 5: Risk of personal harm

Risk of property damage

To identify risks of property damage, the following danger class is used in the operating instructions.

Class	Colour	Risk
ATTENTION	Blue	ATTENTION identifies action for preventing property damage.

Table 6: Risk of property damage

General note

To give certain content higher significance, it is highlighted as a note as follows:

NOTE

Notes can be placed at the respective position and should highlight information as important!

2.3 General safety instructions

WARNING

Any working methods that might endanger safety must be avoided!
Non-observation of these installation and operating instructions and the safety instructions herein may endanger persons as well as the environment and the JUDO reverse osmosis system itself!

The safety instructions do not take into account

- Random happenings and events that may occur during installation, operating and maintenance,
- Location related safety conditions for the observance of which the operator is responsible, even for contract installation personnel.

WARNING

Unauthorised conversions and changes to the JUDO reverse osmosis system or tampering with device components are forbidden for safety reasons!
Do not perform any changes, make any additions or carry out any conversions that could impair safety without the manufacturer's written approval!
Never remove safety equipment or deactivate it by making changes to the JUDO JRSF reverse osmosis system!
The safety instructions of these installation and operating instructions must be observed without fail!
Only operate the JUDO reverse osmosis system with the caps and covers of all device components correctly closed!
Fault-free operation of the JUDO reverse osmosis system is only ensured if original spare parts and components are used in the combination described in these installation and operating instructions, otherwise there is a risk of malfunctioning or damage!
Only allow authorised technical personnel to carry out repairs!
All work on electrical system components must only be performed by qualified electricians certified according to an approved national scheme!
The electrical system components must be checked regularly!
Loose connections must be tightened immediately and damaged device components immediately replaced!

WARNING

In the event of faults, switch off water and electrical power supplies.

CAUTION

Keep device away from children.

ATTENTION

If the device will not be used for more than 24 hours, switch off the water and electrical power supplies.

NOTE

The installation and operating instructions must always be available at the place of use of the JUDO reverse osmosis system and must be kept in a good, legible state!
Separate installation and operating instructions of system components or other devices and systems must also be observed!

NOTE

All persons involved in installation, commissioning, operation, maintenance and servicing of the JUDO reverse osmosis system must be appropriately qualified and trained and must have carefully read and understood these installation and operating instructions and also any separate installation and operating instructions for other devices and systems or system components!

2.4 Safety instructions for electrical work

DANGER

Electric shock due to working on electrically live components

Death or severe injuries will result.

- Switch off mains voltage prior to work on voltage-carrying components and secure to prevent switching back on!
- All work which may possibly need to be performed while the system is live must only be performed by qualified electricians certified according to an approved national scheme!

ATTENTION

Ensure that electronic or electrical system components are not damaged by splash water for example!

NOTE

Switch off the power supply before working on system components!

2.5 Safety instructions for mechanical operations

CAUTION

Before cleaning, maintenance or repair work ensure that the JUDO reverse osmosis system is hydraulically depressurised!

NOTE

These activities must only be performed by JUDO customer service or corresponding technical personnel, who know and understand the overall system of the device and its environment!

2.6 Product safety

When placed on the market, the product complied with the state of the art in science and technology and the recognised technical safety regulations. The product must be used according to the specifications given under intended use. Residual danger signs and pictographs are attached to danger points on the system. The product must not be changed mechanically or from a safety point of view without the express agreement of JUDO Wasseraufbereitung GmbH. Product changes of this type made by the operator or on its behalf will result in the declaration of conformity becoming void. If the product operator performs or orders such changes, the operator or its agent must re-evaluate the conformity and arrange for a new declaration of conformity.

2.7 Duties of the operator

The operator of the JUDO reverse osmosis system is responsible for the following:

- The product may only be operated by qualified personnel, the qualification must be avouched.
- When operating the product, the information in these operating instructions must be complied with. This applies equally for all components and replaceable modules of the product.
- The applicable laws, directives and regulations must be complied with.
- No conversions or changes to the product can be performed without the agreement of the manufacturer.
- All conversions and changes must be checked and documented from a safety point of view.
- Performance of inspection and instigation of scheduled maintenance at the prescribed intervals (adhere to EN 806-5 and EN 14743).
- Constant availability of the installation and operating instructions.
- Perform regular visual inspection of the JUDO reverse osmosis system according to the conditions of use and the hazard potential to prevent leaks and damage and also check for correct functioning of the system.

