

OPERATIONS & MAINTENANCE

BURNER INSTALLATION | OPERATION

This fireplace is pre-assembled with the burner installed and factory set.

Follow the instructions below for completing the Gas & Electrical Connections, test firing the Burner and adding Media.

Gas & Electrical Connections:



WARNING :

A qualified installer or service person must connect the appliance to gas supply. Follow all local codes.



WARNING :

Electrical connections should only be performed by a qualified, licensed electrician. Main power must be off when connecting to main electrical power supply or performing service. All wiring shall be in compliance with all local, city, and state codes. The appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code ANSI/ NFPA 70 (latest edition) and Canadian Electrical Code, CSA C22.1.

Gas piping system must be sized to provide minimum inlet pressure (*listed on rating plate*) at the maximum flow rate (*BTU/hr*). Undue pressure loss will occur if the pipe is too small. When using copper or flex connectors use only fittings approved for gas connections.

1. Make sure the fireplace gas supply is turned off.
2. The Gas & Electrical connections are located in the fireplace and can be accessed through the access door on the fireplace.
3. Open the fireplace access door and connect the main Gas & Electrical line to the burner.
4. The fireplace has been manufactured with a hard-piped Gas connection or Flexible Gas line.

Leak Test:

Turn on the fireplace gas supply, and test at all connections for leaks using the appropriate soapy water or approved leak testing spray or electronic sniffer. If bubbles appear, a leak is present. Turn off the gas and tighten all connections. Repeat until no leaks are present.

Check for gas leaks at the burner, field made joints/gas shut off valve, and pilot too. If a leak persists, turn off the gas supply and contact the local gas company or dealer.



WARNING :

NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS. IF USING A SOAP AND WATER SOLUTION TO TEST FOR LEAKS, DO NOT SPRAY SOLUTION ONTO THE ELECTRONIC PARTS.

Make sure the flame is even along the burner and appliance is fully operational and safe for use. Turn OFF the appliance and gas supply and let it cool before adding media.

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Adding Burner Media:

- 1) Completely fill the pan burner with all supplied crushed glass.
- 2) When filled correctly, a layer of glass should cover the center plate.
- 3) Place the lava granules on the hearth around the burner. Do not place them inside the pan burner.
- 4) Tear the ember material into small pieces and distribute it over the crushed glass to create a burning ember effect.

Optional Decorative Media

(A) Log Placement (If Applicable):

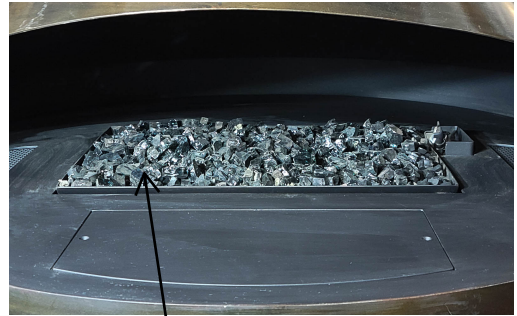
- 1) Place the first log lengthwise in the center of the pan burner, positioned over the center plate area.
- 2) Place the next log with one end resting on the center log and the other end on the hearth.
- 3) Repeat Step 2 for the remaining logs.
- 4) Arrange logs to allow flames to flow around them, minimizing direct flame contact to prevent impingement. Do not position logs directly on top of flame.
- 5) Ignite the burner as needed during placement to verify proper flame pattern and adjust log positioning accordingly.

(B) Stone Placement (If Applicable)

- 1) Place stones in the center area (where the center plate is located) and on the hearth as desired.
- 2) Do not place stones directly over areas where flames are present.

(C) Glass Placement (if applicable):

- 1) Additional decorative glass may be placed on top of the burner glass and spread over the hearth as desired.



CRUSHED GLASS
ON PAN BURNER



WARNING :

Do not operate the fireplace without the burner being filled completely with media. Lighting the burner without the glass media will cause unsafe temperatures within the fireplace.

LIGHTING INSTRUCTIONS

Safety Information

This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

BEFORE OPERATING smell all around the fireplace area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- Follow the gas suppliers' instructions.
- If you cannot reach your gas supplier, call the fire department.

