

Owners Manual



INCLUDES

PORT-A-COOL CYCLONE™

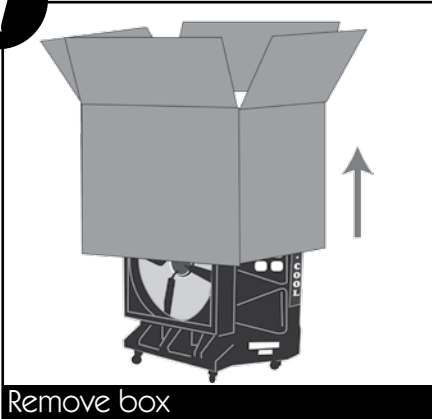
PORT-A-COOL JETSTREAM™



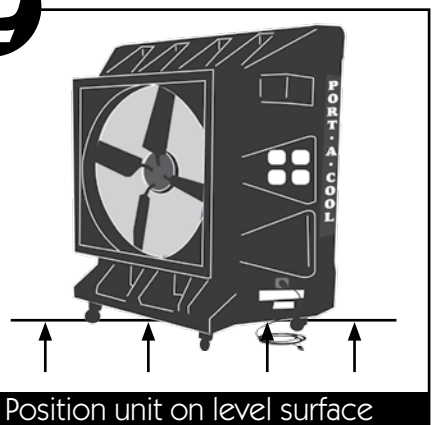
***READ AND SAVE
THESE INSTRUCTIONS***

QUICK SET UP GUIDE

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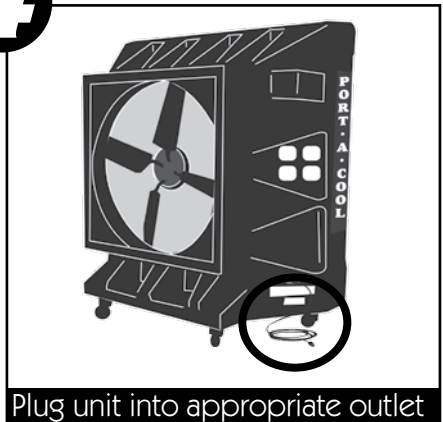
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3



4



5

Pads should appear wet before starting the fan. Check the water gauge (see instructions for setup) to monitor water level in tank.



PORT-A-COOL®

Evaporative Cooling Unit

OWNERS MANUAL

FOR ELECTRIC MODELS

PAC2K482S, PAC2K361S, PAC2K363S, PAC2K36HPVS, PAC2K24HPVS, PAC2K16HPVS, PAC2K163SHD, PAC163SVT, PACJS1600, PACJS2400, PAC2KCYC01, PAC2KCYC01A, PACCYC02, PACCYC02A

INCLUDES EXPORT MODELS

PACCYC22050, PACCYC22060, PACCYC22050A, PACCYC22060A, PACJS160022050, PACJS160022060, PACJS240022050, PACJS240022060, PAC161SVT22050, PAC161SVT22060, PAC16HPFC-22050, PAC16HPFC-22060, PAC2K161FC22050, PAC2K161FC22060, PAC2K161S-22050, PAC2K161S-22060, PAC2K16HP-22050, PAC2K16HP-22060, PAC2K24HP220-50, PAC2K24HP220-60, PAC2K362S220-50, PAC2K36HP220-50, PAC2K36HP220-60, PAC2K481S220-50, PAC2K481S220-60

READ AND SAVE THESE INSTRUCTIONS

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I. SAFE OPERATION - READ BEFORE PROCEEDING

TO REDUCE THE RISK OF ELECTRIC SHOCK, FIRE OR INJURY

- **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, or cover cord with throw rugs, runners, or similar coverings. Arrange cord away from traffic area to prevent tripping.**
- **Read instructions and labels carefully.**
- **Always unplug electric cord before working on the unit.**
- **Plug only into three-prong grounded GFCI protected electrical receptacle.**
- **Do not operate if there is any damage to the plug or cord.**
- **Do not step on or roll over power cord with heavy or sharp objects.**
- **Do not operate unit unless all pads are securely in place.**
- **Remove plug from electrical outlet by pulling on the plug and not the cord.**
- **Test GFCI receptacle or breaker monthly to ensure proper function.**
- **Do not operate near open containers of flammable liquids or gases.**
- **Never wash housing with garden hose. Water may damage motor and electrical system.**
- **If unit is damaged or malfunctions, do not operate. Refer to the warranty, troubleshooting or FAQ section. Contact Port-A-Cool, LLC, Technical Support at (888) COOL-AIR (1-888-266-5243), or email support@port-a-cool.com.**
- **Do not leave running unit unattended.**

II. SETUP

A. Unpacking the PORT-A-COOL® unit.

PORT-A-COOL® units are shipped completely assembled. The PAC2K482S, PAC2K361S, PAC2K363S, PAC2K36HPVS, PAC2K24HPVS, PAC3SVT, PACJS1600, PACJS2400, PAC2KCYC01 and PAC2KCYC01A models ship on a plastic pallet with a cover box strapped over the unit. Cut the straps and remove the box by lifting it over the unit. Remove the protective plastic dust cover and lift the unit off the pallet.

Models PAC2K163SHD, PAC2K16HPVS, PACCYC02 and PACCYC02A are shipped in an enclosed corrugated box. Remove from box to unpack.

B. Connecting the water and electricity.

Water Connection

PORT-A-COOL® UNIT MUST BE IN UPRIGHT AND LEVEL POSITION

Locate the brass hose adapter on the side of the PORT-A-COOL® unit (all models except PAC163SVT) near the water adjustment and drain valves. Verify that the hose washer is in position and in good condition. Attach a standard garden hose to the brass hose adapter and tighten to preclude leaks. Turn water on to fill the sump tank.

On models equipped with a manual water fill and sight tube, the water tank in the lower portion is designed to be filled at a remote location and can be used without a water hose connected. Fill the tank using the sight tube as a gauge.

UNIT IS EQUIPPED WITH 50 PSI WATER REGULATOR. DO NOT BYPASS.
WATER INLET PRESSURE SHOULD NOT EXCEED 50 PSI MAXIMUM

Visually inspect water connections for leaks and verify that the connections are secure. Remove the pads by following the instructions in Section VI of the owners manual. Once the sump tank is filled, the water flow should cease and the inlet connections visually checked for leaks. All of these inspections have been performed at the factory but shipping may have caused connections to loosen. Replace the pads by reversing the removal operation.

Electrical Connection

PORT-A-COOL® UNIT MUST BE IN UPRIGHT POSITION WITH COOLING PADS INSTALLED

All models utilize a single power cord and control switches. Before connecting the plug to an outlet, ensure that there is no standing water where the cord may lie or the operator is standing. The use of separate multiple outlet devices are not recommended.

When making electrical connections, ensure that local and national codes are adhered to. Use only with GFCI Protected Receptacles. Please refer to the [Barcode Product Label](#) on the side of the unit for specific electrical requirements.

III. OPERATING PROCEDURES

A. Specifications

For specifications of a specific PORT-A-COOL® model, check the serial number plate on the unit, contact a distributor or visit www.port-a-coolllc.com.

B. Placement of the PORT-A-COOL® unit

PORT-A-COOL® UNITS SHOULD BE USED ONLY IN WELL-VENTILATED AREAS

Three important factors for choosing where to locate the PORT-A-COOL® unit ...

- 1) Fresh Air Supply** - The inlet side of the unit (pad side) must be placed to ensure that a smooth, uninterrupted supply of fresh air is available.
- 2) Air Pattern** - The cool air discharged from the fan side of the unit should have a clear area in which to circulate, being as free of obstructions as possible.
- 3) Ventilation (Outside Air Source)** - There should be a defined place (window, door, etc.) in which the air from the unit can be exhausted from the area being cooled, and outside air drawn in to prevent the unit from recirculating air that has already been through the cooling process.

The PORT-A-COOL® unit creates a fan-shaped air pattern that disburse the air over a large area. This pattern may be disturbed or broken up by obstacles such as shelves, work benches, etc. It is important to insure that a clean, unbroken path for the air from the unit is provided to the maximum extent possible.

If the PORT-A-COOL® unit is elevated above any low obstructions in order to increase the air flow coverage, ensure that the platform constructed for holding the unit is stable, well constructed, and sturdy. The unit must be level and in the upright position. When supporting with a platform allow for the full weight of a functioning unit by including the weight of the water both in the sump tank and the added weight of the water saturated cooling pads. The total weight could be in excess of 500 lbs. (227 kg.).

When the unit is placed near a wall or other obstruction, it is recommended that a distance of at least 3 feet (1 meter) from the wall or obstruction to the face of the cooling pads be maintained to allow the unrestricted flow of warm air to the cooling pad side of the unit. When using multiple units in close proximity, be sure to aim the unit so that the air flows compliment each other and not oppose. Opposition will negate the airflow and allow an area of dead air to accumulate between units.

C. Starting the pump and adjusting the water flow

Once the sump tank is full, moving the pump switch to the "ON" position will turn on the pump.

When initially turning on the pump, the level in the sump will drop suddenly and restart the flow of supply water. This is a normal condition as the cooling pads require a large amount of water for proper wetting.

When the PORT-A-COOL® unit is new, the new pads will require an initial 'breaking-in' period. This period is required for the pads to begin readily absorbing water. It may require up to a week to achieve maximum efficiency.

It is important to insure that the spray bar is properly adjusted when first starting the water flow in the PORT-A-COOL® unit. Increasing or decreasing the flow using the spray bar adjustment valve on the side of the unit makes this adjustment.

Proper water adjustment should leave the pads saturated with water, but not flooded. Pads should appear wet, however, cascading amounts of water can actually reduce cooling efficiency. Proper adjustment will prevent problems and increase cooling capacity.

When turning the fan off at the end of the day or week, the pump should be turned off about 15 minutes before the fan to allow the cooling pads to dry. This will increase the life of the pads.

CAUTION - DO NOT RUN PUMP WHEN SUMP IS DRY

D. Starting the fan

COOLING PADS MUST BE INSTALLED AND CASTER LOCKS MUST BE ENGAGED

Start the fan by turning the fan switch to the 'ON' position, or to one of the available speeds on the multi-speed models. On the multi-speed model, it is preferred to step slowly through the speeds allowing the fan to obtain its full speed at the LOW speed before going to MEDIUM and before going to HIGH.

IV. MAINTENANCE & STORAGE

Very little maintenance is required on the PORT-A-COOL® unit. Cleanliness is the most important part of a maintenance program. Keeping the unit clean will do more than any other single item to keep your unit in peak operating condition. The rugged, corrosion-resistant construction of the unit and industrial grade components ensure low maintenance characteristics. In exceedingly dusty or dirty environments, optional filters are available from your distributor, or at www.port-a-coolparts.com

A. Daily Maintenance

Daily maintenance is an operational routine rather than actual maintenance. On a daily basis, the pump should be turned off approximately 15 minutes before the fan is turned off. This will allow the cooling pads to dry out and extend their life, helping to control the growth of mildew, mold, bacteria and other odor causing elements.

B. Weekly Maintenance

At the end of the week or at a scheduled time, the unit should be shut down and the sump tank should be drained. Closing the Spray Bar Adjustment Valve and opening the Drain Valve will accomplish this. If it is desired, a hose may be attached to the Drain Valve to direct the drained water to a remote disposal area. Once the Drain Valve is open, starting the pump will drain the unit. When the pump has removed most of the water, a small amount will be left in some areas. The PAC2K163SHD, pac2K16HPVS, PACCYC02, PACCYC02A, PACJS1600, PACJS2400 and PAC163SVT models come equipped with a drain plug. Removal of the drain plug will accomplish the same results without the use of the pump.

Once the sump is drained and the power disconnected, remove the pads to allow inspection and cleaning of the sump tank. Dust may collect in the sump tank over time. Dirt and any remaining water can be vacuumed out using a wet/dry shop vacuum and the sump wiped clean with a cloth. Also, inspect and clean the Inlet Strainer located on the bottom of the pump. Replace pads in correct airflow direction, referring to label on the pads.

C. Storage

- 1) Drain all water from the sump tank and clean, ensuring that the pads and sump are completely dry.
- 2) Roll up the electrical power cord and secure it to ensure that it will not be rolled over, tripped over or caught in equipment.
- 3) Cover the unit completely to prevent dust build-up and store in a dry area which also helps prevent damage to the pads. Optional dust covers are available from PORT-A-COOL® distributors or at www.port-a-coolparts.com.

CAUTION — DISCONNECT POWER BEFORE REMOVING PADS FROM THE UNIT

NOTICE — ONLY THE MANUFACTURER OR QUALIFIED AGENT CAN REPLACE POWER CORD

D. TECHNICAL SUPPORT

Technical support and service is available directly from a distributor, or by calling PORT-A-COOL, LLC Technical Support Hot Line at 888-266-5243 (888-COOL-AID) for the nearest distributor. The Support Hot Line is also the number to call for parts replacement.

Please have serial number and model number of unit available.

V. WARRANTY AND REPLACEMENT PARTS

A. PORT-A-COOL® Unit Limited Warranty

For one year from date of installation, PORT-A-COOL, LLC warrants any original component part or parts of the PORT-A-COOL® evaporative unit found, upon examination by factory-authorized personnel, to be defective in material or workmanship, excepting, however, that the high-performance, fan motor utilized as a component of the PORT-A-COOL® HP portable evaporative cooling unit shall be warranted by PORT-A-COOL, LLC for a period of three years from the date of installation. All transportation charges on parts submitted for replacement or repair under this warranty must be borne by the purchaser. If said equipment develops such defects within this period, it will be repaired or replaced at our option. For breach of any implied or written warranty on this product, PORT-A-COOL, LLC., shall not be liable for any incident or consequential damages. This warranty is declared void if the equipment is found to have been misused, abused or tampered with by unauthorized personnel.

Due to warranty limits placed on our products by the original manufacturers, our warranty is limited on manufactured units and their original component parts as well as replacement parts to a total of one (1) year after the date of installation, with the above noted 3-year warranty relating to the high-performance fan motor utilized as a component of the PORT-A-COOL® HP portable evaporative cooling unit being the only exception.

B. Returned Merchandise Authorization (RMA) Procedures

All Port-A-Cool® units, parts, or materials being returned to PORT-A-COOL, LLC for warranty replacement or repair require an RMA (Return Merchandise Authorization) number.

Warranty parts can be replaced by:

1. The distributor can purchase the part with an RMA number and will only be charged for the cost of the part, not for the shipping. When the defective part is returned freight paid, the distributor's account will be credited for the cost of the part.
2. The customer / distributor can call Tech Support to get an RMA number to send the defective part back to PORT-A-COOL, LLC. Once the part is received by PORT-A-COOL, LLC, a replacement part will be sent at no charge.

Information needed to get an RMA number:

1. The unit serial number.
2. The unit model number (ex. PAC2K363S)
3. The part number or description of the part to be replaced.

Only major component parts need an RMA number, i.e. fans, motors, pumps, and some plumbing parts. For replacement of small parts, the serial and model numbers are still required, but the parts do not need to be returned to PORT-A-COOL, LLC.