3 Product information

3.1 Scope of supply

JUDO reverse osmosis system comprising:

- Reverse osmosis system
- 1 piece each: RO membrane, PP cartridge + activated carbon filter, T33/activated carbon from coconut shells
- Water tap with accessories
- Installation and operating instructions

NOTE

Using your order, check the supplied components for completeness and sound condition!
The product is supplied fully assembled!
Identifiable defects must be reported within a period of 8 days from receipt of goods and any hidden defects within 8 days from their detection!
Upon product delivery, missing parts, as well as missing technical documents or materials, must also be reported within 8 days from receipt of the other goods!

3.1.1 Extended accessories are part of the scope of supply

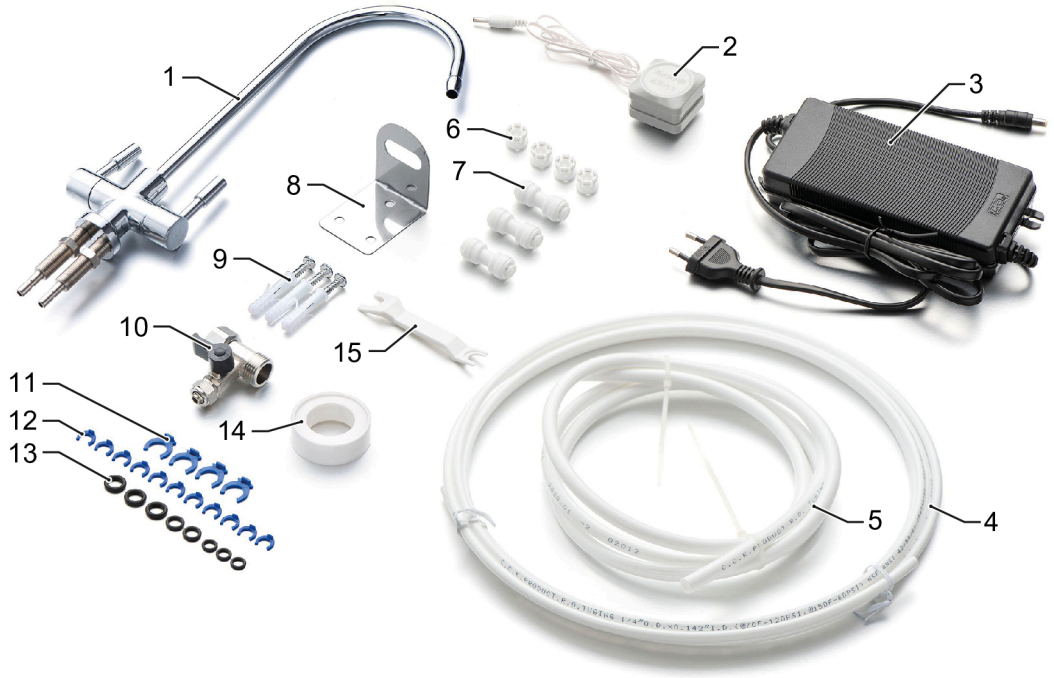


Fig. 1: Extended accessories

1	Water tap	9	Screws with anchor for assembly bracket
2	Leak sensor	10	T-valve water inlet
3	Power supply unit with adapter	11	Locking clips 1/4"
4	PE tube 1/4"	12	Locking clips 3/8"
5	PE tube 3/8"	13	O-ring seal set (1/4", 3/8")
6	Tube clamps	14	Teflon ribbon
7	Quick connector, straight coupling	15	Installation tool
8	Water tap mounting bracket		

3.2 Spare parts

Designation	Order no.
Spare part for membrane cartridge (Bioquell®-PURE)	2470115
Spare part for filter cartridge (Bioquell®-PURE)	2470116
Spare part for T33 filter cartridge (Bioquell®-PURE)	2470119

