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Instruction Book of GARDENING PRESSURE FILTER

JAD®

Please read this instruction manual carefully before use, and keep it properly for future reference.

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Thank you for purchasing JAD Gardening Pressure Filter EFU series. In order to safely and correctly use this product, exert its optimal performance and prevent accidents, please read this instruction manual carefully before use, and keep it properly for reference in the future.

Features:

1. Latest technology design, compact structure and perfect performance. Ideal accessories and easy for use.
2. With semiautomatic cleaning system, easy for cleaning and use.
3. Varies of filter materials contained.
4. With build-in UVC fixture. Efficiently kill bacteria and alga and offer good quality water.

Applicable Scope:

Ideal for water filtration process to garden pond, breeding pond, and fish farms etc.

Product specification and technical data:

(please refer to the nameplate)

Cautions:

1. Please read this instruction book carefully before cleaning, maintain, examine and repair, etc.

2. The ultraviolet light in the built-in UV lamp is harmful to your eyes and skin.
3. Please do not operate the UV-C lamp after disassemble the UV-C light fixture or remove the UV-C lamp from the protective casing.
4. Please make sure that the voltage and frequency of power supply are up to the specifications marked on the nameplate of this product. The electricity leakage protection switch must be installed to the power supply circuit when used the device, this residual working current should not exceed 30mA.
5. Please do not use this filter if there is any damaged or failure occurred. Any incorrect use or structural damage may cause the ultraviolet radiation leakage. Even a small dose of ultraviolet radiation may cause harm to your eye and skin.
6. Please disconnect the plug when changed and maintenance.
7. The UV lamp, starter, cable or any relevant electrical problems must be repaired or replaced by professional.
8. Please handle it with care during transportation and installation because the casing is made of plastic and also a glass materials inside. Before use, please make sure all the glass tubes inside are not damaged.
9. The filter shall be installed at the position of which the level is higher than the pond water level. Otherwise , the water may be flowed into the filter

cover or overfill the pressure to result in any damage.

10. The filter can not installed any place which is with high temperature, direct sun exposure. It can not be stacked by heavy subject.
11. Regularly inspect and clean the filter canister and all filter materials inside to reach a good performance.
12. The whole filter unit can not be immersed. When cleaned, the UVC fixture can not be immersed or water washed in order to avoid any electric leakage.
13. The filter can not be used for flammable liquid or corrosive liquid.
14. The water temperature for filter shall be among 5℃~40℃.
15. The max . water pressure for the filter is up to 40Kpa (same as the static pressure of 4m high water column) and the its working water pump shall be with head more than 4 meters.
16. The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
17. Supervise children and make sure they will not take playing the product.

Notice for use:

★ General

1. Please read this instruction book carefully before use, and use this device according to the instruction.
2. Make sure all accessories and parts are in good condition before use.

★ Installation, Connection & Use

1. The water pump and the water hose are not included in the packaging, which shall be ordered as per the client demand independent. The water hose may be one of the types as : 1.5 inches (about 38mm), 1.25 inches (about 32mm) or 1 inch (about 25mm). To select a water pump, please compare with the suitable water flow as per the nameplate of the filter. It can be too big water flow, and its max. head shall not be more than 4 meters. Be sure that the outlet diameter of the pump is adapted to the water hose.
2. At first time used the filter, please refer to the instruction and unlock the filter cover to clean and wash all the filter sponges, bioballs ect. For UVC fixture, it must be only cleaned by soft wet clothes, it can not be washed or immersed. Make sure all the electric parts are not plugged in before cleaning.
3. The filter shall be installed at the position of which the level is higher than the pond water level. Otherwise , the water may be flowed into the filter cover or overfill the pressure to result in any damage

(picture 1).

The canister part can be installed by buried into the ground. Valves are recommended to be used for outlet and inlet pipe connection, which may be also convenient for water adjusting and piping control.

4. The water pump which assort to the filter shall be installed inside the pond, and connect the outlet pipe to the inlet of the filter, and the outlet of the filter is connected with water hose to flow back the water to the pond.

When the water hose 1.5 inches (about 38mm) or 1.25 inches (about 32mm) are selected and used, you can consider cutting down the smaller parts of the outlet and inlet hose tail to increase the diameter of the connector and raise the water flow rate. Make sure all the connecting is perfect, and in order to avoid water leakage, you may use clips to lock the joint part between hose and connector.

It's suggested to supply the water hose longer and leave more space at the area closed to the filter in case you are to move the filter. Valves are recommended to be used to the outlet and inlet pipe connection which may be much more convenient for any future maintenance.

5. The outlet of the filter can be connected by water hose to pump back the water to the pond, and it can not be immersed in order to avoid big negative pressures caused by vacuum by which the water pump can be stopped(picture 1).