Main gas valve in this fireplace is not serviceable and does not have any control knobs or switches to operate. Do not remove heat shields covering the valve and electronic devices; do not try to repair or modify the valve as it may result in a fire or explosion. Call a qualified service technician if you have any safety concerns.

Do not use this appliance if any part of it has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

For all valves, the air **MUST** be purged from the gas line before the pilot will light and burn properly. The time needed to purge will depend on the length of the gas line to the unit and the amount of time since the unit or gas line was last used. It may take several minutes before all the air is purged and the pilot will light and burn properly.

Operating Instructions

1. **STOP!** Read the safety information above.
2. Turn off any electrical components used with the burner system.
3. Verify that the wall switch is **OFF**.
4. Wait five (5) minutes to clear out any gas. If you smell gas, **STOP!** Follow the safety information above. If you don't smell gas, go to the next step.

5. Depress the wall switch to **ON**. This will activate the **ENERVEX Intelli Draft System** and transmits a rapid series of sparks at the pilot head located on the side of the burner. These sparks cease when the pilot flame is lit and stable. After a short time, the pilot will light the main burner.



CAUTION: IF THE GAS SET DOES NOT IGNITE WITHIN 20 SECONDS, STOP. TURN THE WALL SWITCH OFF, WAIT FOR FIVE (5) MINUTES TO CLEAR OUT ANY GAS, THEN REPEAT STEPS 3-5 ABOVE.

The pilot should remain lit. If it goes out, repeat steps 3 through 5 above. If the pilot will not stay lit after several tries, follow the instructions "To Turn Off Gas To Appliance" below and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance.
2. If required, open the access door to access manual shutoff valve on gas line.
3. Turn the gas control manual valve to the full **OFF** position.
4. The burner will extinguish, and the pilot will go out.

INITIAL BURN-IN PROCESS

To fully cure the paint and ensure a long-lasting finish, the following burn-in procedure should be followed.

1. Turn on the fireplace and let it burn for 10 minutes then allow the fireplace to fully cool.
2. Turn on the fireplace and let it burn for 30 minutes then allow the fireplace to fully cool.
3. Turn on the fireplace and let it burn for 60 minutes then allow the fireplace to fully cool.

Note: During the final 60-minute burn, some smoke may be visible from the surface of the fireplace. There may also be an unpleasant odor. To mitigate this effect, ventilate the room with open windows and doors to provide airflow.

Health warning: The smoke from the paint curing process displaces oxygen. Small children, elderly folks, and persons with existing breathing problems should vacate the area around the unit during the paint curing process to avoid the discomfort of lost oxygen. The smoke is primarily Carbon Dioxide, and therefore non-toxic but it may lead to some discomfort.

CHIMNEY | VENTING INSTALLATION & OPERATION

A major cause of vent related fires is failure to maintain required clearances (air spaces) to combustible materials. It is of the utmost importance that Type B gas vent be installed only in accordance with these instructions.

Note: Read through all of these instructions before beginning your installation. Failure to install as described in this instruction will void the manufacturer's warranty, and may have an effect on your home-owner's insurance and UL listing status. Keep these instructions for future reference.

The placement of the vent and fittings must be in accordance with Local Codes, as well as accepted venting practices.

The Local Authority having jurisdiction should be consulted at this time. In most localities, building permits are required for any new appliances, or modifications to existing venting systems.

Clearance to Combustibles: A 1-inch clearance (air space) to combustible materials must be maintained, when using Round B-Vent, regardless of the pipe diameter.

Examine the area where the vent system will terminate. The height of the termination above the roof is determined by the roof pitch, and also it's proximity to adjacent walls or obstructions. Vent pipe with 3"-12" diameter must terminate at least 2 feet higher than an adjacent wall or obstruction, if it is within 8 feet. Vent pipe with 14" or larger diameter must terminate at least 2 feet higher than an adjacent wall or obstruction, if it is within 10 feet.

Your anchor has been equipped with a stop-disc, through which the chimney vent connector protrudes. When looking down into the body of the anchor from the opening at the top, you will see this plate. This plate acts as both a heat-stop and as a rest for the bottom of the chimney system.

