

Phoenix Axial Air Mover with *FOCUS™* Technology

The PHOENIX AXIAL AIR MOVER is the industry's only Air Mover specifically engineered with patent pending FOCUS™ Technology. FOCUS™ Technology revolutionizes evaporative drying by producing air velocities greater than competitive product offerings. This highly focused air flow is directed towards the restoration industry's problematic drying areas namely, carpet and pad, sub-floor, sill plate and walls. Finally, the PHOENIX AXIAL AIR MOVER with FOCUS™ Technology sustains these air velocities further than any other axial air mover.

The PHOENIX AXIAL AIR MOVER includes a 2-speed motor delivering a focused airstream of approximately 3000 cfm, lightweight stackable enclosure designed to fit existing vehicle rigging, on-board duplex GFCI outlet, circuit breaker, superior cord management and hour meter.



FOCUS™ Technology Features & Benefits

Focused Air Flow	<ul style="list-style-type: none"> • Approximately 3000 CFM air flow directed where you need it. Patent pending FOCUS™ Technology directs air towards the corner of walls and floors to dry the sill plate quickly.
Power Management	<ul style="list-style-type: none"> • Operator interface conveniently located for easy access, featuring: power indicator lamp, three-position switch, circuit breaker, GFCI outlet, and hour meter. • Daisy-chain up to four PHOENIX AXIAL AIR MOVERS on a single circuit. • Integral circuit breaker eliminates nuisance trips to the breaker box. • AXIAL AIR MOVER itself is also GFCI protected.
Packaged for Use	<ul style="list-style-type: none"> • Comes "ready-to-use" in the box. • Unique offset handle promotes ease-of-use. • Units interlock for ease of stacking during storage and handling. • More pleasing sound than competitive units. • Weighs 2.5 lbs less than competitive units.
Housing	<ul style="list-style-type: none"> • Linear low density polyethylene construction. • Unique housing and matched blade/motor result in quiet operation. • Easily serviced.
Long-life Motor	<ul style="list-style-type: none"> • Low bearing temperatures increase motor life. • Permawick® Lubrication.

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READ AND SAVE THESE INSTRUCTIONS

- Do not operate the unit with a cut or frayed power cord.
- Do not unplug the unit by pulling on the cord. Grasp the plug firmly and pull it out of the wall socket or power receptacle.
- Always use a grounded outlet.
- Never operate electrical equipment in standing water.
- Never operate with the safety grills removed. Personal injury may result.
- Do not stick your fingers or other objects through the safety grills.
- Do not restrict airflow to the unit. This may cause the unit to overheat.
- Unit should never be serviced or cleaned while it is plugged in.
- Do not plug more than 9.0 amps total into the GFCI outlet.
- Do not sit or stand on the unit or use as a shelf or table.
- Check GFCI protection before each use by pushing "test" button. If operating properly, "reset" button will pop out.
- Before leaving an AXIAL AIR MOVER unattended, ensure children do not have access to the equipment. Do not allow children to play with or near the unit or in its air flow.
- To reduce the risk of fire or electric shock, do not use this air mover with any solid-state speed control device.

LIRE ET CONSERVER CES INSTRUCTIONS

- Risque de choc électrique Peut causer des blessures ou la mort. Débrancher toutes les alimentations en courant électrique à distance avant l'entretien ou le nettoyage.
- Ne pas utiliser l'appareil avec un cordon d'alimentation coupé ou effiloché.
- Ne pas débrancher l'appareil en tirant sur le cordon. Tenir la fiche fermement et la tirer hors de la prise murale ou la prise d'alimentation électrique.
- Toujours utiliser une prise mise à la terre.
- Ne jamais utiliser l'équipement électrique dans de l'eau stagnante.
- Ne jamais utiliser sans les grilles de protection. Des blessures risquent d'en résulter.
- Ne pas passer les doigts ou d'autres objets dans les grilles de protection.
- Ne pas diminuer le débit d'air arrivant jusqu'à l'appareil. L'appareil risque de trop chauffer.
- Ne pas brancher plus de 9 ampères au total au différentiel.
- Ne pas s'asseoir ou se tenir debout sur l'appareil; ne pas l'utiliser comme étagère ou table.
- Vérifier la protection du différentiel avant chaque utilisation en appuyant sur le bouton " test ". Si l'appareil fonctionne correctement, le bouton " reset " ressort.
- Avant de laisser un appareil aéraulique axial sans surveillance, s'assurer que les enfants n'ont pas accès à l'équipement. Ne pas laisser les enfants jouer avec l'appareil ou à proximité de l'appareil ou dans l'air qu'il projette.
- Pour réduire le risque d'incendie ou de choc électrique, ne pas utiliser ce ventilateur avec un dispositif de commande de vitesse à semi-conducteurs.