Table 7: Spare parts

3.3 Functional layout

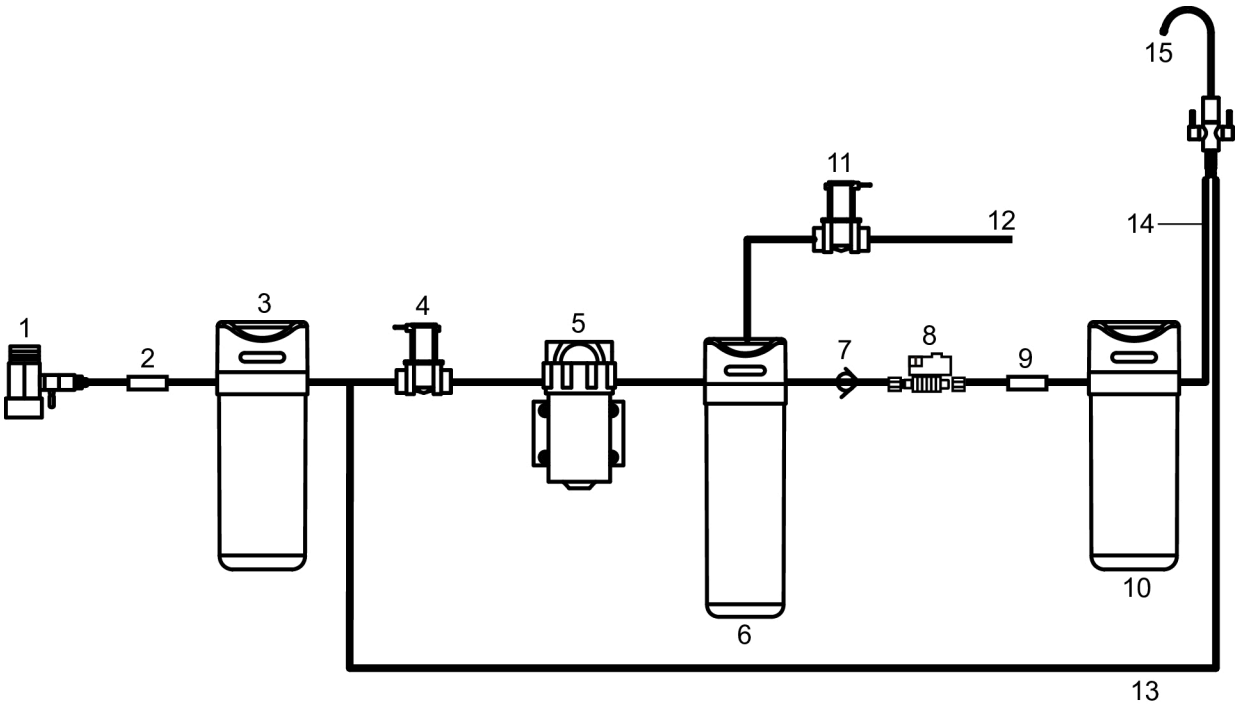


Fig. 2: Functional layout

1	T-valve, water inlet
2	TDS* measuring sensor inlet
3	PP + activated carbon filter cartridge
4	Solenoid valve, water inlet
5	Booster pump
6	RO** membrane cartridge
7	Non-return valve
8	High pressure valve
9	TDS* measuring sensor outlet
10	T33/activated carbon filter from coconut shells
11	Flush valve
12	Waste water
13	Filtered water
14	Desalinated water (permeate)
15	Water tap

3.3.1 Function description

The reverse osmosis system produces pure drinking water from normal tap water in three stages and in doing so removes any unwanted water hardness and nearly all organic water contents and other harmful substances.

Stage 1

The PP + activated carbon filter removes dirt particles, decomposition substances, deposits, sand and other particles to protect the RO membrane.

Stage 2

With a filtration fineness of 0.0001 µm, the reverse osmosis membrane removes bacteria, viruses, medicines and other substances hazardous to health, as well as heavy metals and pesticide residues.