When water pipe is used, please make sure the inner diameter of the outlet pipe is close to the outlet diameter of the filter (it can not smaller than the inner diameter of the inlet pipe) It's also suggested to separate the inlet end and the outlet end at 2 different sides or at opposite position to reach the high effect of flowing cycling.

6. When all connections are finished, you may turn the valve of RUN-CLEAN to be the position of RUN(picture 2) , then the filter is under a working status. Meanwhile, you may check whether the filter lock ring is fixed tight and the piping is connected properly. After that you may switch on the water

pump and start pumping the water to the filter for working.

7. In case the water pump is working properly and no any water leakaging on the piping connection, then you could switch on the UVC lamp.
8. Observe its working condition for 30 minutes to make sure all are under proper status. Any faults or usual , please shut down the electricity and make sure all are fixed and solved before use.

★ Filter Cleaning.

1. After used the filter for some period, sewages may be come into the filter internal from the water pump and gather at the filter sponge which may block the water flow. The warning core may be raised when the filter internal are blocked by sewages, then it's a must to clean the filter , or find out whether it's the reason caused by the water pump as it's too powerful. It's suggested to clean the filter one time in every month.
2. Semi-automatic cleaning process: firstly unplug the UVC lamp and the water pump to switch them off. Turn the valve of RUN-CLEAN to be "CLEAN"(picture 3) , then it's under the CLEAN status.

If all water hose, valves and connectors are preset already, you just need to turn on the valve for cleaning. If not, you may need to take off the cover of the washing outlet and connect a water hose for cleaning need.

Install the rotating handle to the filter cover(picture 6-7) , and then switch on the water pump, meanwhile rotate the handle to clean the filter.

Observe the status of the sewages from the water cleaned out, once the sewages are getting less and the water is clear, you may switch off the water pump and turn off the washing valve. Turn the valve of RUN-CLEAN to be RUN (picture 2) . Once all are finished , you may plug them on and observe for 30 minutes to make sure all are under proper status.

3. When it is used over 1 year, or too much dirt inside the filter, the cleaning function may not take out the dirt completely, then the manual cleaning to the internal parts shall be guided. Before cleaning, please unplug the UVC lamp and the water, and switch off the power.

You can also consider disconnecting the water pipes and water hoses for an easy cleaning process.

Please refer to the drawing 8-17, remove leftwards

the clip of the locking rings (picture 8) and press inwards the connector meanwhile push out the connector rightwards (picture 9), then it is separated and you can take off the lock ring(picture 10). Hold the canister and pull upwards the filter cover and the filter sponge fixture(picture 11-13). Pull out the shield under the mounting plate(picture 14) and screws out 2 screws on the mounting plate(picture 15), then you can disassemble the whole filter sponge fixture (picture 16). Then you can dismiss the filter sponges and the holder by screwing out 2 screws on the plate（picture 17).

The canister inside parts, filter sponges and bioballs can be cleaned and washed, either immersed or washed, but for the filter cover (with UVC fixture) can be only cleaned by wet soft clothes, it can not be immersed or washed.

All the parts must be installed to the normal position after cleaned. The sealing ring between the canister and the cover shall be installed at the opening part of the canister (picture 18). and then press the cover (including the filter fixture) to the canister

downwards. After than you may fix the clamp ring by inserting the A part to its B part, and make sure it is inserted as deep as possible. Finally remove inwards the locking part to the base and make sure it's clocked on the locking base.

4. The incrustation on the surface of the quartz glass tube may effect the performance of the uvc light. In case semi-automatic cleaning , process can get rid of the incrustion, in order to avoid any water leakage the glass tube is not suggested to be disassembled and cleaned so often.

Pull out the shield under the mounting plate(picture 19), and if there are too many incrustions inside the quartz glass tube, plese disassemble the UVC fixture and clean it.

5. When cleaning, unplug the UVC and the water pump, turn off the power. Referred to the following drawings, pry valve cover plate of CLEAN-RUN and pull it out (picture 20-21). Screw out 3 screws under the cover plate and take down the filter top cover (picture 22). Then screw out 5 screws on the pressing cover (picture 23) and after screw out 4

screws on the UVC fixture (picture 24), finally screw out 3 screws on the UVC fixture (picture 25). After that pull upwards the UVC fixture (picture 26). You may use any soft wet clothes to clean the quartz glass tube. After cleaned, please install them back to the same position. Be reminded that upper electric parts of the UVC fixture can not be immersed in case any electric leakage. And meanwhile the UVC lamp can not be turned on after disassembled, otherwise, it can hurt your eyes and skin.

screw
screw
screw