SKYBLADE® FAN CO.
Where Form Follows Function

# Swampness Monster

## 36"PRO
## PORTABLE EVAPORATIVE
## COOLING SYSTEM

# USER'S MANUAL

Intertek

# CONTENTS



The Swampness Monster Evaporative Cooling System reduces air temperature by drawing warm ambient air across a water-soaked surface (the cooling pads), evaporating the water and dissipating the heat it has absorbed. Simple controls make the unit easy to operate, and the overall design permits straightforward cleaning and maintenance. Casters allow the unit to be moved by hand and set up anywhere with proper water and power supplies.

# 1 WARNINGS

**READ AND SAVE THESE INSTRUCTIONS.**
A printable, electronic version is available online at skybladefans.com.

## ⚠ WARNING/ AVERTISSEMENT

Whenever water and electricity are combined in the same enclosed environment the possibility of electric shock exists. This unit must only be plugged into a three conductor, grounded GFI (Ground Fault Interrupt), power source.

Do not open the unit with power applied to the unit.

Do not place the unit on a slope or where it can accidentally fall or roll into water.

Wiring and connections must comply with all national and local electrical codes.

Installation by qualified electrician required!

## ⚠ WARNING/ AVERTISSEMENT

**Hazardous rotating fan blade.**

Do not place fingers, arms, or other appendages into the path of the blade, or operate the machine without the guards in place.

Use caution when handling sharp metal.

## ⚠ WARNING/ AVERTISSEMENT

Once per month, inspect the internals of the Swampness Monster for signs of electrical insulation breakdown. Check the seal at the motor, as any holes may allow water to come in contact with open electrical circuits.

Do not operate any fan with a damaged cord or plug. Discard fan or return to an authorized service facility for examination and/or repair.

Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.

## ⚠ WARNING/ AVERTISSEMENT

**Heavy Appliance!**

When installing wheels, provide adequate support to maintain balance of appliance!

Do not place the unit on a slope or where the unit can accidentally fall or roll into water. The lockable wheels provide resistance to movement although do not prevent movement or turn-over.

# 2 LIMITED WARRANTY

All products are warranted to be free from defects in material and workmanship for a period of one year from the date of purchase if installed and used in strict accordance with the installation instructions. Liability is limited to the sale price of any products proved to be defective or, at manufacturer's option, to the replacement of such products upon their return. No products are to be returned to the manufacturer, until there is an inspection and/or a return-goods authorization (RGA) number is issued.

All complaints should be directed first to the authorized distributor who sold the product. If satisfaction is not obtained or the name of the distributor is not known, write the manufacturer that appears below, directed to the attention of Customer Service Manager.

This limited warranty is expressly in lieu of any and all representations and warranties expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose. The remedy set forth in this limited warranty shall be the exclusive remedy available to any person. No person has authority to bind the manufacturer to any representation or warranty other than this limited warranty. The manufacturer shall not be liable for any consequential damages resulting from the use of our products or caused by any defect, failure or malfunction of our products (Some areas do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.)

This warranty gives you specific legal rights and you may also have other rights that vary from area to area.

**Warrantor:**

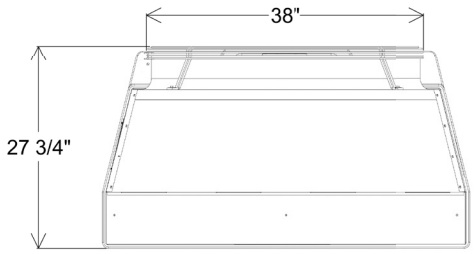
SkyBlade Fan Company
24501 Hoover Road
Warren, MI 48089 USA
Telephone: 1.586.806.5107
Fax: 1.586.806.5109
E-Mail: sales@skybladefans.com

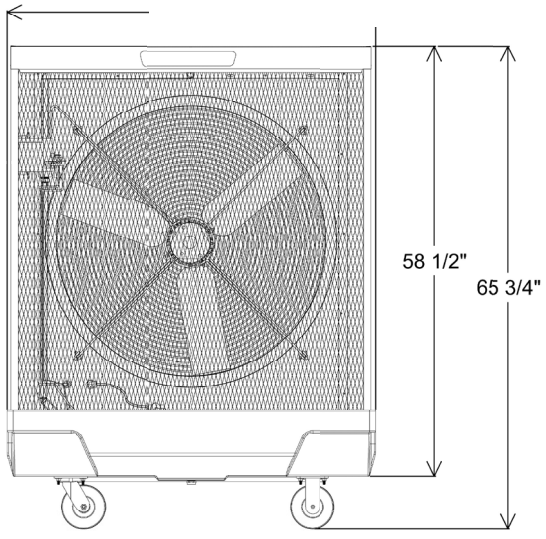
# 3 TECHNICAL SPECIFICATIONS

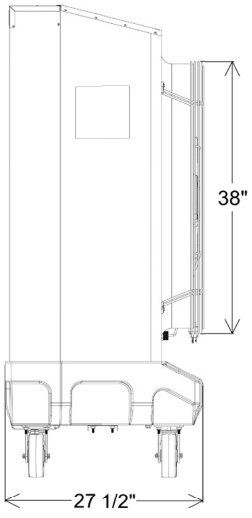
## 3.1 Technical Specifications

| | | | |
|---|---|---|---|
| **Unit Dimensions** | 51" W x 66" H x 29" D | **Low-water Shutoff** | Equipped |
| **Unit Weight** | 198 lbs (Empty); 515 lbs (Full) | **Cooling Media (x4)** | CELdek: 12" W x 48" H x 6" D |
| **Shipping Dimensions** | 55" W x 74" H x 32" D | **Cooling Media Area** | 16 $ft^2$ |
| **Shipping Weight** | 314 lbs | **Cooling Media Volume** | 8 $ft^3$ |
| **Drive Type** | Direct | **Casters** | 4 (2 Fixed; 2 Swivel with Locks) |
| **Speeds** | 10 | **Caster Wheel Size** | 6" |
| **Water Consumption*** | 12 Gallons per Hour | **Water Output** | Adjustable |
| **Reservoir Volume** | 38 Gallons | **Power Cord** | 20'; 120VAC; GFCI-protected |
| **Power Consumption** | 10A at 115V; 60 Hz | **Cord Wrapping Bracket** | Front of Unit |
| **Cooling Area** | 3,200 $ft^2$ | **Water Inlet Adapter** | 3/4" Garden Hose |
| **Current** | 8.5A | **Drain Outlet Adapter** | 3/4" Garden Hose |
| **Typical Air Movement†** | 10,000 CFM | **UL Certification** | UL 507 |

*Assuming space is ≥ 90°F. Lower temperatures will result in less water usage.
†Depending on relative humidity, temperature, and area being cooled.



# 4 PREPARATION AND INSTALLATION

## ⚠ WARNING/ AVERTISSEMENT

**Swampness Monster Appliance Is Heavy!**

When installing wheels, provide adequate support to maintain balance of appliance!

Do not place the unit on a slope or where the unit can accidentally fall or roll into water.

The lockable wheels provide resistance to movement although do not prevent movement or turn-over.

Carefully unpack the Swampness Monster from the shipping carton.

### 4.1 Float Valve Preparation

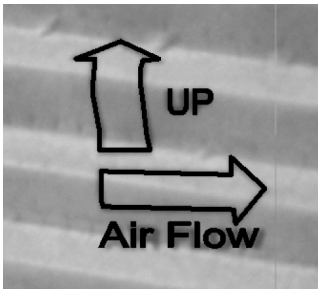
**1.** Remove the screws from the sides of the lid, then set them aside.