For warranty replacement parts call PORT-A-COOL® Technical Support at 1-888-266-5243. FAX: 936-598-1431.

Shipping Address
PORT-A-COOL, LLC
721 FM 2468
Center, Texas 75935

Mailing Address:
PORT-A-COOL, LLC
P.O. Box 2167
Center, Texas 75935

C. FAN MOTOR REPLACEMENT

Belt Drive Models (PAC2K361S, PAC2K363S, PAC2K482S)

- 1) DISCONNECT POWER and remove the pads as shown on page 28.
- 2) Motor is located in center of unit. Switch box is located in upper left. (Figure 1) Locate motor harness wire secured to fan bracket assembly using plastic ties. Cut and remove plastic wire ties. DO NOT CUT ELECTRICAL HARNESS WIRES.
- 3) Remove switch box cover. (Figure 2) Unplug motor wire harness connector. Push rubber grommet on motor wire harness through switch box opening and remove motor harness from switch box.
- 4) Loosen four (4) bolts that secure the motor mounting plate. This will allow the motor plate to move up or down. Loosen and remove the belt from the motor pulley. (Figure 3)
- 5) On front of motor mount, remove belt pulley by loosening setscrew. Remove four (4) lock nuts securing motor to mount. Remove motor by sliding straight back out of mounting holes.
- 6) Install new motor by reversing steps above. (A.) Install new motor into motor mount and install four (4) lock nuts to secure motor to mount, but do not tighten. (B) Install motor pulley on motor shaft and align with fan blade hub pulley. Install fan belt on fan blade pulley by sliding motor plate away from the fan hub. Visually align the motor pulley and fan pulley by using the belt as a reference. (C) Adjust the motor pulley in or out to align. Tighten the motor pulley setscrew. (D) Apply pressure on the motor to further tighten the belt being careful not to over tighten. (About 15 pounds of pressure is sufficient). Complete tightening of the four (4) motor plate bolts. (E) Thread terminal end of motor wire through switch box opening and plug connector into switch connector. PROPERLY RESEAT RUBBER GROMMET SEAL ON HARNESS AT OPENING IN SWITCH BOX TO KEEP WATER OUT OF CONTROL BOX. FAILURE TO DO SO COULD CAUSE ELECTRICAL SHOCK. (E) Replace switch box cover. (F) Secure motor wire harness to fan bracket assembly using new wire ties. (G) Replace pads by installing from outside in toward center replacing center pad first.
- 7) Reconnect the unit power and test motor.

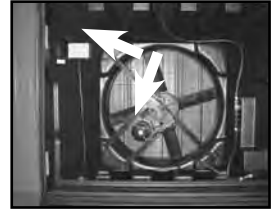


Figure 1



Figure 2



Figure 3

FAN MOTOR REPLACEMENT

Direct Drive Models (PAC2K36HPVS, PAC2K24HPVS, PAC2K163SHD, PAC2K16HPVS, PAC163SVT, PACJS1600, and PACJS2400)

- 1) DISCONNECT POWER and remove pads as shown on page 28.
- 2) Motor is located in center of unit. Switch box is located in upper left. Locate motor harness wire (Figure 1) secured to fan bracket assembly using five plastic wire ties. Cut and remove plastic wire ties. DO NOT CUT ELECTRICAL WIRES.
- 3) Remove switch box cover. Unplug motor harness wire connector. Push rubber grommet on motor wire harness through switch box opening and remove motor harness wire from switch box. Disconnect motor harness at the quick release connector. (Figure 2 NEXT PAGE)
- 4) Remove the screen from the front of the unit to access the fan side of the unit.
- 5) Loosen the nut from the threaded motor shaft and take the fan blade off. (Figure 3 NEXT PAGE)
- 6) Locate the 8 bolts (2 on each arm) holding the motor in place. (NOTE: the position of the motor on the mounting arms. Make sure to mount it in the correct railings of the motor housing and at the correct distance from front or back on all four arms to ensure stability and alignment) (See Figure 4 NEXT PAGE)



Figure 1

- 7) Loosen these bolts just enough to slide the old motor out; don't remove the bolts completely. Replace with new motor.
- 8) Thread terminal end of motor wire through switch box wire opening and plug five-pin connector into switch connector. that rubber grommet seal on harness is properly seated to keep water out of control box.
- 9) Replace switch box cover.
- 10) Secure motor wire to fan bracket assembly using new wire ties.
- 11) Replace pads by installing from outside toward center replacing center pad last.
- 12) Replace blade and screen to front of unit.

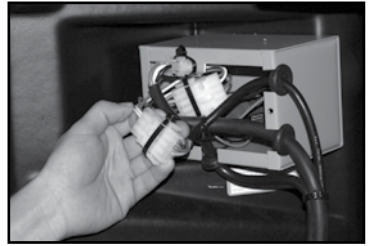


Figure 2

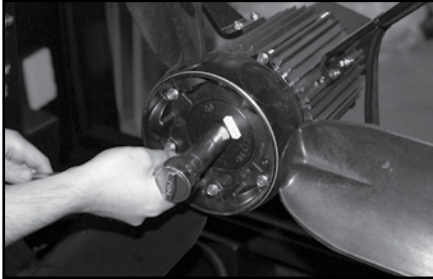


Figure 3

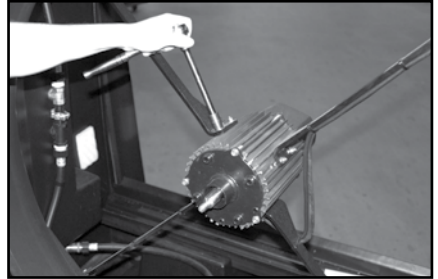


Figure 4

PUMP REPLACEMENT

MODELS PAC2K482S, PAC2K361S, PAC2K363S, PAC2K36HPVS, PAC2K24HPVS

- 1) DISCONNECT POWER and remove pads as shown on page 28.
- 2) Pump is in lower right of unit. Control box is in upper left. Locate pump wire secured to fan bracket assembly using plastic wire ties. Cut and remove plastic ties. DO NOT CUT ELECTRICAL WIRES. (Figure 1)
- 3) Remove screws from control box cover. Unplug pump wire connector. Push rubber grommet on pump wire through control box opening and remove pump harness wire from control box. (Figure 2)
- 4) Locate pump in lower right corner of the unit. Remove hose from pump by unscrewing hose connection. Remove two screws holding pump bracket to the unit housing. Remove entire pump assembly from the unit. (Figure 3)
- 5) INSTALL NEW PUMP BY REVERSING ABOVE PROCEDURES. (1.) Install new pump on pump bracket and attach bracket to housing. Replace pump hose. (2.) Thread terminal end of pump wire through control switch box and plug pump terminal into switch.
- 6) IMPORTANT: Ensure that rubber grommet seal is in properly seated to keep water out of switch box.
- 7) Replace switch box cover. Secure pump wire to fan bracket assembly using new bundle ties.
- 8) Replace pads by installing pads from outside toward center replacing center pad last. Replace pad flap with screws.

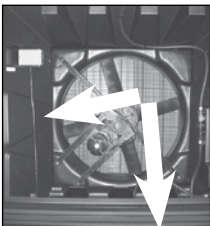


Figure 1

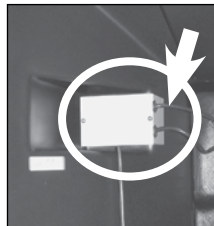


Figure 2

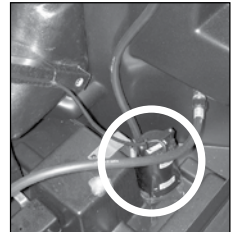


Figure 3

PUMP REPLACEMENT

MODELS PAC2K163S, PAC2K163SHD, PAC2K16HPVS

- 1) DISCONNECT POWER and remove pads.
- 2) Remove output tubing from insert fitting on base of pump.
(Figure 1-A)
- 3) Remove the switch box wiring cover and disconnect the 4-pin quick release connector from the pump switch assembly.
(Figure 1-B)
- 4) Remove the pump from the sump tank by removing two screws that hold the pump cover and pump in place.
(Figure 1-C)
- 5) Remove the pump cover from old pump install onto the new pump.
- 6) Reverse the above procedures to install the new pump.
- 7) Replace the cooling pads, positioning as shown on the air flow label.
- 8) Reconnect the unit power and test pump.

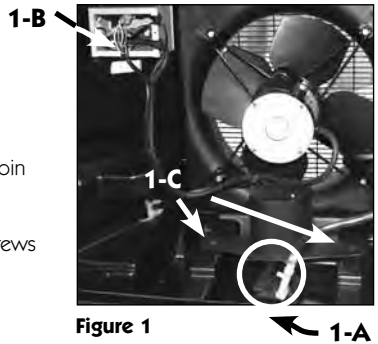


Figure 1

PUMP REPLACEMENT

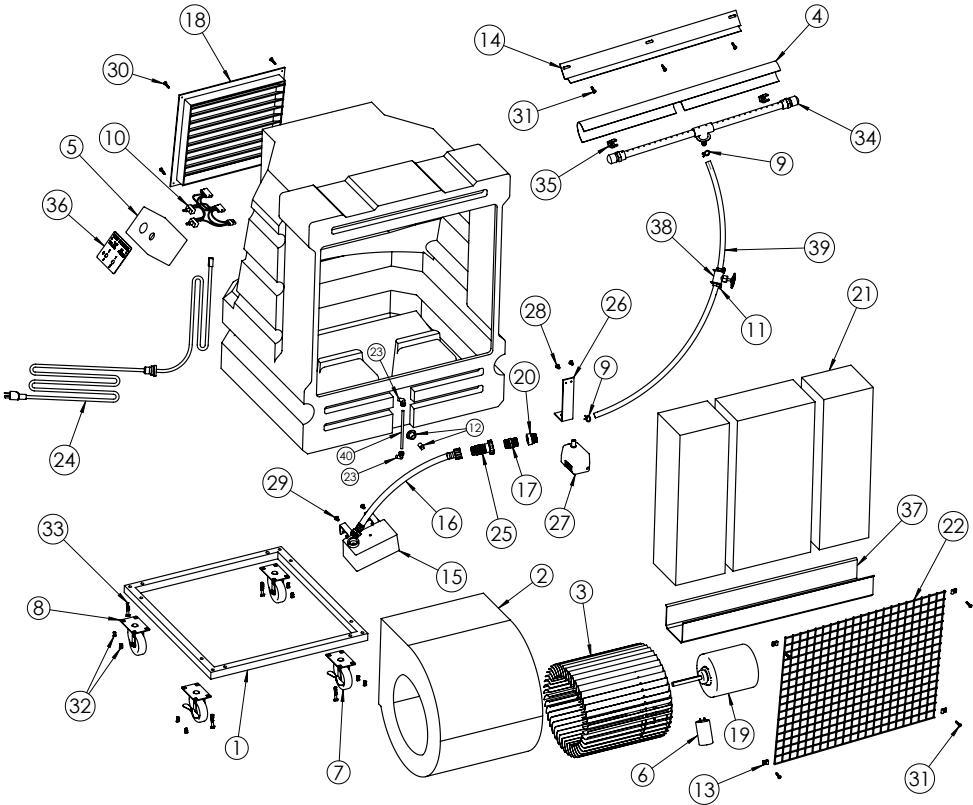
MODEL PAC3SVT, PACJS1600, PACJS2400

- 1) Disconnect electrical power to unit and remove pads.
- 2) Remove the cover plate on the electrical box to disconnect the motor quick connect and the zip ties holding it together.
(Figure 1)
- 3) Remove the pump from the sump.
- 8) Install new pump by reversing above steps.



Figure 1

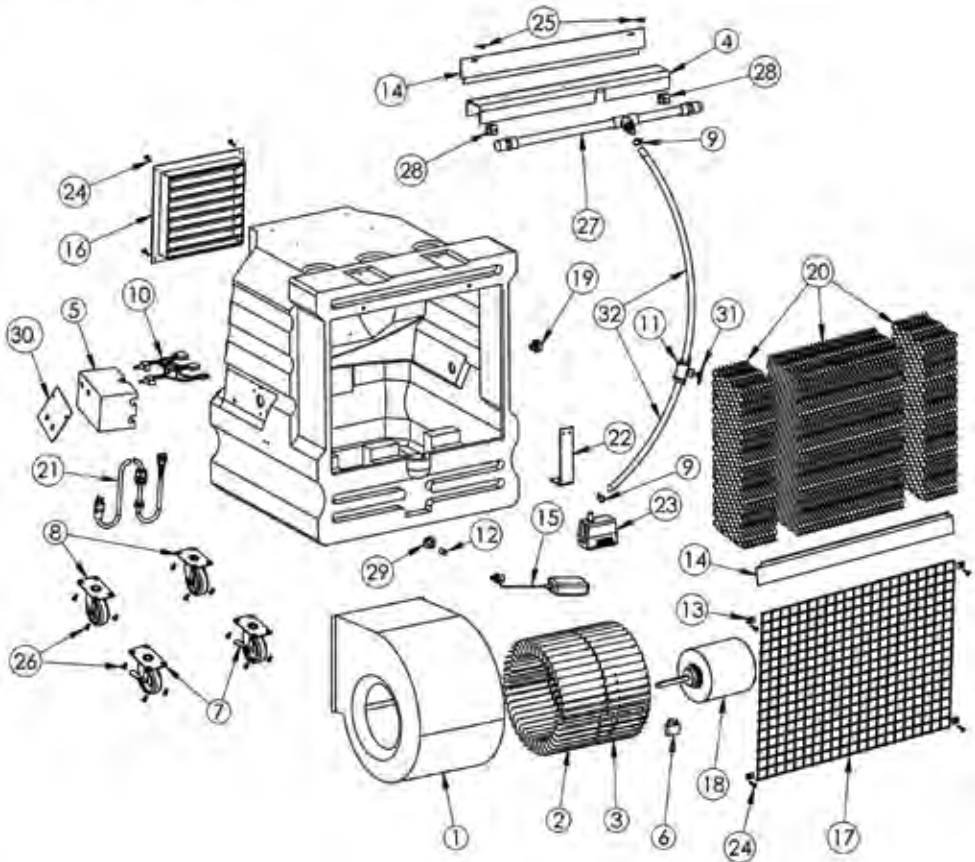
PAC2KCYC01



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BASE-CYCLONE	CADDY FRAME	21	PAD6022/26	KUUL PAD SET FOR CYCLONE
2	BLOWER-01	BLOWER HOUSING	22	PAD-SCREEN-CYL	CYCLONE UNIT PAD SCREEN
3	BLOWER-WHL-01	BLOWER WHEEL	23	POLY-FTG-06	90 DEG. FITTING FOR SIGHT TUBE
4	BONNET-05	BONNET	24	POWERCORD-02	10ft POWER CORD W / STRAIN RELIEF
5	BOX-UL-02	2 SPD UL ELECTRICAL BOX	25	PRES-REG-01	INLET WATER REGULATOR
6	CAPACITOR-01	PSU 25-30 CAPACITOR	26	PUMP-BRACKET-04	ALUM. BAR PUMP BRACKET
7	CASTER-3-L	3" LOCKING CASTERS	27	PUMP-CYCLONE	CYCLONE PUMP - PEM-020
8	CASTER-3-NL	3" CASTERS	28	RIVET-5/32-02	5/32 LARGE RIVET
9	CLAMP-01	1/2" WIRE SPRING CLAMP	29	S-004	FLOAT BOLT
10	CTRL-2SPD-01	2-SPEED SWITCH ASSEMBLY	30	S-006	TEC SCREW S006
11	CTRL-VLV-BRKT	VALVE-01 MOUNTING BRACKETS	31	S-009	10/24 x 3/3 TRUSS HEAD SCREW
12	DRAIN-PLUG-01	DRAIN PLUG	32	S-014	5/16 x 1" TRUSS HEAD SCREW
13	FANGUARDCLIP-01	CLIP	33	S-017	5/16 - 18 x 1.5" TRUSS HEAD SCREW
14	FLAP-05	FLAP	34	SPRAY-CYC-01	16" SPRAY BAR
15	FLOAT-02	FLOAT VALVE	35	SPRAY-ACC-04	SPRAY BAR CLIP
16	HOSE-FM18	18" FLOAT HOSE	36	SWITCHPL-2SPD	2 SPEED SWITCH PLATE
17	HOSE-FTG-05	SWIVEL HOSE FITTING	37	TROUGH-04	36"PAC TROUGH
18	LOUVERS-CYC-16	LOUVER FOR CYCLONE 3000	38	VALVE-01	PUMP TO SPRAY BAR CONTROL VALVE
19	MOTOR-013-07	1/3 HP - 2SPD MOTOR	39	TUBE-01	PUMP TO SPRAY BAR TUBING
20	PAC-PLB-01	INLET HOSE ADAPTER	40	TUBE-03	SIGHT TUBE