Intended Application for PHOENIX AXIAL AIR MOVER

The PHOENIX AXIAL AIR MOVER minimizes overall drying time on water restoration jobs. The PHOENIX AXIAL AIR MOVER uses patent pending FOCUS Technology to maximize air velocity across floors and along walls for longer distances. By maximizing the air velocity, water evaporates more quickly from the carpet, pad, sub-floor, wall, and sill plate. We optimized the PHOENIX AXIAL AIR MOVER to dry structures through rapid evaporation.

Registrations

The PHOENIX AXIAL AIR MOVER (P/N 4025200) conforms to UL STD 507. Certified to CAN/CSA STD C22.2 No. 113.

Specifications

Size	Height: 19.5" Width: 19.9" Depth: 15.2" (intake to exhaust)
Weights	Unit: 29.5 lbs. Shipping: 32.7 lbs.
Motor	1/4 hp 1-phase 110/120 VAC 2-speed 4-pole, PSC Electric Motor.
CFM	Approximately 3000
Cord	20ft Power Cord
Outlet	15A UL Rated GFCI Duplex Receptacle
Current Draw	2.5 Amps
Voltage	115 VAC

Power Requirements and Daisy-Chaining the PHOENIX AXIAL AIR MOVER

The PHOENIX AXIAL AIR MOVER draws 2.5 amps. The 12 amp, on-board circuit breaker will allow four (4) PHOENIX AXIAL AIR MOVERS on one circuit. When daisy-chaining the PHOENIX AXIAL AIR MOVER, turn on one PHOENIX AXIAL AIR MOVER at a time to prevent excessive current inrush caused by four units starting at once.



Figure 1: Too many AXIAL AIR MOVERS daisy-chained.

A ground fault in the PHOENIX AXIAL AIR MOVER or anywhere on the circuit will cause the AXIAL AIR MOVER's GFCI to trip. After rectifying the ground fault, reset the GFCI by pressing the reset button.

Recommended Use

Recommended use(s) of on-board duplex GFCI are show in Figure 2. NOTE: Standard 115 VAC electrical outlets.

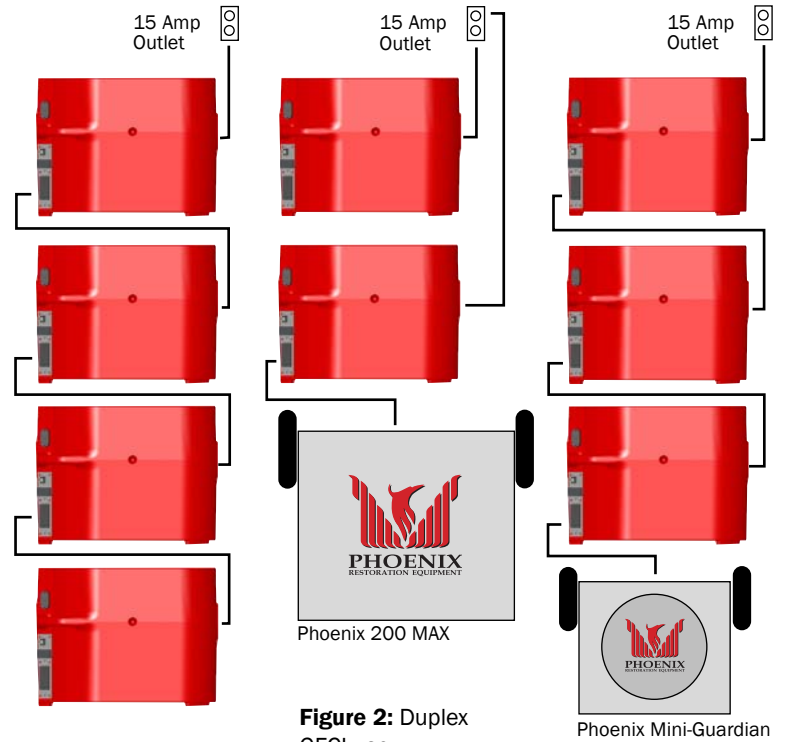


Figure 2: Duplex GFCI use.

