Owner's Manual

FIREPLACE FURNACE



Read instructions carefully and save for future reference.





Congratulations!

You have purchased an Airculator Fireplace Furnace by Cascade Home Decor. It is specially designed and built to add beauty and energy-saving comfort to your home. For your ease and safety, please read and follow all instructions carefully.

Warning: Improper use or installation of this product may cause personal injury or damage to the product which may void the warranty. Please read installation instructions carefully before you install or operate your Airculator. Save for future reference.

General Fireplace Safety Instructions

Pre-Installation Inspection: (1) Examine the masonry fireplace and chimney prior to installation of the Airculator to determine that they are free of cracks, loose mortar, creosote deposits, other blockage, or other signs of deterioration, and (2) verify that there is a hearth that extends at least 16" in front of the fireplace and at least 8" to the sides of the fireplace that has an opening less than 6 square feet; or extending at least 20" in front and at least 12" to the sides for fireplaces having an opening of 6 square feet or larger.

If evidence of deterioration is noted, the Airculator should not be installed until after repairs have been made to the fireplace.

The chimney should be inspected annually prior to the heating season to determine if creosote buildup has occurred. When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue over a slow burning fire. As a result, creosote residue accumulates in the flue lining. When ignited this creosote makes an extremely hot fire. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.





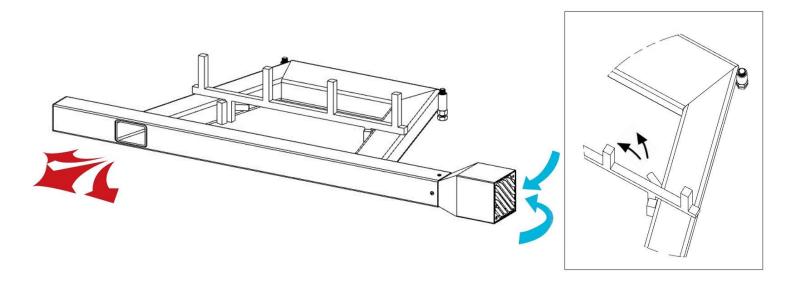
Safety precautions

- 1. <u>The Airculator Fireplace Furnace</u> has been manufactured from heavy gauge tubing. Care should be taken to avoid strains or injuries when moving it. At least two people should lift the heat exchanger during all handling operations.
- 2. <u>Never use highly flammable materials</u> such as gasoline, solvent, paint thinner, plastic or paper (other than a small amount of paper to start the fire) in the fireplace. Highly flammable materials can quickly burn out of control generating extremely high temperatures which can shatter glass and cause other damage.
- 3. <u>Should the fire get out of control</u>, keep the fan on your Airculator operating. Do not shut it off, as extreme heat can damage the motor. Glass enclosure draft controls and glass enclosures should remain fully open to help avoid metal and glass damage from heat.
- 4. <u>Warning! The fan should always be in operation when there is a fire or embers in the fireplace.</u> In the event of a power outage, remove the two screws securing the motor box to the manifold and remove the fan box. To replace the fan box, reverse this process.
- 5. <u>Do not build large fires.</u> The Airculator was designed for small to medium sized fires. Large fires are not necessary and can be hazardous.
- 6. <u>Do not burn your Airculator without the protective log retainer</u>, as this keeps fire and logs away from the manifold and helps prevent them from falling into the room.
- 7. <u>Keep fuel and fire 6" back from fireplace opening to prevent heat damage</u> to the manifold finish.
- 8. <u>Keep all vents free of dust, lint or other obstructions.</u> Keep children and combustible materials away from the potentially hot surfaces of both the glass enclosure and the manifold.
- 9. <u>Do not</u> run the power cord over the top or in front of the Airculator manifold.
- 10. The use of a glass enclosure with your Airculator Fireplace Furnace is strongly recommended.



