

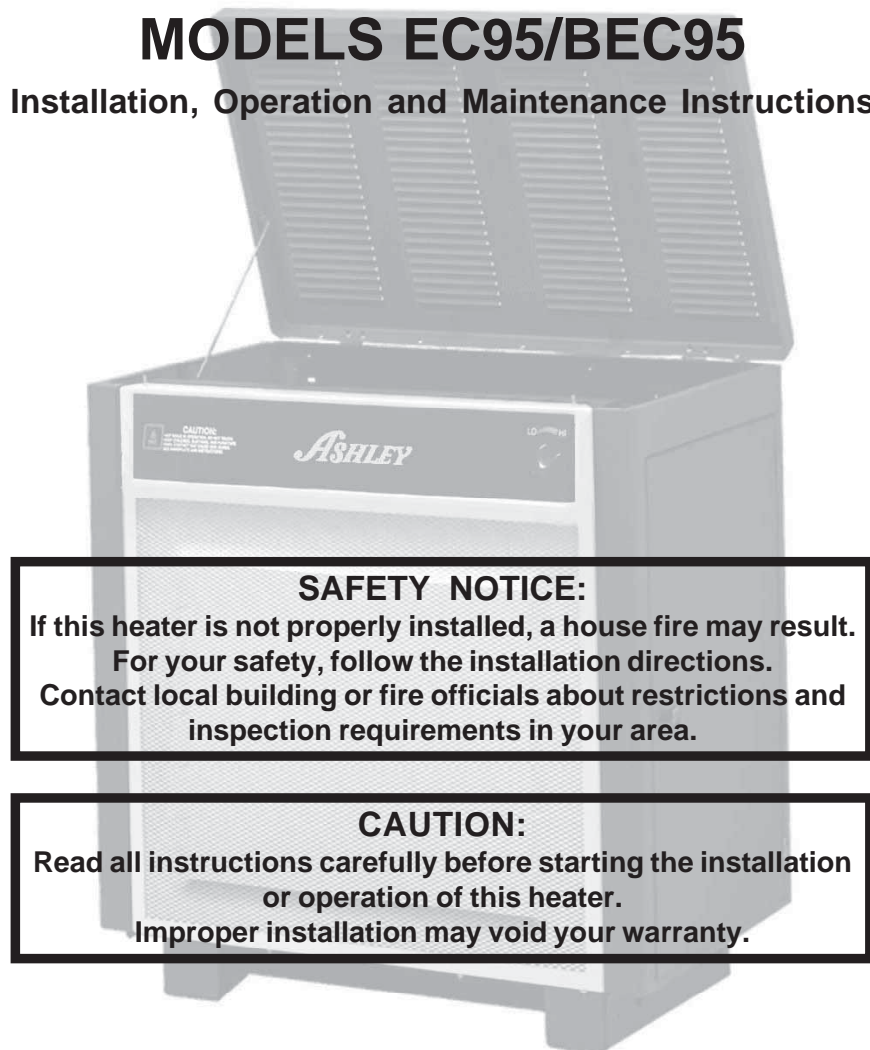


website: www.usstove.com

WOOD BURNING CIRCULATOR HEATER

MODELS EC95/BEC95

Installation, Operation and Maintenance Instructions



SAFETY NOTICE:

If this heater is not properly installed, a house fire may result.
For your safety, follow the installation directions.
Contact local building or fire officials about restrictions and
inspection requirements in your area.

CAUTION:

Read all instructions carefully before starting the installation
or operation of this heater.
Improper installation may void your warranty.

DO NOT USE THIS HEATER IN A MOBILE HOME OR TRAILER

Tested to UL 1482

Listed By:



United States Stove Company • 227 Industrial Park Road • P.O. Box 151 • South Pittsburg, TN 37380

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IMPORTANT SAFETY INFORMATION

To assure that satisfactory and safe service is received from this heater:

1. Read these instructions entirely before beginning any part of the installation.
2. Use these instructions as a guide during the installation of the heater.
3. Be sure these instructions become the property of and are reviewed by all future users of this heater to encourage proper operation and maintenance of this appliance.

This heater is designed to burn wood and to provide heat to one or more rooms. Because of its radiating characteristics, this heater must be installed as an unenclosed, freestanding unit with clearances to combustibles as specified by these instructions. This heater must be connected to a Listed Factory-Built Residential Type and Building Heating Appliance Chimney or a properly constructed and maintained masonry chimney.

DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.

This heater is not designed to burn coal, liquid fuels, and gaseous fuels or household refuse. Any attempt to burn these type fuels, to enclose the heater or to attach the heater to an air circulation system or a stoking device can be very hazardous.

THIS HEATER IS NOT DESIGNED TO BE USED IN A MOBILE HOME.

NOTICE: This heater does not create draft. That is a function of the chimney flue.

BUILDING CODES AND SAFETY STANDARDS

These instructions comply with the applicable National Fire Protection Association and Underwriters' Laboratories, Inc. Standards for the installation and operation of this type heater. Before beginning the installation, you should check with local building officials to assure compliance with local regulations and codes.

This heater is safety listed by Omni Test Laboratories as specified by the listing label attached to the heater.

HOW THIS HEATER OPERATES

The chimney draft draws in combustion air through an adjustable air inlet thermostat located inside the cabinet. Air flows through and across the bed of fuel, causing the fire to progress through the fuel bed. Heat is transferred to the air that flows between the cabinet and the firebox. Any attempt to alter this air by connecting this heater to a duct system or air movement fans other than the optional B36 listed blower, available from your heater dealer, can lead to improper and possibly hazardous operation of this heater.

SELECTING A LOCATION FOR THE HEATER

When selecting a location for the heater, be sure attention is given to the following considerations:

1. If the heater is to be vented into a Listed High Temperature Type HT Factory-Built Residential Type And Building Heating Appliance Chimney, review the installation instructions for the chimney to comply with requirements for proper chimney location, height, space requirements, etc.
2. If the heater is to be vented into a masonry chimney, the heater should be located as near the chimney as possible without failing to comply with the requirements for minimum spacing between the chimney connector, heater and combustibles. (Be sure chimney is constructed according to NFPA standards.)
3. The location of the heater must provide at least the minimum clearances between the heater, chimney connector and combustible materials as specified by figures 1, 2, 3, 4.
4. If the heater is to be located on a combustible floor, there must be suitable floor space to install a floor protector beneath and extending beyond the heater as shown by figure 5 and as described by the Floor Protection section of this manual.
5. The heater should be located centrally within the area where heat is desired but out of traffic areas to minimize the likelihood of persons accidentally contacting the hot surface of the heater.
6. The heater should be located away from doorways and central heat outlets and inlets to reduce the chance of drafts blowing smoke, ashes or sparks out of the heater during refueling or ash removal.
7. The heater should be located where a small supply of fuel may be kept conveniently close but not within 36 inches of the heater.
8. Locate the heater so that drapes, curtains, furniture and other combustible materials will not be closer than the clearances shown by figures 1, 2, 3, and 4 OR install a clearance reduction system. See MINIMUM CLEARANCES TO COMBUSTIBLE WALLS AND CEILINGS section of this manual for details.