**2.** Lift the lid to access the cooling pads.

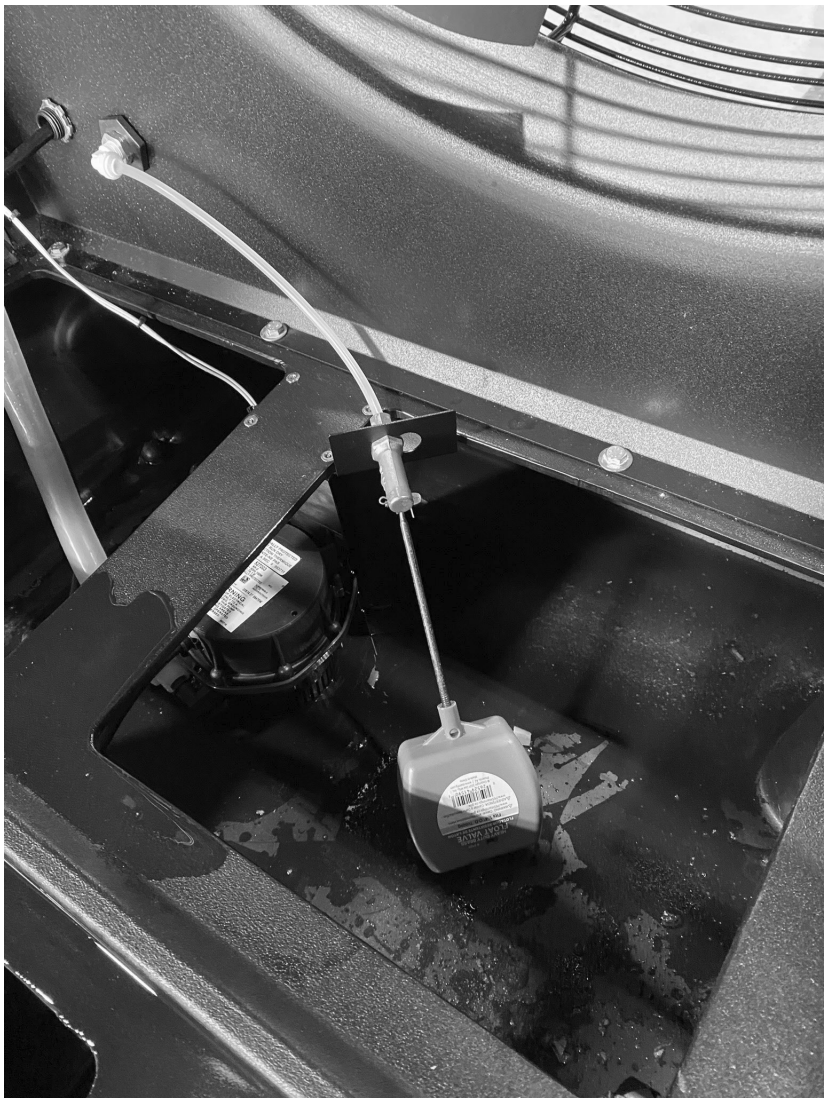
**3.** Remove cooling pads.

**4.** Remove tape while holding the float valve in place. Be careful not to bend the float valve arm.

**5.** Reinstall the cooling pads, ensuring the "UP" and "Air Flow" arrows are oriented properly.




**6.** Close the lid, then reinstall the screws.



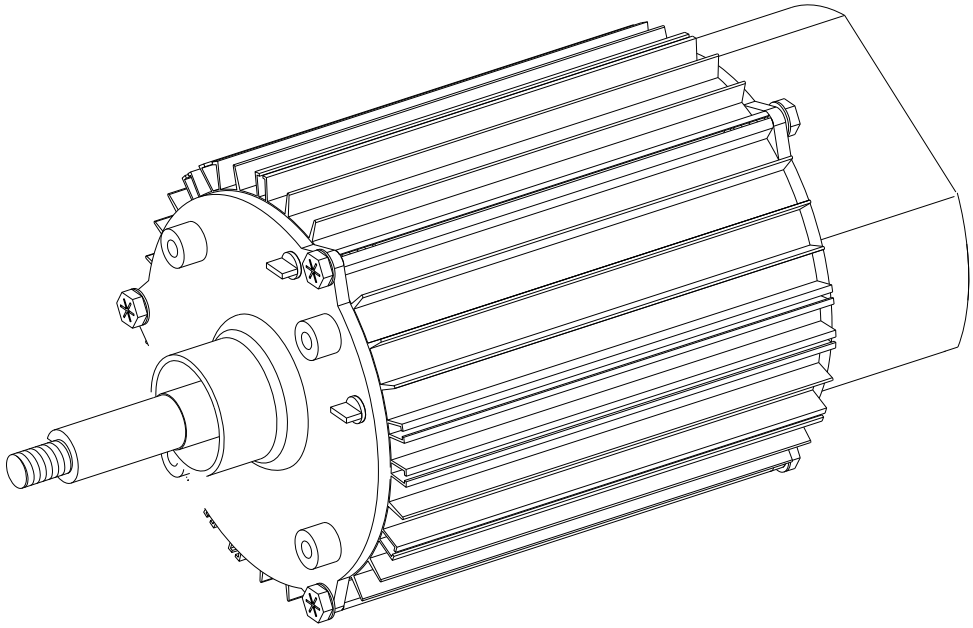
# 5 OPERATION

The unit operates by pumping water from the reservoir through the spray bar to soak the cooling pads. Meanwhile, the propeller draws warm air into the unit and through the pads. The water evaporates as it pulled away from the pads, dissipating the heat the water has absorbed from the incoming air and cooling the outgoing air. Excess water returns to the reservoir to be recirculated.

Evaporative cooling reduces the difference between the area's dry-bulb temperature (regular air temperature) and wet-bulb temperature (temperature at 100% relative humidity) at approximately 75% efficiency. For example, at a dry-bulb temperature of 85°F and a wet-bulb temperature of 65°F, the temperature on the outlet side of the unit would be reduced to approximately 70°F.

### 5.1 Components - Fan Motor

The 115V fan motor can be operated at various speeds using the control panel. The propeller is mounted directly to and driven by the motor shaft.



# 5 OPERATION

### 5.2 Components - Water Pump

The 115V pump moves water from the reservoir through the spray bar and onto the cooling pads. It is turned on and off using a button on the control panel. The unit control board is programmed to automatically shut down the pump if the reservoir water level is too low.

### 5.3 Components - Control Panel

The control panel, located on the right side of the unit, is the primary means of starting and stopping the fan and the pump.

The panel is connected to the control board, which handles all operational logic. In addition to enabling variable-speed operation, the board automatically shuts off the pump in case the reservoir water level is too low. The control panel has multiple buttons that control fan power, fan speed, and pump power. The panel also has several LEDs that indicate the fan status, fan speed, pump status, and water level status.

### 5.4 Components - Cooling Pads

These cellulose blocks are a key part of the evaporative cooling process. As they are saturated with water, warm air is drawn through them to dissipate the absorbed heat. They are coated for protection against both physical impact and algae formation. he pads must be installed in the labeled orientation to allow proper airflow.

### 5.5 Components - Float Valve

This brass valve, connected to the water inlet inside the unit, shuts off the inlet when the water in the reservoir reaches the depth to which the valve has been set. This prevents the reservoir from being overfilled..

### 5.6 Components - Liquid Level Switch

When this switch detects that the water level in the reservoir is too low, it signals the control board to stop the pump. Shutting down prevents the pump from running dry..

# 5 OPERATION

## 5.7 Components - Controls

The control panel has the following inputs:

1. Fan ON/OFF - This button starts and stops the fan. After the fan has been turned off, pressing the button again will cause the fan to resume running at the most recent speed setting.

2. Fan Speed (+/-) - These buttons cycle the speed of the fan. The "+" button increases the speed by one increment, whereas the "-" button decreases the speed by one increment. The "-" button cannot be used to stop the fan; pressing it while the fan is already set to 1 does nothing.

The current speed is indicated by the pattern of the five circular LEDs located between the buttons. Each LED corresponds to two speeds; starting from the bottom, flashing represents odd values (1, 3, 5, 7, 9), whereas solid green represents even values (2, 4, 6, 8, 10). For example, if the bottom LED is flashing green, the speed is set to the minimum of 1; if all five LEDs are solid green, the speed is set to the maximum of 10.

