

# *Pond***MAX**

WATERGARDENING TO THE MAX

## **ALL IN ONE SF650**

INSTRUCTION MANUAL



DATE  
SEPT 2022

**888.868.1185**

MODEL  
23PF312

## CONGRATULATIONS ON YOUR PURCHASE OF THIS PRODUCT BY PONDMAX, THE ANSWERS FOR YOUR WATER GARDEN MADE EASY.

### TECHNICAL SPECIFICATIONS

Voltage	Power Consumption*	UV Clarifier Power	Max Head	Water Flow	IP Rating Pump & UVC	Cord Length	Outlet Thread Size
120V	57W	13W	8 Ft	660 GPH	IP68	30 Ft	1/2 Inch

\* SUBJECT TO VARIATION ACCORDING TO LOAD.

### BENEFITS

The PondMAX All in One SF650 Complete Pond and Filter System is designed to clean pond and water feature water utilizing the latest advanced technology.

- Mechanical & Biological Filtration
- 13W Ultraviolet Clarifier for green water clarification.
- Powerful 660 GPH pump with wear resistant ceramic bearings.
- Dual Flow Control T-Piece
- Multiple fountain nozzles help aeration of water



### IMPORTANT SAFEGUARDS

Please read the operating instructions and familiarize yourself with the equipment before placing it in service. Correct and safe use of the system requires strict compliance with the safety instructions. For safety reasons persons less than 16 years of age, or infirm persons, or pets, or people that are not familiar with these instructions should not use this equipment.

Any damage of the equipment or unmerited operation will bring dangerous UV Rays to the skin and eyes. So if there is any damage of the equipment, it must not to be used. The equipment should be placed out of reach of children.

- For your own safety, disconnect from the power supply before any maintenance of any equipment is attempted on the tank or water body.
- Be sure the equipment is submerged completely in the water. The depth should not be greater than 3ft.
- Do not operate the pump if the appliance or any components of the system, such as the power cable, have been damaged.
- Always use a properly grounded power supply that is protected with a ground fault circuit interrupter (GFCI)
- The drip loop method should be used to prevent water from traveling down the cable and onto the plug or power supply. If the plug does get wet, do not unplug the cable. Disconnect the circuit breaker that supplies power to the power supply point. Then unplug and examine the plug and power supply point for presence of water. If the power point has become wet, you should consult an electrician before using the power point again.
- Always use care when placing and removing the unit

in the pond. DO NOT USE THE FOUNTAIN NOZZLE STAND PIPE TO LIFT THE FILTER. This will effectively damage the outlet pipe.

- Always unplug the pump from the power supply when not in use or before performing any maintenance on the pump or in the pond. Never pull the cable to disconnect the plug from the power supply. Grasp the plug and pull to disconnect.
- Always unplug the appliance from the power supply when not in use or before performing any maintenance.
- If required, have a qualified electrician install a weatherproof power supply point near to the pond or water-feature (within the cable length of the appliance).
- Do not install or store the appliance where it will be exposed to extreme hot or cold temperatures. Do not use in water above 95°F(35°C).
- Do not cut the cable as this will result in voiding your warranty.
- Care should be taken to arrange the power cable so that it cannot be accidentally tripped over or pulled.
- Do not attempt to repair the electrical appliance yourself. Return to an authorized service center or place of purchase if a fault occurs, (regular maintenance is not considered repair and is required by user).

# ALL IN ONE SF650

## PRODUCT SPECIFIC SAFEGUARDS

- Do not look at an unshielded UVC lamp. Ultraviolet light is harmful to your eyes and may cause blindness. Do not operate UV Lamp out of the housing.
- As the UV Clarifier Lamp is made of quartz glass, please avoid sudden jolts, as this will break the quartz.
- In cold temperatures where frost or freezing may occur, please cease to use the unit. Remove from the environment. Frozen water will crack the Quartz glass sleeve.

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## INSTALLATION

Once a fountain nozzle has been selected, assemble the fountain kit as per the attached diagram. Screw the T-piece onto the pump outlet and adjust the telescopic riser to the desired height and align vertically. On the Dual-control flow adjuster, on the T-piece, you can vary the flow between the fountain head and the waterfall outlet. Close the second outlet of the T-piece if this is not required for an optional waterfall.

Lower the filter into the water slowly allowing it to fill with water. Take care to not hold the fountain by the stand pipe. Position the device in the pond horizontally, on a solid base, free from sludge, in such a way that it is fully covered with water and the fountain kit protruding out of the water.