FIGURE 1 - MINIMUM CLEARANCES TO COMBUSTIBLES

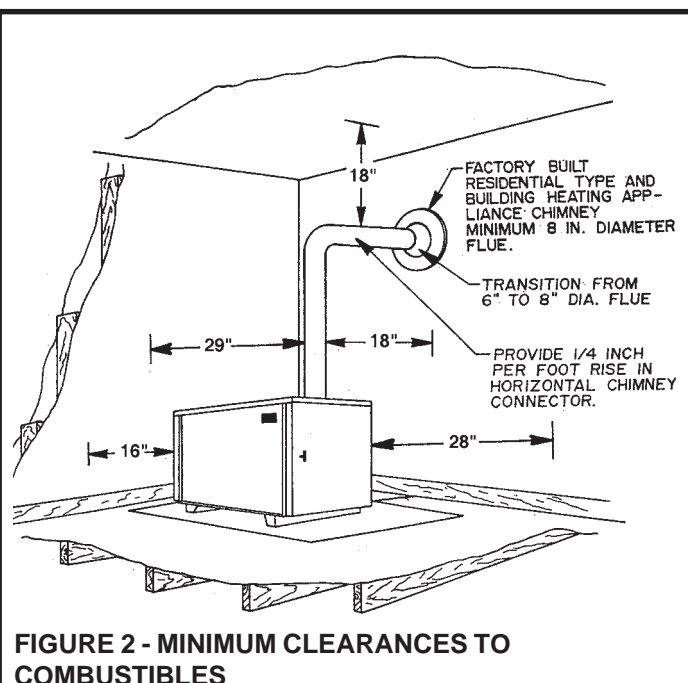
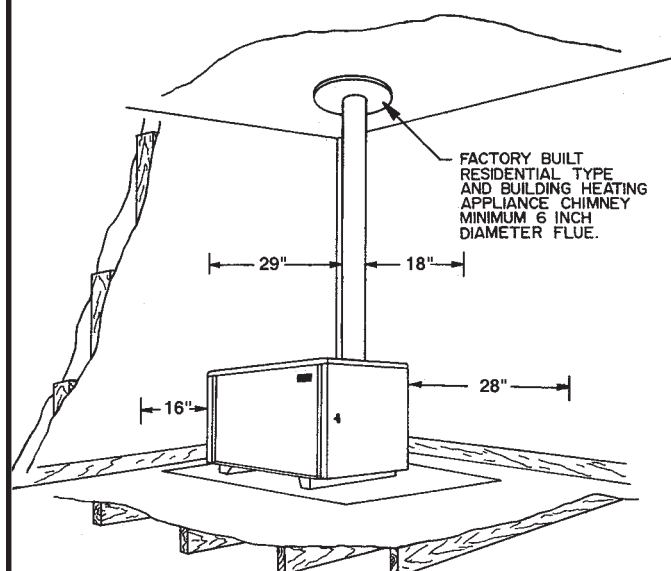


FIGURE 3 - MINIMUM CLEARANCES TO COMBUSTIBLES

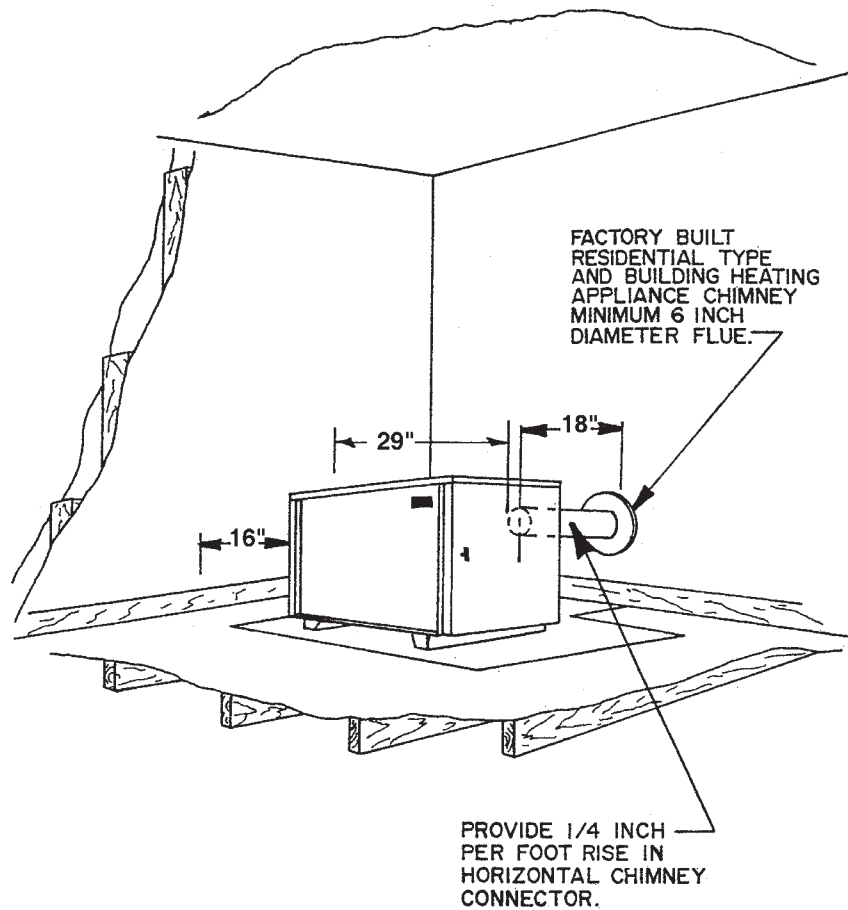
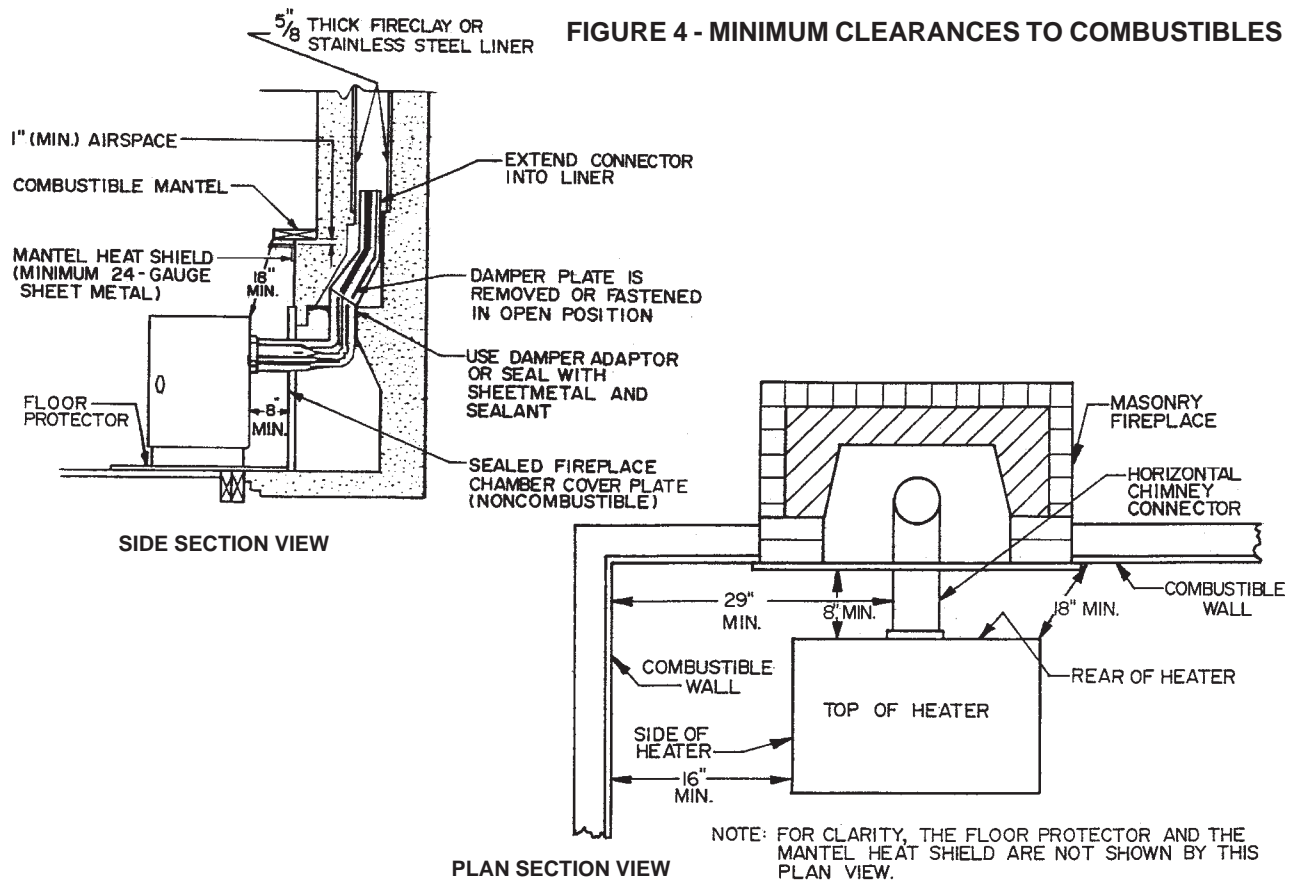
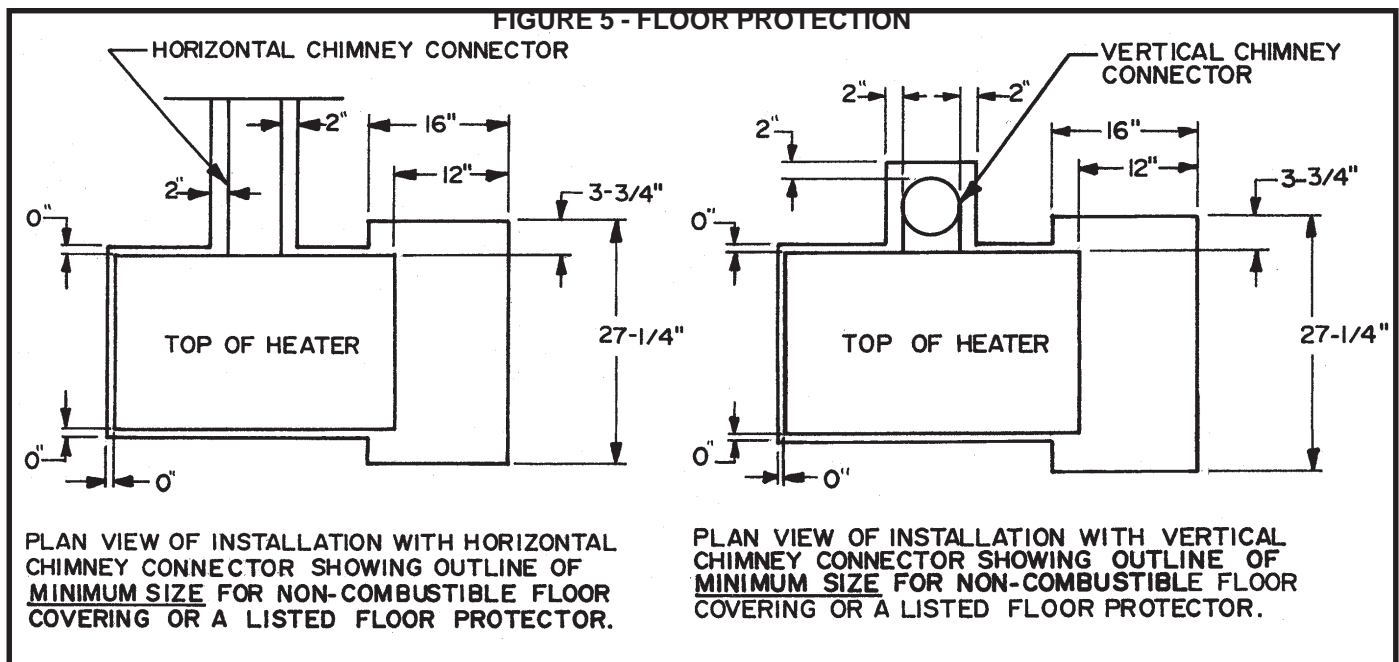


