WARRANTY

Pinnacle Climate Technologies Limited Warranty Policy

Pinnacle Climate Technologies (PCT) provides the following limited warranty from the date of invoice to the initial purchaser of our products or to its customer with a dated proof of purchase:

Two-year coverage (unless otherwise indicated below) applies to all products, components and assemblies provided by PCT that prove to be defective in material or workmanship. Any such defective product will be repaired or replaced at PCT's option, with the defective product or component returned-upon approval, to PCT, F.O.B Sauk Rapids, Minnesota. This warranty does not cover: failure, damage or malfunction as a result of: Improper installation or installation not in accordance with installation instructions. Operating conditions that vary from PCT's operating instructions. Misuse, abuse, negligence, alteration, or accident. Transporting the product. Improper operation or lack of appropriate or regular maintenance of the product. Loss of time, inconvenience, loss of use of the product or other consequential or incidental damages. Parts that need replacement due to normal wear and tear. Superficial or cosmetic rust or corrosion. Any product whose name plate has been removed.

Full warranty statement may be printed or downloaded from www.schaeferventilation.com

All information, illustrations and specifications provided here are based on the latest product information available at the time of printing. Product specifications subject to change.

SCHAEFER®

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SCHAEFER®

Versa-Kool® Series Mobile Circulation Fan Operators Manual

M-VKM



42" VKM



36" VKM



24" VKM

IMPORTANT: READ AND SAVE THESE INSTRUCTIONS

Read all instructions carefully before attempting to assemble, install, operate or service the product described. Failure to comply with instructions could result in personal injury and/or property damage.

Using this product for any other purpose than it was intended, or not within the operating specifications in this manual will void the warranty and may cause damage to the fan or serious injury to personnel.

⚠ WARNING! TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK:

- GFCI is recommended.
- Do not use this fan with any speed control device.
- The power source must conform to the electrical requirements of the fan.
- The power cord has a 3-prong grounded plug that must be plugged into a GFCI (Ground Fault Circuit Interrupter) protected circuit.
- Do not alter the plug to remove the grounding prong and never use a 2-prong adapter.
- Replace damaged or worn power cords immediately.
- Where possible, avoid using extension cords. If one must be used, the cord must be UL listed, be the proper size (Amp rating), and have 3-prong grounded connections.
- Do not use this fan with any solid state speed control device.
- Do not expose to water or rain.
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer. 1-800-779-3267
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

⚠ **WARNING:** To Reduce The Risk Of Fire, Electric Shock Or Injury To Persons, Do Not Use Replacement Parts That Have Not Been Recommended By The Manufacturer (e.g. Parts Made At Home Using A 3D Printer).

⚠ **WARNING:** This product can expose you to chemicals, including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

General Safety Information:

- Before operating this fan, check for worn, damaged, or missing parts and replace or repair as needed.
- To avoid risk of fire, electric shock or personal injury, disconnect from power source before servicing.
- This fan is intended for general use only. Do not use near hazardous or explosive materials or vapors.
- Never insert fingers or any other objects through the guards when fan is in operation.
- Never operate fan without guards in place.
- Certain versions of this fan have guards that are not OSHA compliant. These units are designed to be intrinsically safe, however, never allow children near fan when in operation.
- Fan must be on a stable, flat surface when in operation to avoid possible overturning.
- Unplug the fan before moving from one location to another.
- All **WARNING** and **CAUTION** labels must be kept in good condition and be replaced if not clearly readable.
- Carefully read all safety messages in this manual and on your equipment safety labels.
- Follow recommended precautions and safe operating practices.
- 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 Use To Exhaust Hazardous Or Explosive Materials And Vapors.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.

Initial Setup and Assembly:

CAUTION: This fan assembly is heavy. Do not attempt to lift the fan without assistance.

- Visually inspect the unit for any damage that may have occurred during shipping.
- Contact your shipper immediately if any damage is found.
- The fan is shipped fully assembled.

Operation:

- Locate fan in desired location, connect the power cord and turn on.
- Fan must be located at least 4 feet from wall or obstructions to allow for proper operation of fan.
- Starving the fan of air may cause the motor to overheat and cause the unit to shut off.
- Fan motor is thermally protected and will shut off if overheated. Turn unit off and allow motor to cool before restarting.

Stacking Tabs:

CAUTION: Stacking tabs are designed for storage use only. Fans must be properly secured for transport.

User servicing instruction

Cleaning and Maintenance:

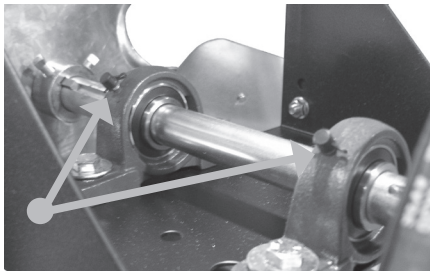
WARNING: UNPLUG FAN FROM POWER SOURCE BEFORE SERVICING.

- When servicing the unit only loosen one tension bolt at a time. Loosening both tension bolts together is not recommended.
- Some maintenance procedures will require removal of fan guarding.
- After servicing, guards and other safety devices must be reinstalled per their original condition.
- Excessive dust and debris may cause overheating and reduced fan performance.
- Keep guards, motor and blades clean by vacuuming or wiping with a damp cloth.
- Do not use harsh chemicals or cleaners to clean any part of the fan.
- Pressure washing the unit will void the warranty.
- Sealed motor bearings are pre-lubricated and do not require servicing.
- Belt-drive fans require additional periodic maintenance:
  - Grease pillow block bearings every 800 hours.
  - Check belt for signs of wear or cracking. Replace belt if necessary.
  - Check belt for proper tension. Proper tension is 1/8" deflection at 4 lbs of force.

Every 800 hours of operation

Grease the Bearings:

While slowly turning the bearing, use 1-2 shots of a lithium base NLGI #2 grease from a hand operated grease gun to adequately fill the bearing 30-50% full.



Note:
Verify that the grease seals on both sides of the bearing are intact and not showing signs of displacement or deformation once greasing activities have been completed. Over-greasing bearings will cause premature failure of bearings if seals are compromised.

Troubleshooting Guide:

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
Fan does not operate	1. Fan not plugged in	1. Check power cord connection
	2. Blown fuse or tripped circuit breaker	2. Replace fuse or reset circuit breaker
	3. Defective on/off switch	3. Repair or replace switch
	4. Defective motor	4. Repair or replace motor
	5. Fan blade contacting housing	5. Realign fan blade in fan housing
Insufficient airflow	1. Guards excessively dirty	1. Clean inlet and outlet guards
	2. Blade and motor excessively dirty	2. Clean blade and motor
	3. Loose or worn belt	3. Adjust belt tension, replace if necessary
Excessive noise	1. Fan blade contacting housing	1. Realign fan blade in fan housing
	2. Defective motor bearings	2. Repair or replace motor
	3. Defective pillow block bearings	3. Replace pillow block bearings
	4. Loose guards	4. Tighten guard fasteners
Excessive vibration	1. Damaged fan blade	1. Replace fan blade
	2. Motor shaft bent	2. Repair or replace motor
	3. Fan shaft bent	3. Replace fan shaft
	4. Defective pillow block bearings	4. Replace pillow block bearings
	5. Motor loose	5. Realign if necessary and tighten fasteners