220/50 and 220/60 models may require additional parts. Please contact Customer Service at 936-598-5651 for assistance

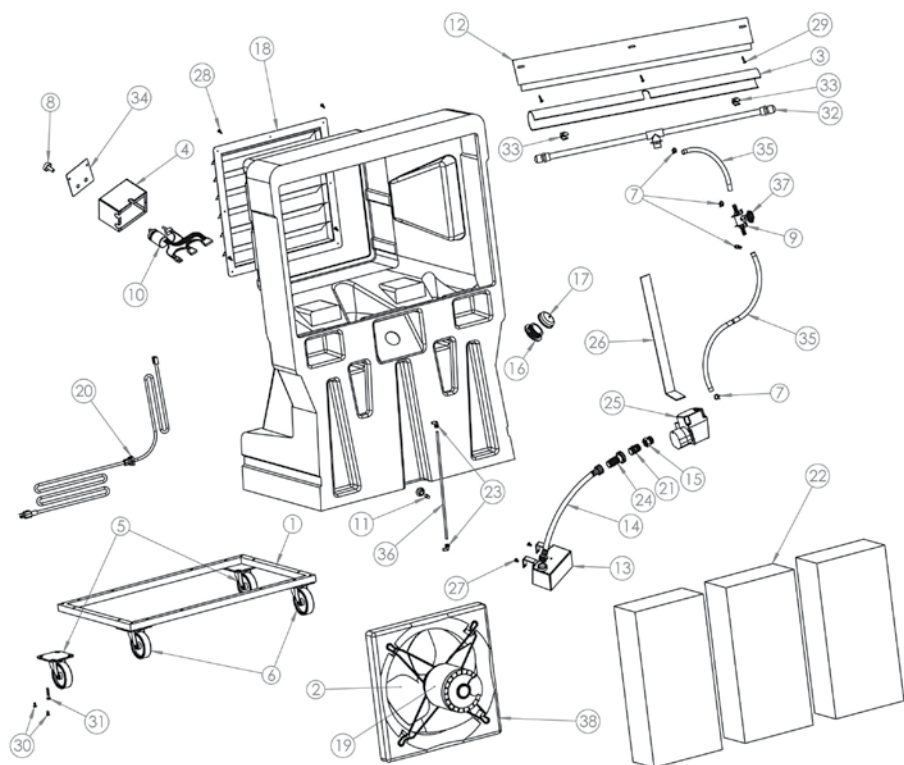
PACCYC02



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BLOWER-02	BLOWER HOUSING - CYCLONE2000	17	PAD-SCREEN-2	CYCLONE2000 UNIT PAD SCREEN
2	BLOWER-WHL-2CW	CYCLONE2000 BLOWER WHEEL (PART 1)	18	MOTOR-016-01	CYCLONE2000 - 2SPD MOTOR
3	BLOWER-WHL-3CCW	CYCLONE2000 BLOWER WHEEL (PART 2)	19	PAC-PLB-14	INLET HOSE ADAPTER FOR CYCLONE2000
4	BONNET-06	22.5" EXTRUDED BONNET-CYCLONE2000	20	PAD6019/22	KUUL PAD SET FOR CYCLONE2000
5	BOX-UL-02	1 & 2 SPD UL ELECTRICAL BOX	21	POWERCORD-02	10ft POWER CORD W / DOME STRAIN RELIEF
6	CAPACITOR-04	RUN CAPACITOR FOR CYCLONE2000	22	PUMP-BRACKET-5	PUMP MOUNT BRACKET-CYCLONE2000
7	CASTER-3-L	3" LOCKING CASTERS	23	PUMP-CYC-3	CYCLONE PUMP - OK400
8	CASTER-3-NL	3" CASTERS	24	S-006	TEC SCREW S006
9	CLAMP-01	1/2" WIRE SPRING CLAMP	25	S-009	10/24 x 3/3 TRUSS HEAD SCREW
10	CTRL-2SPD-01	2-SPEED SWITCH ASSEMBLY	26	S-014	5/16 x 1" TRUSS HEAD SCREW
11	CTRL-VLV-BRKT	VALVE-01 MOUNTING BRACKETS	27	SPRAY-CYC-02	SPRAY BAR FOR CYCLONE2000
12	DRAIN-PLUG-01	DRAIN PLUG	28	SPRAY-ACC-04	SPRAY BAR CLIP
13	FANGUARDCLIP-01	CLIP	29	SPIN-FTG-02	SPIN FITTING FOR 16" UNIT
14	FLAP-CYC-2	FLAP/SLASHGAURD-CYCLONE2000	30	SWITCHPL-2SPD	2 SPEED SWITCH PLATE
15	FLOAT-CYC-03	FLOAT VALVE	31	VALVE-01	PUMP TO SPRAY BAR CONTROL VALVE
16	LOUVERS-CYC-11	LOUVER W/MESH - CYCLONE2000	32	TUBE-01	PUMP TO SPRAY BAR TUBING

220/50 and 220/60 models may require additional parts. Please contact Customer Service at 936-598-5651 for assistance

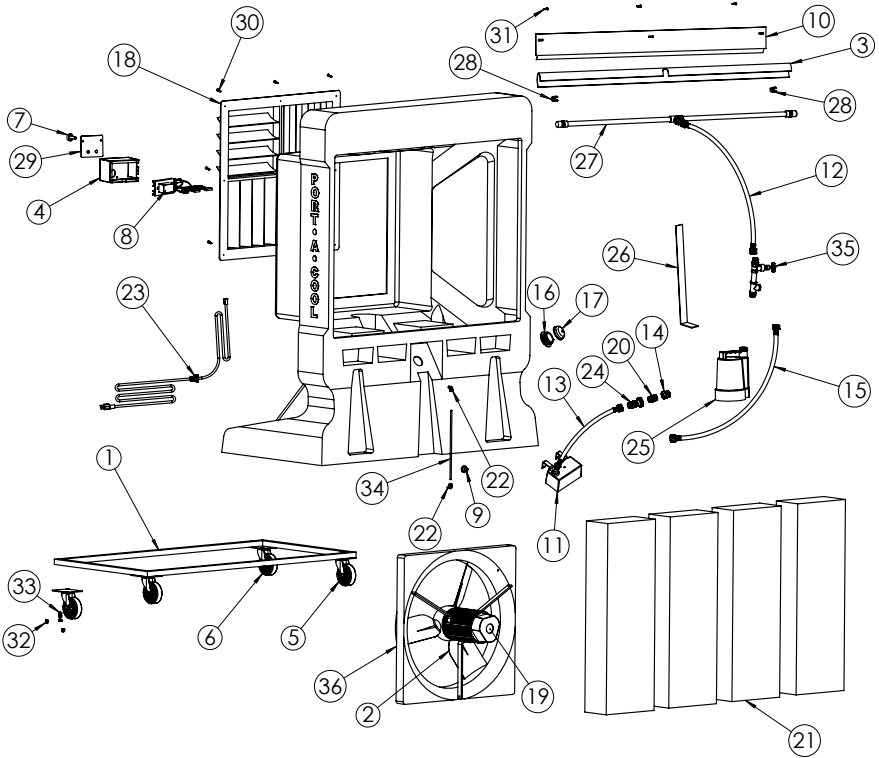
PACJS1600



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BASE-JS/VT	CASTER BASE ASSEMBLY FOR JS/VT	20	POWERCORD-02	10FT POWER CORD W/DOME STRAIN RELIEF
2	BLADE-ASSM-08	JS/VT 16" BLADE	21	PAC-PLB-01	INLET HOSE ADAPTER
3	BONNET-03	SPRAY BAR BONNET FOR 16" PAC	22	PAD6024/G	16" PAC REPLACEMENT PAD
4	BOX-UL-03	VAR SPD ELECTRICAL BOX	23	POLY-FTG-06	90DEG FITTING FOR SIGHT TUBE
5	CASTERS-JS-4	4" JS/VT NON-LOCKING CASTER	24	PRES-REG-01	INLET WATER REGULATOR
6	CASTERS-JS-4L	4" JS/VT LOCKING CASTER	25	PUMP-0140-1	PUMP ASSEMBLY FOR 16" UNIT
7	CLAMP-01	1/2" WIRE SPRING CLAMP	26	PUMP-ACC-17	JS/VS PUMP BRACKET
8	CTRL-KNOB-02	KNOB 24"VAR SPD CONTROL	27	S-004	FLOAT BOLT
9	CTRL-VLV-BRKT-1	CONTROL VALVE MOUNTING BRACKET	28	S-006	12-14 BLACK TEC SCREW
10	CTRL-VS-02	VAR SPD SWITCH HARNESS	29	S-009	10-24 X 3/4" TRUSS HEAD SCREW
11	DRAIN-PLUG-01	1/4" NPT PLUG #P-28 FOR 16"UNIT	30	S-014	5/16 X 1" TRUSS HEAD SCREW
12	FLAP-16-01	FRONT FLAP FOR 16" JETSTREAM	31	S-017	5/16 - 18 X 1.5" TRUSS HEAD SCREW
13	FLOAT-02	FLOAT VALVE	32	SPRAY-07	SPRAY BAR FOR 16" PAC
14	HOSE-FM18	18"FLOAT HOSE	33	SPRAY-ACC-04	CLAMP FASTENER FOR SPRAY BAR
15	HOSE-FTG-05	SWIVEL HOSE FITTING	34	SWITCHPL-VARSPD	SWITCH COVER PLATE
16	JS-ACC-01	2" THREADED FILLER CAP RING	35	TUBE-01	SOFT PLASTIC TUBE
17	JS-ACC-02	2" THREADED FILLER CAP	36	TUBE-03	SIGHT TUBE
18	LOUVERS-JS	FRONT LOUVER FOR JS/VT UNITS	37	VALVE-01	PUMP TO SPRAYBAR CONTROL VALVE
19	MOTOR-013-04	1/6HP VOSTERMAN MOTOR	38	VENT16-INJ-01	VENTURI FOR 16" FAN

220/50 and 220/60 models may require additional parts. Please contact Customer Service at 936-598-5651 for assistance

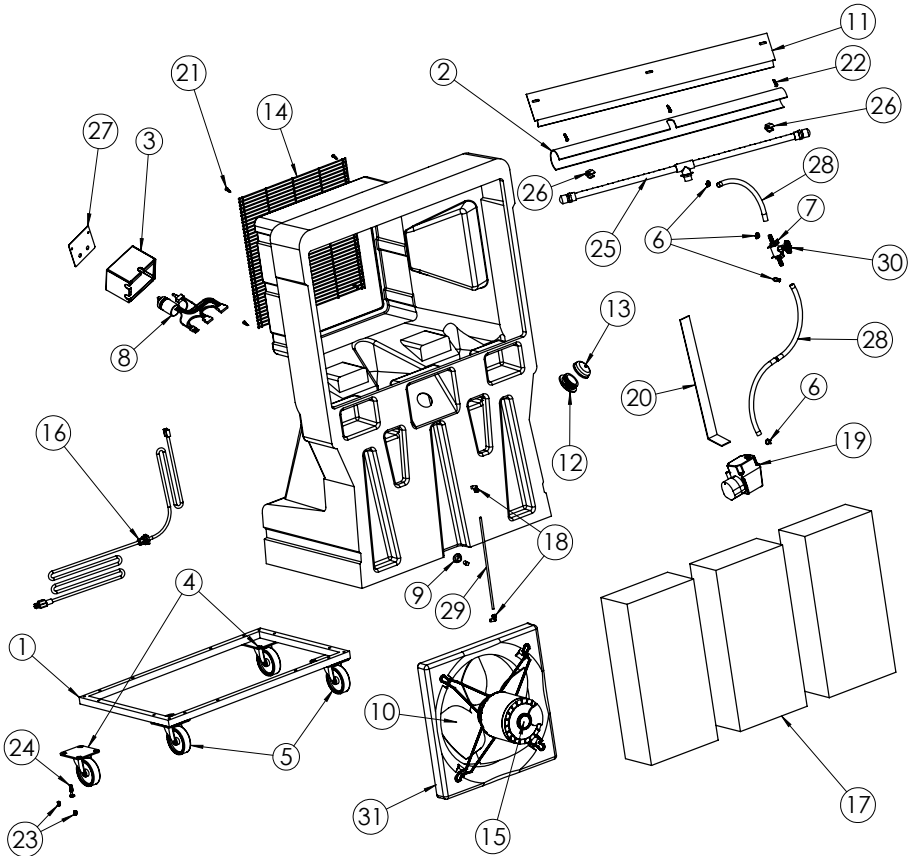
PACJS2400



ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	BASE-JS-24	CASTER BASE ASSEMBLY	19	MOTOR-012-06	24" HP MOTOR
2	BLADE-ASSM-24	24" JS FAN BLADE	20	PAC-PLB-01	INLET HOSE ADAPTER
3	BONNET-02	SPRAY BAR BONNET FOR 24" PAC	21	PAD6036/G	24" REPLACEMENT PAD
4	BOX-UL-03	VAR SPD ELECTRICAL BOX	22	POLY-FTG-06	90DEG. FITTING FOR SITE TUBE
5	CASTERS-JS-4	4" JS/VT CASTER	23	POWERCORD-02	POWERCORD W/DOME STRAIN RELIEF
6	CASTERS-JS-4L	4" JS/VT LOCKING CASTER	24	PRESS-REG-01	INLET WATER REGULATOR
7	CTRL-KNOB-02	KNOB FOR 24" VAR/SPD CONTROL	25	PUMP-016-4R	PUMP 1/6 HP (LG)
8	CTRL-VS-02	24" VAR/SPD SWITCH HARNESS ASSM	26	PUMP-ACC-18	JS/VT PUMP BRACKET
9	DRAIN-PLUG-01	1/4" NPT PLUG	27	SPRAY-04	SPRAY BAR FOR 24" PAC
10	FLAP-24-01	FLAP FOR 24" PAC	28	SPRAY-ACC-01	#12 NYLON CLIP
11	FLOAT-02	FLOAT VALVE BOX	29	SWITCHPL-VARSPD	VAR SPD SWITCH COVE PLATE
12	HOSE-FF-35	1/2" X 35" FEM/FEM HOSE	30	S-006	#12 X 1 1/4" TEK SCREW
13	HOSE-FM18	18" FLOAT HOSE	31	S-009	10-24 X 3/4" TRUSS HEAD SCREW
14	HOSE-FTG-05	FEM/FEM 3/4" X 3/4" BRASS SWIVEL	32	S-014	5/16" - 1" TRUSS HEAD SCREW
15	HOSE-F47	SINGLE FEM HOSE PLUMBING TO PUMP	33	S-017	5/16" - 18 X 1.5" TRUSS HEAD SCREW
16	JS-ACC-01	2" TREADED RING	34	TUBE-03	1/4" POLY SIGHT TUBE
17	JS-ACC-02	2" TREADED CAP	35	VALVE-01	1/2" GATE VALVE
18	LOUVERS-JS-24	LOUVER W/MESH FOR 24" JS/VT	36	VENTURI-24-02	24" VENTURI

