

Evaporative Cooling System User Manual





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Section 1: Introduction

Section 1.1: Definitions of Informational Headings

- **DANGER:** This heading indicates noncompliance with the stated information **will** lead to serious injury or death.
- **WARNING:** This heading indicates noncompliance with the stated information may lead to serious injury or death.
- **CAUTION:** This heading indicates noncompliance with the stated information may lead to minor or moderate injury.
- **NOTICE:** This heading draws attention to specific information.

Section 1.2: Scope of Manual

NOTICE: This document is subject to change without notice. The latest version is maintained at rollseal.net/rollseal-technicals/.



Section 1.3: Limited Warranty

For three years from the date of invoice, PolarCool (a division of HH Technologies, Inc.) warrants the motor and any electrical components of the PolarCool Evaporative Cooling System ("the Product") that are found, upon examination by factory-authorized personnel, to be defective in material and/or workmanship.

PolarCool also warrants the metal housing of the Product for the full lifetime of the Product to the extent it is found, upon examination by factory-authorized personnel, to be defective in material and/or workmanship. The Lifetime Warranty on the Product housing does not cover ordinary wear and tear.

If any of the original component parts, including the Product housing, exhibit any defect(s) covered by this Limited Warranty within the applicable time periods defined above, the same may be repaired or replaced at PolarCool's discretion.

This Limited Warranty excludes any labor, equipment, transportation, and/or service expenses that may be required to remedy the warranted defect(s); all such charges must be funded by the purchaser. Neither the Product nor any of its component parts are to be returned for repair or replacement until they have been inspected and/or a Return Goods Authorization (RGA) number has been issued.

Complaints are to be directed first to the authorized distributor who sold the Product. If satisfaction is not obtained and/or the distributor cannot be contacted, complete the warranty form at <https://polarcool.net/polarcool-return-policy/>.

This Limited Warranty is void if: a) the Product and/or any of its component parts are found to have been misused, abused, or otherwise tampered with by unqualified personnel; b) any of the Product's component parts have been replaced by anything other than authorized PolarCool replacement parts; c) the Product has been modified in any way other than officially sanctioned upgrades made by qualified personnel using authorized PolarCool accessories; d) the Product has not been appropriately registered by its original purchaser; or e) the customer cannot provide proof of purchase indicating them to be the Product's original owner.

This Limited Warranty is made solely to the original purchaser of the Product. It cannot be transferred.

This Limited Warranty is in lieu of any and all other representations and/or warranties, expressed or implied, including any implied warranty of merchantability and/or fitness for a particular purpose. The remedy set forth by this Limited Warranty shall be the exclusive remedy available to any entity. No entity has the authority to bind PolarCool to any representation or warranty other than this Limited Warranty. PolarCool shall not be liable for any damages or losses resulting from any application of the Product or caused by any defect, failure, or malfunction of the Product.

This Limited Warranty gives you specific legal rights. You may have additional rights, as some areas do not allow the exclusion or limitation of incidental or consequential damages. The above limitation or exclusion may therefore not apply to you.

Warrantor: HH Technologies, Inc. (*d.b.a.* RollSeal)

Address: 1733 County Road 68; Bremen, AL 35033

Phone: 256-287-7000

Email: customerservice@hhtech.net



Section 1.4: Overview

The PolarCool Evaporative Cooling System (henceforth referred to as "the unit") 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.

Section 1.4.1: Technical Specifications

	18" Variable-Speed	24" Variable-Speed	36" Variable-Speed	48" Single-Speed
Unit Dimensions (H x W x D)	49-1/2" x 24" x 20"	37" x 48" x 35"	61" x 63" x 36"	73" x 74" x 35"
Shipping Dimensions (H x W x D)	50" x 36" x 24"	47" x 56" x 40"	69" x 70" x 43"	80" x 84" x 44"
Empty Weight	134 lbs	310 lbs	481 lbs	625 lbs
Drive	Direct	Direct	Direct	Belt
Noise Level (Low; Medium; High)	19.4 dB; 24.8 dB; 29.1 dB	18.5 db; N/A; 37 dB	N/A; 22 db; 31 dB	N/A; N/A; 35.2 dB
Water Consumption*	5 Gallons per Hour	7 Gallons per Hour	12 Gallons per Hour	17 Gallons per Hour
Reservoir Volume	10 Gallons	9 Gallons	12.5 Gallons	13.5 Gallons
Power Consumption	5A at 115V; 60 Hz	6A at 115V; 60 Hz	10A at 115V; 60 Hz	11A at 230V; 60 Hz
Cooling Area	800 ft ²	1,200 ft ²	3,000 ft ²	4,000 ft ²
Current	4.9A	6A	8.5A	9.5A
Typical Air Movement[†]	3,000 CFM	4,400 CFM	10,000 CFM	17,500 CFM

*Assuming $\geq 90^{\circ}\text{F}$ conditions. Cooler temperatures will result in less water usage.

[†]Depending on relative humidity, temperature, and area being cooled.

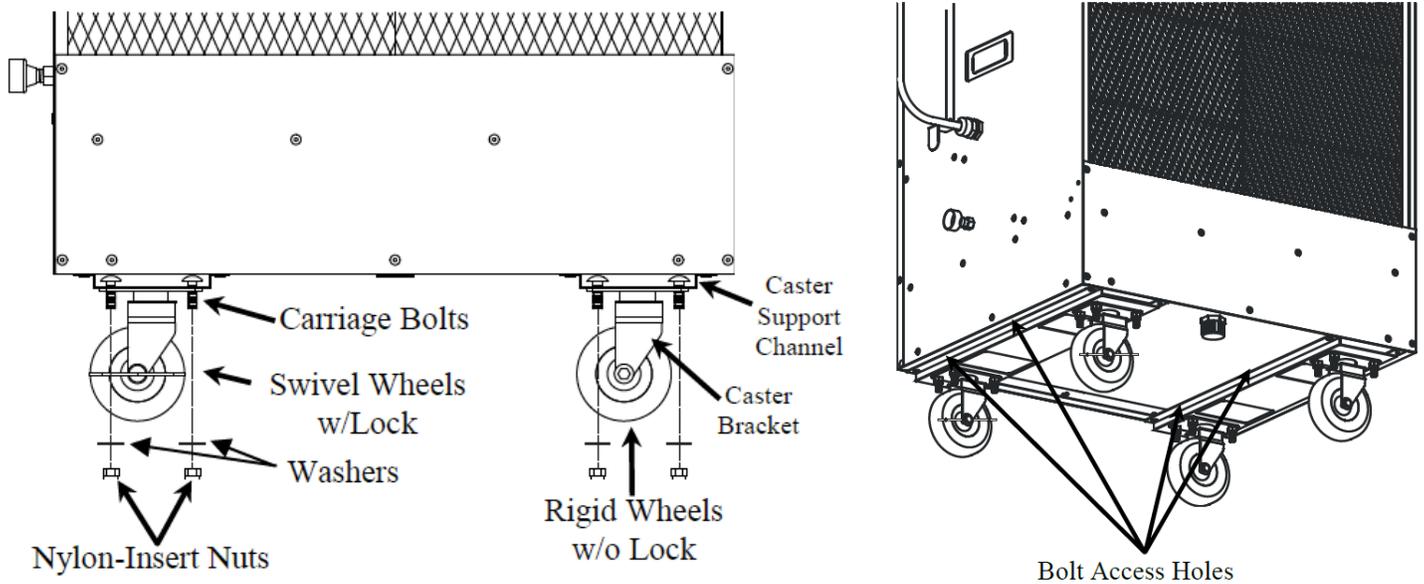
Section 2: Setup

Section 2.1: Install Casters (18" Units Only)

NOTICE: 24", 36", and 48" units are shipped with their casters pre-installed. If you have such a unit, skip to Section 2.2.