3. Pump ON/OFF - This button starts and stops the water pump.

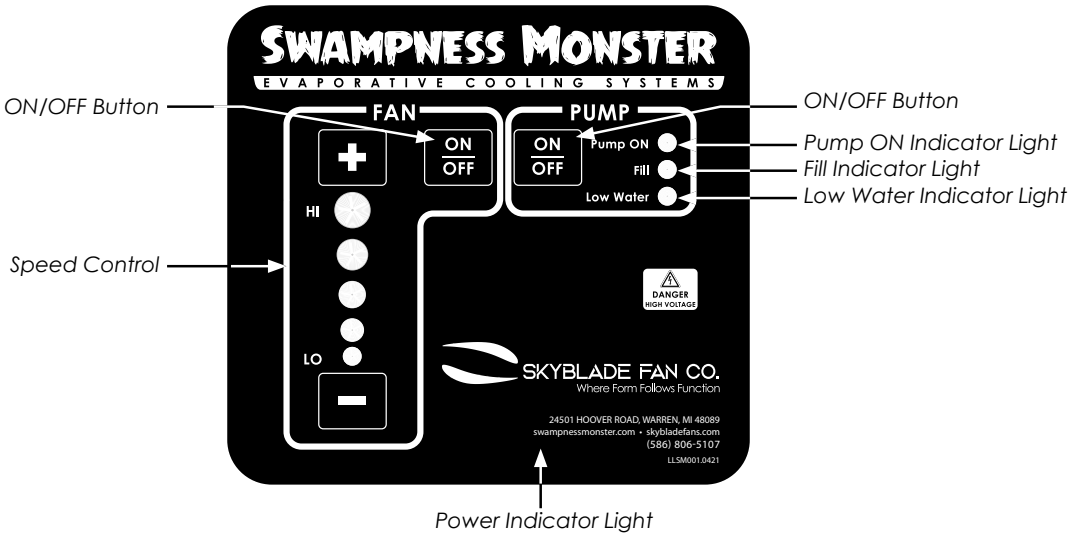
The Pump section of the control panel also has the following indicator LEDs:

1. Unit Power - This LED turns solid red when the unit is powered on.

2. Pump ON - This LED turns solid green while the pump is running.

3. Fill - This LED flashes green when the water level has remained low for more than one minute. During this time, the pump will automatically turn off, the Pump ON and Fill indicators will flash, and the Low Water indicator will turn solid red.

4. Low Water - This LED flashes red when the water has remained low for less than one minute. It turns solid red after one minute.



# 6 START UP & SHUT DOWN

### 6.1 The Importance of Ventilation

Fresh air is very important for proper operation of evaporative cooling. Ventilation can be provided by air flow from open windows and doors, or exhaust fans. Positioning the Swampness Monster intake close to an open door is a common way to assure fresh air. Evaporative cooling will not function properly in a closed environment.

### 6.2 Normal Operation

Under normal conditions, the pump should run constantly when air is being drawn through the pads. If outside conditions are not warm enough to run evaporative cooled air, an alternative is to run the fan with the pump off.

Dry the pads completely each night by turning off the pump and drawing air through the pads with the fan.

### 6.3 Breaking in New Pads

When pads are new, their slick surface will prevent the fast water absorption that will happen with older pads. For this reason, it is important that the first time new pads are used, to allow the pump to run for two or three hours. This will "soak-in" the pads, and allow faster start-up later.

After soaking new pads, turn off the pump, fan, and water supply, unplug the unit, and drain the reservoir. This eliminates chemical residues that have washed out of the new pads. See Section 7 for more information on Pad Care.

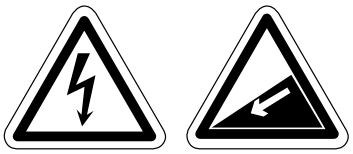
Foaming can occur with new pads. If excessive foaming is experienced, repeat the procedure described above two or three times to flush chemical residues from the pads. Reducing the water flow to the pads may also be helpful to reduce foaming.

**NOTE:** Do not allow the pump to run without water in the reservoir. Without water, the pump may be damaged.

# 6 START UP & SHUT DOWN

### 6.4 Starting

## ⚠ WARNING/ AVERTISSEMENT



This unit must only be plugged into a three conductor, grounded GFI (Ground Fault Interrupt), power source.

Do not place the unit on a slope or where the unit can accidentally fall or roll into water. The lockable wheels provide resistance to movement although do not prevent movement or turn-over.

## ⚠ CAUTION/ATTENTION

Do not place the unit on a slope or near a ledge, even if the casters are locked.

Do not route the power cord under furniture, appliances, carpet, or other coverings.

Route the cord away from traffic to minimize the risk of tripping.

Do not run the pump without water in the reservoir. Doing so may damage the pump.

The liquid level switch will cause the pump to shut down when the water level is too low.

1. Connect water hose to inlet tap.
   **NOTE:** If desired, an optional customer supplied drain hose and cut-off valve can be attached to the drain pan outlet beneath the Swampness Monster.
2. Check safety of electrical cords, and plug in unit.
3. Turn on water and fill the reservoir.
4. After the reservoir is filled, turn on the pump and let the water run for fifteen to twenty minutes before turning on fan. See Section 9 for Control Panel details.
5. Turn on fan and enjoy the cool air output.

### 6.5 Shutting Down

When you are finished with the Swampness Monster, follow these steps for shutting down the unit:

1. Turn off pump.
2. Wait ten to fifteen minutes (This will dry the pad and minimize algae growth).
3. Turn off fan.
4. Disconnect water and power supply to the unit.

**NOTE:** If water is not disconnected, turn off the water hose whenever the Swampness Monster is not in use.

# 7 MAINTENANCE

## 7.1 Regular Preventive Maintenance

1. Ensure the cooling pads receive adequate water.
2. Ensure the unit is used in an open environment with unobstructed airflow.
3. Ensure the unit is clear of dust, fumes, and other contaminants.
4. Before shutting down the unit, run the fan with the pump off for approximately 15 minutes to allow the cooling pads to dry.
5. Turn off the water supply when the unit is not in use.
6. Do not run the pump without water in the reservoir. Doing so may damage the pump.
7. Do not use harsh cleaners.
8. Do not add chlorine, bleach, or phosphate treatments to the water supply.
9. Flush the system and wipe the reservoir clean at least once per week. SkyBlade recommends using specialized tablets, which are available at skybladefans.com.
10. Clean the pump filter at least once per week.
11. Routinely inspect the spray bar for residue that may cause clogs.
12. Routinely inspect the unit for leaks. Correct any leaks as soon as they are found.
13. Inspect all electrical insulation on the internal harness and the power cord for signs of wear at least once per month.
14. Inspect the motor seal for damage at least once per month. Gaps may allow water to contact the electrical circuits.
15. Clean and disinfect the entire system at least once per quarter.
16. Drain the system completely prior to extended periods of disuse.
17. If you must use an extension cord, ensure the wire is 12AWG or larger.

## 7.2 Cleaning and Replacing Cooling Pads

With proper maintenance, the cooling pads should provide between three and five years of trouble-free operation. Take care to avoid build-ups of the following substances, which can generally be removed by spraying the pads with a water hose:

- Dust.
- Algae, which can be prevented by running the fan with the pump off for approximately 15 minutes until the pads are completely dry.
- Scale, which can be prevented by using water with a pH between 6 and 9, and with silica contamination below 150 ppm.

The cooling pads are accessed as follows:

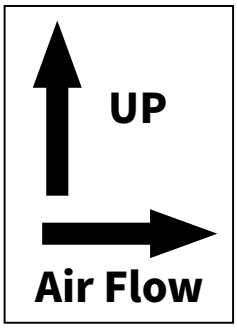
1. Turn off the pump and the fan, unplug the power cord, and disconnect the water supply.
2. Open the lid by removing the screws from the sides. Set the screws aside.
3. Remove the pads.

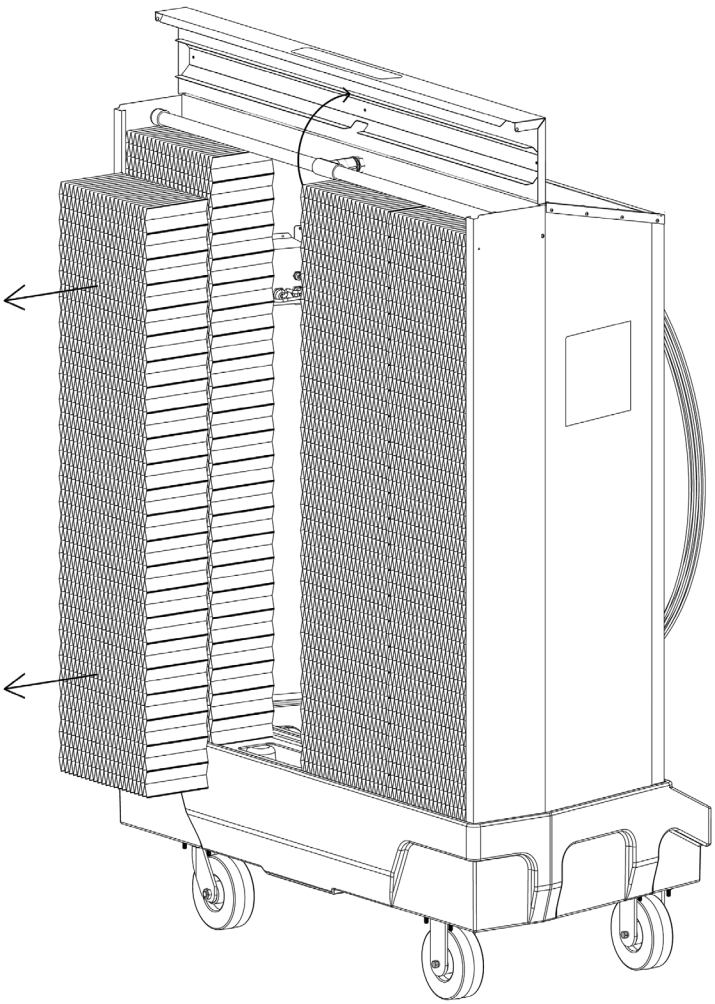
# 7 MAINTENANCE

## ⚠ CAUTION/ATTENTION

Do not run the pump without water in the reservoir. Doing so may damage the pump.