Integrated Cord Wrap

The PHOENIX AXIAL AIR MOVER features integrated cord management. Wrap the cord around the cord wrap as shown and secure the cord with the clasp on the plug.



Figure 3: Cord wrap.

AXIAL AIR MOVER Applications

Sizing PHOENIX AXIAL AIR MOVER's for Water Restoration Jobs

Current industry standards call for one air mover per 10-14 linear feet of wall space, dependent upon the Class of water damage. For commercial structures, the industry standard calls for one air mover for every 50-60 ft².

The water restoration industry based these estimates on the air mover technology available when writing the standards. Following these equipment-sizing standards when using the PHOENIX AXIAL AIR MOVER will result in dramatically faster drying times. If the restoration professional desires to merely achieve industry standard drying times, he can use fewer PHOENIX AXIAL AIR MOVERS than current equipment standards allow.

Placement of the PHOENIX AXIAL AIR MOVER

Current industry guidelines suggest placing air movers at a 45° angle to wall. These guidelines apply to air movers without FOCUS Technology. FOCUS Technology allows the restoration professional to place the PHOENIX AXIAL AIR MOVER at an angle more parallel to the wall.

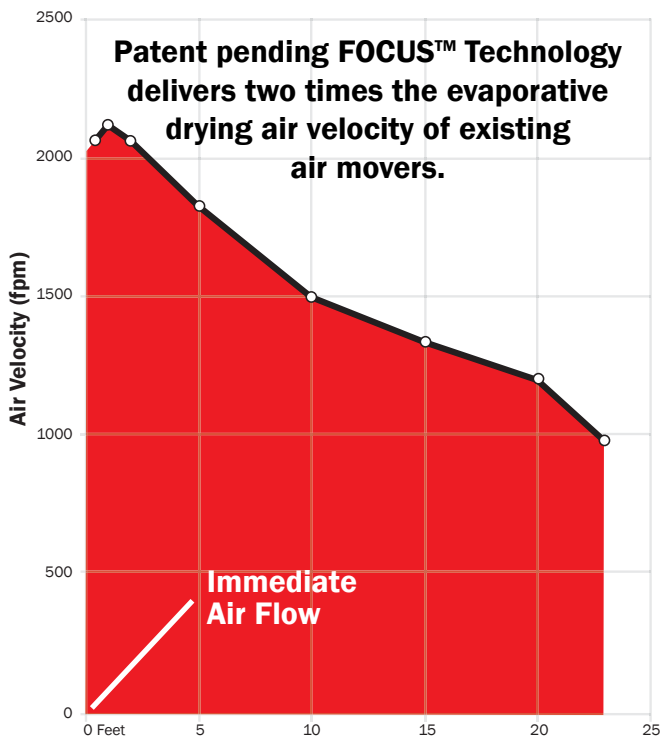


Figure 4: Airflow of the PHOENIX AXIAL AIR MOVER measured 3.5" parallel to wall.

The test graph shown above depicts immediate air flow at the FOCUS Technology corner and delivery of two times the evaporative drying air velocity of existing units. The AXIAL AIR MOVER sustains this air flow for more than 20 feet and maximizes the air velocity across the floor and along the wall when placed the at 4.5° angle from the wall.

By touching the front edge of the output side of the PHOENIX AXIAL AIR MOVER against the wall and rotating the rest of the unit against the wall, the restoration professional will place the PHOENIX AXIAL AIR MOVER at 4.5° due to the housing's built-in design. Industry experts agree placing AXIAL AIR MOVERS 45° angle to the wall wastes air flow and reduces the performance by forcing air up the wall.

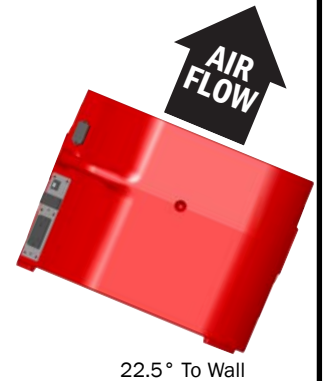


4.5° To Wall as Shown

The best applied angle for drying will range from 4.5° to 22.5° depending upon the Class of water damage, the type of structure, and the distance between air movers. Refer to Figure 5.