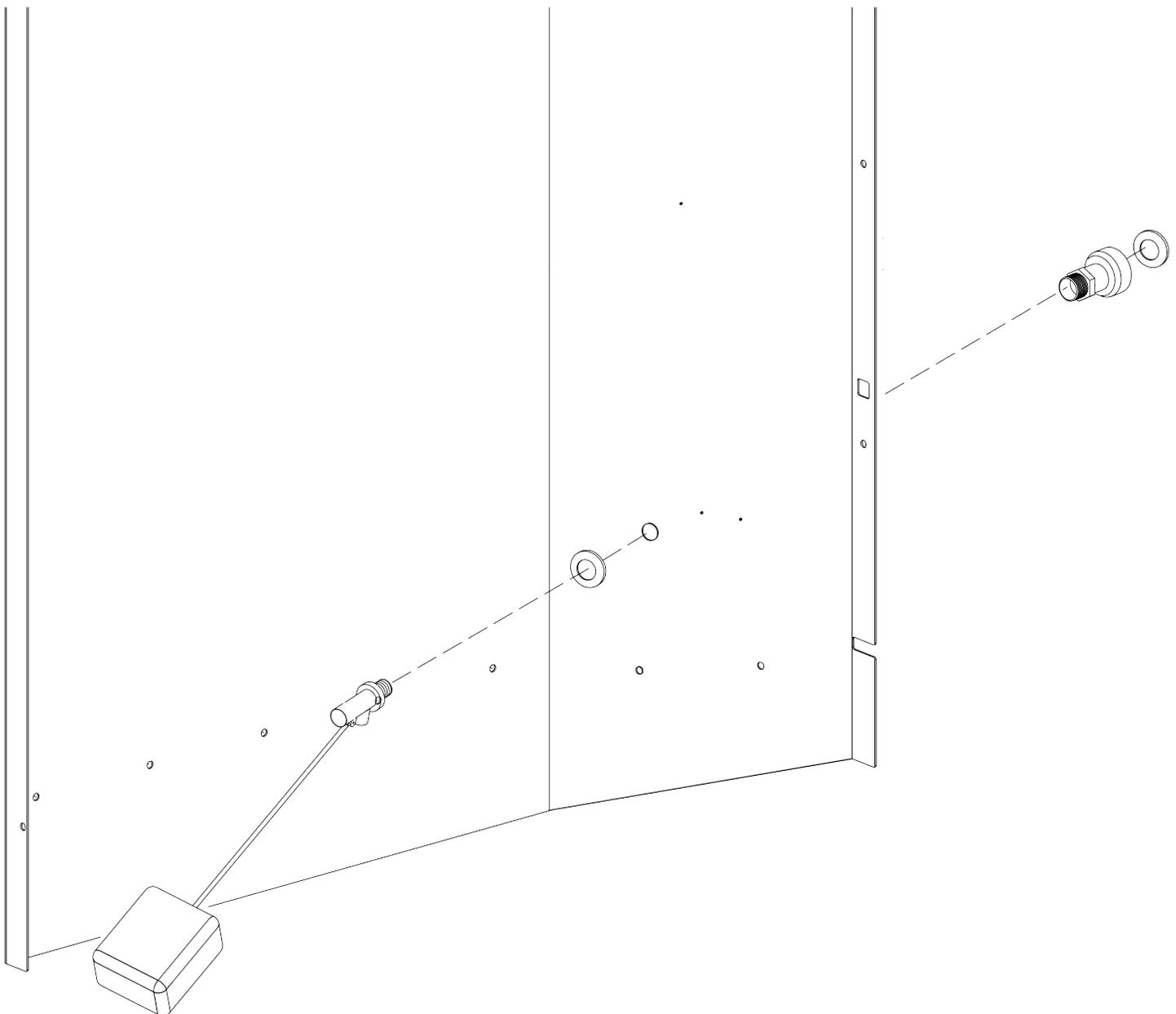
CAUTION: The unit is very heavy. Ensure it is well supported while you install the casters.

1. Align one of the caster brackets with one of the caster support channels on the bottom of the assembly.
2. Run four 5/16"-18 x 3/4" carriage bolts through the bracket and the support channel.
3. Place a 5/16" washer and a 5/16"-18 nylon insert nut on each of the bolts, then tighten the nuts until they are fully seated.
4. Repeat Steps 1-3 on the remaining casters.



Section 2.2: Float Valve

1. Lift the cover at the top of the unit to access the cooling pads.
2. Remove the cooling pads, titling the spray bar if necessary.
3. Hold the float valve in place while peeling the tape from it. Be careful not to bend the float valve arm.
4. Reinstall the cooling pads, ensuring the "UP" and "Air Flow" arrows are oriented properly. Reorient the spray bar if necessary.
5. Close the cover.



Section 3: 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 through the pads. The water evaporates as it is pulled away from the pads; this evaporation dissipates the heat the water has absorbed from the incoming air, thus cooling the outgoing air. Excess water returns to the reservoir to be recirculated.