4. Spray each side of the pads with a water hose.
5. Drain the reservoir.
6. Clean the pump filter.
7. Reinstall the pads (or replace them if necessary), ensuring they are oriented according to the "UP" and "Air Flow" arrows.
8. Reconnect the unit to the water and power supplies, then run the pump for approximately 20 minutes. Use as much water as possible.
9. Hose down any deposits remaining on the pads.
10. Empty the reservoir to remove any residue that seeps from the pads.
11. Refill the reservoir.
12. If you have installed new cooling pads, break them in according to Section 7.3.
13. Close the lid, then reinstall the screws.



# 7 MAINTENANCE

### 7.3 Breaking in New Cooling Pads

## ⚠ CAUTION/ATTENTION

If the residue causes excessive foaming, reduce the water pressure.

Do not run the pump without water in the reservoir. Doing so may damage the pump.

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The slick surface of new cooling pads prevents them from absorbing water at full effectiveness. Therefore, new cooling pads

(those shipped with new units as well as replacements) must be broken in by saturating them with water for several hours.

1. Allow the pump to run for two to three hours. Chemical residue will gradually seep from the pads.
2. Turn off the pump and the fan, unplug the power cord, and disconnect the water supply.
3. Drain the reservoir to eliminate any residue.
4. Empty the reservoir to remove any residue that seeps from the pads.
5. Refill the reservoir.
6. If necessary, repeat Steps 1-5 until the foaming stops.

### 7.4 Cleaning the Spray Bar

## ⚠ CAUTION/ATTENTION

The spray bar can be tilted to ease access when cleaning, but it must be leveled before the unit is used again.

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If the spray bar becomes clogged, the cooling pads may not absorb enough water, leading to dry spots or streaks which can degrade cooling efficiency. The spray bar can be cleaned as follows:

1. Turn off the pump and the fan, unplug the power cord, and disconnect the water supply.
2. Open the lid by removing the screws from the sides. Set the screws aside.
3. Remove the cooling pads.
4. Remove the caps from the ends of the spray bar.
5. Run a pipe cleaner through the outflow holes at the top of the spray bar.
6. Run a dowel from one end of the spray bar to the other.
7. Flush the interior of the spray bar with a water hose.
8. Reinstall the end caps.
9. Level the spray bar, ensuring the outflow holes face upward.
10. Reinstall the cooling pads. Ensure the “UP” and “Air Flow” arrows are oriented properly.
11. Close the lid, then reinstall the screws.
12. Reconnect the unit to the water and power supplies.

# 7 MAINTENANCE

## 7.5 Adjusting Water Pressure

The valve that controls water flow from the pump to the spray bar is intended to operate at partial pressure (approximately halfway open) and is shipped accordingly. However, if too much water is drawn from the cooling pads, forming mist, the pressure can be manually reduced. Excessive restriction of the valve may cause premature wear on the pump; do not operate the pump when the valve is closed.

1. Turn the knob clockwise to decrease the pressure. The valve is closed when the knob is perpendicular to the hose.

2. Turn the knob counterclockwise to increase the pressure. The valve is fully open when the knob is in line with the hose.

**Fully Open**

**Partially Open**

**Closed**

# 7 MAINTENANCE

### 7.6 Changing Reservoir Water Level

## ⚠ CAUTION/ATTENTION

The water level is normally 2.25" (± 1"), or 1" below the bottoms of the pads. Do not allow the water in the reservoir to contact the cooling pads.

The water level in the reservoir can be changed by adjusting the float valve as follows:

1. Turn off the pump and the fan, unplug the power cord, and disconnect the water supply.
2. Open the lid by removing the screws from the sides. Set the screws aside.
3. Remove the cooling pads.
4. Loosen the thumbscrew on the float valve.
5. Move the arm downward to decrease the water level or upward to increase it.
6. Retighten the thumbscrew.
7. Reinstall the cooling pads, ensuring the "UP" and "Air Flow" arrows are oriented properly.
8. Close the lid, then reinstall the screws.
9. Reconnect the unit to the water and power supplies.

# 7 MAINTENANCE

### 7.7 Cleaning Reservoir

## ⚠ CAUTION/ATTENTION

A drain hose and shutoff valve (neither is supplied) can be attached to the drain pan outlet below the unit.

Do not use bleach, ammonia, or other harsh cleaners such as bathroom spray. SkyBlade recommends using specialized tablets, which are available at skybladefans.com.

Do not run the pump without water in the reservoir. Doing so may damage the pump.

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At least once per week, the entire water system must be flushed and the reservoir must be wiped clean. This is done as follows:

1. Turn off the pump and the fan, unplug the power cord, and disconnect the water supply.
2. Open the lid by removing the screws from the sides. Set the screws aside.
3. Remove the cooling pads.
4. Drain the reservoir using the drain outlet.
5. Wipe the reservoir clean of debris using warm water and mild soap.
6. Reconnect the unit to the water and power supplies.
7. Refill the reservoir.
8. Run the pump for at least 15 minutes to saturate the cooling pads with water.
9. Turn off the pump, unplug the power cord, and disconnect the water supply.
10. Drain the reservoir again.
11. Reconnect the unit to the water and power supplies.
12. Refill the reservoir.
13. Reinstall the cooling pads, ensuring the “UP” and “Air Flow” arrows are oriented properly.
14. Close the lid, then reinstall the screws.

# 7 MAINTENANCE

### 7.8 Cleaning Pump Filter

## ⚠ CAUTION/ATTENTION

Do not run the pump without water in the reservoir. Doing so may damage the pump.

The water pump filter must be cleaned at least once per week as follows:

1. Turn off the pump and the fan, unplug the power cord, and disconnect the water supply.
2. Open the lid by removing the screws from the sides. Set the screws aside.
3. Remove the cooling pads.
4. Cut the zip tie that secures the pump to the bracket.
5. Remove the pump from the reservoir.
6. Remove the filter from the bottom of the pump.
7. Scrub and spray the filter until all debris is removed.
8. Reinstall the filter.
9. Secure the pump to the bracket using a new zip tie.
10. Reinstall the cooling pads, ensuring the "UP" and "Air Flow" arrows are oriented properly.
11. Close the lid, then reinstall the screws.
12. Reconnect the unit to the water and power supplies.
13. Run the pump for at least 15 minutes to saturate the cooling pads with water.