Orienting PHOENIX AXIAL AIR MOVERS to Create a Directional Drying System

The PHOENIX AXIAL AIR MOVER dries in counter-clockwise and clockwise directions for optimum ease of use. The PHOENIX AXIAL AIR MOVER ships with rubber feet on one side of the unit. For counter-clockwise drying, the "rubber feet" side faces down (Figure 6).



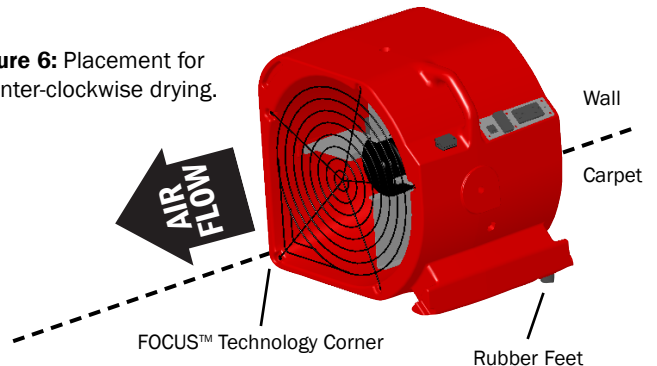
22.5° To Wall

Figure 5: Placement of AXIAL AIR MOVER

When the water restoration professional needs to employ clockwise drying (such as the need to dry a door jamb), simply rotate the PHOENIX AXIAL AIR MOVER 90° so the FOCUS Technology corner points toward the door jamb and floor for the clockwise drying.

If the water restoration professional dries in the clockwise direction often, we suggest attaching the two (factory provided) rubber feet into the threaded holes on the side of the PHOENIX AXIAL AIR MOVER. By attaching the rubber feet and creating the optimal downward angle of 4.5°, the PHOENIX AXIAL AIR MOVER will maximize air velocity across the floor and wall when drying in the clockwise direction.

Figure 6: Placement for counter-clockwise drying.



AXIAL AIR MOVER Operation

Operating Instructions

The PHOENIX AXIAL AIR MOVER as packaged is ready to be put into service. Inspect the unit completely for any shipping damage. Place the unit on the ground. Check the GFCI to ensure it is not tripped. Orient the unit so the desired air flow direction is the same as the indicator in the FOCUS Technology corner on the interior of the unit. Plug the unit into a grounded outlet and select the drying mode shown in Figure 7 below.

⚠ CAUTION

CAUTION: The PHOENIX AXIAL AIR MOVER consumes 2.5 Amps. Do not plug devices requiring more than 9.0 Amps of current into the duplex outlet.

AXIAL AIR MOVER Operator Panel Features

Run-Time Hour Meter

The PHOENIX AXIAL AIR MOVER operator interface panel is equipped with an Automatic LCD (Liquid Crystal Display) Hour meter. This hour meter displays cumulative run time.

The hour meter meets IP65 for moisture and dust protection...it's designed to survive harsh restoration and water recovery applications. The hour meter features non-volatile eeProm memory. This type of memory cannot be erased, nor reset. This feature ensures accurate time tracking.

The display can be used to track time-of-operation and time-to-dry. Some restoration professionals use the hour meters to help them establish hourly billables.

12 Amp Resettable Circuit Breaker

The PHOENIX AXIAL AIR MOVER operator interface panel is equipped with several on-board power management features. One feature is a 12 AMP thermal response resettable circuit breaker. The circuit breaker protects the unit and devices connected to its duplex GFCI outlet.

The circuit breaker is designed to sense the total current draw through the circuit. The circuit breaker "trips" when more than 12 amps of electrical current are drawn through

the device's power cord. Should an over-current condition occur, the AXIAL AIR MOVERS' on-board circuit breaker prevents nuisance visits to a remote power junction box.

Power Indication Lamp

The PHOENIX AXIAL AIR MOVER operator interface panel is equipped with several on-board power management features. One feature is a RED, sealed, high intensity AC voltage power indication lamp. This indication lamp allows operators to visually identify the operation status of several PHOENIX AXIAL AIR MOVERS at a distance, with a single glance.

The power indication lamp will remain lit when the AC power cord is plugged into a standard "powered" AC power outlet and the PHOENIX AXIAL AIR MOVER 3-position Drying selector switch is in either the HIGH or LOW operation position.