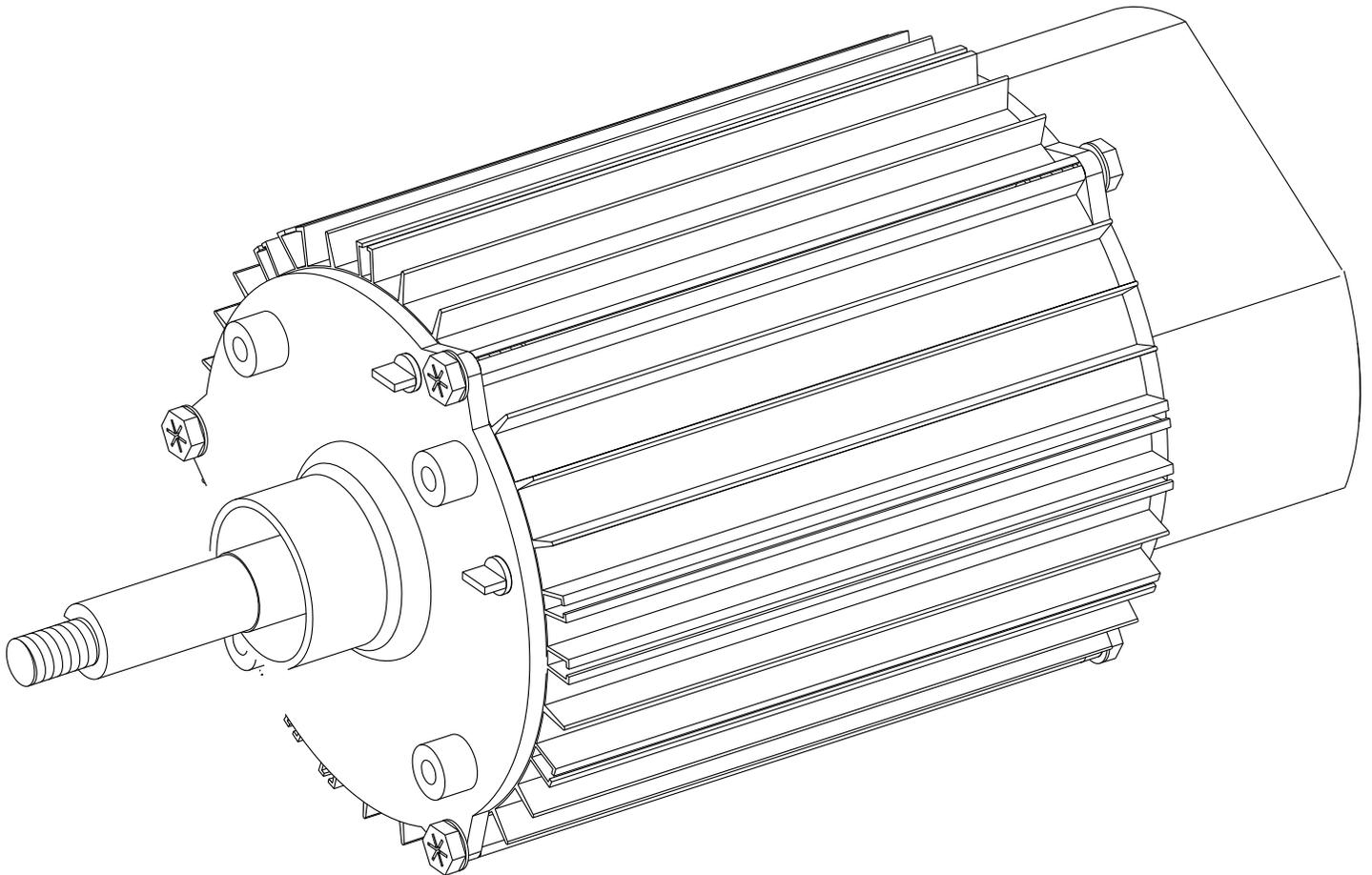
Evaporative cooling reduces the difference between the area's dry-bulb temperature (DBT; *i.e.* regular air temperature) and wet-bulb temperature (WBT; *i.e.* temperature at 100% relative humidity) with approximately 75% efficiency. For example, at a DBT of 85°F and a WBT of 65°F (a difference of 20°F), the temperature on the outlet side of the unit would be reduced to approximately 70°F (a decrease of 15°F).

Section 3.1: Components

Section 3.1.1: Fan Motor

On 18", 24", and 36" units, the 115V fan motor can be operated at various speeds using the control panel. The propeller is mounted directly to and driven directly by the motor shaft.

On 48" units, the 240V fan motor can be operated at only one fixed speed. The motor is mounted to the side of the fan shaft. It uses a belt-and-pulley system to drive the propeller.



Section 3.1.2: Water Pump

The pump moves water from the reservoir through the spray bar and onto the cooling pads.

On 18", 24", and 36" units, the 115V pump is turned on and off using a button on the control panel. The unit control board has low-water-level protection logic that prevents the pump from running without adequate water in the reservoir.

On 48" units, the 240V pump is turned on and off using a switch on the control panel. The pump does not have low-water-level protection since there is no control board.



Section 3.1.3: Control Panel (All Units) and Control Board (Not on 48" Units)

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

On 18", 24", and 36" units, the control panel is connected to the control board (itself mounted inside the electronics enclosure), which handles all operational logic. The board enables variable-speed operation and low-water-level pump shutoff. The control panel has multiple buttons that control fan power, fan speed, and pump power. It also has several LEDs that indicate the fan status, fan speed, pump status, and water level status.

On 48" units, the control panel has a pair of toggle switches that turn the fan and pump on and off. There is no control board.

Section 3.1.4: Cooling Pads

These 8"-thick paper-based 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 by evaporation. They are coated for protection against both impacts and algae formation. They must be installed in the labeled orientation to allow proper airflow.

Section 3.1.5: 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.

Section 3.1.6: Liquid Level Switch (18", 24", and 36" Units)

When this switch senses the water in the reservoir is too low, it signals the control board to stop the pump, preventing it from running dry.

Section 3.2: Controls

Section 3.2.1: 18", 24", and 36" Variable-Speed Units

On a 18", 24", or 36" variable-speed unit, the control panel has the following inputs:

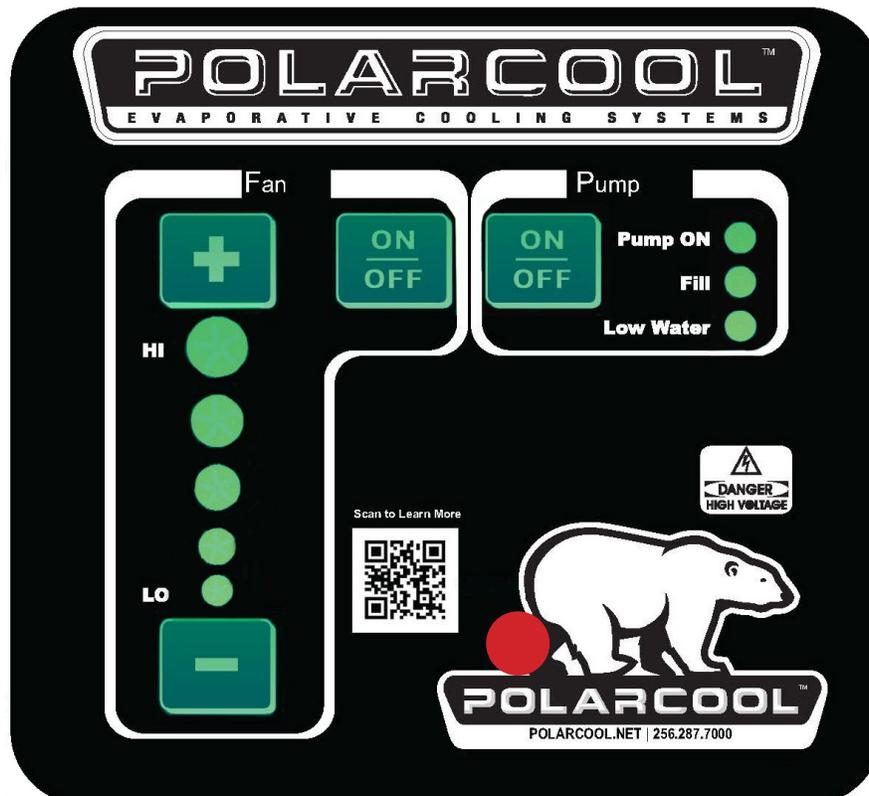
1. Fan Power - This button starts and stops the fan.
2. Fan Speed - These buttons adjust the speed of the fan between 10 presets. The "+" button increases the speed by one increment, whereas the "-" button decreases the speed by one increment. The "-" button cannot be used to stop the fan.