Steps For Typical Installation

1. Building Code requires the fireplace to be located as close to the vent as possible. After consulting the local codes, fireplace installation instructions and any other applicable reference material determine the optimum location for the fireplace.
2. Locate and mark the center of the penetration point through the ceiling or the wall.
3. For a through-the-wall system, install the Wall Thimble, as shown in Figure 2. The Wall Thimble is designed to accommodate walls up to 6 inches thick. If you have thicker walls, a sleeve extension has been fabricated and attached to the existing sleeve. Do not fill the air space between the B-vent Pipe Section and the Wall Thimble with insulation, although an RTV-type sealant may be applied around the flange and nail heads if desired.

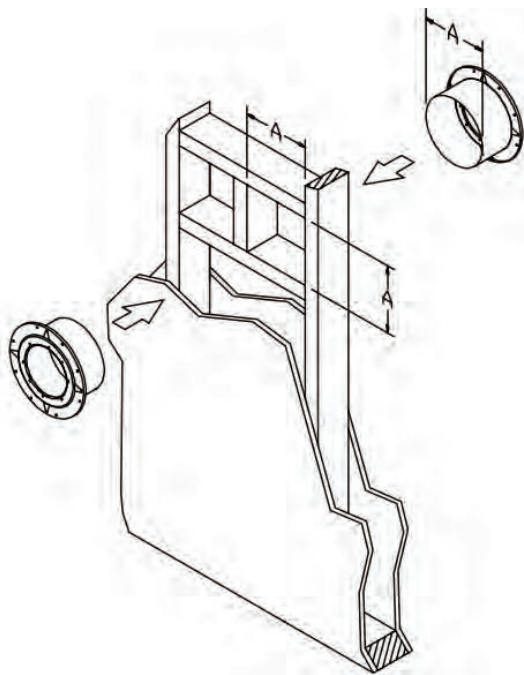


Figure 2

4. Sections of B-vent round pipe are joined together by lining up the female end of the locking lug with the male end slot, pushing them together, and turning clockwise to twist lock. Refer to Figure 9.
5. Sheet metal screws are not needed for 3" through 8" diameter pipe. However, if desired, use 1/4-inch long sheet metal screws for 3" through 8" diameter pipe. Never penetrate the inner liner with screws.

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For 10" through 16" diameter pipe, use a minimum of (4) 3/8" sheet metal screws per joint, and a minimum of (6) 3/8" sheet metal screws are required per joint for 18" and larger diameters. Each Pipe Section is labeled, and an arrow shows the direction of the exhaust flow.

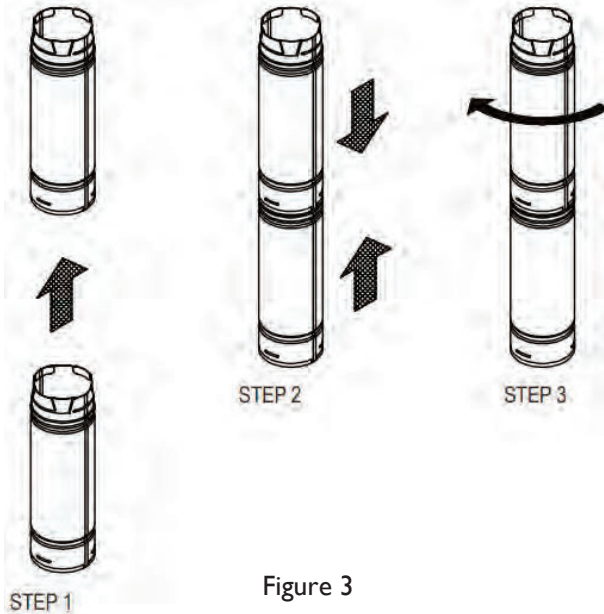


Figure 3

6. Only supplied connectors should be used between the fireplace and the venting system. Some fireplaces require Type B-Vent as a complete dedicated system from the flue collar of the fireplace to the termination of the vent to the outside atmosphere. If a B-vent connector is required, UL listed double wall Draft Hood Connector can be used.
7. When Elbows are required, strap the Pipe Sections and/or Elbows in place using Wall Straps. **Important: the offset must be supported with Wall Straps to prevent the weight from stressing the elbows.**
8. Wall Straps should be used to support the vertical pipe as needed to provide a secure installation. Wall Straps every four feet are required.
9. Any portion of the vent which passes through an occupied area must be enclosed, to prevent accidental damage to the system, as well as burns. Figure 1 shows a system which passes through an occupied second floor. Consult the Local Authority prior to construction. Note that the enclosure requires an access door for inspection and maintenance purposes.