The power indication lamp will remain unlit when the AC power cord is unplugged, the Axial Air Mover 3-position Drying selector switch in the OFF position, the on-board GFCI or 12 Amp circuit breaker is tripped, or the connected, standard AC wall outlet power has been turned off.

3-Position Drying Selector Switch

The PHOENIX AXIAL AIR MOVER operator interface panel is equipped with several on-board power management features. One feature is a 3-position drying mode selector switch. This switch is used to select the PHOENIX AXIAL AIR MOVER's mode of operation. The 3 modes of operation are OFF, LOW or HIGH.

⚠ IMPORTANT

IMPORTANT: When the PHOENIX AXIAL AIR MOVER is plugged into a standard "powered" wall outlet the PHOENIX AXIAL AIR MOVER's duplex outlets are electrically "HOT" and AC voltage is present.

OFF - The PHOENIX AXIAL AIR MOVER is not drying. The power indication lamp is unlit. If the PHOENIX AXIAL AIR MOVER is plugged into a standard "powered" wall outlet all devices connected to the PHOENIX AXIAL AIR MOVER's duplex GFCI outlet receive AC voltage.

LOW - The PHOENIX AXIAL AIR MOVER is in "Normal" Drying mode. This mode provides rapid drying and very quiet operation. The power indication lamp will be lit. All devices connected to the devices duplex GFCI outlet will receive AC voltage.

HIGH - The PHOENIX AXIAL AIR MOVER is in "Ultra" drying mode. This mode provides rapid drying and low noise, quiet operation. The power indication lamp will be lit. All devices connected to the devices duplex GFCI outlet will receive AC voltage.

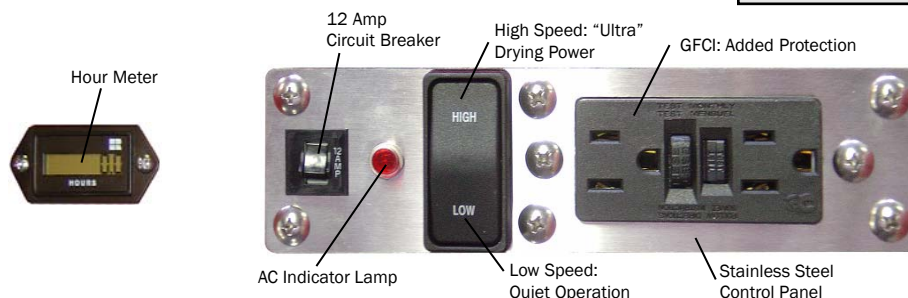


Figure 7: AXIAL AIR MOVER Operator Panel

GFCI Protection and the On-Board Duplex VAC Outlet

The PHOENIX AXIAL AIR MOVER operator interface panel is equipped with several on-board power management features. One feature is a duplex GFCI, standard AC voltage outlet.

The device's GFCI (Ground Fault Circuit Interrupter) protection promotes operator safety in wet applications. GFCI devices trip when a fault to electrical "ground" is sensed.

It is recommended, operators check the GFCI protection prior to AXIAL AIR MOVER operation. To check GFCI protection push the "TEST" button located on the GFCI duplex outlet. If operating properly the "RESET" button on the GFCI outlet will pop out. The device can only be "RESET" when the AXIAL AIR MOVER is connected to a wall outlet providing standard AC voltage. This duplex AC outlet allows the inter-connection of other AC powered devices.

Maintaining Your AXIAL AIR MOVER

! WARNING

WARNING: Disconnect the unit from power before servicing, lubrication or cleaning. Replace the wire safety grill after servicing, lubrication or cleaning.

Servicing

Before each use, the PHOENIX AXIAL AIR MOVER with FOCUS Technology should be inspected for damage, blocked inlet or outlet, or any excess buildup of foreign material.

Inspect the GFCI to ensure it is not in a "tripped" condition. Push "RESET" to reset the GFCI.

When the PHOENIX AXIAL AIR MOVER is first turned on, check for excessive vibration. If the unit vibrates excessively or if blade rubs on housing turn off the unit immediately. Have a service technician inspect the unit to locate the problem.

Motor Lubrication

Oil the unit every six months with 3 - 4 drops of SAE 20 weight non-detergent oil. Lubricate the motor with a drop of oil after each washing.

! IMPORTANT

IMPORTANT: The approved oil for lubrication is SAE 20 weight non-detergent oil, specifically designated for use with electric motors.