The speed is indicated by the highest LED currently illuminated. Each LED corresponds to two speeds, with flashing representing odd values (*i.e.* 1, 3, 5, 7, or 9) and solid green representing even values (*i.e.* 2, 4, 6, 8, or 10). For example, if the bottom LED is flashing by itself, the speed is set to 1; if the first three LEDs are solid green, the speed is set to 6.

3. Pump Power - This button starts and stops the water pump.

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

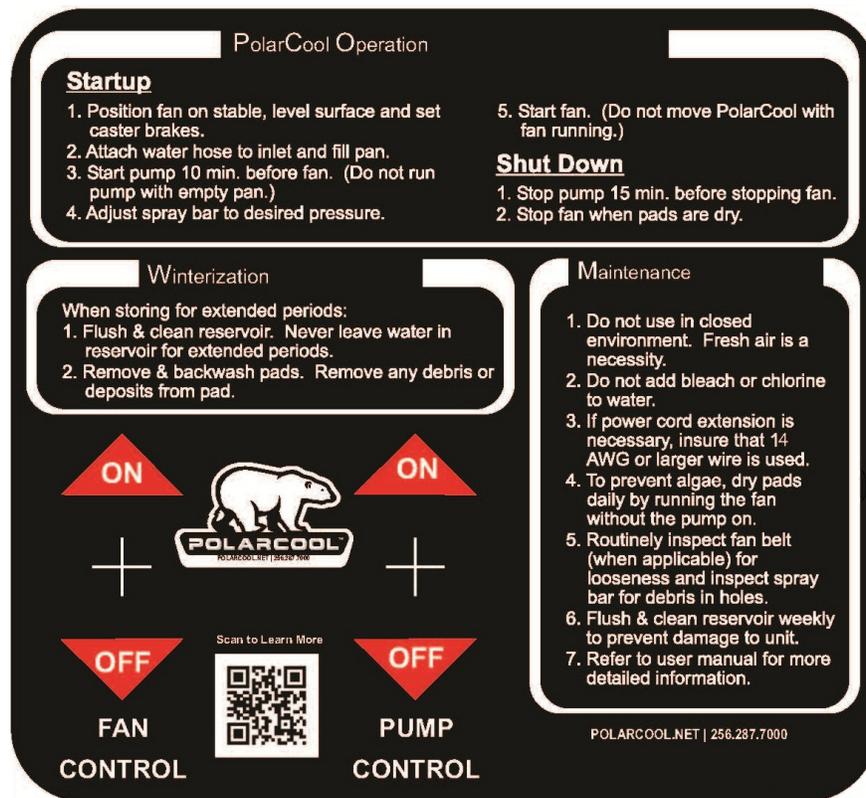
1. Unit Power - This LED (located behind the bottom logo) is solid red when the unit is powered on.
2. Pump ON - This LED is solid green while the pump is running.
3. Fill - This LED flashes green when the water level remains low for more than one minute. During this time, the pump will automatically 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 remains low for less than one minute. After one minute, it turns solid red.



Section 3.2.2: 48" Single-Speed Units

The control panel on a 48" single-speed unit has the following ON/OFF inputs:

1. Fan Control - This switch starts and stops the fan.
2. Pump Control - This switch starts and stops the water pump.



PolarCool Operation

Startup

1. Position fan on stable, level surface and set caster brakes.
2. Attach water hose to inlet and fill pan.
3. Start pump 10 min. before fan. (Do not run pump with empty pan.)
4. Adjust spray bar to desired pressure.
5. Start fan. (Do not move PolarCool with fan running.)

Shut Down

1. Stop pump 15 min. before stopping fan.
2. Stop fan when pads are dry.

Winterization

When storing for extended periods:

1. Flush & clean reservoir. Never leave water in reservoir for extended periods.
2. Remove & backwash pads. Remove any debris or deposits from pad.

Maintenance

1. Do not use in closed environment. Fresh air is a necessity.
2. Do not add bleach or chlorine to water.
3. If power cord extension is necessary, insure that 14 AWG or larger wire is used.
4. To prevent algae, dry pads daily by running the fan without the pump on.
5. Routinely inspect fan belt (when applicable) for looseness and inspect spray bar for debris in holes.
6. Flush & clean reservoir weekly to prevent damage to unit.
7. Refer to user manual for more detailed information.

ON  **ON**

OFF  **OFF**

FAN CONTROL **PUMP CONTROL**

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Section 3.3: Starting

NOTICE: Do not run the pump without water in the reservoir. Doing so may damage the pump. On an 18", 24", or 36" unit, the liquid level switch will cause the pump to shut down when the water level is too low.

CAUTION: Even if the casters are locked, do not place the unit on a slope or near a ledge.

CAUTION: 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.

1. Connect the water hose to the inlet tap.
2. Plug in the power cord.
3. Wait for the reservoir to fill.
4. Once the reservoir is full, turn on the pump and let the water run for approximately 15 minutes.
5. Turn on the fan.
6. If the cooling pads are new (including those shipped with the unit), saturate them according to Section 4.2.2.

Section 3.4: Shutting Down

1. Turn off the pump.
2. Wait 10 to 15 minutes to allow the cooling pads to dry, preventing algae from growing (see Section 4.2.1).
3. Turn off the fan.
4. Unplug the power cord.
5. Disconnect the water supply.