220/50 and 220/60 models require additional parts. Please contact Customer Service at 936-598-5651 for assistance

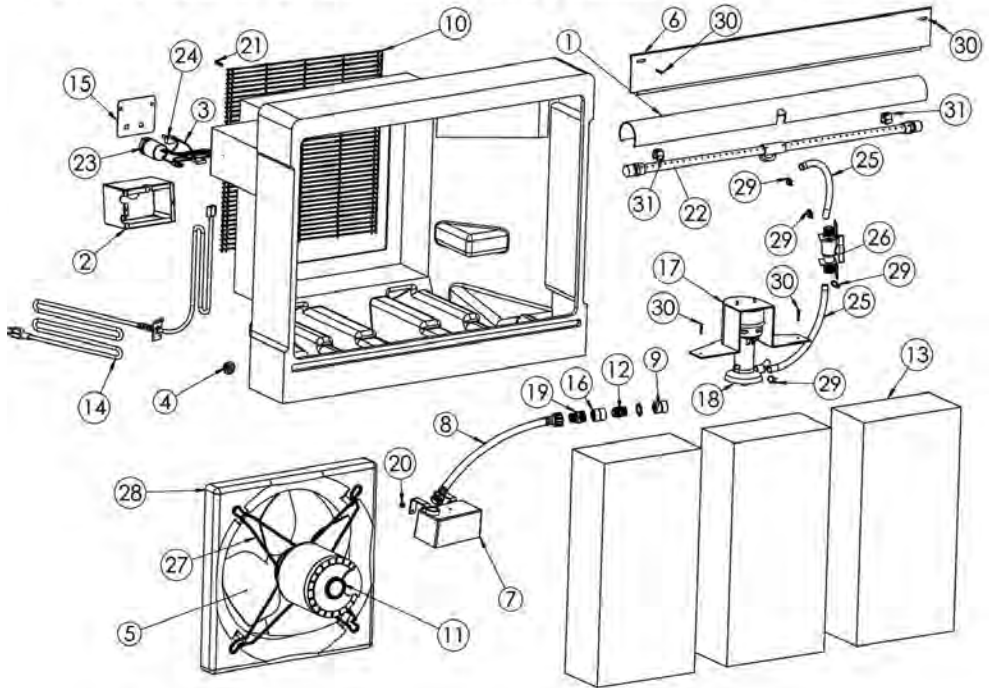
PAC163SVT



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BASE-JSVT	CASTER BASE ASSEMBLY FOR JSV/T	17	PAD8024G	16" PAC REPLACEMENT PAD
2	BONNET-03	SPRAY BAR BONNET FOR 16" PAC	18	POLY-FTG-06	90DEG FITTING FOR SIGHT TUBE
3	BOX-UL-01	3SPD ELECTRICAL BOX	19	PUMP-0140-1	PUMP ASSEMBLY FOR 16" UNIT
4	CASTERS-JS-4	4" JSV/T NON-LOCKING CASTER	20	PUMP-ACC-17	JSV/S PUMP BRACKET
5	CASTERS-JS-4L	4" JSV/T LOCKING CASTER	21	S-006	12-14 BLACK TEC SCREW
6	CLAMP-01	1/2" WIRE SPRING CLAMP	22	S-009	10-24 X 3/4" TRUSS HEAD SCREW
7	CTRL-VLV-BRKT-1	CONTROL VALVE MOUNTING BRACKET	23	S-014	5/16 X 1" TRUSS HEAD SCREW
8	CTRL-3SPD-02	3SPD SWITCH HARNESS	24	S-017	5/16 - 16 X 1.5" TRUSS HEAD SCREW
9	DRAIN-PLUG-01	1/4" NPT PLUG #P-28 FOR 16" UNIT	25	SPRAY-07	SPRAY BAR FOR 16" PAC
10	FAN-ASSM-04	VT 16" BLADE	26	SPRAY-ACC-04	CLAMP FASTENER FOR SPRAY BAR
11	FLAP-16-01	FRONT FLAP FOR 16" JETSTREAM	27	SWTCH-PL-REV/3SP	3SPD SWITCH COVER PLATE
12	JS-ACC-01	2" THREADED FILLER CAP RING	28	TUBE-01	SOFT PLASTIC TUBE
13	JS-ACC-02	2" THREADED FILLER CAP	29	TUBE-03	SIGHT TUBE
14	MESH-PAC-05	FAN GUARD SCREEN FOR 16" UNITS	30	VALVE-01	PUMP TO SPRAY BAR CONTROL VALVE
15	MOTOR-012-04	VT 3SPD MOTOR	31	VENT16-INJ-01	VENTURI FOR 16" FAN
16	POWERCORD-02	10FT POWER CORD W/ WIDOME STRAIN RELIEF			

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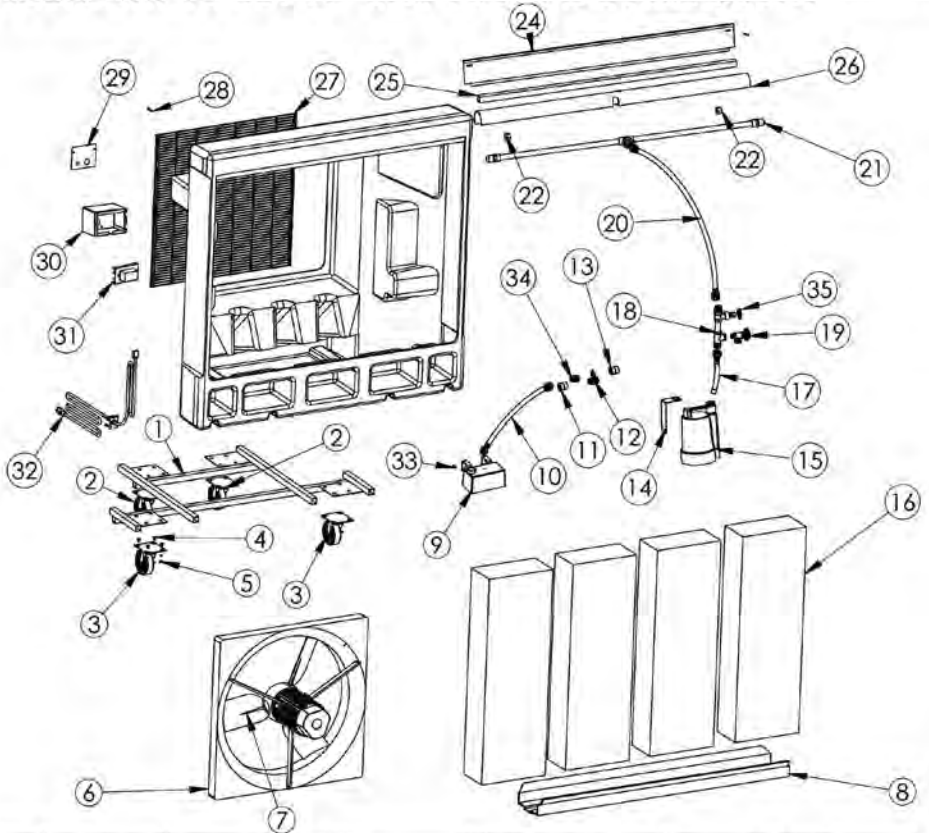
PAC2K163SHD



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BONNET-03	SPRAY BAR BONNET	17	PUMP BRACKET	PUMP COVER FOR 16" PAC
2	BOX-UL-01	3 SPD ELECTRICAL BOX	18	PUMP-0150-1	PUMP 1/70HP W/NETTING
3	CTRL-3SPD-01	3 SPEED SWITCH SET	19	PVC-ADP-01	3/4 X 1/2 ADAPTER
4	DRAIN-PLUG-01	DRAIN PLUG 16 PAC	20	S-004	1/4-20 X 1/2" BOLT FOR FLOAT
5	FAN-ASSM-04	FAN BLADE	21	S-006	#12 X 1 1/4" TBK SCREW
6	FLAP-16-01	FRONT FLAP FOR 16"	22	SPRAY-07	SPRAY BAR FOR 16" PAC
7	FLOAT-02	FLOAT VALVE	23	SWITCH-ROT-02	3 SPEED ROTOR SWITCH
8	HOSE-FM18	1/2" X 18' FM HOSE	24	SWITCH-TOG-03	TOGGLE SWITCH FOR 36" PAC
9	HOSE-FTG-05	FEM/FEM 3/4" BRASS SWIVEL	25	TUBE-01	1/2" PLASTIC TUBE (PER FOOT)
10	MESH-PAC-05	FAN SCREEN	26	VALVE-05	1/2" BALL VALVE
11	MOTOR-012-04	16" 3 SPD PSC MOTOR	27	VENTURI-MNT-01	NS HD MOTOR MOUNT FRAME
12	PAC-PLB-01	BRASS INLET FITTING	28	VENT16-INL-01	INJECTION MOLDED VENTURI
13	PAD6024/G	PAD FOR 16" UNIT (3 per unit)	29	CLAMP-01	1/2" CLAMP FOR PLASTIC TUBE
14	PGTAL-12	12" ELECTRIC CORD	30	S-008	10-24 x 3/4" TRUSS HEAD SCREW
15	PLATE-REV-SPD	321 PSC MOTOR SWITCH PLATE	31	SPRAY-ACC-04	CLAMP FASTENER 1029
16	PRES-REG-01	WATER PRESSURE REGULATOR			

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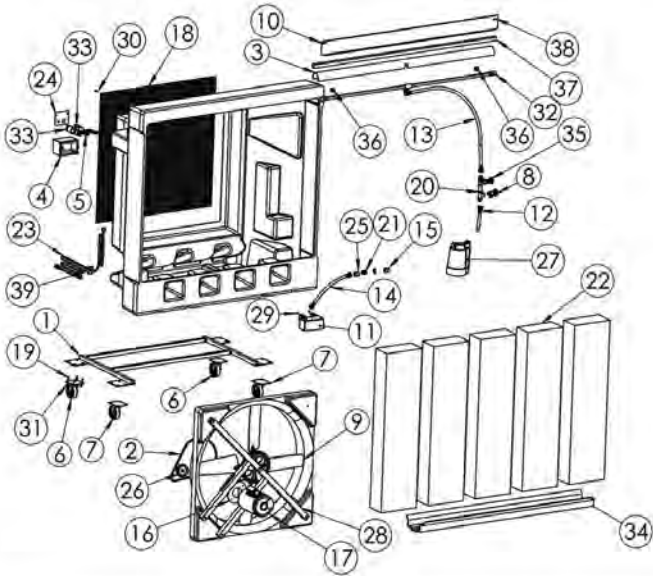
PAC2K24HPVS



ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	BASE-2K24	CADDY	19	DRAIN-01	1/2" BOILER DRAIN
2	CASTER-2K	SWIVEL CASTER	20	HOSE-FF35	FEM/FEM 35" HOSE PLB TO SPRAY BAR
3	CASTER-2K-L	LOCKING SWIVEL CASTER	21	SPRAY-04	SPRAY BAR FOR 24" PAC
4	S-007	5/16-18 TRUSS HEAD SCREW	22	SPRAY-ACC-04	CLAMP FASTENER 1029
5	N-516-NYLOK	5/16-18 NYLOK NUT	23	S-009	10-24 X 3/4" TRUSS HEAD SCREW
6	BLADE-ASSM-02	VOSTERMAN 24" FAN BLADE ASSY. (33deg)	24	FLAP-24-01	FRONT FLAP FOR 24" PAC
7	MOTOR-012-06	1/3 HP DIRECT DRIVE VOSTERMAN MOTOR	25	BRACE-24-01	BONNET BRACE
8	TROUGH-02	PAD TROUGH FOR 24" PAC	26	BONNET-02	SPRAY BAR BONNET FOR 24" PAC
9	FLOAT-02	FLOAT VALVE	27	MESH-PAC-01	FAN SCREEN FOR 24" PAC
10	HOSE-FM20	FEM/MALE HOSE 20" LONG INLET TO FLOAT	28	S-005	#12 X 1 1/4" TEK SCREW
11	PRES-REG-01	WATER PRESSURE REGULATOR	29	PLATE-VARSFPD-98	SWITCH PLATE FOR HP UNIT
12	PAC-PLB-01	BRASS INLET FITTING	30	BOX-UL-03	ELECTRICAL BOX
13	HOSE-FTG-05	FEM/FEM 3/4" BRASS SWIVEL	31	CTRL-VARSFPD-02	VARIABLE SPEED CONTROL SWITCH
14	PUMP-ACC-15	PUMP BRACKET- 1/6 HP PUMP 24" PAC	32	FGTAIL-12	12' ELECTRICAL CORD
15	PUMP-016-4R	SUBMERSIBLE 1/6 HP PUMP	33	S-004	1/4-20 X 1/2" BOLT FOR FLOAT
16	PAD6036/G	PAD FOR 24" PAC (4 per unit)	34	PVC-ADP-01	3/4" X 1/2" REDUCING ADAPTER
17	HOSE-FF30	FEM/FEM HOSE 30" LONG PUMP TO PLB.	35	VALVE-01	1/2" GATE VALVE
18	PAC-PLB-02	BLACK PLUMBING ASSEMBLY			