Insert the plug into a GFCI protected 120 volt outlet. Ensure the connection is protected from any moisture.

**Note: Use the power supply switch for turning the unit on and off.**

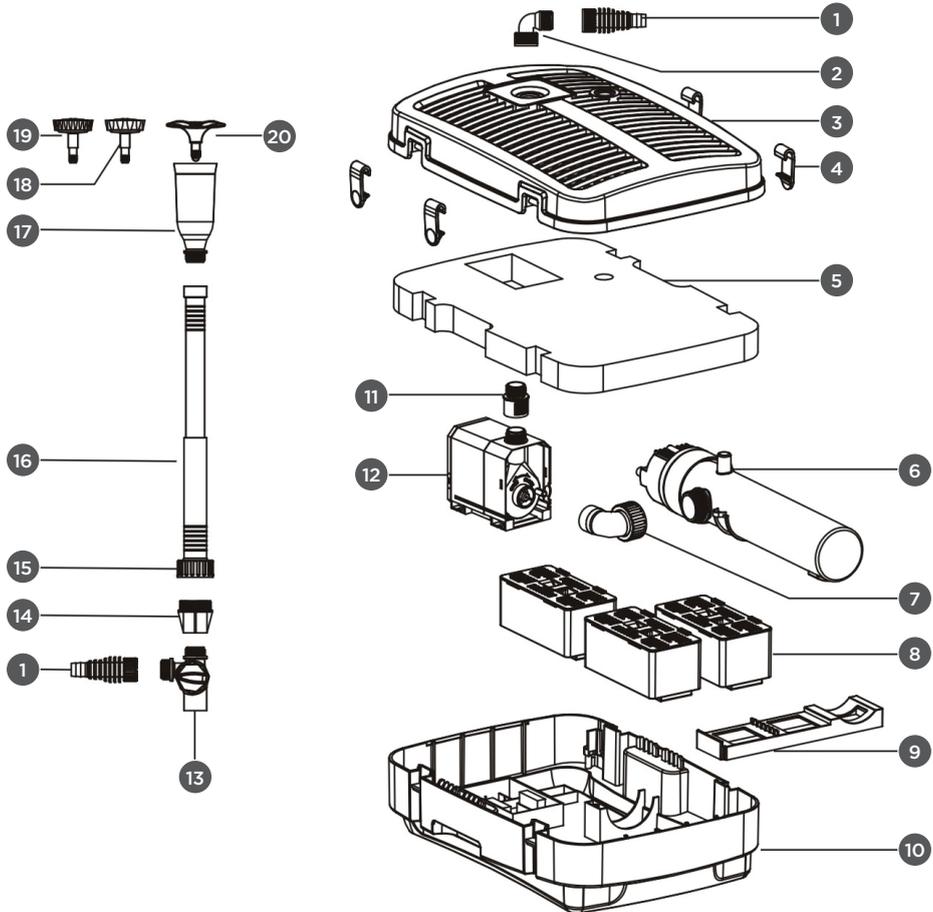
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## CLEANING INSTRUCTIONS

**Begin by ensuring that the main power supply is disconnected before attempting any maintenance or adjustment of the unit. Remove the unit from the water. (Take care to no lift the unit by the fountain nozzle.) The filters and sponges in this unit will clog over time. Please clean regularly (at least once a month) to ensure strong water flow. Failure to maintain the unit will result in a burnt out motor and other damage.**