# 7 MAINTENANCE

## 7.9 Long-term Storage

The following steps must be performed before the unit is stored for longer than one week, such as during the off season:

1. Clean the cooling pads and dry them thoroughly according to Section 7.3.

2. Flush and clean the reservoir according to Section 7.7. Ensure no water remains in the reservoir.

3. Leave the drain outlet cap off (storing it in a secure location) to prevent water from accumulating in the reservoir.

4. Cover the unit, then store it in a dry, secure location. Specialized covers are available at skybladefans.com.

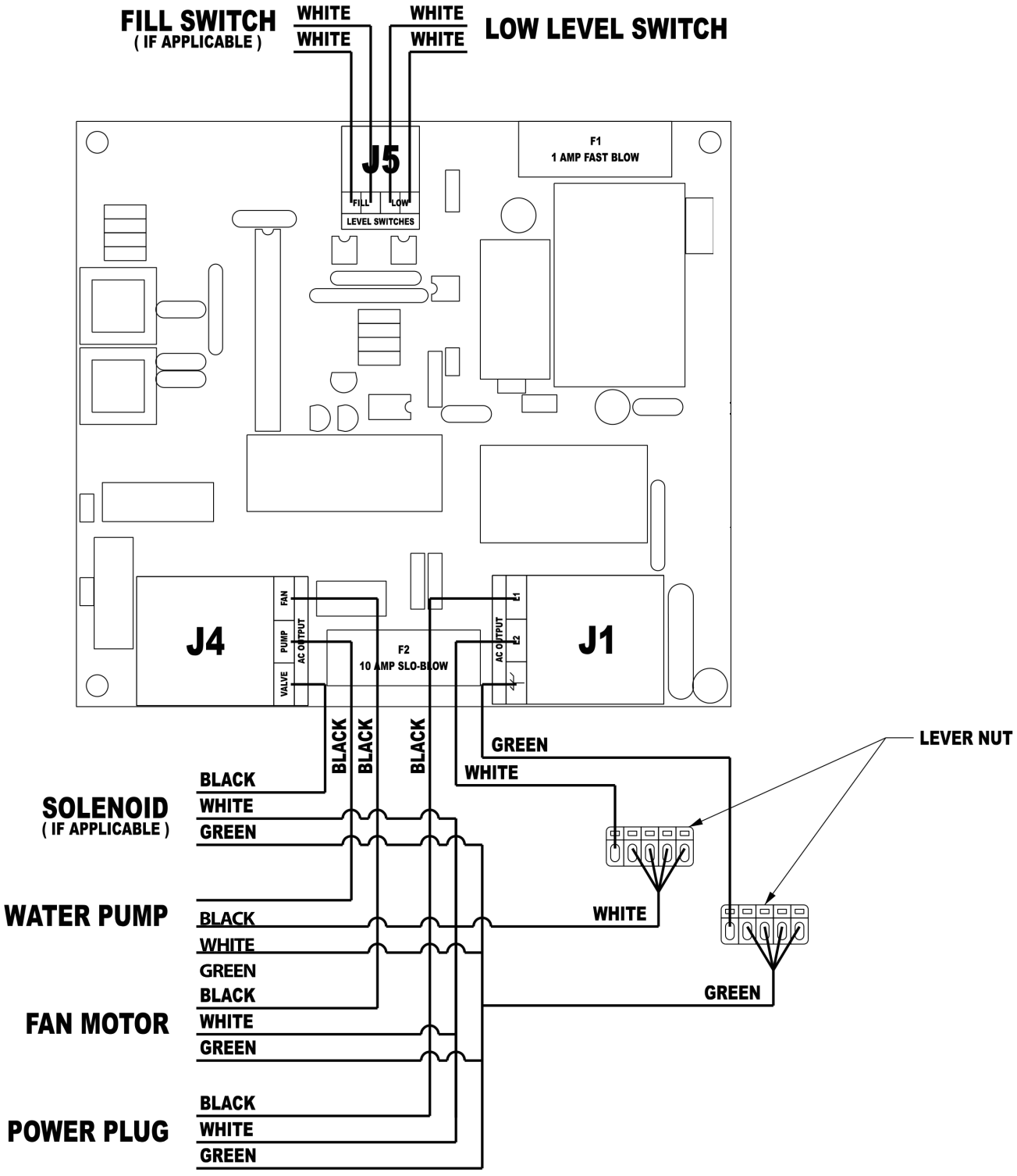
# 8 TROUBLESHOOTING GUIDE

## 8.1 Troubleshooting

| Problem | Check/Action |
|---|---|
| **Swivel casters do not turn.** | • Ensure the casters are not locked.<br>• Ensure the casters are installed correctly. |
| **Water overflows during setup of a new unit.** | • Remove the tape from the float valve. |
| **Water splashes off the cooling pads instead of soaking in.** | • Ensure the pads are oriented according to the "UP" and "Air Flow" arrows. |
| **Water sprays out of the top of the unit.** | • Ensure the holes in the spray bar point toward the spray deflector. |
| **No water sprays out of the spray bar.** | • Ensure the pump is turned on.<br>• Ensure there is enough water in the reservoir.<br>• Check the pump filter for obstructions. |
| **Water sprays out of some holes in the spray bar but not all.** | • Adjust the water pressure using the flow control valve.<br>• Clean the spray bar.<br>• Check the pump filter for obstructions. |
| **The pads have dry spots or streaks.** | |
| **Water overflows at any point after initial setup.** | • Adjust the float valve to a lower position. |
| **The fan motor does not turn on.** | • Inspect all buttons, the power cord, the electrical outlet, and the circuit breaker for damage. |
| **The motor overheats and shuts off, then restarts minutes later.** | • Ensure the unit receives unobstructed airflow.<br>• Use an extension cord of a larger gauge. |
| **The pump does not work.** | • Check the Low Water and Fill indicators.<br>• Check the pump filter for obstructions. |

# 9 WIRING DIAGRAM

## 9.1 Wiring Diagram



# 10 REPLACEMENT PARTS

## 10.1 Parts

### ⚠ CAUTION/ATTENTION

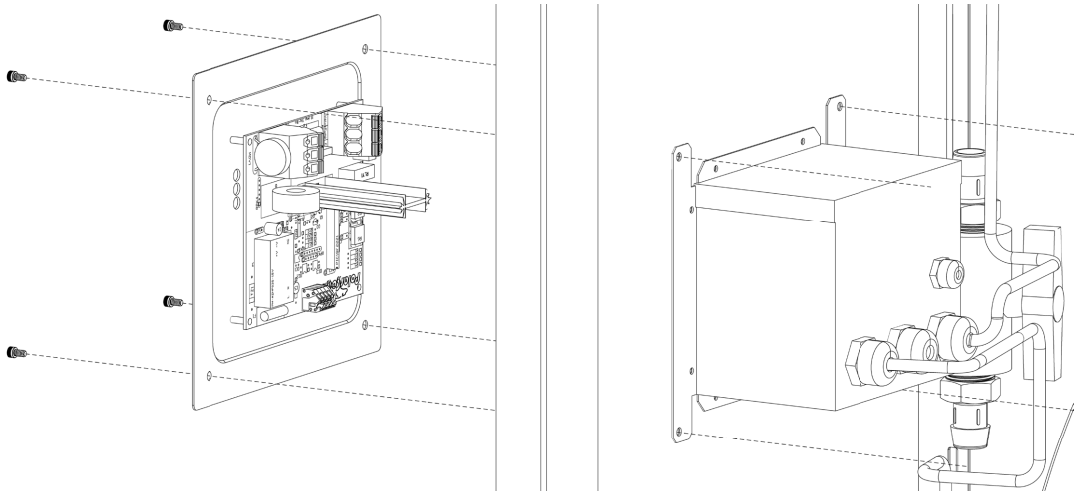
Before replacing any of the following components, disconnect the unit from the power and water supplies; remove the screws from the lid and set them aside; and drain the reservoir. After replacing the component(s), close the lid and reinstall the screws.

| Part No. | Description |
|---|---|
| **6422-6015** | 120V; 60 Hz Water Pump |
| **3017-6023** | 115V; 1/2 HP Variable-speed Fan Motor |
| **6403-5605** | 36" 3-blade Fiberglass Propeller |
| **6450-6060** | Control Panel |
| **x1: 6450-6070** | 12" W x 48" H x 6" D Cooling Pad |
| **x4: 6450-6014** | |
| **6422-6016** | Float Valve Assembly |
| **3001-0050** | Liquid Level Switch Assembly |
| **0006-0722** | Drain Plug Assembly |
| **6422-6018** | Water Inlet Assembly |
| **1021-1104** | Water Inlet Swivel Adapter |
| **6422-6021** | Single Rigid Caster |
| **6422-6020** | Single Swivel Caster |
| **3006-5082** | 3-Position Terminal Block |
| **3006-5107** | 2-Position Terminal Block |
| **3010-3011** | 10A Fuse |
| **3010-2999** | 1A Fuse |
| **1028-3500** | Electronics Enclosure Seal |
| **1001-0110** | Control Panel Nut |