FIGURE 4 - MINIMUM CLEARANCES TO COMBUSTIBLES





FLOOR PROTECTION

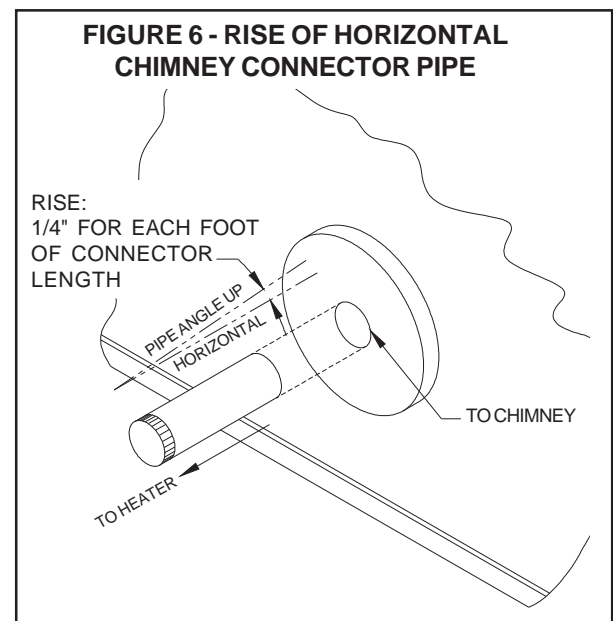
This heater has been designed to prevent excessive temperatures on the floor beneath the heater. It is important, however, that a combustible floor be protected by a 3/8 inch minimum thick noncombustible inorganic millboard having a thermal conductivity of $k=0.43 \text{ BTU/ft.}^2/\text{in.}/\text{hr.}/^\circ\text{F}$ or a listed floor protector beneath the heater extending beyond the heater as shown by figure 5. The floor covering is required to prevent damage or possible ignition from sparks or glowing embers that might escape the heater during refueling or ash removal or drop from the joints of the chimney connector.

CHIMNEY CONNECTOR AND CHIMNEYS

It is very important to assure safe and satisfactory performance from your heater that it be properly connected to a correctly constructed and maintained chimney. If a Listed High Temperature Type HT Factory-Built Residential and Building Heating Appliance Chimney is used, follow the chimney manufacturer's installation instructions carefully. If a masonry chimney is to be used, be sure it is constructed to the National Fire Protection Association (N.F.P.A) and local code standards. A copy of the N.F.P.A 211 Chimney, Fireplaces, Vents and solid Fuel Burning Appliances may be obtained from N.F.P.A., Inc. Batterymarch Park, Quincy, MA 02269.

The Chimney connector (pipe from heater to chimney) must be 6 inches in diameter and made from 24 gauge or heavier steel. The length of the chimney connector and number of elbows* used should be kept to a minimum. Moisture that might collect in the chimney should be directed to the heater by providing a slope of 1/4 inch per foot in a horizontal run of the chimney connector and installing all pipes with the crimped end toward the heater, (See figure 6). The chimney connector should extend at least two inches into the flue of a factory-built chimney. When making a horizontal connection to a masonry chimney, the connector should extend to the inside face of the vertical flue liner, (see figures 7 and 8). When connecting the heater to a masonry fireplace, the chimney connector should extend into the chimney's liner as shown by the side section view of figure 4. All chimney connector joints should be sealed with furnace cement and secured with No. 8 sheet metal screws as described by the TO SAFELY AND PROPERLY INSTALL THIS HEATER section of this manual. *Use Corrugated Elbows.