- Take off the fountain set first, and then open the 4 clips on the side of the filter cover.
- Take out the filter sponge and filter media boxes and clean. It is recommended that this is done in a bucket of pond water to ensure the good bacteria are not killed by the chlorine in tap water. Check for wear and tear of the sponge and replace if necessary.
- Maintain the filter sponge regularly according to how quickly the sponge gets clogged up. When the flow starts to get reduced, check and clean if necessary.
- You can help boost the biological function of your filter with a bacterial additive, available from your local dealer.
- The UV lamp should be replaced regularly at the end of its design life. This is approximately 12 months of use. To take out the UV clarifier lamp, first remove the whole pump and UV unit from the base of the filter by remove the two screws holding them in place. Open the safety catch on the side of the casing and turn the UV Clarifier casing in anti-clockwise direction to the stop position. Then slide the the casing and quartz glass lamp off of the lamp and transformer. Now you can change your UV lamp. Take care when replacing the lamp to not touch the new lamp with your bare hands. Use the box or some paper to handle the lamp and avoid getting skin oils on the new lamp.
- Dirt on the Quartz glass sleeve will influence the efficiencies of the UV Clarifier. Please remove and clean regularly. To clean the quartz glass sleeve, take the quartz sleeve assembly out by pulling the locking nut (No. 4 Fig. 3) out of the casing. The Locking nut and sleeve are held into place in the casing by the compression of the o-ring so it may be tight at first. Use caution to not break the glass. Once it is out of the casing you can then clean the glass using non toxic products (vinegar) and a scrubber.
- To maintain the impeller of the pump, turn the impeller cover in an anti-clockwise direction to the stop position, and then you can separate the impeller cover and pump body. Take out the impeller, clean it with clean water and suitable brush. Inspect for signs for ware. Replace if necessary.
- Once the cleaning and inspection process is completed, reassemble in the reverse manner. The pump suction elbow is pushed firmly onto the impeller cover inlet of the pump. Pay attention to the UV clarifier casing when inserting it back together. The inspection hole needs to be positioned upwards towards the lid.

## COMPLETE SYSTEM (FIG. 1)



- |   |                                  |    |                                       |    |                                    |
|---|----------------------------------|----|---------------------------------------|----|------------------------------------|
| 1 | Hose tail - 1/2 Inch Barb to 1/2 | 8  | Pump Suction Elbow                    | 15 | Riser to T-piece Adaptor           |
| 2 | Inch BSP                         | 9  | Filter Media Cassett (x3)             | 16 | Extendable Riser Locking Nut       |
| 3 | Elbow - 1/2 Inch to 1/2 Inch BSP | 10 | Filter Media Cassett's Mounting Plate | 17 | Extendable Riser                   |
| 4 | Top Filter Cover                 | 11 | All-in-One Filter Base                | 18 | Fountain Nozzle Mount              |
| 5 | Filter cover clips (x4)          | 12 | 1/2 inch Pump Threaded Adaptor        | 19 | Fountain Head (Fine Daisy Nozzle)  |
| 6 | Blue Filter Sponge               | 13 | Water Pump                            | 20 | Fountain Head (Corse Daisy Nozzle) |
| 7 | UV Clarifier unit                | 14 | Dual Control T-piece Adaptor          |    | Fountain Head (Bell Nozzle)        |

# ALL IN ONE SF650

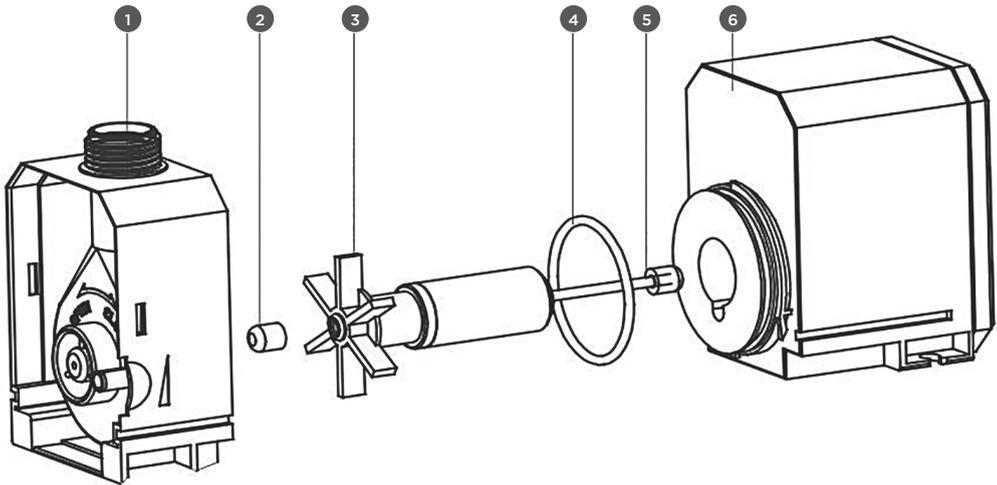
## PUMP (FIG. 2)

- 1 Impeller Cover
- 2 Rubber Grommet
- 3 Impeller
- 4 O-Ring
- 5 Ceramic Impeller Shaft
- 6 Pump Motor Body