# 10 REPLACEMENT PARTS

## 10.2 Parts - Controller Assembly

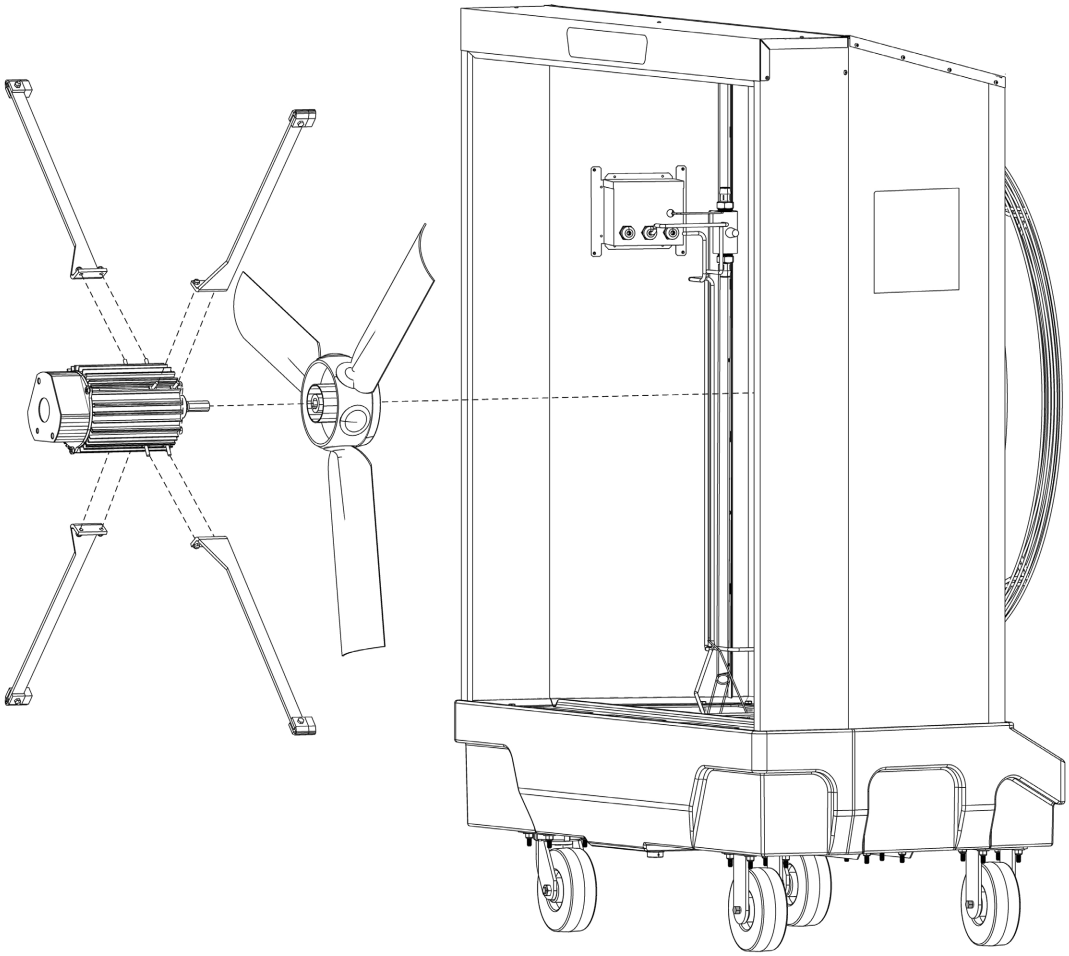
1. Detach the controller faceplate by removing the [4] screws. Set the screws aside.
2. Disconnect all wires from the control board.
3. Connect the existing wires to the same locations on the new control board.
4. Reinstall the faceplate using the original screws.



# 10 REPLACEMENT PARTS

### 10.3 Parts - Motor and Propeller

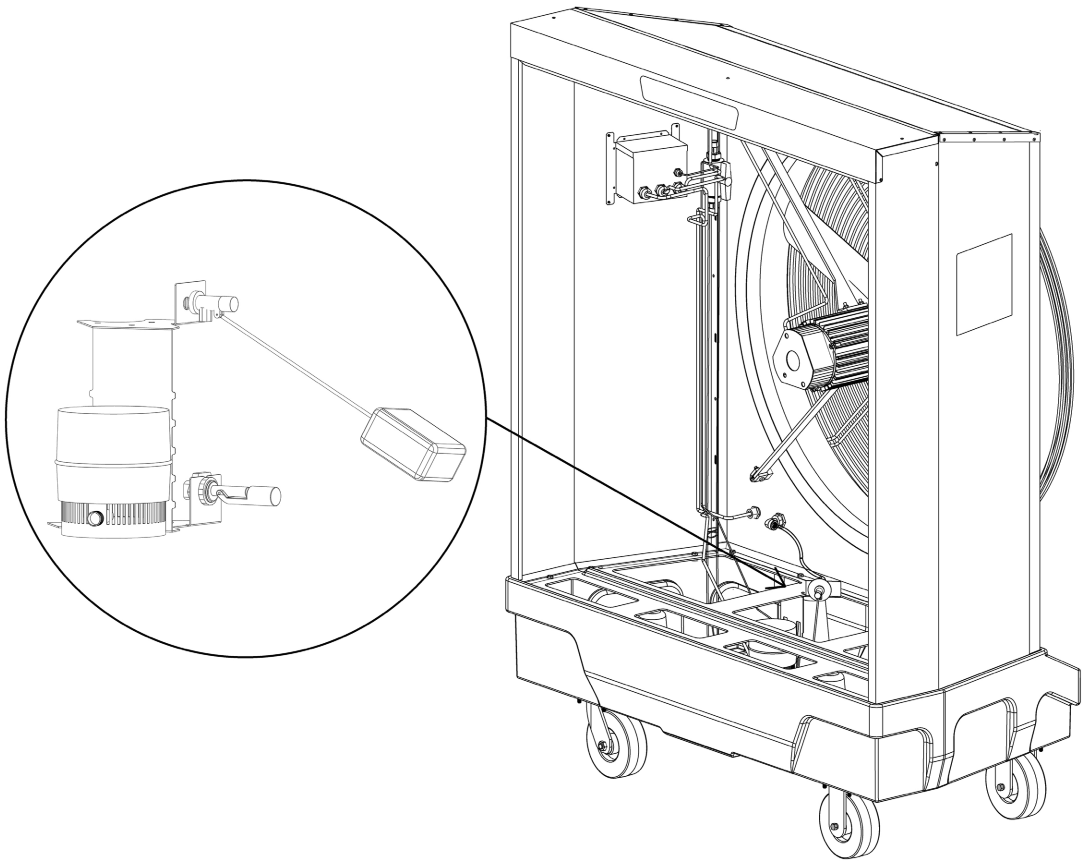
1. Detach the controller faceplate by removing the [4] screws. Set the screws aside.
2. Disconnect all wires from the control board.
3. Connect the existing wires to the same locations on the new control board.
4. Reinstall the faceplate using the original screws.