Section 4: Maintenance

Section 4.1: Regular Preventive Maintenance

1. Ensure the cooling pads receive the correct amount of 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. At the end of each day, run the fan with the pump off for approximately 15 minutes until the cooling pads are completely 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. At least once per week, flush the system and wipe the reservoir clean. PolarCool recommends using specialized Refresh tablets (0503-1009), which are available at polarcoolstore.com.
10. At least once per week, clean the pump filter.
11. Routinely inspect the spray bar for residue that may cause clogs.
12. Routinely inspect the unit for leaks and correct any as soon as they are found.
13. At least once per month, inspect all electrical insulation on the internal harness and the power cord for signs of wear.
14. At least once per month, inspect the motor seal for damage; openings may allow water to contact the electrical circuits.
15. At least once per quarter, clean and disinfect the entire system.
16. If the water supply contains hard water, PolarCool recommends using specialized hard water treatment tablets (0503-1011), which are available at polarcoolstore.com.
17. During extended shutdowns, drain the system completely.
18. If you must use an extension cord, ensure the wire is 12AWG or larger.
19. On a 48" unit, routinely inspect the fan belt for looseness; tighten it if necessary.

Section 4.2: Cooling Pads

Section 4.2.1: Cleaning and Replacement

PolarCool cooling pads are made with a cellulose base impregnated with a plastic anti-rot agent. With proper maintenance, they 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:

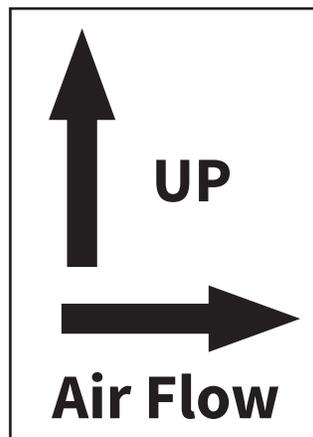
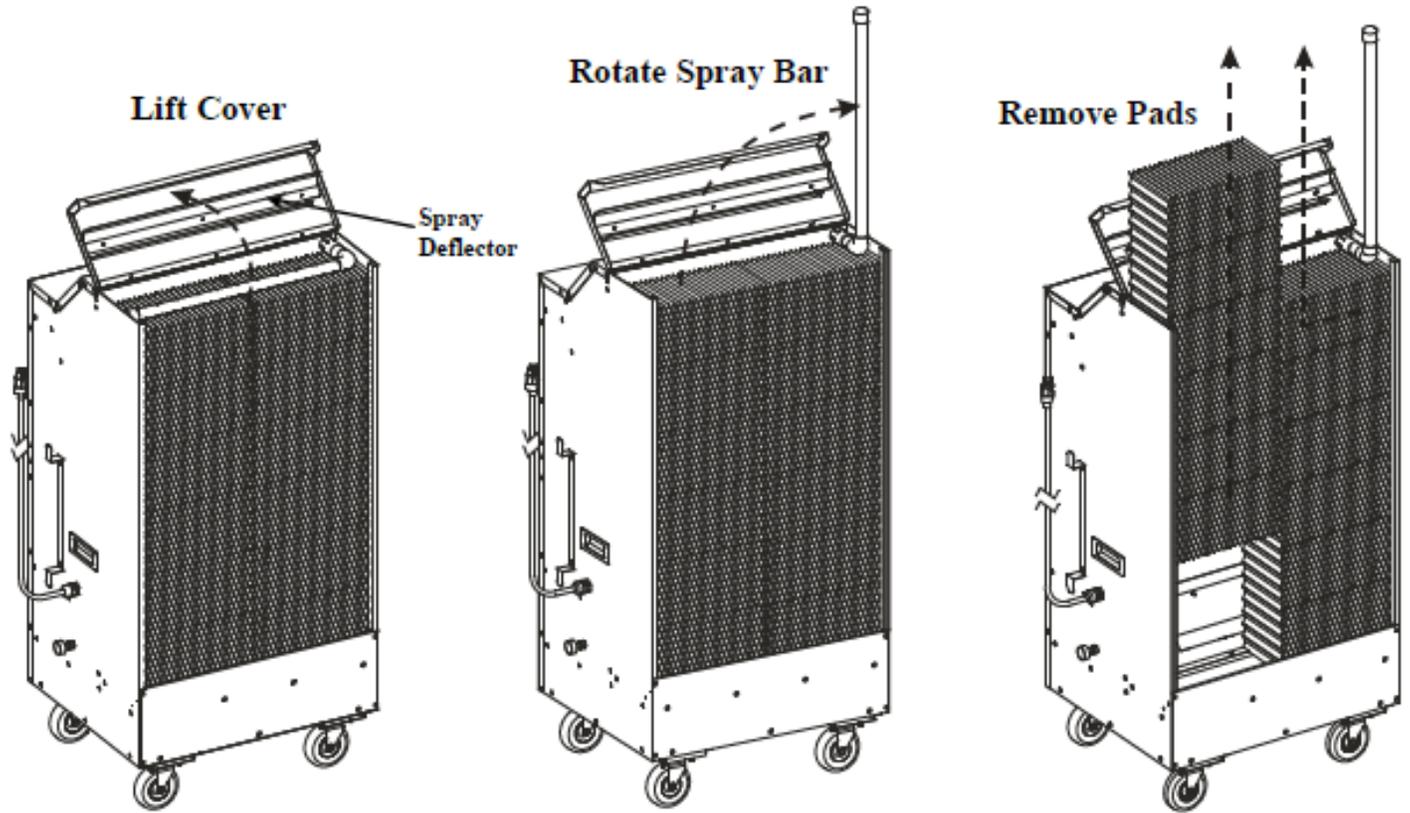
- Dust
- Algae, which can be prevented by running the fan with the pump off until the pads are completely dry (~15 minutes) each day.
- Scale, which can be prevented by using water with 6-9pH and silica below 150 ppm. PolarCool recommends using specialized hard water treatment tablets (0503-1011), which are available at polarcoolstore.com.

The cooling pads are accessed as follows:

1. Turn off the pump and the fan, then unplug the power cord, and then disconnect the water supply.
2. Open the cover at the top of the unit.
3. Remove the pads, tilting the spray bar if necessary.
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. Reorient the spray bar if necessary.
9. Reconnect the unit to the water and power supplies, then run the pump for ~20 minutes. Use as much water as possible.

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

10. Hose down any deposits remaining on the pads.
11. Empty the reservoir to remove any residue that seeps from the pads.
12. Refill the reservoir.
13. If you have installed new cooling pads, break them in according to Section 4.2.2.





Section 4.2.2: Breaking in New Cooling Pads

The slick surface of new cooling pads prevents them from absorbing water as effectively as older pads. Therefore, new cooling pads (including those shipped with new units) 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.

NOTICE: If the residue causes excessive foaming, reduce the water flow.

2. Turn off the pump and the fan, then unplug the power cord, and then 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.

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

Section 4.3: Cleaning Spray Bar

If the spray bar becomes clogged, spots on the cooling pads may absorb inadequate water (causing 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, then unplug the power cord, and then disconnect the water supply.
2. Raise the cover at the top of the unit.
3. Remove the cooling pads.
4. Run a pipe cleaner through the holes at the top of the spray bar.
5. Remove the caps from the ends of the spray bar.
6. Run a dowel through the spray bar.
7. Reinstall the end caps.
8. Ensure the holes in the spray bar are oriented upward.
9. Reinstall the cooling pads. Ensure the "UP" and "Air Flow" arrows are oriented properly.
10. Close the cover.
11. Reconnect the unit to the water and power supplies.