Stage 3

The T33/activated carbon filter removes odours and improves the taste of drinking water.

3.4 Overview

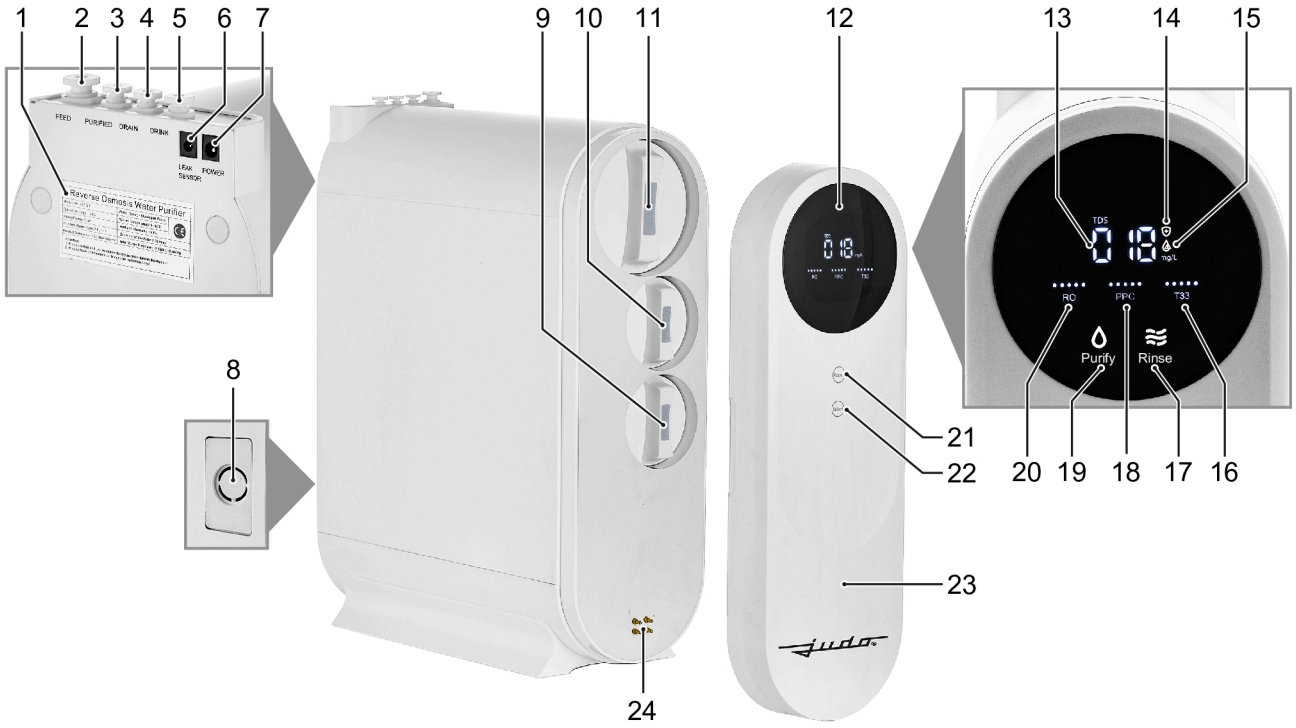


Fig. 3: Overview

1	Type label	13	Output TDS value display
2	Water supply inlet connection (FEED)	14	Leak display
3	Drinking water outlet connection (PURIFIED)	15	Fault display
4	Waste water outlet connection (DRAIN)	16	Residue capacity display, T33 cartridge/activated carbon filter from coconut shells
5	Permeate outlet connection (DRINK)	17	Flush device display (Rinse)
6	Leak sensor el. connection (LEAK SENSOR)	18	PP + activated carbon filter remaining capacity display
7	Power supply unit el. connection (POWER)	19	Clean device display (Purify)
8	Opening, audible signal output	20	RO membrane cartridge residual capacity display
9	Cartridge, T33/activated carbon filter from coconut shells	21	"Reset" key
10	PP cartridge + activated carbon filter	22	"Select" key
11	RO membrane cartridge (reverse osmosis membrane)	23	Device front panel with display and control panel
12	Display	24	Electrical contacts, connection to the device front panel

