Palas COMMERCIAL & DOMESTIC



PALLAS ENJOY SMART

POINTS TO BE CONSIDERED BEFORE INSTALLATION OF THE DEVICE

Water treatment system's operating water temperature is between minimum $5^{\circ}C$ ($41^{\circ}F$) and maximum $40^{\circ}C$ ($104^{\circ}F$). It has risk of freezing to operate the device below $5^{\circ}C$ as it carries risk of damage to filters when operated at above $40^{\circ}C$.

It is necessary to select a suitable location first for installation of water treatment device. It must be considered during selection that installation place should be close to cold water line of the RO device and to the drainage and sufficient space should be left for working in case of malfunction and filter replacement.

Water treatment device is designed for water with specifications close to tap water, whose inlet conductivity is max. 600 ppm and the turbidity is max 3 NTU. If raw water source and specifications are unknown, the raw water should be sent for analysis before installation of the device in order to check the suitability.

If the device is used beyond the limit values mentioned in technical specification part of the users' manual, the requested quality will not be achieved for product water. Usage of such feed water will cause variation in replacement periods of filters and membrane.

Inlet pressure is between 3 - 6 bar for water treatment devices without pump and between 1 - 6 bar for water treatment devices with pump. The optimum working pressure is 3 bar. In case the inlet pressure is above 4 bar, it is recommended to install a pressure reducer to prevent more wastewater discharge. Do not connect the device to power socket before it is installed. Our company will not be liable for any problems caused by non-observance of the above warnings.

TREATMENT DEVICE FLOW SCHEME



- 1. PRE-FILTER
- 2. FIRST CARBON
- 3. SEDIMENT FILTER / CTO
- 4. R.O (50-100 GPD)
- 5. SECOND CARBON
- 6. RAW WATER
- 7. PUMP
- 8. WASTEWATER
- 9. STORAGE TANK
- 10. PRESSURE REDUCER
- 11. FAUCET

MANUAL BOX CONTENTS AND ASSEMBLY PARTS



- 1. Reverse Osmosis Device
- 2. Faucet
- 3. 12" Inline Block Carbon Cartridge Filter (CTO)
- 4. 12" Gac Carbon Cartridge Filter (UDF)
- 5. 10" Inline Coconut Post Carbon Filter
- 6. 12" 5 Micron Spun (Sediment) Filter
- 7. 75 GPD Membrane
- 8. 2,2 Gallon Storage Tank

- 9. Metal Ball Valve 1/4"
- 10. 75 GPD Dynamic Pump (available in model with pump)
- 11. 24 Volt 1,5 Amper Adapter (available in model with pump)
- 12. Feed water connection part
- 13. Automatic shut-off valve
- 14. Tube
- 15. Users Manual and Warranty Certificate

DEVICE PROPERTIES

TECHNICIAL SPECIFICATIONS

	WITH PUMP	WITH OUT PUMP
Min. Operating Water Temperature	5 °C	5 °C
Max. Operating Water Temperature	40 °C	40 °C
Min. Inlet Pressure	1 bar	3 bar
Max.InletPressure	6 bar	6 bar
Max.InletTDS(ppm)	500 ppm	500 ppm
InletDiameter	6 mm	6 mm



NOTE: The equipments used in the product are in compliance with Water Quality, CE and NSF standards. The equipments are certified.

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MANUAL INSTALLATION AND ASSEMBLY

HOW TO ASSEMBLE



- 1. Before the installation, turn off the valve of main feedwater line orthe inlet valve
- 2. After draining the remaining water in the pipes, install feedwater connection adapter (3-way adapter) by fastening with teflonband (Figure A-2)
- 3. Install 1/4" metal ball valve on the feedwater connection adapter (3-way adapter) by means of teflon band so as to turn on/off easily (Figure A-3).
- 4 Install 6 mm water inlet tube to the 1/4 "metal ball valve. Note that the hall valve is closed
- 5. Then, turn on the valve of main feedwater line or the inlet valve and check whether there is any leakage.