DO NOT USE MORE THAN TWO 90 DEGREE ELBOWS IN THE Chimney CONNECTOR. Installations which require two degree elbows must be vented into a flue of at least 8" diameter or 8" square to prevent chimney draft restrictions, (see figure 2). DO NOT PASS A CHIMNEY CONNECTOR THROUGH A FLOOR OR CEILING OF ANY KIND. Only Listed Factory-Built Residential Type and Building Heating Appliance Chimneys or masonry chimneys constructed to N.F.P.A. standards should pass through a floor or ceiling.



There are five allowable ways that a chimney connector can be connected to a masonry chimney by passing through a combustible wall. NFPA Standard 211 allows the following wall pass-through systems.

1. Use a minimum 3-1/2" thick brick masonry wall framed into the combustible wall. A fireclay liner (ASTM C315 or equivalent) having a 5/8" minimum wall thickness must be used and it must be at least 12" away from any material that could catch fire. The inside diameter of the fireclay liner shall be sized for the proper snug fit of a 6" diameter chimney connector pipe. The fireclay liner shall run from the outer surface of the brick wall to, but not beyond, the inner surface of the chimney flue and shall be firmly cemented in place. See Part A of Figure 7.
2. Use a solid insulated listed factory-built chimney length having an inside diameter of 6" and having 1" or more of solid insulation. There must be at least a 9" air space between the outer wall of the chimney length and any combustible materials. The inner end of the chimney length shall be flush with the inside of the masonry chimney flue and shall be sealed to the flue and to the brick masonry penetration with nonwater-soluble refractory cement. Sheet steel supports which are at least 24 gauge (0.024") in thickness shall be securely fastened to wall surfaces on all sides. Fasteners between supports and the chimney length shall not penetrate the chimney liner. See Part B of Figure 7.
3. Use a 10" diameter ventilated thimble made of at least 24 gauge (0.024") steel having two 1" air channels. The ventilated thimble must be separated from combustible materials by a minimum of 6" glass fiber insulation. The opening in the combustible wall shall be covered and the thimble supported with sheet steel supports which are at least 24 gauge (0.024") in thickness. The sheet steel supports shall be securely fastened to wall surfaces on all sides and shall be sized to fit and hold the chimney section. Fasteners used to secure chimney sections shall not penetrate chimney flue liner. See Part C of Figure 7.
4. Use an 8" inside diameter solid insulated listed factory-built chimney length which has 1" or more of solid insulation. The minimum length of this chimney section shall be 12" and will serve as a pass-through for the 6" diameter chimney connector. There must be at least a 12" air space between the outer wall of the chimney section and any combustible materials. The chimney section shall be concentric with and spaced 1" away from the chimney connector by means of sheet steel support plates on both ends of the chimney section. The opening in the combustible wall shall be covered and the chimney section supported on both sides with sheet steel supports which are at least 24 gauge (0.024") in thickness. The sheet steel supports shall be securely fastened to wall surfaces on all sides and shall be sized to fit and hold the chimney section. Fasteners used to secure chimney sections shall not penetrate chimney flue liner. See Part C of Figure 7.
5. A listed factory-built wall pass-through system may be purchased and installed according to the instructions packaged with it to provide a safe method of passing the chimney connector through a combustible wall for connection to a masonry chimney.

Additional requirements pertaining to Figure 5 and the above wall pass-through systems:

1. Insulation material used as part of wall pass-through system shall be of noncombustible material and shall have a thermal conductivity of 1.0 Btu • in./ft.² • °F (4.88 kg • cal/hr • m² • °C) or less
2. All clearances and thicknesses are minimums: larger clearances and thickness are acceptable.
3. A chimney thimble, as shown for 3" and 4" above (Parts C and D respectively of Figure 7) shall be for types "3" and "4" connections to facilitate removal of the chimney connector for cleaning. The chimney thimble shall be of ASTM C315 fireclay with 5/8" minimum wall thickness, or material of equivalent durability. The inside diameter of the thimble shall be sized for the proper snug fit of a 6" diameter chimney connector pipe. The thimble shall be installed without damage to the chimney flue. The thimble shall extend through the chimney wall to, but not beyond, the inner surface of the chimney flue and shall be permanently cemented in place with high temperature cement.
4. A chimney connector to a masonry chimney, except for 2" above (Part B of Figure 7), shall extend through the wall pass-through system to the inner face of the chimney flue, but not beyond. It does not have to be fastened in place so long as it cannot accidentally be pulled out of the chimney or shoved into the chimney flue. If fasteners are used to secure the chimney connector to a masonry chimney, the fasteners shall not penetrate the chimney flue liner.
5. Any material used to close up any opening for the connector shall be noncombustible.

If the chimney connector does not have to pass through a combustible wall to get to a masonry chimney, connect the chimney connector to the masonry chimney as shown in figure 8. The fireclay liner shown by figure 8 should be sized for the proper snug fit of a 6" diameter chimney connector pipe. The fireclay liner should be firmly cemented in place as shown. As previously stated, any metal prefabricated chimney this heater is connected to must be a listed Hi-Temp Type HT Factory Built Residential Type and Building Heating Appliance Chimney.

When a metal prefabricated chimney is used, the manufacturer's installation instructions must be followed precisely. You must also purchase (from the same manufacturer) and install the ceiling support package or wall pass through and "T" section package, firestops (when needed), insulation shield, roof flashing, chimney cap, etc. Maintain the proper clearance to the structure as recommended by the manufacturer. This clearance is usually a minimum of 2 inches, although it may vary by manufacturer or for certain components.

A listed chimney cap should be installed to prevent entrance of rain and help eliminate down drafts. An unapproved chimney cap, protector or spark arrester can become clogged when leaves or other matter. This blocks the chimney and causes smoke, and the dangerous carbon monoxide in smoke, to spill back into your home where it can kill you.

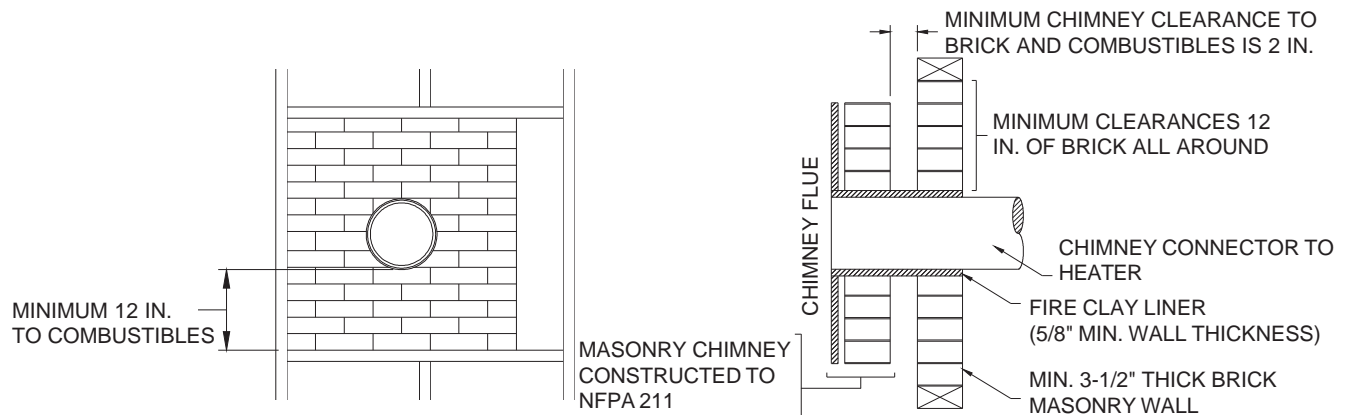
There are basically two methods of metal prefabricated chimney installation. One method is to install the chimney inside the residence through the ceiling and the roof. The other method is to install an exterior chimney that runs up the outside of the residence.