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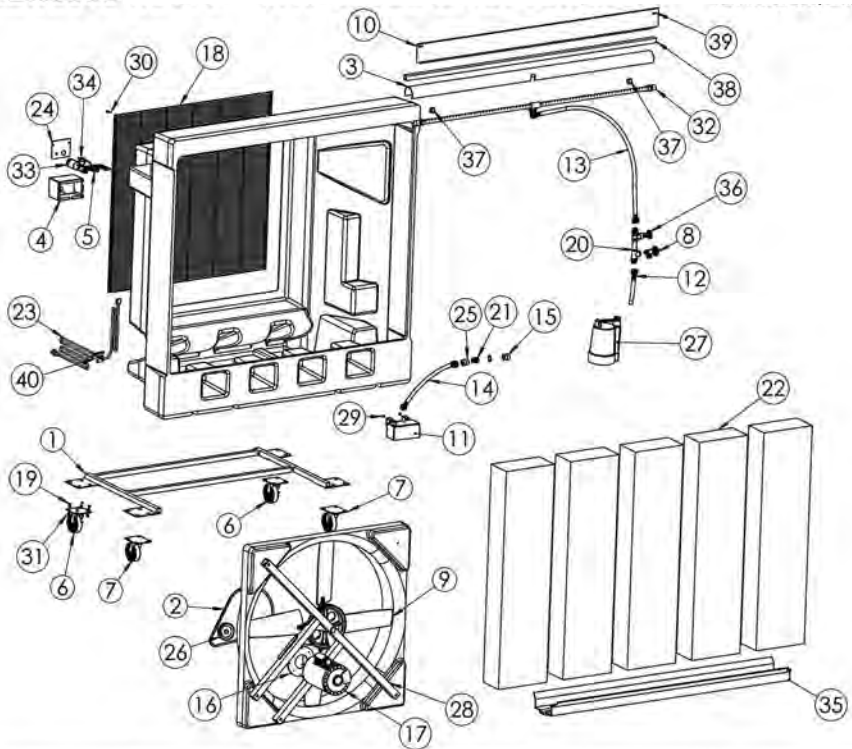
PAC2K361S



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BASE-2K36	CADDY	24	PLATE-1SPD-98	SWITCH PLATE 1 SPD
2	BELT2K-38-01	A-38 FAN BELT	25	FRES-REG-01	WATER PRESSURE REGULATOR
3	BONNET-01	SPRAY BAR BONNET	26	FULLEY-3-75	3.75 OD FULLEY
4	BOX-LL-02	1 SPD ELECTRICAL BOX	27	PUMP-016-4R	1/6 HP SUBMERSIBLE PUMP FOR 36" PAC
5	CTRL-1SPD-01	1 SPD SWITCH SET	28	RIMPLT36-01	36" RIM PLUG TRUSS ASSEMBLY
6	CASTERS-2K	SWIVEL CASTER	29	S-004	1/4-20 X 1/2" BOLT FOR FLOAT
7	CASTERS-2K-L	LOCKING SWIVEL CASTER	30	S-006	#12 X 1 1/4" TRUSS SCREW
8	DRAIN-01	1/2" BOILER DRAIN VALVE	31	S-007	5/16-18 TRUSS HEAD SCREW
9	FAN-ASSM-01	PLASTIC BLADE & HUB ASSEMBLY	32	SPRAY-06	SPRAY BAR FOR 36" PAC
10	FLAP-36-01	FRONT FLAP FOR 36"	33	SWITCH-TOG-03	TOGGLE SWITCH FOR 36" PAC
11	FLOAT-02	FLOAT VALVE	34	TROUGH-01	PAD TROUGH FOR 36" PAC
12	HOSE-FF	1/2" X 24" FEM/FEM HOSE R/LB TO PUMP	35	VALVE-01	12" GATE VALVE
13	HOSE-FF57	1/2" X 57" FEM/FEM HOSE SPRAY BAR TO R/LB	36	SPRAY-ACC-04	CLAMP FASTENER 1029
14	HOSE-FM60	1/2" X 30" MALE/FEM HOSE INLET TO FLOAT	37	BRACE-36-02	BONNET BRACE
15	HOSE-FTG-05	FEM/FEM 3/4" BRASS SWIVEL	38	S-009	10-24 X 3/4" TRUSS HEAD SCREW
16	MOTOR-MNT-01	MOUNT FOR 36" MOTOR	39	S-013	#10 X 3/8" WASHER HEAD SCREW
17	MOTOR-012-01STA	1 SPD MOTOR W/63" HARNESS (PRCD W/9K22B)			
18	MESH-PAC-02	FAN SCREEN			
19	N-516-NYLOK	5/16" NYLOK NUT FOR CASTERS			
20	PAC-FLB-02	BLACK PLUMBING ASSEMBLY			
21	PAC-FLB-01	BRASS INLET FITTING			
22	PAD3048G	PAD FOR 36" PAC (5 per unit)			
23	PIC1AL-12	12' ELECTRICAL CORD			

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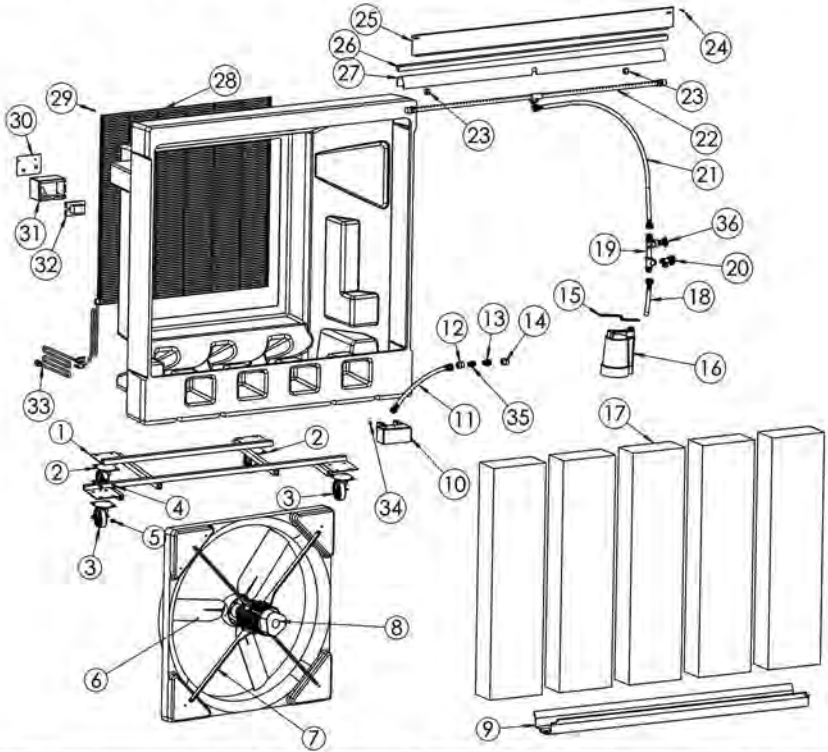
PAC2K36S



ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BASE-2K36	CADDY	21	PAC-PLB-01	BRASS INLET FITTING
2	BELT2K-38-01	A-38 FAN BELT	22	PAD9048/G	PAD FOR 36" PAC (5 per unit)
3	BONNET-01	SPRAY BAR BONNET	23	PGTAIL-12	12" ELECTRICAL CORD
4	BOX-UL-01	3 SPD ELECTRICAL BOX	24	PLATE-3SPD-98	SWITCH PLATE 3 SPD
5	CTRL-3SPD-01	3 SPEED SWITCH SET	25	PRES-REG-01	WATER PRESSURE REGULATOR
6	CASTERS-2K	SWIVEL CASTER	26	PULLEY-3.75	3.75 O.D. PULLEY
7	CASTERS-2K-L	LOCKING SWIVEL CASTER	27	PUMP-016-4R	1/6 HP SUBMERSIBLE PUMP FOR 36" PAC
8	DRAIN-01	1/2" BOILER DRAIN VALVE	28	RTM-PULT36-01	36" RTM PULTRUSION ASSEMBLY
9	FAN-ASSM-01	PLASTIC BLADE & HUB ASSEMBLY	29	S-004	1/4-20 X 1/2" BOLT FOR FLOAT
10	FLAP-36-01	FRONT FLAP FOR 36"	30	S-006	#12 X 1 1/4" TEK SCREW
11	FLOAT-02	FLOAT VALVE	31	S-007	5/16-18 TRUSS HEAD SCREW
12	HOSE-FF	1/2" X 24" FEM/FEM HOSE PLB TO PUMP	32	SPRAY-06	SPRAY BAR FOR 36" PAC
13	HOSE-FF57	1/2" X 57" FEM/FEM HOSE SPRAY BAR TO FLB	33	SWITCH-TOG-03	TOGGLE SWITCH FOR 36" PAC
14	HOSE-FM30	1/2" X 30" MALE/FEM HOSE INLET TO FLOAT	34	SWITCH-ROT-02	3 SPEED ROTOR SWITCH
15	HOSE-FTG-05	FEM/FEM 3/4" BRASS SWIVEL	35	TROUGH-01	PAD TROUGH FOR 36" PAC
16	MOTOR-MNT-01	MOUNT FOR 36" MOTOR	36	VALVE-01	1/2" GATE VALVE
17	MOTOR-012-02STA	3 SPD MOTOR W/63" HARNESS	37	SPRAY-ACC-04	CLAMP FASTENER 1029
18	MESH-PAC-02	FAN SCREEN	38	BRACE-36-02	BONNET BRACE
19	N-516-NYLOK	5/16" NYLOCK NUT FOR CASTERS	39	S-009	10-24 X 3/4" TRUSS HEAD SCREW
20	PAC-PLB-02	BLACK PLUMBING ASSEMBLY	40	S-013	#10 X 3/8" WASHER HEAD SCREW

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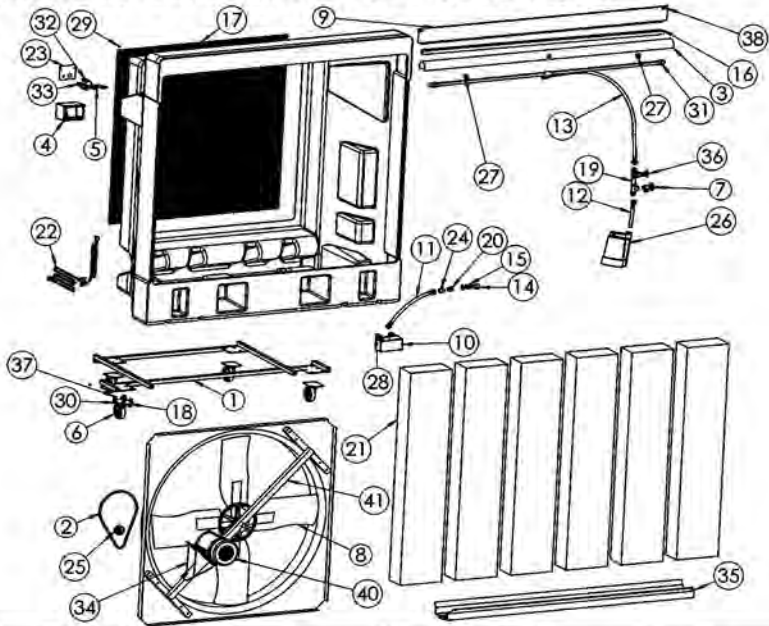
PAC2K36HPVS



ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	BASE-2K36	CADDY	19	PAC-PLB-02	BLACK PLUMBING ASSEMBLY
2	CASTER-2K	SWIVEL CASTER	20	DRAIN-01	1/2" BOILER DRAIN
3	CASTER-2K-L	LOCKING SWIVEL CASTER	21	HOSE-FF57	FEM/FEM HOSE 57" LONG
4	S-007	5/16-18 TRUSS HEAD SCREW	22	SPRAY-06	SPRAY BAR FOR 36" PAC
5	N-516-NYLOK	5/16-18 NYLOK NUT	23	SPRAY-ACC-04	CLAMP FASTENER 1029
6	BLADE-ASSM-01	VOSTERMAN 36" FAN BLADE ASSEMBLY	24	S-009	10-24 X 3/4" TRUSS HEAD SCREW
7	FAN36HP-MNT-01	PI-CO 3VPI1006 MOTOR SUPPORT ARM-36" PAC	25	FLAP-36-01	FRONT FLAP FOR 36" PAC
8	MOTOR-012-05	1/2 HP DIRECT DRIVE VOSTERMAN MOTOR	26	BRACE-36-02	BONNET BRACE
9	TROUGH-01	PAD TROUGH FOR 36" PAC	27	BONNET-01	SPRAY BAR BONNET FOR 36" PAC
10	FLOAT-02	FLOAT VALVE	28	MESH-PAC-02	FAN SCREEN FOR 36" PAC
11	HOSE-FM30	FEM/MALE HOSE 30" LONG	29	S-006	#12 X 1 1/4" TEK SCREW
12	PRES-REG-01	WATER PRESSURE REGULATOR	30	PLATE-VARSPO-98	SWITCH PLATE FOR HP UNIT
13	PAC-PLB-01	BRASS INLET FITTING	31	BOX-UL-03	ELECTRICAL BOX
14	HOSE-FTG-05	FEM/FEM 3/4" BRASS SWIVEL	32	CTRL-VAR/SPEED	VARIABLE SPEED CONTROL SWITCH
15	PUMP-ACC-13	PUMP BRACKET- 1/8 HP PUMP	33	PIGTAIL-12	12' ELECTRICAL CORD
16	PUMP-016-4R	SUBMERSIBLE 1/8 HP PUMP	34	S-004	1/4-20 X 1/2" BOLT FOR FLOAT
17	PAD604B/G	PAD FOR 36" PAC (5 per unit)	35	PVC-ADP-01	3/4" X 1/2" REDUCING ADAPTER
18	HOSE-FF	FEM/FEM HOSE 24" LONG	36	VALVE-01	1/2" GATE VALVE

220/50 and 220/60 models require additional parts. Please contact Customer Service at 936-598-5651 for assistance