# 10 REPLACEMENT PARTS

### 10.4 Parts - Pump

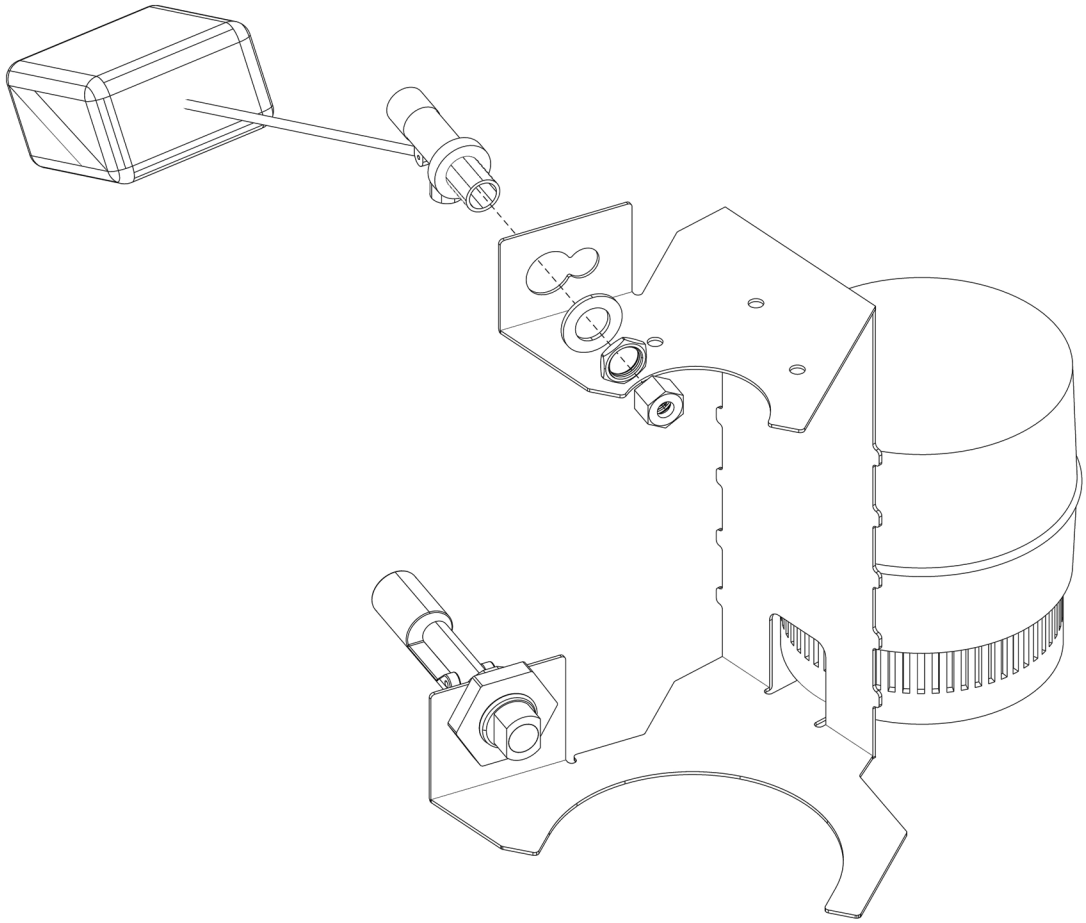
1. Detach the controller faceplate by removing the [4] screws. Set the screws aside.
2. Disconnect the pump wires from the control board.
3. Disconnect the hose from the barb on the pump.
4. Remove the zip tie that connects the pump to the bracket, then remove the pump.
5. Secure the new pump to the bracket using a zip tie.
6. Connect the hose to the barb on the new pump.
7. Connect the pump wires to the control board according to the diagram in Section 9.
8. Reinstall the controller faceplate using the original screws.



# 10 REPLACEMENT PARTS

### 10.5 Parts - Float Valve

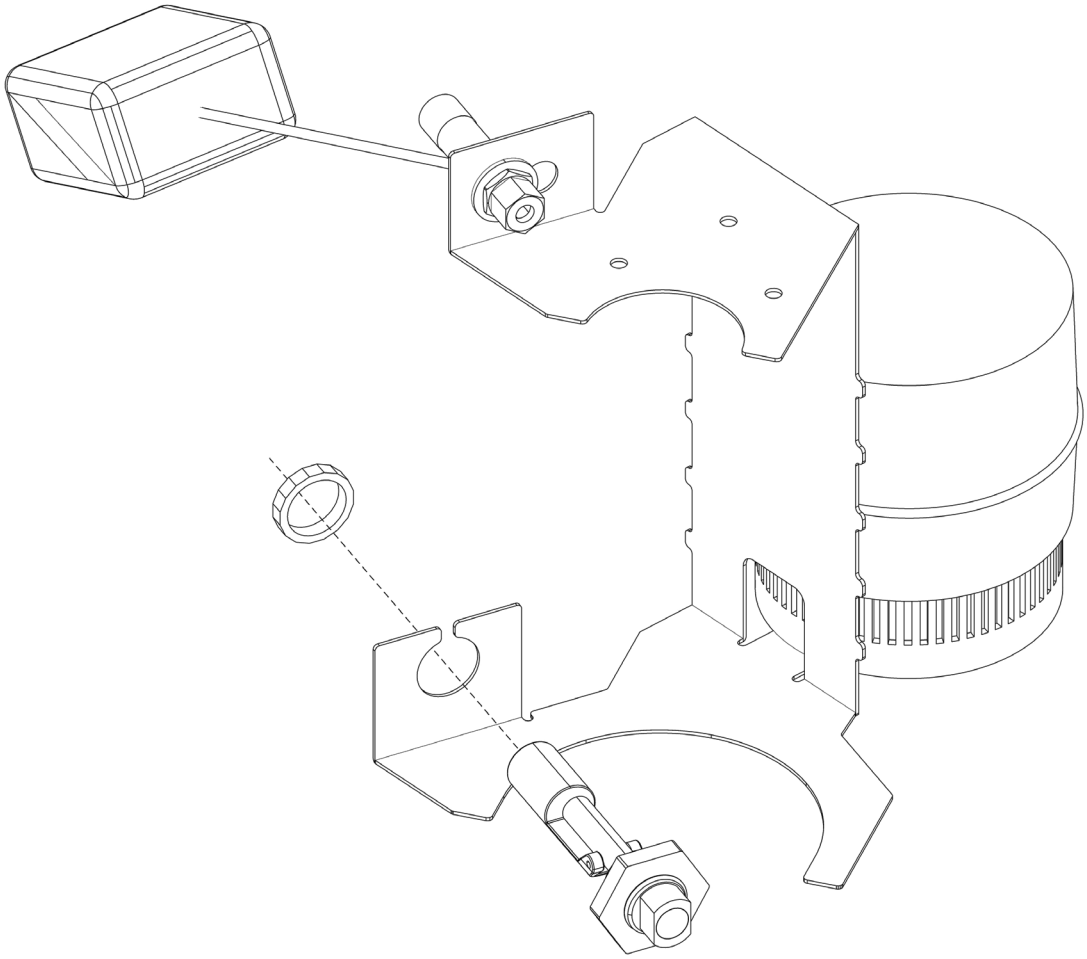
1. Remove the inlet hose from the water inlet quick-connect fitting.
2. Disassemble the float valve and remove it from the bracket.
3. Connect the new float valve to the bracket.
4. Place the nut over the hose, then place the UHMW collar over the hose.
5. Place the brass insert inside the hose.
6. Insert the hose into the water inlet adapter and the float valve.
7. Finger-tighten the nut, then give it another full turn to ensure it is fully seated.



# 10 REPLACEMENT PARTS

### 10.6 Parts - Liquid Level Switch

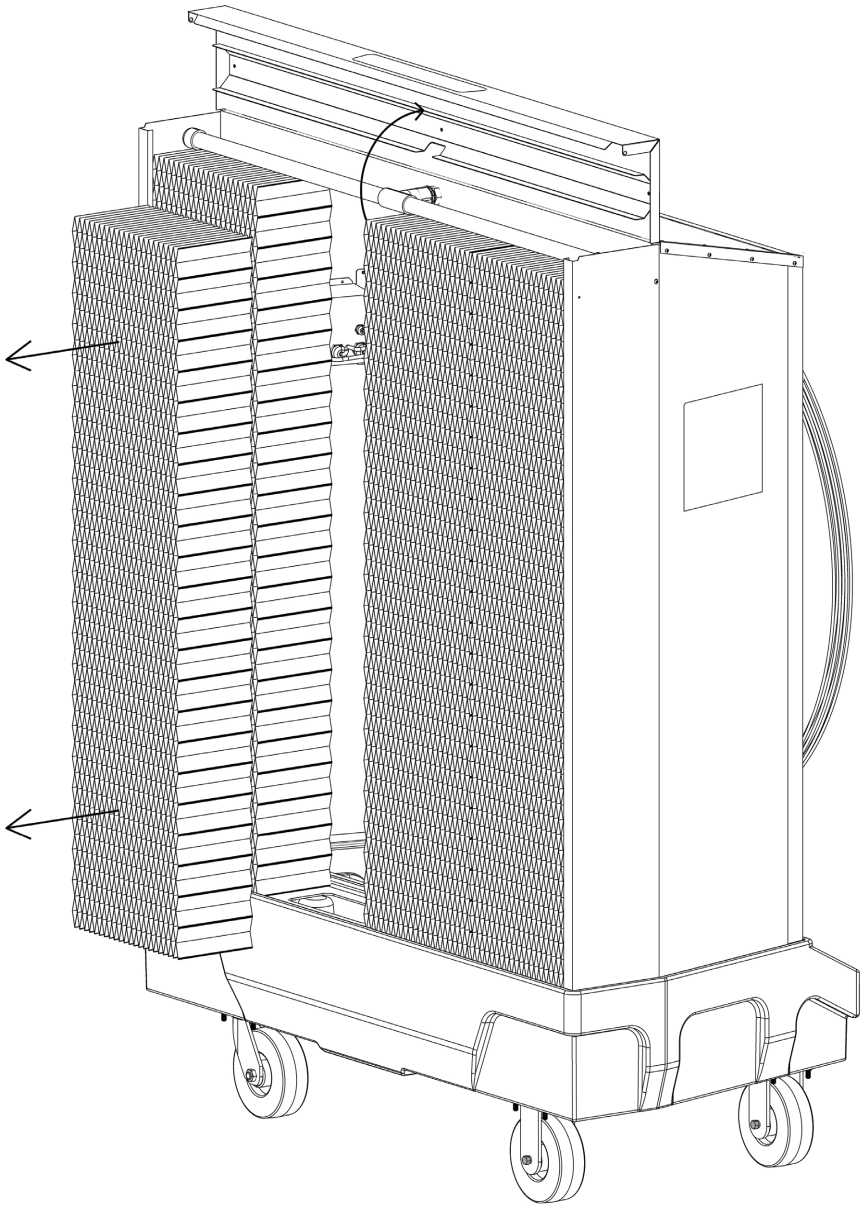
1. Detach the controller faceplate by removing the [4] screws. Set the screws aside.
2. Disconnect the liquid level switch wires from the control board.
3. Remove the nut and slide the switch out of the hole in the bracket.
4. Install the new switch as shown in the diagram above.
5. Wire the new switch according to the diagram in Section 9.
6. Reinstall the controller faceplate using the original screws..