REMEMBER: Follow the chimney manufacturer's installation instructions and maintain the manufacturer's specified clearance distance.

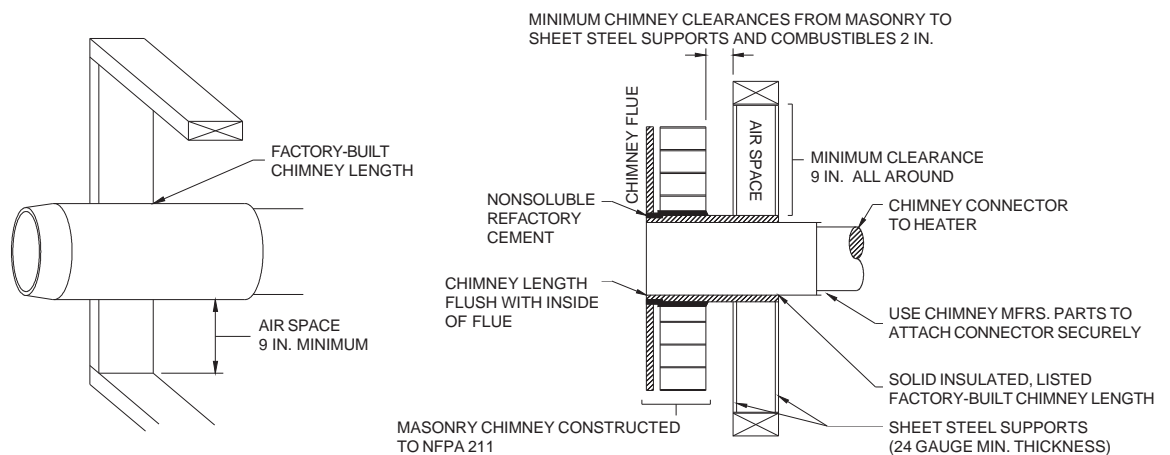
Additional chimney information is presented throughout this manual. **READ IT THOROUGHLY TO BE MORE THOROUGHLY INFORMED.**

CONNECTION OF CHIMNEY CONNECTOR TO A MASONRY CHIMNEY THROUGH A COMBUSTIBLE WALL

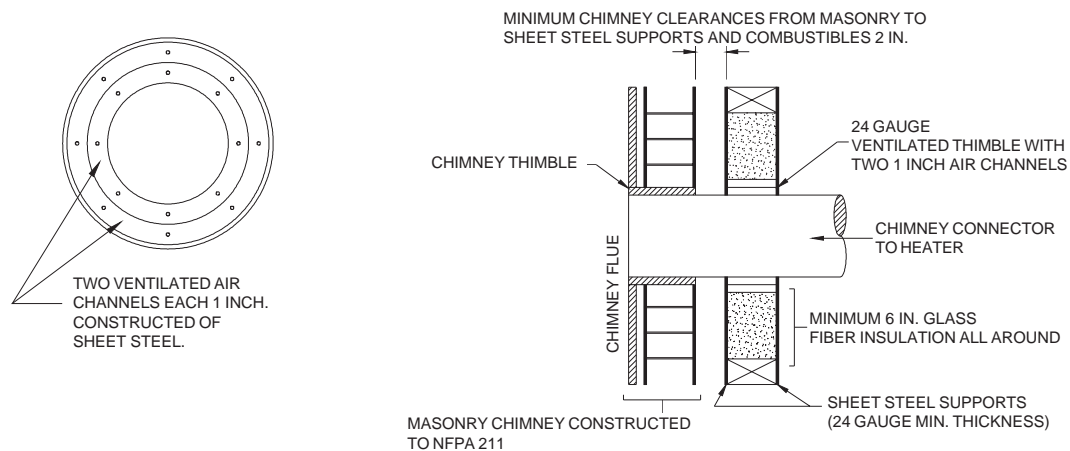
PART A, FIGURE 7
(FIGURE 7 CONTINUED ON NEXT PAGE)



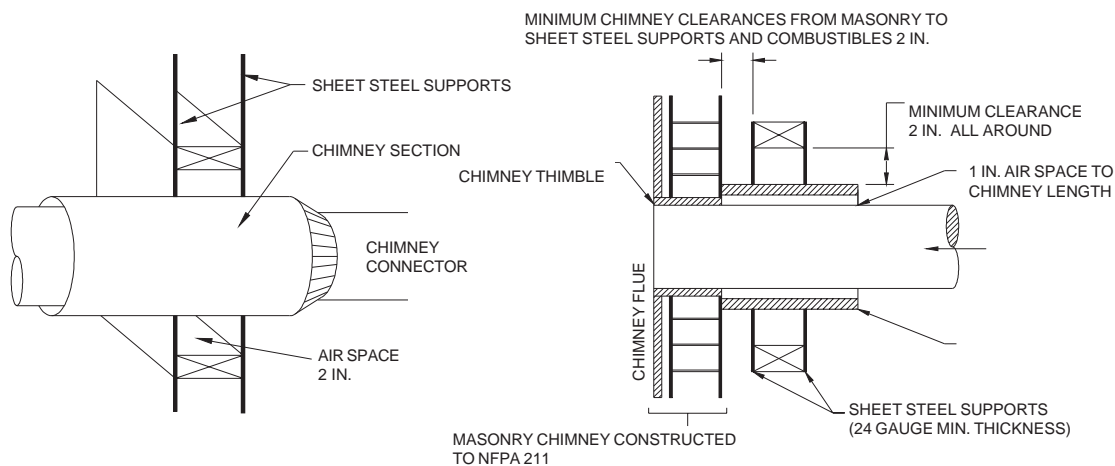
PART B
FIGURE 5 -
(FIGURE 5 CONTINUED)



PART C
FIGURE 5



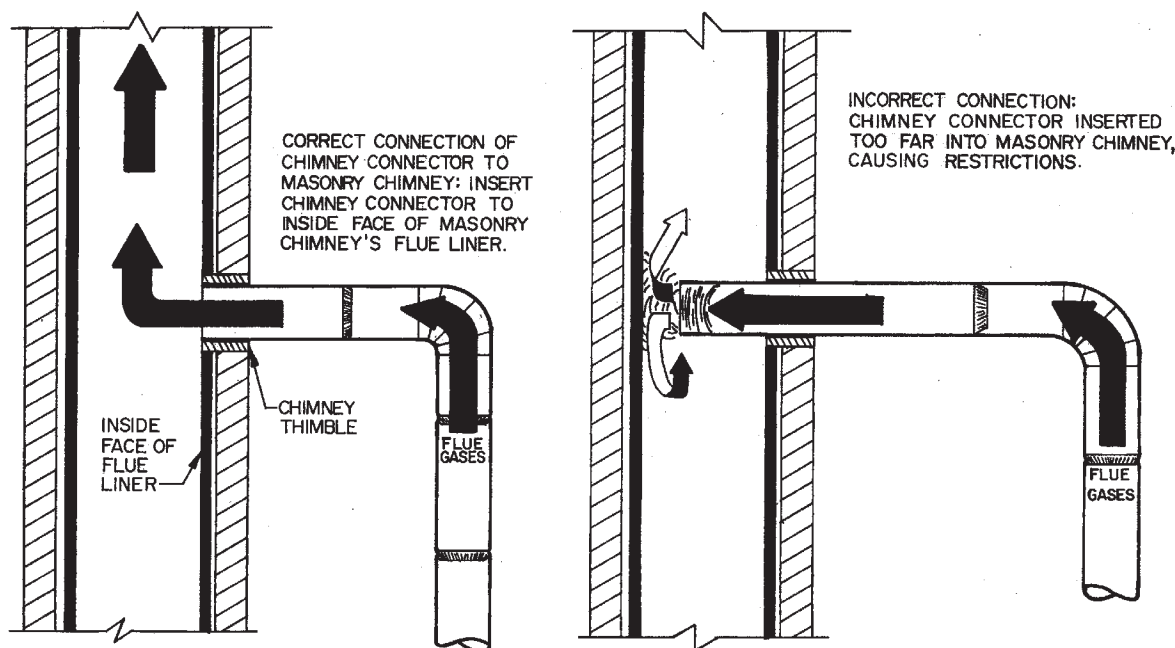
PART D
FIGURE 5



PART E - (Figure 5)

In addition to the methods shown by A, B, C, and D of Figure 5, a listed factory-built wall pass-through system may be purchased and installed according to the instructions packaged with it to provide a safe method of passing chimney connector through a combustible wall for a connection to a masonry chimney.