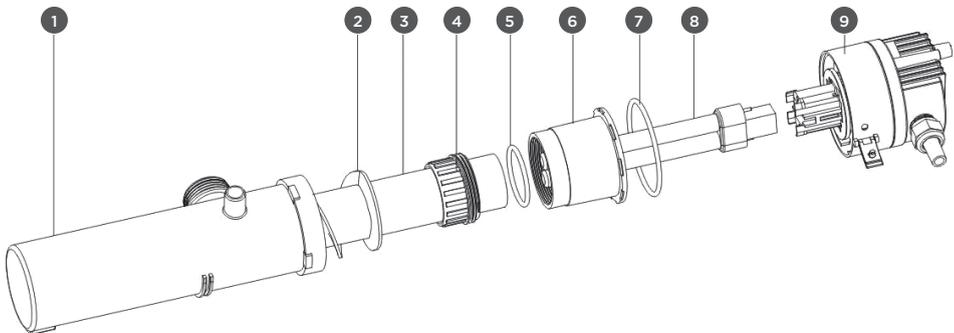
## IMPORTANT

These accessories and attachments are recommended for use with your PondMAX product specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use the accessory or attachment for its stated purpose.



## UVC LAMP (FIG. 3)

- 1 UV Light Casing
- 2 Water Flow Spiral
- 3 Quartz Glass Sleeve
- 4 Quartz Sleeve Locking Nut
- 5 45mm x 4mm O-Ring
- 6 Plastic Quartz Sleeve Holder
- 7 60mm x 3.1mm O-Ring
- 8 13W UVC Lamp
- 9 UVC Transformer with Cable



## TROUBLESHOOTING

Problem	Reason	Solution
Water Pump Not Working	No Power	Check that the plug is connected and turned on
	Sponges and filter media blocked with sludge	Clean the sponges and filters
	Impeller is blocked with sludge or limescale	Clean the Impeller as per the instructions
	Running without sufficient water	Submerge the equipment underwater then plug in. Refill if necessary.
	Water valve closed on the outlet	Open the valve and allow water to flow
	Blocked Impeller chamber or ceramic shaft is broken	Clean the Impeller. Check for ware. Replace if necessary.
Water Pump is noisy	Blockage in pump	Clear the blockage
	Impeller & Shaft worn out	Replace Impeller & Shaft
	Unit inlet is blocked or the water pump inlet is blocked	Clear all blockages
UVC Lamp not working	UVC Lamp blown or Quartz Sleeve broken	Replace as necessary
	Connection of the UVC Lamp not sufficient	Push UV Lamp in firmly until you hear a click sound
Tripping GFCI	Water entering the Quartz Tube	Replace the broken glass tube or bad O-ring

## SPARE PARTS (NOTE: THESE ARE THE MOST USED)

Description	Product Code
PondMAX SF650 Impeller Assembly	31PF042
PondMAX SF650 UVC O-ring Kit	31PF041
PondMAX SF650 Quartz Glass Sleeve	31PF040
PondMAX SF650 Sponge Filter	31PF000
PondMAX SF650 Complete Fountain Kit	31PF004
13W Low Voltage UV Bulb - Pondmax	31PS282