10. Where the Pipe Sections pass through the roof, a hole must be cut to provide a minimum clearance (*air space*) of 1 inch between the Pipe and construction materials. A Roof Flashing is placed down over the pipe, and adjusted so it fits tightly against the roof, with the Pipe Section held in a position maintaining the 1 inch minimum clearance from combustibles. The Flashing is then nailed to the roof. The roofing material (*shingles, asphalt paper, etc.*) should overlap the top edge (*uphill side*) of the Flashing.
11. A non-hardening sealant should be used around the edges of the flashing base where it meets the roof. Non-hardening sealant is placed around the joint between the Flashing and the vertical Pipe Section. The Storm Collar is then placed over this joint, to make a watertight seal. (Figure 4)

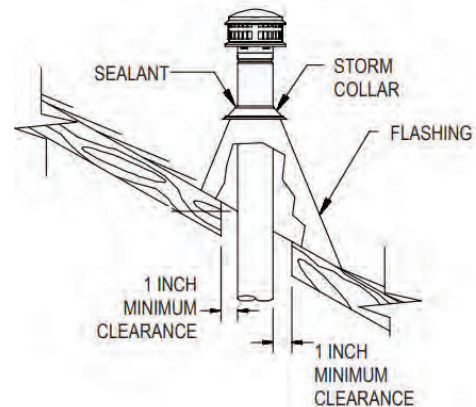


Figure 4

12. Conduct a final inspection to ensure that all joints are secure, the system is properly supported, and is mechanically sound. Especially verify that the one-inch clearance to combustibles requirement has been met, and that adequate combustion air will be furnished to the fireplace.

CHIMNEY | VENTING INSTALLATION & OPERATION

Adjustable Elbows

1. This section furnishes supplemental information concerning Adjustable Elbows, both 90° and 45°/60°.
2. In addition to twist locking the elbows, the connection may be further secured by using sheet metal screws at the joint where the male and female parts overlap, provided that the screws **DO NOT** penetrate the inner liner. One screw per joint is normally sufficient. Use #8 Pan Head sheet metal screws which are no longer than 1/4 inch.
3. Wall Straps must be used to support each elbow. Do not allow the elbows to support the weight of the vent pipe.
4. The installer should apply pressure to the section at the points indicated by the arrows. This will prevent the adjacent sections of the elbow from turning, as the next pipe or fitting is twist-locked on. This is important, because once these sections start rotating, the elbow does no longer have a 90° angle. The Elbow is completely adjustable from 0° to 90°. Note: The centers of the upper sections tend to displace by a slight amount, as they are rotated. Again, screws (*not longer than 1/4"*) may be used to secure the joint. Wall Straps should also be utilized to enhance the stability of the vent system.

ENERVEX INTELLI DRAFT SYSTEM (OVERVIEW):

The Intelli Draft connects a draft and safety controller, the ADC100 and its pressure sensor, to an RS chimney fan, the MFD chimney damper and the fireplace's gas valve. When the user wants to turn on the fireplace (typically using a wall switch) the controller signals the mechanical chimney damper to open.

When the damper is open, the controller automatically ramps up the chimney fan speed until the draft set-point has been reached and the integrated draft protection switch closes.

At this point, the controller allows the fireplace to fire by opening the gas valve. During operation of the fireplace the control continues to monitor the draft and will maintain the proper draft set-point by modulating the chimney fan speed whenever needed.

When the user turns the fireplace or appliance off, the control leaves the damper open until all residual combustion products have been exhausted out of the building by the chimney fan; then the control discontinues chimney fan operation and closes the damper.

If for any reason the draft set-point can't be maintained during operation, the controller will completely shut down the fireplace or appliance operation.

Intelli Draft creates the safest operation for any gas-fired fireplace or decorative appliance and exceeds even the building codes' strictest safety requirements.

- Protects against downdrafts.
- Eliminates spillage and CO release due to building depressurization.
- Automatically shuts down fireplace operation, if conditions are unsafe.