FIGURE 8 - CONNECTING HEATER'S CHIMNEY CONNECTOR TO MASONRY CHIMNEY WHEN CHIMNEY CONNECTOR DOES NOT HAVE TO PASS THROUGH A COMBUSTIBLE WALL



HEATER INSPECTION

Before installing the heater, inspect the heater for external damage and missing parts. Check the gaskets around the doors to assure that they are still in place. Also check inside the heater. Report any deficiencies found to your heater dealer and make sure all problems are resolved before installing the heater. See figure 12 for illustration of heater parts.

TOOLS AND SUPPLIES NEEDED FOR INSTALLATION

Electric drill 1/4 or 3/8 inch drive	Can or Tube of furnace cement
1/8 inch drill bit	Floor Protector
Screw driver (blade type and size to fit screws listed below)	Rag or several paper towels
No. 8 sheet metal screws (for chimney connector joints)	Chimney connector pipes (and elbows, if required)
Gloves and Safety Glasses	Pencil
Ruler or tape measure	

HEATER INSTALLATION

CAUTION: IF THIS HEATER IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

CAUTION: DO NOT CONNECT THIS HEATER TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE. THERE IS A SERIOUS SAFETY RISK IF TWO APPLIANCES OR HEATERS ARE CONNECTED TO THE SAME FLUE.

CAUTION: THE HEATER MUST BE PLACED ON A LISTED FLOOR PROTECTOR AS NOTED IN THIS MANUAL IF THE FLOOR IS WOOD OR OTHER COMBUSTIBLE FLOORING. IF CARPET IS PRESENT, IT MUST BE REMOVED. THE FLOOR PROTECTOR MUST NOT BE PLACED ON CARPET. (SEE FIGURE 5).

CAUTION: MOST WALLS AND CEILINGS CONTAIN WOOD EVEN THOUGH THEY ARE MADE OF SHEETROCK OR PLASTER ON THE OUTSIDE. THESE WALLS AND CEILINGS CAN CATCH FIRE FROM THE HOT HEATER OR CHIMNEY CONNECTOR IF THE HEATER AND CHIMNEY CONNECTOR ARE NOT PROPERLY INSTALLED.

MINIMUM CLEARANCE TO COMBUSTIBLE WALLS AND CEILINGS

Minimum clearances to unprotected combustible walls and ceilings as noted by Figures 1 through 4 must be maintained. Drapes, curtains, furniture and other combustible materials should be kept much further away from the heater to avoid a fire. If you chose to, you may install the heater and chimney connector closer to combustible surfaces than indicated by Figures 1 through 4 if a clearance reduction system is also installed to protect combustible ceiling and wall near the heater and chimney connector. However, there are limits as to how close the heater and chimney connector can be installed to combustible surfaces protected by a clearance reductions system.

A correctly installed clearance reduction system protects the combustible surfaces well beyond the sides and above the top of the heater and beyond the sides and top of the chimney connector pipe.

Two common types of clearance reductions systems use sheet metal with a thickness of 28 gauge (galvanized steel, aluminum, copper) or a 3-1/2 inch (4 inch thick nominal) thick masonry wall. Either of these materials must be spaced out 1 inch from the combustible surfaces. With sheet metal, noncombustible spacers are used to maintain the 1 inch air space. With a masonry wall, metal wall ties and furring strips, if needed, are used to anchor the brick to the wall. To avoid excessive heat transmission, the spacers or wall ties should not be placed directly behind the heater or chimney connector. The 1 inch air space provides free air circulation. It is essential that there be openings at the top and bottom of these clearance reducers so cool air can enter at the bottom and warm air exit at the top. It is the "chimney effect" whereby when the air in the space is heated, it rises exiting from the top and being replaced by cooler air at the bottom, that makes these shields effective.

Masonry, or other noncombustible products, attached directly to a combustible surface without an air space offer very little protection and cannot be considered a clearance reduction system unless specific materials have been tested and listed for direct attachment to a combustible surface. The same applies to thin veneer brick and stone coverings. These materials provide adequate protection only when mounted on sheet metal with a 1 inch minimum spacing to the wall.

A variety of prefabricated clearance reduction systems which have been safety tested and listed are available through heater dealers. Always look for a safety listing label on the product when selecting a clearance reduction system through a heater dealer and make sure it is designed for use with solid fuel. The manufacturers of these tested and listed systems provide specific installation instructions that must be followed exactly for a safe installation.

Should you chose to make your own clearance reduction system, contact your local fire department, fire marshal or building code inspector for specific requirements regarding home-constructed clearance reduction systems and safe installation clearances to protected combustible surfaces.

TO SAFELY AND PROPERLY INSTALL THIS HEATER:

1. Install a Listed High Temperature Type HT Factory-built Residential Type and Building Heating Appliance Chimney, build a masonry chimney or adapt an existing chimney to vent the heater. (See the CHIMNEY CONNECTOR AND CHIMNEYS section of this manual for important information).
2. Purchase the 6-inch diameter chimney connector pipes that are required. The pipe should be black or blued steel, 24 gauge minimum. If elbows are needed, use only seamless elbows because seamed elbows can leak smoke. Do not use more than two elbows or the chimney draft will be restricted (See the CHIMNEY CONNECTOR AND CHIMNEYS section of this manual for details). Number 8 sheet metal screws and furnace cement will also be needed to assemble the chimney connector pipes. If the heater is to be installed to a masonry fireplace as shown by figure 4, you should also obtain the fireplace items called for by figure 4.
3. If the heater is to be installed on a combustible floor, purchase a listed noncombustible floor protector as described in this manual and install it in the proper location. The floor protector MUST protect the floor beneath and around the heater and chimney connector as shown by figure 5.
4. Assemble the chimney connector pipe sections to determine if the chimney connector pipe will correctly extend from the heater flue collar to the chimney. Any horizontal section of chimney connector pipe must slope upward at least 1/4" rise to the horizontal foot to maintain adequate draft (See figure 6). Always install the chimney connector pipe with the crimped end toward the heater to prevent creosote from leaking out of the joints (See figure 6). Always use the least number of chimney connector pipe sections possible. Minimum clearance to combustible walls and ceilings as noted by figures 1 through 4 MUST always be maintained if a clearance reduction system is not installed.
5. After it is determined that the assembled chimney connector will properly connect the heater to the chimney, disassemble all sections of the chimney connector in preparation for the final assembly procedures.
6. Place the crimped end of the first chimney connector pipe or elbow into the heater's flue collar and mark it through each of the holes in the heater's flue collar.
7. Remove the pipe or elbow from the flue collar and drill 1/8 inch diameter holes at the points marked by step 6.
8. Apply furnace cement to the inside surface of the heater's flue collar, reinstall the first pipe or elbow and fasten in place with No. 8 sheet metal screws. Apply additional furnace cement to the outside of the chimney connector flue collar joint if an airtight seal was not achieved when the pipe or elbow was installed.
9. Assemble the remaining chimney connector pipes by applying furnace cement to the joints, drilling 1/8 inch diameter holes for and attaching each joint with three No. 8 sheet metal screws. Wipe all excess furnace cement from the pipe joints with rag or paper towel. Allow the applied cement to dry before building the first fire in the heater.
10. Depending on your particular type of installation, connect the heater's chimney connector to a masonry chimney as shown by figures 7 or 8, or connect the chimney connector to a metal prefabricated chimney as specified by the instructions furnished with the metal prefabricated chimney or connect the chimney connector to a masonry fireplace as shown by figure 4.