Section 4.4: Adjusting Water Pressure

The water pressure can be adjusted by turning the flow control valve as follows:

1. Turn the valve counterclockwise to increase the pressure. The valve is fully open when the knob is completely parallel to the hose.
2. Turn the valve clockwise to decrease the pressure. The valve is fully closed when the knob is completely perpendicular to the hose.



Fully Open



Halfway



Fully Closed



Section 4.5: Changing Reservoir Water Level

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

NOTICE: The water level is normally 2-1/4" (± 1 "), or 1" below the bottoms of the pads. Do not allow the water in the reservoir to contact the cooling pads.

1. Turn off the pump and the fan, then unplug the power cord, and then disconnect the water supply.
2. Open the cover at the top of the unit.
3. Remove the cooling pads, tilting the spray bar if necessary.
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. Reorient the spray bar if necessary.
8. Close the cover.
9. Reconnect the unit to the water and power supplies.

Section 4.6: Cleaning Reservoir

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, then unplug the power cord, and then disconnect the water supply.
2. Open the cover at the top of the unit.
3. Remove the cooling pads, tilting the spray bar if necessary.
4. Drain the reservoir using the drain outlet (18", 24" or 36" unit) or the discharge valve and pump (48" unit).

NOTICE: A drain hose and cutoff valve (not supplied) can be attached to the drain pan outlet below the unit.

5. Wipe the reservoir clean of debris using warm water and mild soap.

NOTICE: Do not use bleach, ammonia, or other harsh cleaners such as bathroom spray. PolarCool recommends using specialized Refresh tablets (0503-1009), which are available at polarcoolstore.com.

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.

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

9. Turn off the pump, then unplug the power cord, and then 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. Reorient the spray bar if necessary.
14. Close the cover.

Section 4.7: Cleaning Pump Filter

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

1. Turn off the pump and the fan, then unplug the power cord, and then disconnect the water supply.
2. Open the cover at the top of the unit.
3. Remove the cooling pads, tilting the spray bar if necessary.
4. Cut the cable 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 any debris is removed.
8. Reinstall the filter.
9. Reinstall the pump, replacing the zip tie.
10. Reinstall the cooling pads, ensuring the "UP" and "Air Flow" arrows are oriented properly. Reorient the spray bar if necessary.
11. Close the cover.
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.

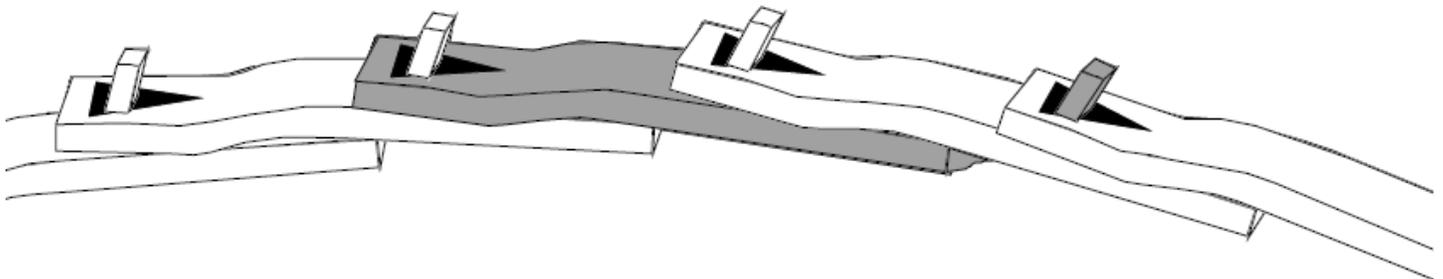
NOTICE: Do not run the pump without water in the reservoir. Doing so may damage the pump.



Section 4.8: Inspecting and Adjusting Fan Belt (48" Units Only)

The fan drive belt must be periodically inspected for proper tension, then tightened if necessary. Additionally, during setup of a new unit, the belt must be checked after the first 30 minutes of operation and then again after 24 hours.

1. Turn off the pump and the fan, then unplug the power cord, and then disconnect the water supply.
2. Open the cover at the top of the unit.
3. Remove the cooling pads, tilting the spray bar if necessary.
4. Press a finger against the belt around halfway between the pulleys. The belt should bow approximately 3/4".
5. If the belt bows too much, slowly rotate it while rolling it off the propeller pulley.
6. Turn the belt inside out so the tabs face away from the center.
7. Flex the belt to form a short, tight loop at one end.
8. Twist and unlock the tabs to open the belt.
9. Remove links as required to tighten the belt.
10. Reconnect the belt by locking the tabs into the holes on adjacent links.
11. Twist the belt so the tabs are back on the inside.
12. Hook the belt onto the motor pulley.
13. Roll the belt onto the propeller pulley.
14. Test the tension again. If necessary, repeat Steps 4-14.
15. Reinstall the cooling pads, ensuring the "UP" and "Air Flow" arrows are oriented properly. Reorient the spray bar if necessary.
16. Close the cover.
17. Reconnect the unit to the water and power supplies.





Section 4.9: 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 4.2.1.
2. Flush and clean the reservoir according to Section 4.6. 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 the in reservoir.
4. Cover the unit, then store it in a dry, secure location.

NOTICE: Specialized covers are available at polarcoolstore.com.

Section 5: Troubleshooting

Problem	Action(s)
One or more casters will not turn.	<ul style="list-style-type: none"> • Ensure the casters are not locked. • Ensure the caster hardware is installed correctly.
Water overflows during setup of a new unit.	<ul style="list-style-type: none"> • Remove the tape from the float valve.
Water is splashing off the cooling pads instead of soaking in.	<ul style="list-style-type: none"> • Ensure the pads are oriented according to the "UP" and "Air Flow" arrows.
Water is spraying out of the top cover.	<ul style="list-style-type: none"> • Ensure the holes in the spray bar point toward the spray deflector.
Water is not spraying out of the spray bar at all.	<ul style="list-style-type: none"> • Ensure the pump is turned on. • Ensure there is enough water in the reservoir. • Check the pump filter for obstructions.
Water is spraying out of only some holes in the spray bar.	<ul style="list-style-type: none"> • Adjust the water pressure using the flow control valve. • Clean the spray bar. • Check the pump filter for obstructions.
The pads have dry spots or streaks.	
Water overflows at any point after initial setup.	<ul style="list-style-type: none"> • Adjust the float valve to a lower position.
The fan motor does not turn on.	<ul style="list-style-type: none"> • Inspect all buttons/switches, the power cord, the outlet, and the circuit breaker for damage.
The propeller on a 48" unit slips and/or does not turn.	<ul style="list-style-type: none"> • Inspect the fan belt. Secure the belt if it is loose; order a replacement if it is broken.
The motor overheats and shuts off, then restarts minutes later.	<ul style="list-style-type: none"> • Ensure the unit receives unobstructed airflow. • Use a larger-gauge extension cord.
The pump on a 18", 24", or 36" unit does not work.	<ul style="list-style-type: none"> • Check the Low Water and Fill indicators. • Check the pump filter for obstructions.