Using your Airculator Fireplace Furnace

- 1. <u>Break-in Period.</u> Important: During the initial use of your Airculator unit, you may detect smoke and/or odor being ejected from the warm air discharge vent. This condition is the result of the metal preservative vaporizing inside the heat chamber. The smoke and/or odor is not harmful. Depending on the size of your fire, the smoke and odor will last for about 20 to 30 minutes.
- 2. <u>General Operating Information.</u> Your Airculator Fireplace Furnace draws cool air or hearth level air into the fan box, sends it through the heat chamber and circulates warm air throughout your room. The unique "Air Jets" provide additional air (oxygen) to the bed of the fire. The "Air Jets" aid in starting and maintaining a hotter fire. This increases the available heat delivered to your room. The stream of the warmed air from your Airculator will reach out into the room and create air circulation so that more even temperatures will occur. As the Airculator runs, temperatures around the room will continue to improve. The constant recirculation of cool air to warm air provides even warmth to your room.
- 3. <u>Fan/Blower Operation.</u> The fan must always be operating when there is a fire or embers in the fireplace. <u>The fan motor uses only about 10 watts of power, while producing up to 6500 watts per hour (20,000 BTUs) of usable heat for your home.</u>
- 4. <u>Too Much Heat.</u> If the room gets too warm, lower the fan speed, reduce the amount of wood or coal you are using, or arrange the fire so that it does not have as great a contact with the back heat chamber of the Airculator. With some familiarization and operating experience, you can adjust the heat output of the Airculator to suit your individual requirements, but allow the fan to operate whenever fire or embers are in the fireplace.







Preparing for Installation

Before beginning installation of your new Airculator Fireplace Furnace, the following steps should be taken:

- 1. Make sure the fire is completely out.
- 2. Remove obstructions such as mesh curtains, glass enclosures, etc., from the fireplace opening.
- 3. Remove grate, ashes and unburnt wood or fuel particles from the firebox.
- 4. Record manifold model number. Also record separate manifold & fan box manufacturing codes on page 7 of this booklet for future reference. You will need these numbers to order replacement parts. (Note: the manifold model number and manufacturing code is on page 7. The fan box manufacturing number is on the back of the fan box.)
- 5. Check parts. Your Airculator is shipped in two packages. Please verify that you have all of the parts listed below:
 - Package A: 1. Manifold with Heat Chamber
 - 2. Log Retainer
 - 3. Leveling Bolts and Nuts (2 each)
 - Package B: 1. Fan Box
 - 2. Small Phillips Head Screws (2)
 - 3. Low Voltage AC. Adaptor Power Supply
- 6. The only tool needed to install your Airculator is a #2 Phillips screwdriver.

Installation

- 1. The Airculator fan box can be installed as a right-hand unit or left-hand unit, depending on the convenience of an electrical outlet. If you prefer to place the fan box on the right side of the hearth, make sure the manifold heat outlet is on the left side of the hearth. If you prefer to place the fan box on the left side of the hearth, make sure the manifold heat outlet is on the right side of the hearth.
- 2. Place the heat chamber part of the Airculator in the fireplace. Be sure the entire front assembly is placed on the hearth outside of the firebox.
- 3. If you have a recessed fire bed, use the two height adjustment bolts provided. The Airculator will adapt to a 2-1/4" firebox drop with the height adjustment bolts. Place nuts on bolts and adjust nut position so the distance from the head of the bolt to the head of the nut equals the fireplace drop. Place the threaded end of each bolt up thru the two bolt receptacles at the back heat chamber corners. Adjust nut up or down as necessary to support the heat chamber. For fire box drops in excess of 1", bricks should also be placed under the unit for maximum heat production.
- 4. Connect the motor box to the manifold using the one Phillips head screw. Position the fan box so the rotary switch is towards the top near corner of the fan box. The manifold should be pushed towards the fireplace so that the rear of the manifold is tight against the fireplace opening.
- 5. If using a glass enclosure, minimize motor box vibration and insure a tight seal between the glass enclosure and the Airculator by placing a small amount of fiberglass insulation between the glass enclosure and the Airculator. Manifold height raises glass enclosures 2-1/2".
- 6. Insert the log retainer as shown in the illustration.
- 7. Connect the power supply plug to the receptacle at the end of the fan box and the power cord to the nearest power outlet. A three speed rotary switch activates the unit.



Building a Fire

Materials Needed: Matches Kindling

Newspaper Wood – preferable dry and seasoned

- 1. Open glass enclosure doors and/or wire mesh curtains fully.
- 2. Open the chimney damper fully. This should remain open permanently as a safety precaution.
- 3. If the temperature outside is below freezing (32°) or the fireplace does not draw air up the `chimney, do the following: Make a cone from newspaper, light it and hold it up the opened chimney. This preheats the flue air and prevents cold air from coming down the chimney and blowing smoke into the room when the fire is lit.
- 4. Open the glass enclosure draft control. Make sure ashes and debris are not blocking the openings.
- 5. Build the fire as far to the back of the fireplace as possible to prevent glass enclosure damage. Flames should never be allowed to contact the glass enclosure or firescreen mesh as this can cause discoloration.
- 6. Crumple some newspaper and put it on the floor between the Air Jets. Your firebox need not be totally free from ashes. (When coals are produced, an accumulation of ash up to the base of the Airculator helps the coals stay hotter longer.)
- 7. Start the fire gradually with some small amounts of dry kindling. Add larger pieces of wood to achieve a medium, well-controlled fire. Even if your wood is semi-dry or wet, Airculator's Air Jets will help you make the most of your fuel.
- 8. Light the paper under the kindling. When the kindling ignites, turn the motor on and, if necessary, put your hand over the Airculator discharge for one minute. This causes more air to flow through the Air Jets and creates a greater "forge" effect. Your Airculator comes with a three speed control. Use a higher speed when starting your fire.
- 9. Add wood and after the fire is going, close your firescreen. You may close the glass enclosure (with the back-up screen closed), providing the fire is small. For maximum heating efficiency, always keep the fan motor on.