DANGER: IF ANY CLEARANCE TO UNPROTECTED WALL OR CEILING IS LESS THAN THOSE SPECIFIED BY FIGURES 1 THROUGH 4 AFTER HEATER INSTALLATION IS COMPLETED, A CLEARANCE REDUCTION SYSTEM MUST BE INSTALLED BEFORE THE FIRST FIRE IS BUILT IN THE HEATER; OTHERWISE, THE UNPROTECTED WALL OR CEILING COULD CATCH FIRE. REMEMBER, THERE ARE ALSO LIMITS AS TO HOW CLOSE THE HEATER CAN BE INSTALLED TO A COMBUSTIBLE SURFACE PROTECTED BY A CLEARANCE REDUCTION SYSTEM. REREAD "MINIMUM CLEARANCES TO WALLS AND COMBUSTIBLE WALLS AND CEILINGS" PRESENTED EARLIER IN THIS MANUAL.

CAUTION: FOR YOUR SAFETY, CONTACT YOUR LOCAL FIRE DEPARTMENT, FIRE MARSHAL, OR BUILDING CODE INSPECTOR FOR INSPECTION PRIOR TO AND FOLLOWING CLEARANCE REDUCTION SYSTEM AND/OR HEATER INSTALLATION.

HEATER OPERATION

IMPORTANT: DO NOT USE THE HEATER UNTIL A PROFESSIONAL INSPECTION HAS BEEN MADE OF THE ENTIRE INSTALLATION BY YOUR LOCAL FIRE DEPARTMENT, FIRE MARSHAL OR BUILDING CODE INSPECTOR. INSTALL A SMOKE DETECTOR ON EACH FLOOR OF YOUR HOME; IN CASE OF ACCIDENTAL FIRE FROM ANY CAUSE IT CAN PROVIDE TIME FOR ESCAPE.

This heater must be operated as outlined in this manual or a serious fire may occur.

THE PAINT ON THE EXTERIOR OF THE FIREBOX WILL GO THROUGH A CURING PROCESS DURING THE FIRST FIRING OF THE HEATER AND WILL EMIT SMOKE AND ODOR. BE PREPARED FOR THIS BY RAISING A WINDOW OR OPENING A DOOR TO PROVIDE VENTILATION.

The first three times the heater is fired, the fire should be regulated so as to increase in intensity gradually to allow the painted components to cure slowly and to allow the other components to adjust to their expanded size.

Be sure the room is adequately ventilated and the flue unobstructed before beginning a fire in the heater.

TO BUILD A FIRE

1. Set the heater's thermostat control knob to the "Hi" position. See figure 9.
2. Open the feed door (see figure 10) and lay paper and kindling on the grate in sufficient quantities to ensure good ignition.

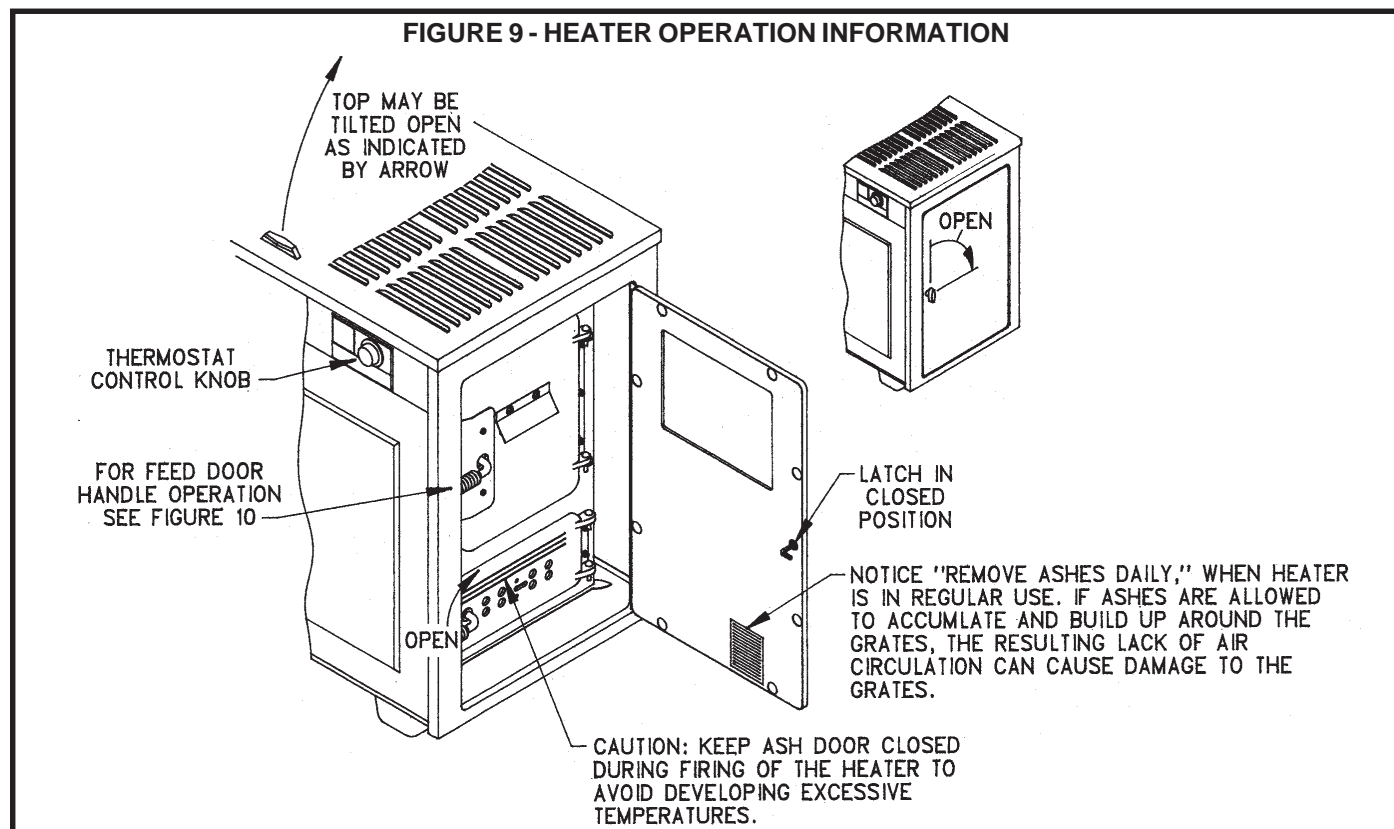
WARNING: NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IT IS IN USE. FAILURE TO COMPLY WITH THIS WARNING COULD CAUSE AN EXPLOSION.

3. Light the fire.
4. Close the feed door (see figure 10).
5. Add larger pieces of wood as the fire gains in intensity. As soon as the fire is established, wood may be added as desired.