MOUNTING THE FAUCET

- 1. In case of drilling countertop or sink, faucet for clean water must be installed carefully interms of usage and aesthetics. You can start to drill countertop or sink after leaving enough space for installation of seal. nut and union at the bottom of countertop or sink. Otherwise, you may drill the wrong place.
- 2. If you drill marble, granite ceramic, laminate or sheet metal sink, first you should use 5 mm drilling bit and then 12 mm drilling bit, respectively. The drill must be operated at low speed and without impact. If the counter is covered with tile-coated cast concrete, it must be drilled with a diamond bit. (Figure A-4)
- 3. Outer length of the faucet is 7 cm. If the counter is thicker than 7 cm, you'll need to use fittings as many as required. Finally, place the faucet into the hole, adjust its joints and tighten the nuts.
- 4. Filters should be washed before use to run out residues on them (check washing procedures page).







The images in the manual may not be identical to each other.

NOTE: If you do not want to drill the under counter sink and washbasin, you can also install it by using a single faucet. Contact your authorized service for replacement of the faucet adapter, which you have used, with the three-way one through which hot, cold and purified water flow (Extra charge for the faucet).

3-way adapte Clocod





MANUAL INSTALLATION AND ASSEMBLY

MEMBRANE INSTALLATION

- 12" Inline 5 Micron Spun (Sediment) Filter
- 12" Inline Gac Carbon Cartridge Filter (UDF)
- 12" Inline Block Carbon Cartridge Filter (CTO)
- 75 GPD Membran
- 10" Inline Coconut Post Carbon Filter

• After intalling the filters, unscrew membrane housing cap. Insert the membrane into the housing until it stops. Then, screw the housing cap.

• Cut the tube to a length that will allow to connect the post carbon filter outlet to the faucet after mounting the faucet and drain line.

• Loosen and pull out stem-nut on outlet of the post carbon filter. Put the nut on tube and tighten firmly. Insert the other side of the tube into respectively yellow nut and collet placed under the faucet. Push the tube to the faucet and tighten the nut firmly.



HOSE CONNECTION SCHEME

As shown in figure;

- A: Water inlet
- B: Product water tube is connected to RO faucet.
- C: The tube at the outlet of post carbon is connected to product water line.
- D: The drain tube is connected to wastewater outflow line.



MANUAL INSTALLATION AND ASSEMBLY

START-UP AFTER INSTALLATION

Once you have assembled and installed all the components, turn on the water supply first tocheck for leaks. Then, turn on the faucet slowly. At the first stage, water will run from the faucet slowly. Let it run in this way for 10 minutes. If the waterstarts to drip and do not reach normal flowrate, it probably means that the water pressure isso low that the device cannot perform with 100 % efficiency. If you are experiencing such a problem, see Troubleshooting on page 17.

Now your device is ready for usage, you can enjoy quality water safely.

!! IMPORTANT !!

*During the first few days after installation, air bubbles may be seen in the water.

*Water treatment device will work better and longer when it is used more often. For this reason, we recommend you usethe purified waterfor cooking, preparing tea, coffee etc.

*In case of water leaks, broken filters etc., turn off the valve of water supply and correct the faults.

MAINTENANCE AND CLEANING

REPLACEMENT PERIODS OF CARTRIDGE FILTERS

12" 5 Micron Spun (Sediment) Filter: It should be replaced approximately every 6 months depending on the water contamination.

12" GAC Carbon Cartridge Filter (UDF): If the water is clear and the total amount of chlorine is low, the cartridge life is 6 months on

12" Block Carbon Cartridge Filtre (CTO):

The cartridge life is approximately 6 months depending on the amount of chlorine in the water and replecament periods of pre-filters.

Membrane Filter:

average.

The membrane life is approximately 3 years depending on the regular maintenance.

10" Inline Coconut Post Carbon Filter: The cartridge life is approximately 12 months. If feeding tube is damaged, it should be replaced with a specially prepared tube or tube set supplied by the manufacturer or authorised service.

MAINTENANCE AND CLEANING

INSTALLATION AND REPLACEMENT OF MEMBRANE

- 1. Disconnect the plug from the socket.
- 2. Turn off the water supply valve.
- 3. Turn the Jaco fittings clockwise.

4. Unscrew membrane housing's cap by turning it clockwise.

5. Grasp the membrane with a clamp and pull out.

6. Push new membrane carefully into the housing until it stops.

After installing the membrane, screw the cap and reinsert the tube in the same way. Open RO tap to clean the newly installed membrane filter. Let the system run for 2 hours and the water run out. Then, you can drink the purified water.



The device can be used by the children, who are above 8 years old; physically, sentimentally or mentally disabled persons or people with lack of experience and knowledge on the condition that they are trained or instructed about safe usage of the device and have understood the hazards. The children must not play with the device. The maintenance must not be carried out by the children without observance of an adult.