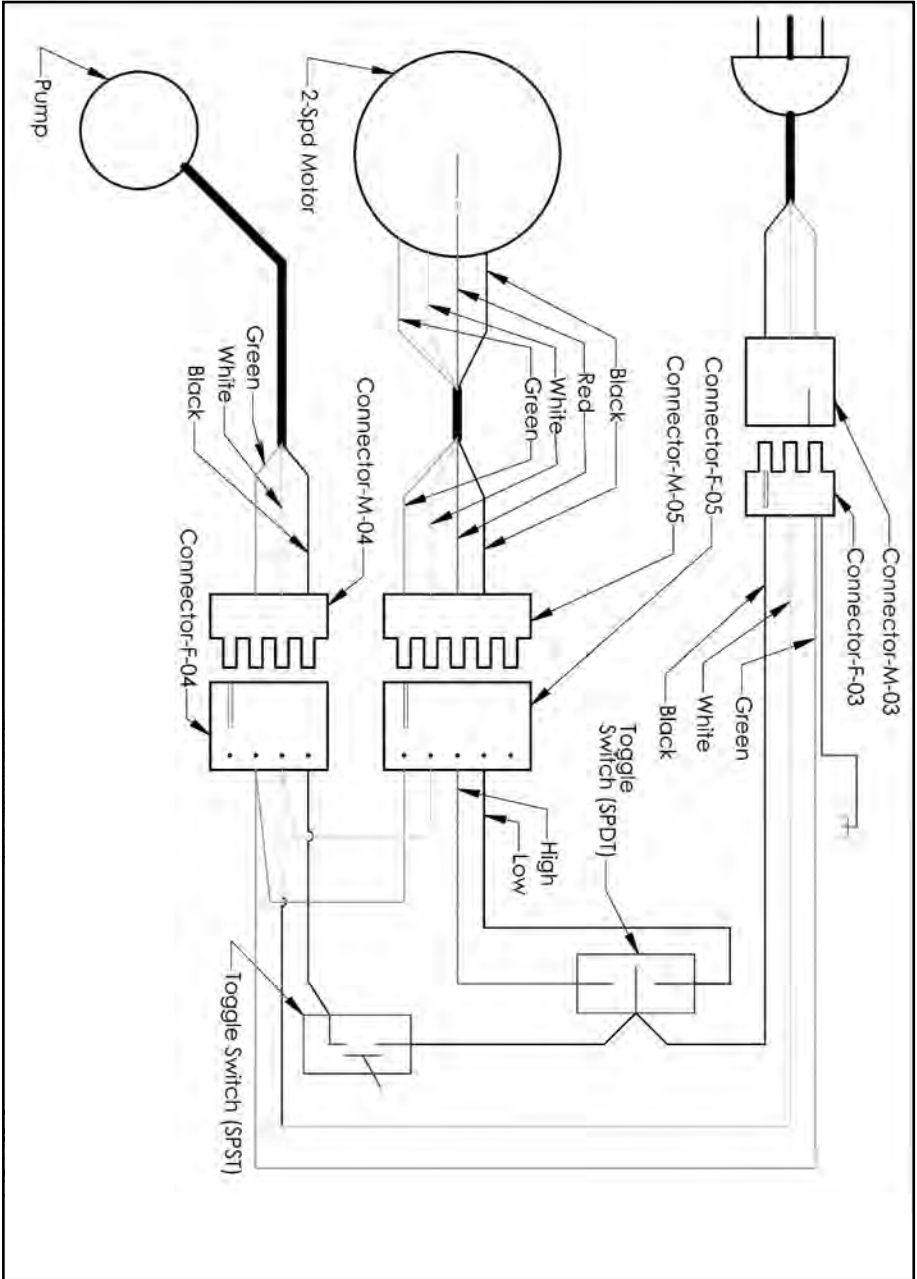
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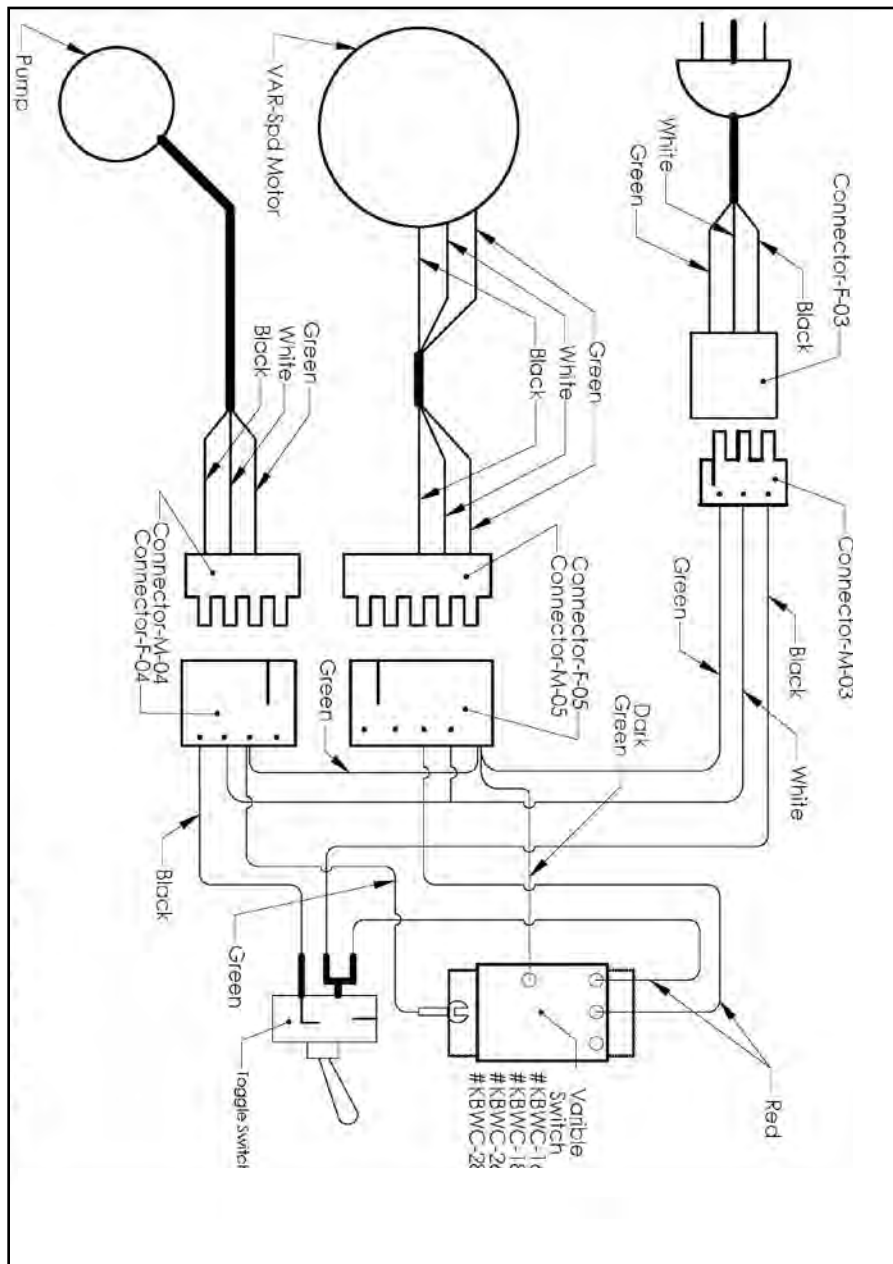
ITEM#	PART #	DESCRIPTION	ITEM#	PART #	DESCRIPTION
1	BASE-2K48	CADDY	21	PAD0600/G	PAD FOR 48" PAC (5 per unit)
2	BELT2K-45-01	A-45 FAN BELT	22	PGTAIL-12	12' ELECTRICAL CORD
3	BONNET-04	SPRAY BAR BONNET	23	PLATE-2SPD-98	SWITCH PLATE 2 SPD
4	BOX-UL-02	2 SPD ELECTRICAL BOX	24	PRES-REG-01	WATER PRESSURE REGULATOR
5	CTRL-2SPD-01	2 SPEED SWITCH SET	25	PULLEY-48-02	AK34 PULLEY
6	CASTER-KIT-02	8" CASTERS SET OF FOUR	26	PUMP-016-4R	L/G 1/8HP SUBMERSIBLE PUMP
7	DRAIN-01	1/2" BOILER DRAIN VALVE	27	SPRAY-ACC-04	CLAMP FASTENER 1029
8	FAN-ASSM-05	FAN BLADE ASSEMBLY FOR 48" UNIT	28	S-004	1/4-20 X 1/2" BOLT FOR FLOAT
9	FLAP-48-01	FRONT FLAP FOR 48" PAC	29	S-006	#12 X 1 1/4" TEK SCREW
10	FLOAT-02	FLOAT VALVE	30	S-007	5/16-18 TRUSS HEAD SCREW FOR CASTERS
11	HOSE-FM	1/2" X 2' MALE/FEM HOSE INLET TO FLOAT	31	SPRAY-08	SPRAY BAR FOR 48" PAC
12	HOSE-FF3	1/2" X 3' FEM/FEM HOSE PLB TO PUMP	32	SWITCH-TOG-03	TOGGLE SWITCH FOR 48" PAC
13	HOSE-FF6	1/2" X 6' FEM/FEM HOSE SPRAY BAR TO PLB	33	SWITCH-TOG-02	2 SPEED TOGGLE SWITCH
14	HOSE-FTG-05	FEM/FEM 3/4" BRASS SWIVEL	34	MOTOR-MNT-48	MOTOR MOUNT FOR 48" UNIT
15	PVC-ADP-01	3/4" X 1/2" ADAPTER	35	TROUGH-03	PAD TROUGH FOR 48" PAC
16	BRACE-48-03	BRACE FOR BONNET	36	VALVE-01	1/2" GATE VALVE
17	MESH-PAC-06	FAN SCREEN	37	WASHER-04	5/16" LOCK WASHER/CASTERS
18	N-516-NYLOK	5/16-18 NYLOK NUT FOR CASTERS	38	S-009	10-24 X 3/4" TRUSS HEAD SCREW
19	PAC-PLB-02	BLACK PLUMBING ASSEMBLY	39	S-013	#10 X 3/8" WASHER HEAD SCREW
20	PAC-PLB-01	BRASS INLET FITTING	40	MOTOR-010-01	1HP/2SPD MOTOR FOR 48" UNIT
			41	UPRIGHTS-48	UPRIGHT FOR 48" UNIT

220/50 and 220/60 models require additional parts. Please contact Customer Service at 936-598-5651 for assistance

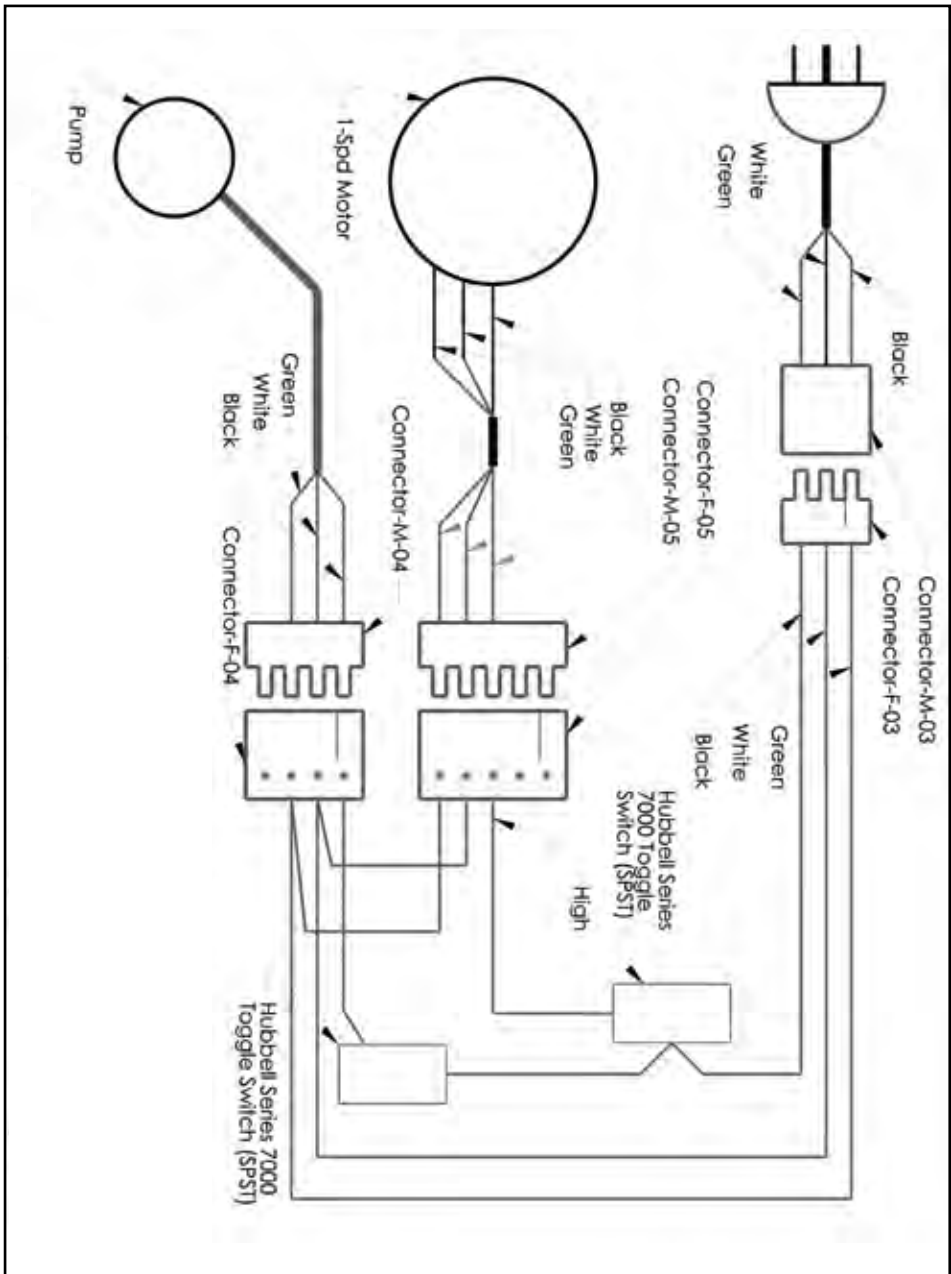
VI. WIRING DIAGRAM for TWO-SPEED MODELS



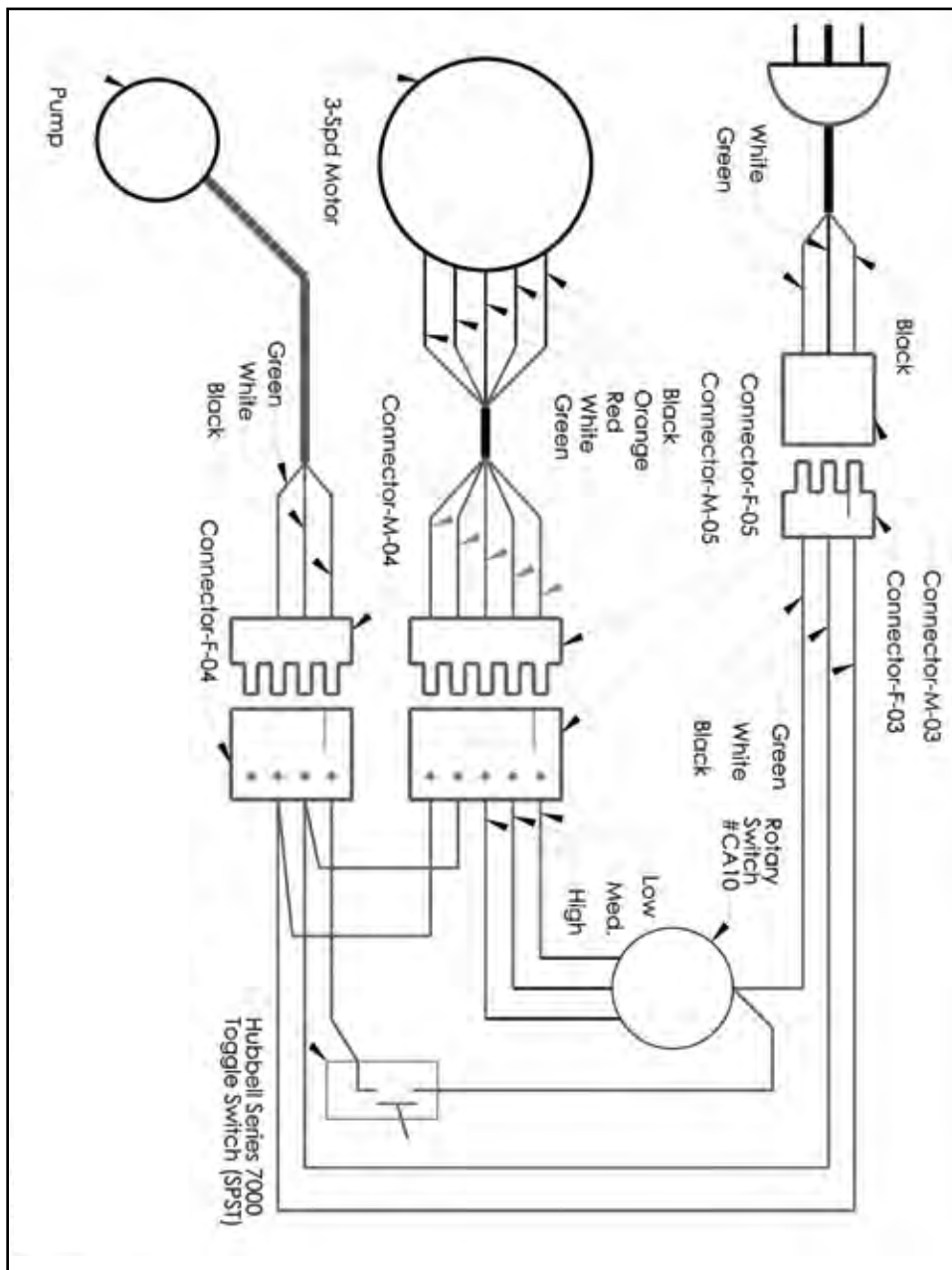
WIRING DIAGRAM for VARIABLE SPEED MODELS