3.5 Technical data

Performance data			Bioquell-PURE
Permeate flow		[L/min.]	1.3
Filtered water flow		[L/min.]	5*
Cartridge capacity approx.		[L]	4000*
Water pressure		[bar]	1-4
Water temperature		[C°]	+4 ... +30
Electrical data			
Power supply (via adapter)	In	[VAC]	100-240
		[Hz]	50/60
	Out	[VDC]	24
Requirements for the installation site			
Temperature range		[C°]	+4 ... +40
Air humidity		[%]	<90
Dimensions			
Device L/W/H		[mm]	375/142/439

Table 8: Technical data

* The specified performance values are dependent on the water quality and temperature.

4 Connection

NOTE

Installation should only be carried out by JUDO customer service or an authorised specialist company! Separate installation and operating instructions pertaining to other devices, systems and system components must be observed!

NOTE

Check all components for damage before connecting!
Never use damaged components.

NOTE

Note the ambient temperature at the place of installation.
Use the device only if temperature is between +4°C and +40°C!

NOTE

Only designated for operation in closed spaces!

4.1 Conditions for safe connection

- The device is equipped with a booster pump and many only be operated with clean drinking water.
- Only operate using the supplied mains connection adapter.
- The place of installation must be clean, level and solid.
- Protect from direct sunlight, high humidity, high temperatures and explosive substances.
- Do not use unsafe electrical accessories.

DANGER

Do not operate close to flammable and explosive substances.

DANGER

If mounting holes have to be drilled in a wall, first ensure that there are no water pipes, gas pipes or electrical cables in the wall!

4.2 Tube push-fit connector

The supplied PE tubes can be connected to each other without tools using the tube push-fit connectors.

Connecting PE tubes using push-fit connectors

Push-fit connector	▶ Pull off locking clip.	▶ Plug in the PE tube.	▶ Pull the PE tube back slightly.	▶ Push a locking clip into the gap on the mounting ring.

Disconnecting PE tubes from push-fit connectors

Push-fit connector connected	▶ Pull off locking clip.	▶ Pull back the mounting ring and hold.	▶ Pull the PE tube out of the push-fit connector.

1 Locking clip (blue)
2 Mounting ring
3 PE tube insertion
4 PE tube
5 Gap for locking clip.

4.3 Filter cartridge installation

Fig. 4: Installation of filter cartridges

1 RO membrane
2 Cartridge, PP + activated carbon
3 Filter cartridge, T33/activated carbon from coconut shells

- ▶ Remove the cartridges from the transport packaging and take off the protective film.
- ▶ Insert cartridge in the device as shown in the figure, and secure by turning clockwise.

4.4 Water connection

1. Connect the T-valve to the water supply

- Clean the connection point.
- Close the water supply valve.
- Remove the water tap connection.
- Connect the T-valve to the water supply.
- Connect water tap connection at the T-valve.

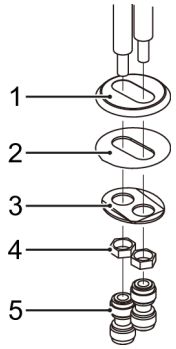
ATTENTION

Always seal screw couplings with PTFE tape or an O-ring seal to prevent leaks.

2. Connecting the water supply line to the device

- Connect one end of the PE tube to the T-valve.
- Connect the other end of the PE tube to the water supply inlet connection (FEED).

3. Water tap installation



- Drill a 29 mm Ø hole at the intended installation location.
  (Alternatively, the water tap can be freely secured with the angle plate)
- Secure the water tap according to the figure.

1	Fixing plate
2	Support pad
3	Oval plate
4	Hexagon nuts
5	Push-fit connector

4. Connect outlet for clean (DRINK) water

- Connect 1/4” push-fit connectors on one side of the connections on the water tap.
- Measure the distance between the connection at the water tap and the PURIFIED outlet.
- Cut a 1/4" PE tube to the correct length.
- Connect PE tube at the PURIFIED outlet and to the push-fit connector.