WASHING PROCEDURES

- Open the tube union of 3rd housing and discharge the water supplied to Sedimentfilter, Activated Carbon filter and BlockCarbon filter. Perform washing for 10 minutes.
- First three filters are washed. If post-carbonand mains pressure are present, mineral filter iswashed with the mains pressure for 10 minutes. Wastewater is discharged from the faucet.
- 3. The membrane filter is pushed in the housing with the O-ring side first and the housing cap is screwed. Water is supplied to the membrane. The water first-supplied to the membrane should be flown out without reaching the tank and the post carbon. The water should be drained for 10 min.

Membrane replacement and housing sanitisation as seen in figures;

- Open drinking water faucet.
- Loose the union of the membrane housing on the water inlet side and disconnect tubing from the housing.
- Unscrew the membrane housing from the cap (with pliers) and displace the used membrane.-Clean the membrane housing with disinfectant (bleach solution) and rinse the housing.
 Wet or wipe the O-ring at the bottom of thenew membrane element for being seated properly.
 Push the membrane into the housing with o-ring side first. Ensure the membrane fit into the housing properly.
- Screw the cap back onto the membrane housing and tighten with hand or the supplied wrench.
- Finally, place the union at the water inlet side of the membrane properly and tighten firmly.

!! ATTENTION !!

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The water first-supplied to the device should be discharged after passing through the filters. It should definitely not contact the tank and post carbon

Do not forget to connect the power plug to the socket in models with pump.

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MAINTENANCE AND CLEANING

REPLACEMENT OF POSTCARBON FILTER

- Turn off the water supply and open drinking water faucet.
- Loose tubing unions at inlet and outlet and discard the used post-carbon.
- Disconnect the union placed at the outlet of the filter. To prevent leaks, apply teflon tape to the T-connector on water supply and install the filter.
- Tighten the tube unions.

WARNING: FLOW marking on the filter shows the direction of the water outlet. Ensure not to insert it backwards and do not over-tighten T-connector and the union on the other side.

The treatment device must not be supplied with hot water. Otherwise, all filters will be damaged and the device will be out of warranty.

Water Treatment Device is designed for easy installation and maintenance. It is essential not to exceed the recommended replacement periods of cartridge filters and to use the deviceproperly. When the required maintenance and repair is not provided, the life span of the device is shortened and the efficiency of the membranes is reduced. Such situations may cause certificate of warranty to be void.

SANITISING DEVICE

The water treatment device should be disinfected at least once a year as follows;

- Turn off the water supply.
- Drain all of the water from the tank by opening the faucet (for the models with tanks).
- Add a teaspoon of chlorine to the filter housing and screw back onto the cap.
- Turn on the water supply.
- Repeat this process for 2 times and replace all cartridge filters (for the models with tanks).



PRECAUTIONS TO USE YOUR DEVICE LONGER;

To ensure that your device functions properly and to prolong the life of the device, the following pointsmust be taken into consideration. Otherwise, the warranty will be voided.

- Do not use with water that has temperature above 40 °C.
- Place or fix the device on a flat surface.
- Do not touch the valves on the device except when necessary.
- It is recommended to install pressure reducer on water inlet of RO device when installation pressure is high. -Ensure that periodical maintenance is performed on time and by the authorized service.
- In case of long periods of non-use, turn off water supply. Follow start-up procedure when you want to re-operate.
- Keep your device clean by wiping with a wet cloth periodically and avoid using harsh and corrosive cleaners.

START-UP AFTER MAINTENANCE

After turning on the valves, turn on the water supply. Open RO faucet and check the entire system for leaks.

Now you can enjoy the quality water safely.



Turn on the mini valve of the water supply as shown in the figure.

TRANSPORTATION AND HANDLING

At first, follow the occupational safety rules.

- Drain the water in the tank before transportation and handling.
- Close the water supply of the tank and if the device model is with pump, disconnect the plug from the socket carefully.
- Demount the device carefully.
- Do not leave your device hanging from a higher place.
- Pay attention to keep the parts in the same place to avoid losing them.
- · Keep the device in a dry and closed place.
- Pay attention not to drop, break, shake, crush the device during transportation and handling. Ensure that it does not get damaged due to heat, humidity or dust. Keep it out of sun exposure.
- You can get support from our authorized services to avoid unexpected damages during transportation and handling.