Section 6: Replacement Parts

Section 6.1: 18" Units

Description	Part Number
120V; 60 Hz Water Pump	6422-0640
115V; 1/3 HP Variable-Speed Fan Motor	3017-0050
18" 6-Blade Fiberglass Propeller	6403-5611
Control Panel	6450-6058
36" x 12" x 6" Cooling Pads (x2)	6450-6021
Float Valve Assembly	1009-0107
Wiring Harness	1903-6000
Liquid Level Switch Assembly	3001-0050
Drain Assembly	0006-7010
Drain Cap	0006-7011
4" Rubber Casters (x4)	6450-4000
3-Position Terminal Block	3006-5082
2-Position Terminal Block	3006-5107
10A Fuse	3010-3011
1A Fuse	3010-2999
Electronics Enclosure Seal	1028-3500
Control Panel Nut	1001-0110



Section 6.2: 24" Units

Description	Part Number
120V; 60 Hz Water Pump	6422-0645
115V; 1/3 HP Variable-Speed Fan Motor	3017-0050
24" 3-Blade Fiberglass Propeller	6403-5612
Control Panel	6450-6059
36" x 12" x 8" Cooling Pads (x3)	6450-6005
Float Valve Assembly	1009-0107
Wiring Harness	1903-6000
Liquid Level Switch Assembly	3001-0050
Drain Assembly	0006-7010
Drain Cap	0006-7011
4" Rubber Casters (x4)	6450-6050
3-Position Terminal Block	3006-5082
2-Position Terminal Block	3006-5107
10A Fuse	3010-3011
1A Fuse	3010-2999
Electronics Enclosure Seal	1028-3500
Control Panel Nut	1001-0110



Section 6.3: 36" Units

Description	Part Number
120V; 60 Hz Water Pump	6422-0645
115V; 1/2 HP Variable-Speed Fan Motor	3017-5600
36" 3-Blade Fiberglass Propeller	6403-5600
Control Panel	6450-6060
48" x 12" x 8" Cooling Pads (x5)	6450-6010
Float Valve Assembly	1009-0107
Wiring Harness	1903-6000
Liquid Level Switch Assembly	3001-0050
Drain Assembly	0006-7010
Drain Cap	0006-7011
6" Rubber Casters (x4)	6450-6051
3-Position Terminal Block	3006-5082
2-Position Terminal Block	3006-5107
10A Fuse	3010-3011
1A Fuse	3010-2999
Electronics Enclosure Seal	1028-3500
Control Panel Nut	1001-0110