5. Connecting the drinking water outlet (PURIFIED)

- Connect 1/4” push-fit connectors on the other side of the connections on the water tap.
- Measure the distance between the connection at the water tap and the DRINK outlet.
- Cut a 1/4" PE tube to the correct length.
- Connect PE tube at the DRINK outlet and to the push-fit connector.

6. Connect waste water outlet (DRAIN)

- Connect 1/4” PE tube at the DRAIN outlet.
- Measure the distance between the DRAIN outlet and the connection at the waste water drain.
- Cut a PE tube to the correct length.
- Route PE tube to the waste water drain and connect.
- Secure PE tube appropriately to prevent loosening of the connection at the waste water drain.

7. Filter cartridge rinsing

ATTENTION

Before flushing insert all filter cartridges in the device (see chapter *Filter cartridge installation*)

NOTE

Before flushing, check the electrical connection!
Rinse filter cartridges before first use!

PP + activated carbon filter rinsing

- Open the lever for purified water at the water tap.
- To flush the cartridge, leave the water to run for 10 - 20 minutes until clear water flows out of the water tap.
- Close the lever for purified water.

T33/activated carbon filter rinsing

- Open the lever for drinking water at the water tap.
- To flush the cartridge, leave the water to run for 10 - 20 minutes until clear water flows out of the water tap.
- Close the lever for drinking water.

4.4.1 Initial commissioning

Upon first use, open the water tap and the inlet valve. If water now runs, re-close the water tap for 30 minutes. During this time, check the system for leaks. If there are no leaks, the reverse osmosis system can be used normally.
During normal use, the device remains connected to mains power and water can be requested by opening and closing the water tap.
However, if the device has not been used for a longer period, the filter cartridges must be flushed as described in the chapter *Water connection, step 7*, before its renewed use.

4.5 Electrical connection

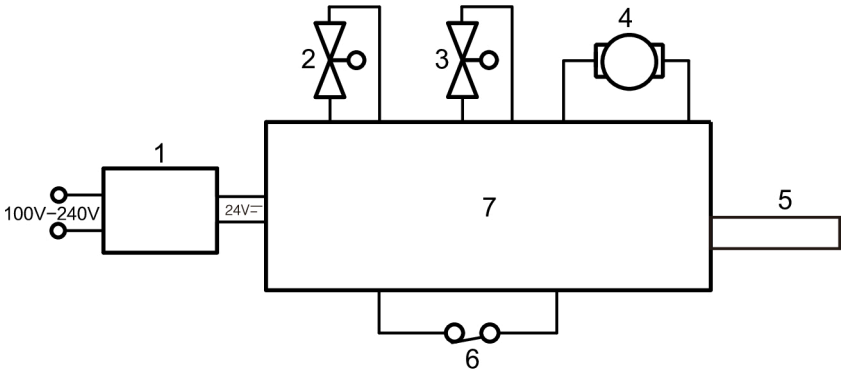


Fig. 5: Circuit diagram

1	Power supply unit	5	TDS* measuring sensor outlet
2	Solenoid valve, water inlet	6	High pressure valve
3	Flush valve	7	Control section
4	Booster pump		* TDS = Total Dissolved Solids

5 Operation

When connecting to main power, the audible signal sounds once and the device enters flushing mode.

The device is equipped with a LED display. All information important for operation is output to the display as follows. See also chapter *Overview, pos. 13 to 20*.

Flushing (Rinse)

An automatic flush is triggered with each renewed connection to mains power.

If the device has not been used for 72 hours, flushing is automatically triggered.

During flushing, the booster pump, the water inlet valve and the waste water outlet are in operation. The flushing process in indicated in the display by a line symbol and the information “Rinse”.

Pressing the “Select" key triggers manual flushing for 30 seconds.

Water filtering (Purify)

Once the water tap is open, the device starts filtering. When doing so, the booster pump and water inlet valve are in operation. The filtering process in indicated in the display by a drop symbol and the information “Purify”.