Figure 8: Oil hole locations. Access the oil holes by removing the protective grill(s) and turning the unit upside down.

Cleaning The AXIAL AIR MOVER

The AXIAL AIR MOVER's housing is made of a durable and washable polyethylene. When cleaning, the use of solvents is NOT recommended.

When washing inside the unit, disconnect the unit from its power source. Protect the operator interface panel with a cloth. Clean inner barrel, grills and blade. Wipe down motor exterior with a damp cloth. If the motor gets wet during cleaning, simply allow ample time for motor to dry out completely before restarting. If you clean your device frequently perform motor lubrication more frequently as well.

If you wash the AXIAL AIR MOVER and do not plan to use it within 24 hours, allow the fan to drip dry for 10 minutes and then run the AXIAL AIR MOVER for 3 - 5 minutes before storing it.

Replacement Parts and Optional Accessories

Contact the factory at 1-800-533-7533 to order replacement parts, or optional accessories

4025203	Breaker, CKT, 12A
4025204	Switch, Rocker, On-Off-On
4025205	Outlet, Duplex, GFCI, 15A
4025206	Grill, Safety, Intake
4025206	Grill, Safety, Exhaust
4025460	Axial Air Mover Stand



Figure 9: Optional stand allows the AXIAL AIR MOVER's air flow to be directed in a 360° range of movement. (Part # 4025460)

PHOENIX AXIAL AIR MOVER Limited Warranty

WARRANTOR:

Therma-Stor LLC
PO Box 8050
Madison, WI 53708.

Telephone: 1-800-533-7533

WARRANTY: This warranty covers PHOENIX AXIAL AIR MOVERS.

Year One - 100% parts and labor (all components)

Year Two - 100% parts only (all components)

Year(s) Three through Seven - Only materials and workmanship of the housing are covered.

If a defect in materials or workmanship occurs within the warranty period, Therma-Stor LLC will repair or replace the defect.

USER RESPONSIBILITIES: Warranty service must be performed by a servicer authorized by Therma-Stor Products. To obtain warranty service you must obtain a return material authorization (RMA). To obtain an RMA you must present proof of purchase or (lease), by use of a warranty card, original sales receipt or other reasonable and reliable means.

To obtain an RMA call Therma-Stor LLC at the above number and ask for the Therma-Stor LLC Service Department, which will then issue an RMA# and arrange for, at our option, either repair or replacement.

FREIGHT: Freight to and from the servicer is the responsibility of the end-user. The end-user is responsible for normal care and proper return packaging.

LIMITATIONS AND EXCLUSIONS: This warranty does not cover any defect, malfunction, etc. resulting from misuse, abuse, lack of normal care, corrosion, freezing, tampering, modification, unauthorized or improper repair or installation, accident, acts of nature or any other cause beyond Therma-Stor LLC's reasonable control.

If any PHOENIX AXIAL AIR MOVER part is repaired or replaced, the new part shall be warranted for the balance of original warranty (but all warranty periods will be extended by the period of time, if any, that the PHOENIX AXIAL AIR MOVER with FOCUS Technology is out of service while awaiting covered warranty service).

Warranty service will be performed during normal working hours.

UPON THE EXPIRATION OF THE WRITTEN WARRANTY APPLICABLE TO THE PHOENIX AXIAL AIR MOVER OR ANY PART THEREOF, ALL OTHER WARRANTIES IMPLIED BY LAW, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL ALSO EXPIRE. ALL WARRANTIES MADE BY THERMA-STOR LLC ARE SET FORTH HEREIN, AND NO CLAIM MAY BE MADE AGAINST THERMA-STOR BASED ON ANY ORAL WARRANTY. IN NO EVENT SHALL THERMA-STOR LLC, IN CONNECTION WITH THE SALE, INSTALLATION, USE, REPAIR OR REPLACEMENT OF ANY PHOENIX AXIAL AIR MOVER OR PART THEREOF BE LIABLE UNDER ANY LEGAL THEORY FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING WITHOUT LIMITATION WATER DAMAGE (THE END USER SHOULD TAKE PRECAUTIONS AGAINST SAME), LOST PROFITS, DELAY, OR LOSS OF USE OR DAMAGE TO ANY REAL OR PERSONAL PROPERTY.

Some states do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages, so one or both of these limitations may not apply to you.

LEGAL RIGHTS: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.





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