Your chimney system has been supplied with an Enervex Power Vent System which must be installed in accordance with the manufacturer's instructions. Refer to ENERVEX component's installation Manual for more information and instructions on installation & maintenance.

CLEANING AND MAINTENANCE



WARNING:

Turn off gas before servicing fireplace. It is recommended that a qualified service technician perform these check-ups at the beginning of each heating season.

Once installed and operating properly, your fireplace will require regular maintenance. Burning the supplied media for any length of time will cause the fireplace to soot. Soot is caused because of incomplete combustion of the gas leaving behind a dark dense material. Soot will also accumulate, if the media is not placed in the properly. To clean off soot use an old tooth brush and gently rub away the soot where applicable.

The realistic flame produces carbon monoxide and soot. Under standard conditions these byproducts are exhausted up the chimney. IF the fumes or soot from the burning gas are evident in the room when the damper is fully open it indicates that the fireplace draft is defective. IF this happens **DO NOT** operate your fireplace until the fireplace draft is corrected, call a service technician to fix the problem.

Burner, Pilot And Control Compartment

Keep the control compartment clean by vacuuming or brushing at least twice a year or depending on your usage. Make sure the burner porting, pilot air opening and burner air openings are free of obstructions at all times. Inspect area around the burner. Remove any lint or foreign material with a brush or vacuum. Clean and readjust the burner air shutter. Clean and test the igniter and pilot (if equipped).

Pilot Flame

The flames from the pilot should be visually checked as soon as the unit is installed and periodically during normal operation. The pilot flame must always be present when the fireplace is in operation or connected to the gas line with main shutoff valve open and the IPS activated (powered). The pilot flame has two distinct flames, one engulfing the flame sensor and the other reaching to the main burner.

Flame Description

Observe the flames. the flames should be blue at the base and a combination of blue/yellow at the body and tips. Inspect the flames periodically. If the flames appear different, contact a professional service technician or your gas supplier to correct the problem.

More frequent cleaning and maintenance may be necessary when burning propane gas than with natural gas. It is recommended to perform service and maintenance at the beginning of each fireplace season and as needed throughout the year, depending on your usage pattern and the environmental conditions in you home.

Before lighting your first fire it is necessary to clean off (*with a damp sponge and/or a dry cloth*) any dirt collected during transport or installation.

Actual scratches in the paint can be retouched solely with the touch-up paint provided. If this is necessary, ventilate the area thoroughly before lighting your fire to disperse any fumes generated in the spraying process.

The outer surfaces can be wiped with a soft, dry cloth (*making sure the metal is cool*). For continued use of the touch-up paint can (*following its initial usage*), invert the can (*spray nozzle down*) and spray into a balled-up newspaper until the can sprays clear. Clean the spray can bottom with a dry rag and store out of the reach of children.

Chimney Venting System

Have the venting system of the fireplace inspected and cleaned annually by a qualified agency.

An annual inspection is required to maintain warranty of your B-Vent system. You will need to inspect the Vent Pipe, Connector Pipe, and the connection to the fireplace.

Verify that the sealant around the Flashing and Storm Collar is intact. Reseal as needed.

CLEANING AND MAINTENANCE (CONTINUED)

Inspect vent for any physical damage or damage from corrosion. Look for any foreign material inside the vent. (*Example: bird's nest, leaves, etc.*)

Shine a light down inside of the vent pipe. Look for any evidence of damage, corrosion or excessive condensation. Also, look for any disconnected sections of the vent pipe or connector pipe. Refer to the installation instructions to reconnect pipe sections. If pipe sections are damaged or corroded, replace immediately!

Inspect fireplace connector and make sure that the vent is securely connected to the fireplace.

Damaged or corroded parts should be replaced immediately! Failure to do so can lead to an extremely hazardous situation!

Follow your manufacturer's recommended instructions for inspection your fireplace.

REPLACEMENT PARTS

CAUTION : DO NOT USE SUBSTITUE MATERIAL!

For ordering replacement parts, please contact CF + D | custom fireplace design.

CLOSING

If there are any questions regarding any aspect of the work to be undertaken, please contact your Technical Representative at CF+D for assistance. We thank you for your support and your business!