Leakage

If there is a leak, the sign symbol is shown on the display and an alarm tone sounds for six seconds.

Once the leak has been rectified, the device can be restarted by plugging in the mains cable.

Fault

If filtering or flushing continues for a period 20 minutes, the fault symbol is shown in red on the display and an alarm tone sounds for six seconds.

Once the fault has been rectified, the device can be restarted by plugging in the mains cable.

Service life of filter cartridges

The service life of the individual filter cartridges (RO, PPC, T33) is indicated on the display by a bar comprising 5 illuminated dots. With increasing operating time the number of illuminated dots decreases. Once the last illuminated dot is reached, a 10-second alarm sounds. Thereafter, a further alarm tone sounds three time every half an hour.

Service life of filter cartridges, see chapter *Filter cartridge replacement times*.

Filter cartridge replacement

To replace a filter cartridge, the “Reset" key must be pressed for three seconds during an alarm tone. The system then enters replacement mode. Select the filter cartridge to be replaced by pressing the “Select" key. After selection of the filter cartridge, press the “Reset" key for three seconds until an audible signal sounds.

5.1 Filter cartridge replacement times

Filter cartridge	PP + activated carbon filter	RO membrane cartridge	T33/coconut acti-vated carbon filter
Replacement time*	6 months	18 months	12 months

Table 9: Filter cartridge replacement times

NOTE

*The precise replacement time of the individual filter cartridges is generally dependent on the water quality and temperature in the place of use as well as on the individual use of the device.
The replacement times indicated in the table are approximate values only.

NOTE

Replace the PP + activated carbon filter dependent on the inlet water quality.

If the TDS value in the water increases temporarily, the RO membrane must be replaced sooner.

The T33 filter cartridge is responsible for improving the water quality. If the water quality falls or if the service life of the cartridge has elapsed, the cartridge must be replaced.

5.2 Filter cartridge replacement

NOTE

To achieve an effective and efficient filtering of the water and a uniform high water quality, please exchange the filter cartridges according to the specifications in this manual.

NOTE

Do not replace filter cartridges simultaneously, rather sequentially!
Ensure correct seating when inserting!

NOTE

The replacement times of the filter cartridges vary and depend on location, water quality, time of year and operating time.
Please replace the filter cartridges in accordance with the actual use.

- Close the inlet water T-valve.
- Disconnect the mains connection cable from the mains supply.
- Open the water tap and wait until the residual water has drained away.
- Take the device front panel off the device in a forward direction.
- Take out the corresponding filter cartridge and replace with a new one, as described in chapter *Filter cartridge installation*.

6 Faults

Fault	Cause	Remedy
Water flow low or not existing	PE tube is kinked.	Lay PE tube without kinks
	T-valve inlet is closed	Open T-valve inlet
	Water supply is disconnected	Wait until the water supply is connected
	PP + C filter cartridge clogged	PP + C filter cartridge replacement
	Water pressure too low	Water pressure increase
	Inlet water temperature is lower than necessary	Water temperature increase
Device not working	No power supply	Check power supply
	Mains connection adapter defective	Mains connection adapter replacement
	Water supply low	Check water supply. If the water supply is OK, plug in the mains plug
Water tastes bad	Device has not been used for a long time	Flush the filter cartridges for five minutes. If there is no improvement, replace filter cartridges
	Poor feed water quality	Feed water quality check
	Filter cartridges have not been replaced for a long time	Filter cartridge replacement
Device is noisy during operation	Power and voltage do not match	Request JUDO customer service
	Water inflow too low	Water inflow increase
	Mains connection adapter defective	Request JUDO customer service
	Booster pump defective	Request JUDO customer service

Table 10: Faults

If a fault cannot be rectified based on the information in the related table, contact your JUDO customer service representative or an authorised specialist company.

JUDO customer service addresses can be found on the last page of this manual.

7 Care

ATTENTION

- To clean the device, do not use any soap-containing agents or highly volatile solvents such as thinners, petrol or alcohol.
  The use of these agents can result in cracking of the housing and discolouration.
- Do not submerge device in water.

Only clean the device and accessories with a damp cloth.

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