# 10 REPLACEMENT PARTS

## 10.7 Parts - Cooling Pads

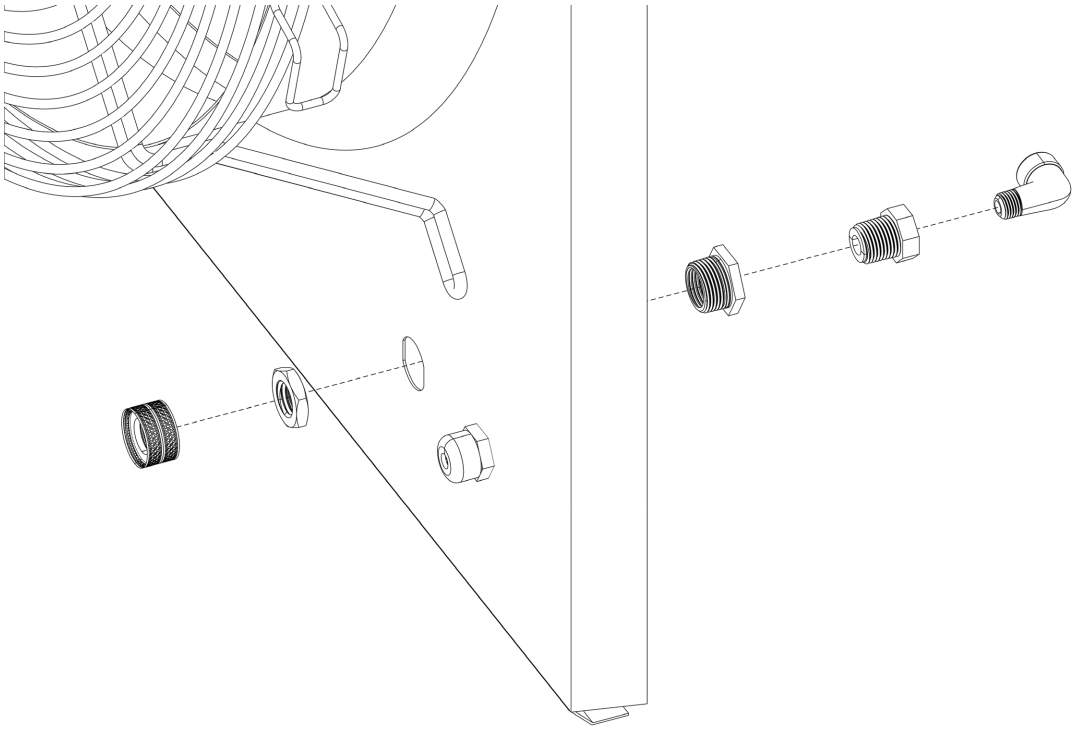
See Section 7.2 for details.



# 10 REPLACEMENT PARTS

## 10.8 Parts - Water Inlet Adapter

1. Disconnect the inlet hose from the inside of the inlet adapter.
2. Remove the existing adapter.
3. Install the new adapter according to the diagram. Be careful not to overtighten it, as doing so may strip the threads.
4. Reconnect the inlet hose.

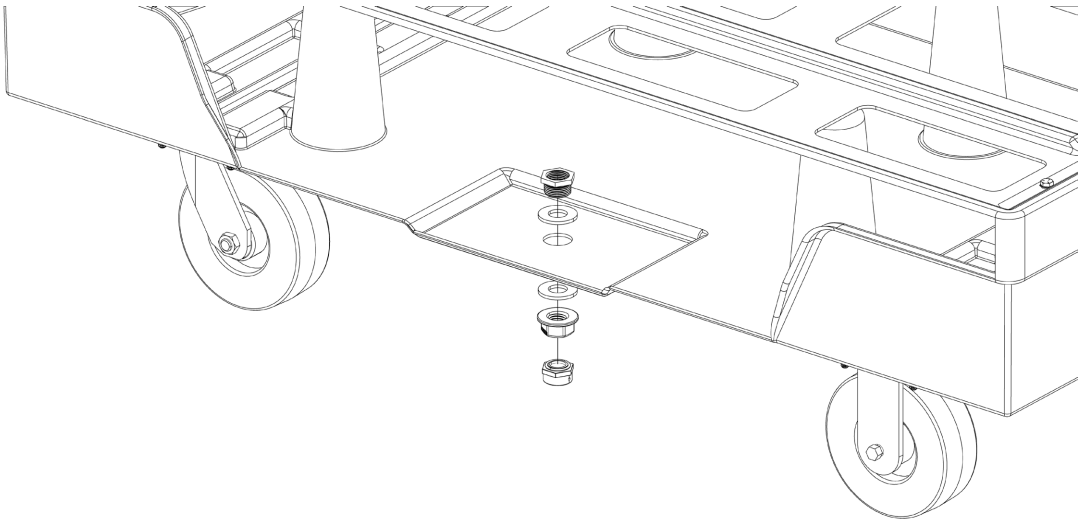


# 10 REPLACEMENT PARTS

### 10.9 Parts - Drain Plug

1. Remove the existing drain plug.

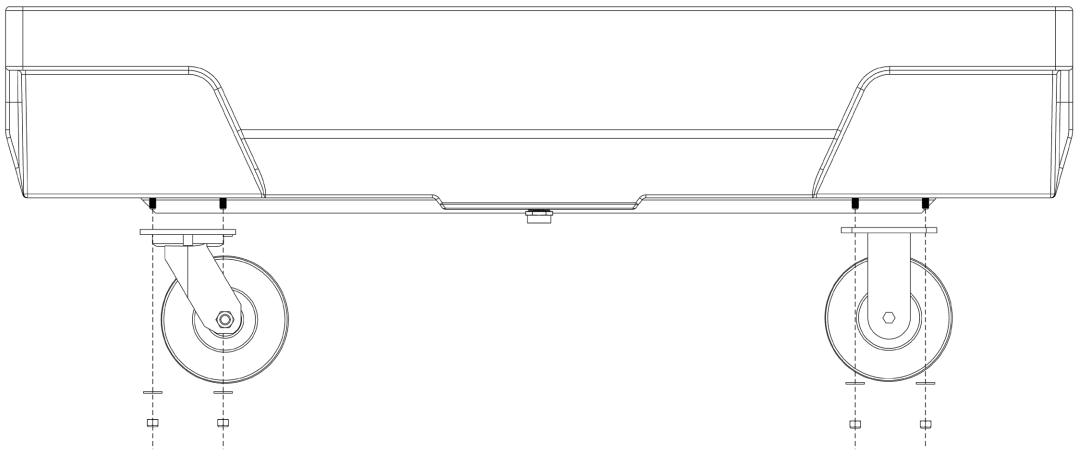
2. Install the new drain plug according to the diagram. Do not overtighten it, as doing so may strip the threads.



### 10.10 Parts - Casters

1. Remove the existing caster assemblies.

2. Install the new casters using the original nuts and washers. Ensure the swiveling casters are on the same side as the controller.



# MAINTENANCE LOG

| Date | Maintenance Performed | Replacement Parts Required |
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