Supply of Spare Parts Under/Out of Warranty: Warranty period is 2 (two) years from the date of your invoice. You can supply spare parts of this product for 10 (ten) years from the delivery date. The warranty is applicable only to defects in the device and we are not responsible for any other cost. No claim of indemnity can be made under any other name.

WARRANTY CONDITIONS

EXCLUSIONS FROM THIS WARRANTY

The warranty excludes defects caused by the misuse of water treatment device. The consumer should pay attention to the following points;

- Damage and defects caused by the misuse,
- Damage and defects during loading, handling and transportation after the delivery to the customer,
- Low or high voltage, damages and defects due to electrical faults,
- Defects resulting from failure to comply with instructions specified in the users manual,
- Replacements of membrane and filters are out of warranty. They are consumable elements.
- Warranty period of product is 2 (two) years in case of manufacturing defects.
- · Exeeding minimum span for repair of the device.

Damages and defects resulting from the above-mentioned matters are not covered by the warranty and the service can be provided in return of a fee. The responsibility for handing over the warranty certificate to the consumer is of seller, dealer, agent or representative who sells the product.

In the event that the warranty certificate is tampered and altered, the warranty certificate will be invalid.

DAMAGES AND DEFECTS DUE TO THE MISUSE

- Loss of original parts of the device or demounting the parts contrary to the instructions.
- Damages and defects resulting from the factors such as crash, scratch, break etc.
- Damages and defects due to transportation and storage conditions.
- Damages and defects resulting from replacement or damage of electrical cable connections.
- Damages or defects resulting from paint or stain on any part of the product.
- Damages or defects due to sticking any label on the device.

- Damages or defects due to natural disasters.
- Damages or defects resulting from running the device with water below 5oC degrees and above 40oC degrees.
- · Damages or defects due to electric networks.
- Damages or defects due to replacement of parts or materials in the device by any other parties which are not an authorized service.
- Damages or defects due to unknown material found inside the product.
- Problems resulting from failure to comply with installation, operation or maintenance instructions or drawings, or improper installation, operation or maintenance.
- Damages and defects resulting from using non-original spare parts and accessories.
- Damages and defects resulting from running the product without water or inadequate water.
- Damages and defects due to failure to perform periodical maintenance and controls.
- Damages and defects resulting from clogged wastewater drain and running the clogged device.



Defects that are not covered by the warranty will be repaired at our authorized service centers.

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Warranty certificates without dealer's stamp and signature, sales date, brand and model are invalid. The original or photocopy of the invoice must be kept and submitted with the warranty certificate if necessary. Otherwise, the date of manufacture on the device will be deemed as beginning of warranty. The customer cannot claim rights or indemnity other than these undertakings.

TROUBLESHOOTING

Problem	Possible Cause	Action	
THE DEVICE DOES NOT WORK	No water supply	Ceck if water enters the system	
	Faulty connection to power source	Check the electrical connections	
	Damaged adapter	Replace it or contact service	
	Faulty low pressure switch	Replace it or contact service	
NO PRODUCT (PURIFIED) OR WASTE WATER FLOW	Water supply valve is closed	Open the water supply valve	
	Clogged filters	Replace the clogged filters.	
		Replacement of flow restrictor is recommended.	
SLOW OR NO PRODUCT WATER FLOW BUT THERE IS WASTE WATER FLOW	Clogged or exhausted membrane	Replace the membrane	
	Faulty check valve	Replace check valve	
	Faulty storage tank	Replace the tank	
TANK IS FULL BUT THERE IS WASTE WATER FLOW	Too low or high pressure	Pump should be used for water with low pressure as pressure reducer is recommended for water with high pressure.	
	Faulty check valve	Replace check valve	
LEAKS IN DEVICE	Faulty connection	Check all connections	
	Not properly cut edges of tubes	Remove leaking tubes, cut the edges straightly and replace them.	
	Not properly fitted gaskets	Fit the gaskets	
UNPLEASANT ODOR AND TASTE OF PURIFIED WATER	Exhausted cartridge filters	Replace the filters if they are used up for 6 months.	
	Low pH level	Ideal pH level is between 7-8. If lower, ask your service for installing a pH meter. (Not covered by warranty)	
	Bacteria in the device	Disinfect your device	
NO WASTE WATER FLOW	Clogged flow restrictor	Replace flow restrictor	
	Filter maintenance date has expired	Replace filters and membrane element	
SLOWLY FLOW OF PURIFIED WATER FRO FAUCET	Faulty storage tank	Replace the tank	