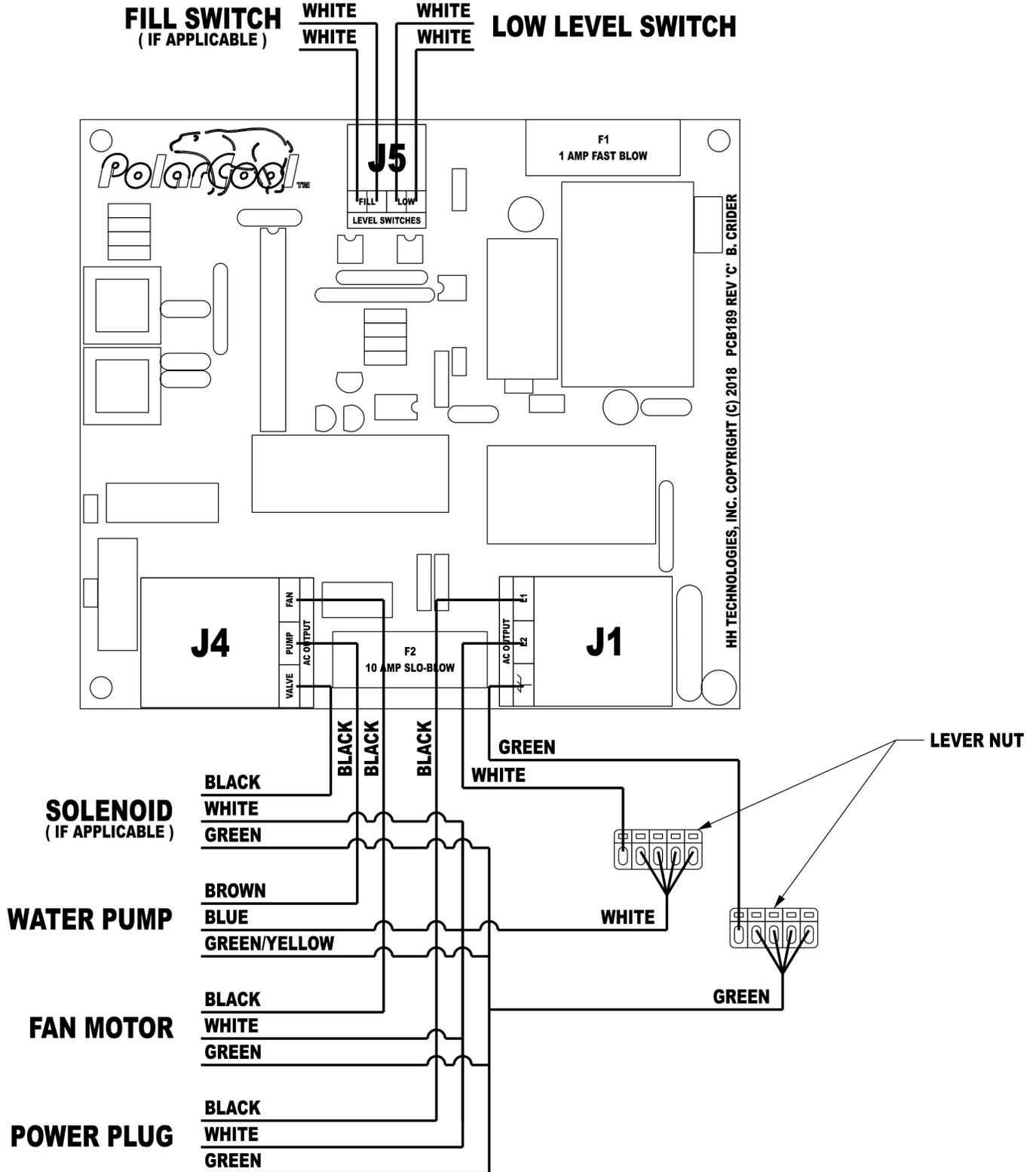


Section 6.4: 48" Units

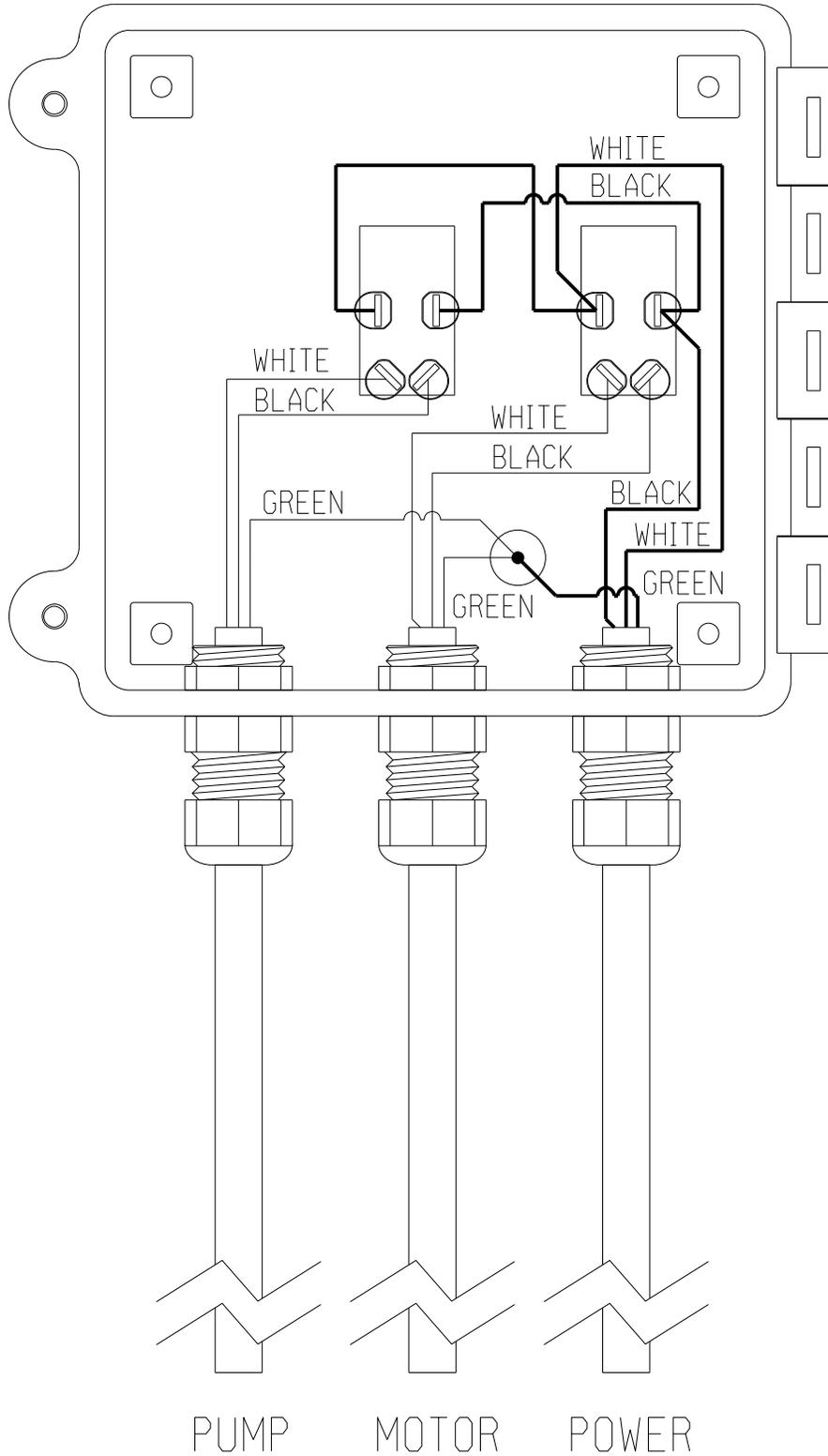
Description	Part Number
230V; 50/60 Hz Water Pump	6422-0647
1,775 RPM; 1HP; 240V; 50/60 Hz Fan Motor	3017-3080
48" 3-Blade Stainless Steel Propeller	6403-5014
230V; 60 Hz Fan Motor Pulley	1011-2650
Propeller Pulley	1011-0100
60" x 12" x 8" Cooling Pads (x6)	6450-6009
Float Valve Assembly	1009-0107
Fan Drive Belt (5' Required)	1022-2998
Liquid Level Switch Assembly	3001-0050
Drain Assembly	0006-7010
Drain Cap	0006-7011
6" Rubber Casters (x4)	6450-6051
1" x 16" Shaft (Requires x2 Key Shears [1019-2417])	0411-5626
Shaft-to-Pulley Key Shear	1019-2417
Pillow Block Bearing	1016-0100
Fan/Pump Switches (x4)	3001-2865
3-Position Terminal Block	3006-5082
2-Position Terminal Block	3006-5107
10A Fuse	3010-3011
1A Fuse	3010-2999

Section 7: Wiring Diagrams

Section 7.1: 18", 24", and 36" Units



Section 7.2: 48" Units



Section 8: Warnings/Avertissements



WARNING/AVERTISSEMENT

Do not place body parts, clothing, or other objects in the path of the blades or operate the fan without the guards in place. Death, serious injury, or equipment damage may result.

Ne placez pas de parties du corps, de vêtements ou d'autres objets sur le trajet des pales et ne faites pas fonctionner le ventilateur sans les protections en place. La mort, des blessures graves ou des dommages matériels peuvent en résulter.



WARNING/AVERTISSEMENT

All wiring must be in accordance with national electrical codes as well as any applicable local codes.

Tout le câblage doit être conforme aux codes électriques nationaux ainsi qu'à tous les codes locaux applicables.



WARNING/AVERTISSEMENT

Electric shock may occur when water and electricity are combined in an enclosed environment. Use this equipment only on a GFCI-protected, three-prong receptacle, ideally without an extension cord.

Un choc électrique peut se produire lorsque l'eau et l'électricité sont combinées dans un environnement clos. Utilisez cet équipement uniquement sur une prise à trois broches protégée par GFCI, idéalement sans rallonge.



WARNING/AVERTISSEMENT

Do not operate this equipment with a damaged power cord or outlet. If the cord and/or outlet is damaged, submit the equipment to an authorized service facility for repair.

N'utilisez pas cet équipement avec un cordon d'alimentation ou une prise endommagés. Si le cordon et / ou la fiche sont endommagés, apportez l'équipement à un centre de service agréé pour réparation.



PROPOSITION 65 WARNING

California Proposition 65 Warning: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer or birth defects or other reproductive harm.

For more information, go to www.p65warnings.ca.gov/furniture.