WIRING DIAGRAM for ONE-SPEED MODELS



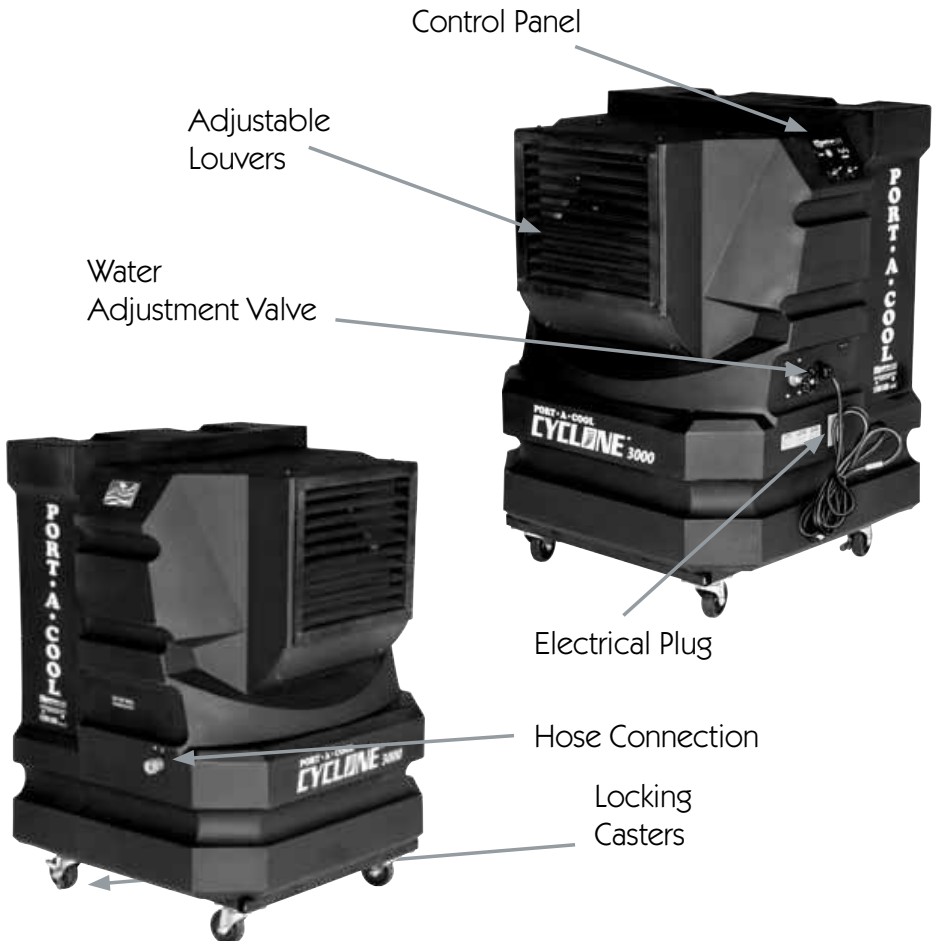
WIRING DIAGRAM for THREE-SPEED MODELS



UNIT OPERATION WARNINGS

- Not intended for use by children
- Not intended for use by persons with reduced physical, sensory or mental capabilities
- Not intended for use by persons with lack of experience and knowledge, unless they have been given instruction and are supervised during operation
- Children should be supervised to ensure that they do not play with the appliance

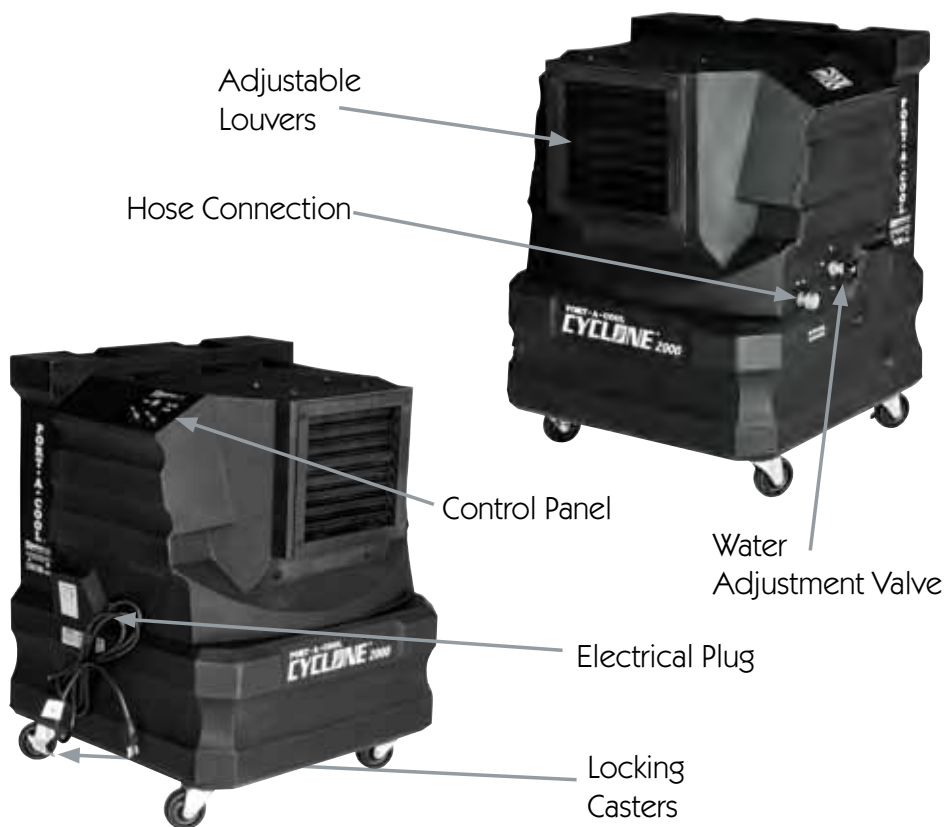
PORT-A-COOL CYCLONE™ 3000 UNIT OVERVIEW



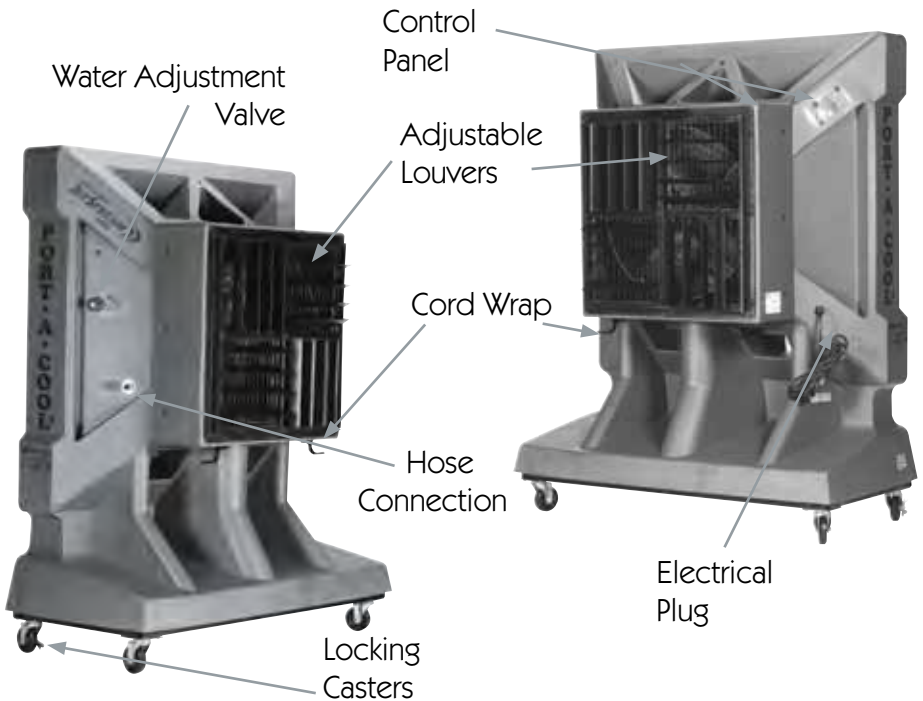
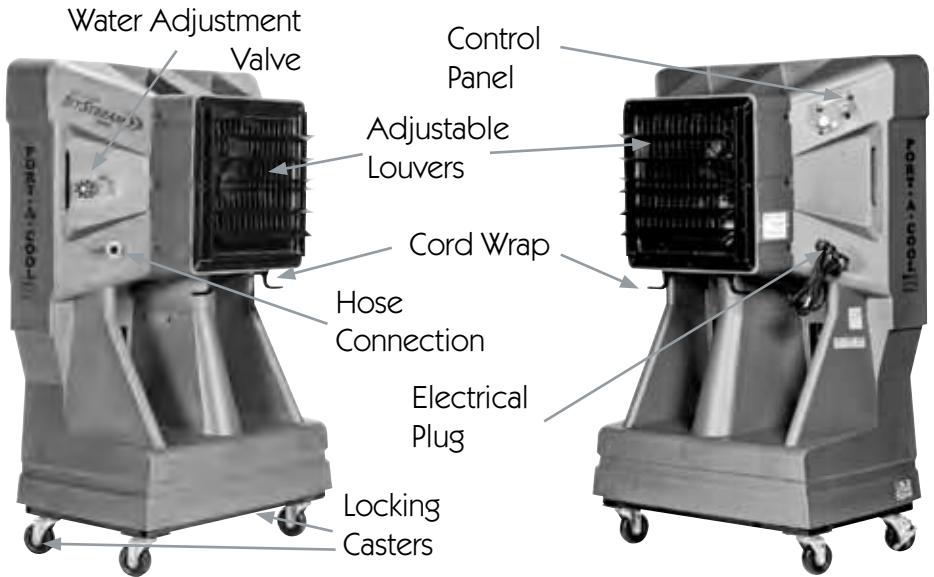
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- Children should be supervised to ensure that they do not play with the appliance

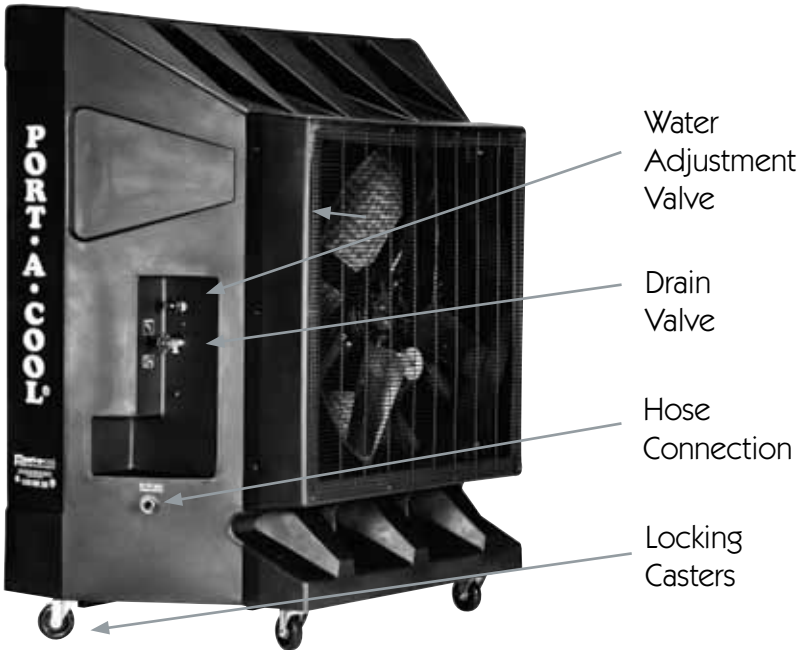
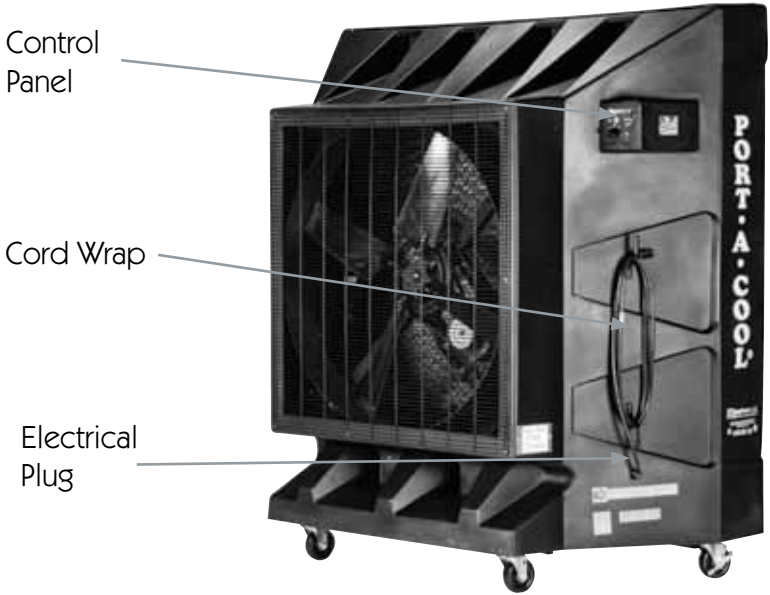
PORT-A-COOL CYCLONE™ 2000 UNIT OVERVIEW



PORT-A-COOL JETSTREAM™ UNIT OVERVIEW



PORT-A-COOL® UNIT OVERVIEW



VIII. TROUBLESHOOTING / REPAIR

A. Troubleshooting

Most problems encountered with a PORT-A-COOL® unit are operational problems. When determining which system that the problem is associated with, first define the problem as several things may cause a particular problem, i.e., "the pump is not running." While defining the problem, a careful check of all systems should be made to fully understand the extent of the problem.