## LIMITED PRODUCT WARRANTY

- CMT Group LLC, a California limited liability company d/b/a PondMAX™ USA (the "Company") expressly warrants to the original purchaser that, for a period of one (1) years from the date of sale, the covered product (the "Product") will be reasonably free of defects in materials and workmanship and that when properly handled, will conform, within accepted tolerance to applicable manufacturing specifications. This Limited Product Warranty ("Limited Warranty") only applies to Company's Products that are used, stored, handled, and installed in the manner recommended by the Company in the Product instruction manual.
- Notwithstanding this Limited Warranty, customer acknowledges that some parts of the Product are consumable and may need to be replaced as part of ongoing Product maintenance, as recommended in the Product instruction manual, and are therefore not covered by this Limited Warranty.
- Company will, at its option, repair or replace Product without charge, if the Product fails or does perform as warranted solely due to a manufacturing defect within the warranty period, subject to the exclusions set forth in this Limited Warranty.
- Repair or replacement during this one (1) year warranty shall not include: reasonable labor charges necessary to repair or replace the defective Product, shipping costs, and packing and insurance costs. During the entire one (1) year warranty, Company's obligation as to repair or replacement shall further be limited to repair or replacement with the models of the Product that are available at the time of the repair or replacement, and shall be limited to the repair or replacement of only the specific Product that fails due to a manufacturing defect. Any repaired or replaced Product shall also remain subject to the original one (1) year warranty from the date of the original sale, and any repair or replacement shall not extend the original warranty period in any manner or start a new warranty period.
- You may obtain coverage under this Limited Warranty by providing Company with proof of original purchase. For service under this Limited Warranty, you must first contact the seller, distributor, retailer, or dealer from whom you purchased the Product and provide the following: copy of original receipt, your name and address, a description of the Product (including the serial number/date code set forth on the Product), and the nature of the defect. To expedite any warranty claims and processing, please submit to us the product registration card included with your purchased Product promptly after your purchase.
- All warranty repairs must be performed by the Company, or a Company authorized third-party. Any repairs performed by you or an unauthorized third-party will not be compensated by Company and are not the responsibility of the Company and will void this warranty.
- **DISCLAIMER OF WARRANTIES:** Company's Products must be stored, handled, installed, used, and maintained in accordance with instructions provided by Company, and this Limited Warranty is conditioned upon compliance with all such instructions. Copies of the Company's use guide/care guide are included with the Product and available from the Company at the address listed below. You may also obtain these materials by contacting Company at (888) 868-1185 or on the Company's website [www.pondmax.com](http://www.pondmax.com).
- This Limited Warranty does not cover defects caused by:
  - non-compliance with Company's use guides, care guides, and/or instruction manual. Such failures include, but are not limited to, exposure to physical abuse, including, but not limited to chemical abuse (e.g. harsh cleansers and solvents), thermal abuse or shock (e.g. excessive heat or cold), incompatibility of fluid used near the Product, or misuse;
  - improper storage, installation, handling, and/or use of the Product;
  - damage not resulting from manufacturing defects that occur while the Product is in the customer's possession;
  - unreasonable or unintended use of Product;
  - products installed with known or visible manufacturing defects at the time of installation;
  - minor conditions such as stains, scratches, etc.
- Any information or suggestion by Company with respect to the Products concerning applications, specifications, or compliance with codes and standards is provided solely for your convenient reference and are made without any representation as to accuracy or suitability. You must verify and test the suitability of any information with respect to the Products for your specific application.
- **THE WARRANTIES SET FORTH IN THIS LIMITED WARRANTY ARE THE ONLY WARRANTIES MADE BY COMPANY IN CONNECTION WITH THE PRODUCT. COMPANY CAN NOT AND DOES NOT MAKE ANY IMPLIED OR EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, AND DISCLAIMS ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PRODUCTS SOLD BY COMPANY ARE SOLD ONLY TO THE SPECIFICATIONS SPECIFICALLY SET FORTH BY COMPANY IN WRITING. OTHER THAN THE LIMITED WARRANTY SET FORTH HEREIN, COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE REPAIR OR REPLACEMENT OF NON-CONFORMING PRODUCTS. BUYER ASSUMES ALL RISK WHATSOEVER AS TO THE RESULT OF THE USE OF THE PRODUCTS PURCHASED, WHETHER USED SINGULARLY OR IN COMBINATION WITH ANY OTHER PRODUCTS OR SUBSTANCES.**
- **LIMITATION OF LIABILITY:** No claim by the buyer/owner of any kind, including claims for indemnification, shall be greater in amount than the purchase price of the Product in respect to which damages are claimed. IN NO EVENT SHALL COMPANY BE LIABLE TO BUYER/OWNER IN TORT, CONTRACT OR OTHERWISE, FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, RELIANCE, STATUTORY, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF USE, LOSS OF TIME, LOSS OF REVENUES, INCONVENIENCE, LOSS BUSINESS OPPORTUNITIES, DAMAGE TO GOOD WILL OR REPUTATION, OR LOSS OF DATA, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR SUCH DAMAGES COULD HAVE BEEN REASONABLY FORESEEN, IN CONNECTION WITH, ARISING OUT OF, OR AS A RESULT OF, THE SALE, DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCT SOLD HEREUNDER, OR FOR ANY LIABILITY OF BUYER TO ANY THIRD PARTY WITH RESPECT THERETO.
- All provisions of this Limited Warranty are severable and if any provision shall be deemed invalid, the remaining provisions shall remain in full force and effect.
- Please consult your retailer for quality original Company replacement parts.
- Visit [www.pondmax.com](http://www.pondmax.com) for your nearest dealer.
- Contact Information:
  - Any question concerning this warranty should be addressed to:  
PondMAX USA  
P.O. Box, 341  
San Leandro, CA 94577  
Phone: 888.868.1185  
Email: [info@pondmax.com](mailto:info@pondmax.com)  
Website address: <https://pondmax.com>