Note: Do not make a large fire using an Airculator! Three small logs are ideal. Small to medium sized fires are not only preferable, but necessary to insure the proper heat temperature for the Airculator. Large fires can be hazardous to you and your property.

10. When you retire from your fireplace area, make sure your fire is under control and the screen and glass enclosure are closed as well as the glass enclosure draft control. Damper should remain open 24 hours after the fire has died down.

Preventing Damage, and Care and Maintenance

- 1. To prevent discoloration of glass and metal, never allow flames to come in contact with the glass enclosure, firescreen or Airculator manifold.
- 2. Use the log retainer provided to avoid damage caused by logs or other fuels rolling into the glass enclosure or firescreen.
- 3. Protect yourself and your family by avoiding high temperature fires created by the use of highly flammable materials or unusually large fires which can cause firescreen damage and/or loss of glass temper and possible shattering of the glass. Never clean glass enclosures while they are hot.





Cleaning instructions Cont.

It is recommended that the interior area of the fan box be vacuumed every six months or more often if conditions warrant (if there are pets, etc.). To clean, unplug the unit and vacuum at the air intake louver to remove dust from the fan box.

Firebox:

Airculator operates at maximum capacity when surrounded by hot burning materials such as coals. Therefore, it is recommended that a bed of ashes be allowed to accumulate to the base of the Airculator.

Manifold:

The Airculator manifold is steel coated in a high quality black finish for durability and attractiveness. To clean, use only a damp cloth. Never use abrasive cleaners or any abrasive cleaning pads.

Fan Motor:

No maintenance or lubrication is required.

Replacement Parts

Replacement parts should be ordered from your dealer. Use this form for your convenience in ordering. When ordering parts, specify the item number, description, model number and manufacturer code. When replacing parts, use only manufacturer's specified parts or the equivalent.

Manifold Model No				
Manifold Mfg. Code				
Fan Box Mfg. Code				
Complete the following to order parts:				
Item No	QTY	_		
Description				
Item No	QTY			
Description				
If Faceplate: Finish All Satin Black Other				
Name				
Street Address				
City	State	_Zip		
Phone or E-mail				

1. 2. 3. 4. 5. 6. 7.	Description Fan Box Manifold Log Retainer Grate Sheet Metal Screws Height Adjustment Bolts Height Adjustment Nuts Low Voltage Power Supply with 6' cord	Qty 1 1 1 2 2 1
6	7 7 2 2	



Cascade Coil Drapery, Inc. will replace any product or parts of products which are defective due to faulty materials or poor workmanship. The replacement of defective products by Cascade Coil Drapery, Inc. will be replaced without charge. The warranty extends only to the original consumer purchaser for one year from the date of original purchase. A special 5-year limited warranty covers the Airculator main heat chamber only. This warranty does not apply to (1) products damaged by accident, neglect, misuse, or abuse, or (2) costs of removal or reinstallation of defective products. Cascade Coil Drapery, Inc. shall not be liable for incidental or consequential damages including, but not limited to, loss of profits or revenue, loss of use of the product or any associated product, cost of capital, cost of substituted products, services, downtime costs, or claims of customers of the purchaser for such damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Any implied warranty of merchantability or fitness is limited to the one year duration of this written warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Defective products, or parts of products, should be returned at your expense to the dealer from whom the product was purchased or to: Cascade Coil Drapery, Inc. (the warrantor) at 19505 SW 90th Ct. P.O. Box 3707 Tualatin, Oregon 97062. Any products submitted must be accompanied by a Returned Merchandise Form which the warrantor will provide upon request.

E-mail: firescreensales@cascadecoil.com or call Customer Service at 800-999-2645.













PO Box 3707 19505 SW 90th CT. Tualatin, OR 97062 ORDER FAX: PHONE:

VE: (971) 224-2188 (800) 999-COIL (2645)

E-MAIL: firescreensales@cascadecoil.com Web Site: www.cascadefirescreens.com

(971) 224-2199