The units consist of three systems — the fan system, the electrical system, and the water system. It is important to determine which system of the unit the problem is associated with. Certain problems may be associated with more than one system.

With an understanding of all the systems of the PORT-A-COOL® unit and how they depend on each other, it becomes much simpler to define and solve any problems.

Although the PORT-A-COOL® unit is designed to be simple to maintain, it will be necessary to have some basic hand tools (screwdrivers, pliers, adjustable wrenches, etc.) as well as a volt/ohm meter for troubleshooting the electrical system.

— WARNING —

USE CAUTION WHEN TROUBLESHOOTING OR REPAIRING ELECTRICAL COMPONENTS. ENSURE THAT ALL POWER IS DISCONNECTED FROM THE UNIT BEFORE THE COOLING PADS ARE REMOVED TO GAIN ACCESS TO THE FAN.

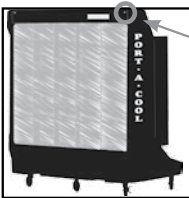
B. Repair and Replacement Procedures

Ensure that all water is removed from the PORT-A-COOL® unit and all power is disconnected. Remove all impediments to access the component you are checking or replacing.

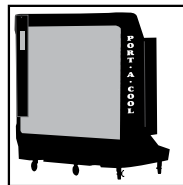
REPLACING THE COOLING MEDIA (PADS) (All Models)

CAUTION - DISCONNECT POWER BEFORE PERFORMING THIS OPERATION

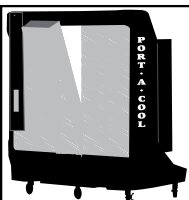
The flap must be removed to allow access to the cooling pads. Start with the center pad, which should be tilted out from the top and lifted out of the drain trough. The two pads to either side of the center pad may then be removed in the same manner. To remove the two outside pads, they must first be pulled sideways toward the center of the PORT-A-COOL® unit until they clear the side retainer before removing in the same manner as the other pads.



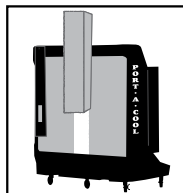
Locate the set screw in the rear of the unit on the upper right side



Remove set screw and lower front flap to vertical position (see illustration)



Once the front flap is moved, grasp the right pad and tilt out at a 90 degree angle (see illustration).



Pull the pad up to remove from unit. Repeat for other pads.

FAN SYSTEM

This section is divided into the two categories of fans used on all PORT-A-COOL® models: Direct Drive and Belt Drive. Both have some symptoms in common, and both have problems that are particular to each.

BELT DRIVE MODELS

PROBLEM	CHECK	SOLUTION
Fan motor won't run and makes no sound.	Power cord, switches, circuit breaker, etc.	Check switch connection Reconnect power, reset breaker.
Fan motor won't run and makes a humming sound.	Blade in contact with shroud	Check mounting bolts.
	Motor stalled (will not turn by hand)	Replace motor.
Breaker trips or fuse blows when fan is started.	Motor stall (as above).	Replace motor.
	Other items on circuit.	Remove other items.
Motor overheating and shutting off and restarting several minutes later.	Inlet air obstructed or too close to wall.	Provide minimum 36 inch inlet clearance.
Switch making good contact. makes soft clicking sound.	Faulty motor. Replace switch	Replace motor.
Fan motor won't run and has a burning smell and hums.	Motor stall (as above).	Replace motor.
Fan blade doesn't turn and unit makes squealing sound.	Fan Belt, loose.	Tighten or replace fan belt.
	Fan pulley spinning on shaft.	Tighten pulley set screw.
Fan belts do not last very long.	Motor and fan pulleys misaligned	Realign motor and mount.
Fan will not reach speed but turns and makes humming sound.	Capacitor (where visible) and motor electrical connections.	Replace motor.

DIRECT DRIVE

PROBLEM	CHECK	SOLUTION
Fan motor won't run and makes no sound.	Power cord, switches, circuit breaker, etc. cord, reset breaker.	Check switch connection Reconnect power
Fan motor won't run and makes a humming sound.	Blade in contact with shroud	Check mounting bolts.
	Motor stalled (will not turn by hand)	Replace motor.
Breaker trips or fuse blows when fan is started.	Motor stall (as above).	Replace motor.
	Other items on circuit.	Remove other items.
Motor overheating and shutting off and restarting several minutes later.	Inlet air obstructed or too close to wall.	Provide minimum 36 inch inlet clearance.
Fan motor won't run and switch makes soft clicking sound.	Faulty motor. Switch making good contact.	Replace motor. Replace switch.
Fan motor won't run and has a burning smell.	Start capacitor leaking from cover.	Replace motor .
	Motor stall (as above).	Replace motor.

SPRAY BAR ASSEMBLY (ALL MODELS)

PROBLEM	CHECK	SOLUTION
Too many dry streaks in the pads.	Holes in spray bar blocked by foreign material.	Remove and clean spray bar.
		Clean individual holes.
Water spitting from the unit.	Hose connection loose.	Tighten hose.
		Replace hose and washer.
		Reseat spray bar end caps
Excess water in air coming from the fan.	Pad Installation	Pads must be installed according to air flow direction label on the pad.

SUBMERSIBLE PUMPS PROBLEM CHECK SOLUTION

PROBLEM	CHECK	SOLUTION
Pump will not run when switch is turned on.	Power cord, switches, circuit breaker, switch box, connection, etc.	Reconnect power, reset breaker or reconnect in switch box.
	Air lock in hose.	Disconnect hose at base of pump, run pump to release air, then reconnect.
Pump hums when switch is turned on, but does not pump water.	Inlet filter clogged.	Clean filter.
	Pump motor locked.	Replace pump.
Breaker trips or fuse blows when switch is turned on.	Wiring short in line between pump and switch box.	Check and/or replace wiring.
Pump cycling on and off periodically	Sump tank is empty.	Fill with water.
	Spray bar valve is closed.	Open valve.
Pump will not run and power is available and pump is functional.	Switch making closure contact.	Check continuity/ Replace switch.

WATER SYSTEM

The water system consists of three primary elements: 1) Water Delivery System, 2) Spray Bar Assembly; 3) Pump.

The Water Delivery System consists of two sub assemblies: A) The Water Inlet assembly and B) The Plumbing assembly.

The Water Inlet assembly is made up of three components: 1) The bulkhead fitting, 2) The float valve connection hose and 3) The float valve. The Plumbing assembly consists of three elements: 1) Riser (PVC components), 2) Drain Valve, 3) Spray Bar Adjustment Valve. The PACCYC01, PACCYC01A, PACCYC02, PACCYC02A, PAC2K163SHD, PAC2K163HPVS and PAC3SVT models have no riser or drain valve.

The Spray Bar Assembly consists of two components: 1) Spray Bar, 2) Connection Hose.

The pumps that actually move the water through the delivery system are discussed in the charts below. These charts indicate the major symptoms of problems that may be encountered with the Water System components.

WATER INLET SYSTEM

PROBLEM	CHECK	SOLUTION
Floor near the PORT-A-COOL® unit is wet. Water flow is too heavy.	Water inlet hose is loose at supply hose or inlet hose is loose at bulkhead fitting	Adjust water flow. Tighten connections and/or replace hose washers.
PORT-A-COOL® unit overflows from sump tank or is spitting water through fan.	Float valve hose is loose at bulkhead fitting or at float valve.	Tighten connections and /or replace hose washers.
	Water pressure is too high to allow float valve to shutoff. (50 psi max.)	Reduce water pressure by checking in-line reducer.
	Float valve is not seating properly.	Check for particles in valve. Replace float valve.
	Spray bar valve adjustment.	Close down adjustment valve to reduce excess water flow.

PLUMBING ASSEMBLY

PROBLEM	CHECK	SOLUTION
Water spitting from the unit.	Cracked riser assembly. Spray Bar Adjustment valve.	Replace riser assembly.
Water leaking from Drain Valve.	Washer worn.	Replace washer.
	Stem worn.	Replace Drain Valve.
Water leaking from Spray Bar Valve.	Washer worn.	Replace washer.
	Stem worn.	Replace Spray Bar Valve.

BRONZE PUMP (PAC2K36HZ or PAC2K48HZ)

PROBLEM	CHECK	SOLUTION
Pump motor will not run when switch is turned on.	Power cord, switches, circuit breaker, etc.	Reconnect power, reset breaker.
Pump motor hums when switch is turned on, but does not pump water.	Air Locked. Pump/Motor locked.	Disconnect hose at base of pump, run pump to release air, then reconnect. Replace pump/motor.
Pump makes loud noise while running	Pump bearings.	Replace pump.
	Object in impeller housing.	Clear object.
Breaker trips or fuse blows when switch is turned on.	Pump motor locked.	Replace pump/motor.
Pump will not run and power is available and pump is functional	Switch making closure contact.	Replace switch.
Pump motor running but pump is not turning.	Set screws on coupling.	Tighten set-screw / Replace coupling.

SHAFT TYPE PUMP (16" models)

PROBLEM	CHECK	SOLUTION
Pump motor will not run when switch is turned on.	Power cord, switches, circuit breaker, switch box, connections, etc.	Reconnect power cord, reset breaker. or reconnect to switch box.
Pump motor hums when switch is turned on, but does not pump water.	Object jammed into impeller blade.	Remove object.
	Air Locked.	Prime pump.
	Pump motor locked.	Replace pump.
Pump makes loud noise while running.	Pump bearings.	Replace pump.
	Object in impeller housing.	Clear object.
Breaker trips or fuse blows when switch is turned on.	Pump motor locked.	Replace pump.
Pump won't run and power is available and pump is functional.	Switch making closure contact.	Replace switch.



IX. FREQUENTLY ASKED QUESTIONS

Q. WHAT ASSEMBLY IS REQUIRED?

A: None. PORT-A-COOL® units are ready to use right out of the box.

Q. HOW DO I PREPARE MY PORT-A-COOL® UNIT FOR STORAGE?

A Drain the unit, dry out the pads and place the unit, preferably covered, in a dry place for the winter season. For more details, please call our Tech Support Hotline at 1-888-COOL-AID.

Q. I JUST HOOKED UP MY PORT-A-COOL® UNIT FOR THE FIRST TIME AND THERE'S AN UNPLEASANT ODOR! WHAT'S WRONG?

A: A new unit will go through a break-in period during which it may emit some odor. The pads, located in the back of your PORT-A-COOL® unit, have never been wet. The resin in the pads will emit an odor the first time you wet them that lasts approximately one to three weeks. Keep the unit in an open area until the odor goes away or put a capful of laundry softener directly in the tank in the bottom of your unit. After a few hours of operation, the odor should disappear. If the unit is not a new unit, algae or bacteria growth in the unit from improper maintenance will cause odors. Please refer to your Owner's Manual for proper cleaning and maintenance.

Q. MY PORT-A-COOL® UNIT ISN'T PUTTING OUT ANY COOL AIR.

A: First, make sure the water source and electricity source are connected and working. Second, check the back of your unit to see if the pads are damp. Adjust the water flow. For the evaporation process to occur, the pads must be damp before you turn on the fan. Third, make sure there is water in the tank. It should be allowed to fill before you turn the pump on. Fourth, if none of these options fix the problem, call our Tech Support Hotline at 1-888-COOL-AID for additional assistance.

FREQUENTLY ASKED QUESTIONS (continued)

Q. WHAT IS THE BEST ENVIRONMENT FOR THE PORT-A-COOL® UNIT TO PRODUCE THE MOST COOL AIR?

A: For optimum performance, the temperature should be 85 degrees F or higher and the relative humidity should be below 75%. However, PORT-A-COOL® units will reduce the temperature in almost any environment, making it more pleasant.

Q. WHAT IS THE DIFFERENCE BETWEEN EVAPORATIVE COOLING AND MISTING SYSTEMS?

A: Misting units spray a shower of water into the air that will collect on people, objects, equipment, floors, etc. The PORT-A-COOL® unit uses the process of evaporative to produce cooler air, but does not discharge a mist.

Q. SHOULD I OIL THE FAN MOTOR?

A. The Motor Installation and Maintenance Information manual states, “Sleeve bearing motors require periodic re-oiling. Re-oil continuous duty units once a year, intermittent duty units every two years, and occasional duty units every five years with 30 to 35 drops of SAE no. 20 non-detergent or electric motor oil.”

Q. WHERE CAN I BUY REPLACEMENT PARTS?

A. Unit replacement parts may be purchased from any PORT-A-COOL® product distributor or directly from PORT-A-COOL® Parts/Technical Support department. You may also visit www.port-a-coolparts.com to order online.

Q. HOW OFTEN DO PADS HAVE TO BE REPLACED?

A: Depending on the quality of maintenance and frequency of use, pads typically last up to five years. However, should you have any questions about the life of the pads for your unit, please call our tech support department for more detailed information about replacing your pads.

(Continued on next page)

FREQUENTLY ASKED QUESTIONS (continued)

Q. WHAT IS THE AMOUNT OF MOISTURE PRODUCED BY A UNIT?

A. Approximately 2% to 5% increase in humidity is produced depending on the temperature and humidity of the environment. This amount of increase in humidity is not noticeable in a ventilated area where the air produced by the unit is exhausted.

Q. HOW LONG WILL THE WATER SUPPLY LAST IN THE SUMP TANK?

A. With no direct water source available, the unit will evaporate the water in a filled sump tank within two to eight hours of operation, depending on model and reservoir size. Also, the evaporation rate will vary depending on temperature and humidity. A water source for refilling the sump tank is recommended by the manufacturer. Most units have an internal float valve for regulating water flow into the sump.

Q. SHOULD I USE ICE IN THE SUMP TANK FOR BETTER COOLING?

A. Some of the vapor from the ice water may be picked up and distributed by the fan, but this does not increase evaporation and therefore will not produce significant cooling.

Q. WHERE ARE THE MODEL AND SERIAL NUMBERS FOUND ON THE UNIT?

A. On the outside of the housing of every unit is a metal plate with a white label with printed barcodes and other information. Unit model numbers begin with the letters "PAC." Serial numbers are all-digit numbers. Please always provide the unit's serial number and model number when contacting Parts/Technical Support.

Q. WHAT IF MY QUESTIONS AREN'T ANSWERED HERE?

A: Tech Support staff is available 8 a.m. to 5 p.m. Central Time, Monday through Friday at 1-888-COOL-AID or by e-mail at support@port-a-cool.com.

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