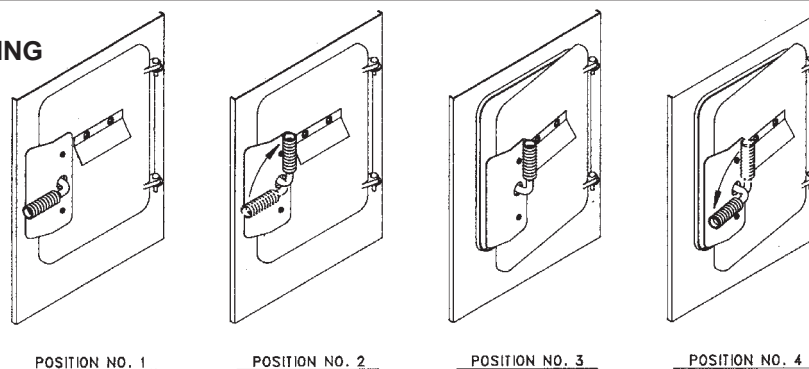
MAKE SURE THAT THE FEED DOOR AND CABINET DOOR ARE SECURELY CLOSED. CAUTION: OPERATING THE HEATER WITH THE ASH DOOR OPEN CREATES AN ABNORMAL FIRING CONDITION WHICH CAN OVER HEAT THE HEATER, CHIMNEY AND ADJACENT COMBUSTIBLE MATERIALS. THIS CAN DRASTICALLY SHORTEN THE HEATER'S LIFE AND VOID THE FACTORY WARRANTY.

6. Set the heater's thermostat control knob to a point midway between "Hi" and "Lo". If the house or heating situation requires a higher or lower setting to obtain the desired amount of heat, adjust the thermostat control knob appropriately.

FIGURE 9 - HEATER OPERATION INFORMATION



**FIGURE 10 -
OPENING AND CLOSING
FUEL FEED DOOR**



TO OPEN: WHEN CLOSED AND LATCHED, THE DOOR AND HANDLE WILL BE AS SHOWN IN POSITION NO. 1. ROTATE THE HANDLE UNTIL IT IS AS SHOWN IN POSITION NO. 2. PULL THE DOOR OPEN UNTIL IT STOPS, APPROXIMATELY 1 INCH AS SHOWN IN POSITION NO. 3. CONTINUE TO HOLD THE DOOR OPEN AS THE HANDLE IS RETURNED TO ITS ORIGINAL POSITION. THE DOOR WILL THEN OPEN COMPLETELY AS SHOWN IN POSITION NO. 4.

TO CLOSE: WITH THE HANDLE AS SHOWN IN POSITION NO. 4, CLOSE THE DOOR AS FAR AS POSSIBLE. NOW ROTATE THE HANDLE TO POSITION NO. 3 AND COMPLETELY CLOSE THE DOOR AS SHOWN IN POSITION NO. 2. ROTATE THE HANDLE AS SHOWN IN POSITION NO. 1 AND APPLY SUFFICIENT PRESSURE TO INSURE THAT THE DOOR IS SEALED.

FIRETENDING

Firetending is the occasional poking or stirring of the burning fuel bed to ensure airflow through the fire and adding new wood as needed. With experience, you should determine how often fire tending is required to maintain the desired heat output of the heater. To ensure safe and satisfactory performance of the heater, the following rules should be observed.

1. **KEEP THE FEED DOOR AND ASH DOORS CLOSED EXCEPT WHEN TENDING THE FIRE OR REMOVING ASHES.** Operating the heater with the doors open can cause the heater to overheat and will increase the possibility of smoke, ash or sparks escaping the heater and damaging the dwelling or its contents.
2. **NEVER OPEN THE FEED DOOR WITHOUT FIRST TURNING THE THERMOSTAT TO "HI" FOR AT LEAST 30 SECONDS.**
3. **ADD ONLY SMALL AMOUNTS OF FRESH WOOD TO THE HEATER AT EACH REFUELING.** Adding large amounts of fresh wood can cause an accumulation of gases above the fire that can cause backpuffing. Backpuffing can occur whenever concentrated gasses accumulate over the fire bed and then catch fire quickly. This may cause smoke and flame to be expelled from the heater during fire tending but under rare conditions, backpuffing can be severe enough to break apart poorly connected chimney connector pipes. If backpuffing is experienced, see CORRECTION OF OPERATIONAL PROBLEMS section of this manual. This is an abnormal condition and a potential hazard. Determine and correct the cause.
4. **TURN THERMOSTAT TO "HI" FOR 15 MINUTES AFTER ADDING FRESH WOOD TO A FIRE.** This allows the gases to be driven off and shortens the length of time the dense smoke is likely to deposit creosote on the chimney walls.
5. **DO NOT TAMPER WITH THE INTERNAL THERMOSTAT MECHANISM.** The thermostat has been designed and calibrated to provide continuous control of the fire for safety and efficiency. Thermostat adjustments are made with the thermostat control knob only. (See figure 9.)
6. **PREPARE THE HEATER TO HOLD FIRE ALL NIGHT BY LOADING IT WITH WELL DRIED WOOD AT LEAST AN HOUR BEFORE BEDTIME.** Burn the heater at the normal rate for this hour, then turn it back to a slower burn just before going to bed. This procedure will help drive excess moisture and gases out of wood and minimize creosote buildup during the night. This procedure also minimizes the likelihood of backpuffing.
7. **DO NOT OVERFIRE THE HEATER.** If any part of the heater or chimney connector becomes red hot turn the thermostat to low and keep the ash and feed doors closed until the heater cools.

WOOD FACTS

The small amounts of wood used in daily fire tending should be kept in a noncombustible container at least 36 inches from the heater.

Two wood characteristics largely determine the amount of heat energy per cord. The first is moisture content. Wood must be dry before it will burn properly. When first cut, its moisture content is high so wood burns poorly and encourages the formation of creosote. It should be cut and stored in a dry place several months, preferably a year before it is used. Splitting the wood before it is stored reduces its drying time and exposing both ends to the air aids in drying. After wood has been stored from six to twelve months, it will be dried to a moisture content of 15 to 25 percent. This drying results in more even burning and will minimize the buildup of creosote in your chimney.

The second factor in determining heat output is its density or weight per cord. With equal seasoning and dryness, heavier, denser wood has more heating value per cord. For example, hickory is denser wood than pine, so a cord of hickory will give more heat than a cord of pine.

For longer and safer heater life, never use manufactured composition logs, salt water soaked wood (driftwood), or chemical additives in this heater.

HOW TO TAKE CARE OF THE HEATER AND VENTING SYSTEM (ROUTINE MAINTENANCE)

HEATER MAINTENANCE

The heater's outer cabinet may be wiped free of dust with a soft cloth. The use of any other cleaning method may damage the cabinet's finish.

Check the following items regularly during the heating season to ensure proper heater operation:

1. Condition of feed door and ash door gaskets--replace if excessive wear is observed.
2. Condition of the feed door, ash door and cabinet latching pawls and handles--ensures that operation will securely close the door adjust as necessary.

At the end of each heating season, the heater should be thoroughly cleaned of all ashes. Ashes remaining in the heater in combination with moisture in the air can cause severe corrosion of the heater. All rust spots on the heater should be wire brushed and covered with a coat of high temperature paint. If the heater is to be stored until the next heating season, be sure the storage area is dry.

The heater should never be used with damaged or missing parts.

DISPOSAL OF ASHES

Ashes should not be allowed to accumulate until they obstruct the airflow through the burning wood. If ashes are allowed to accumulate to within two inches of the bottom of the grates, poor burning of the fuel is likely, and the grates will be damaged from overheating.

When removing the ash pan from the heater, wear gloves to protect your hands from glowing embers and hot surfaces.

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.

Ashes should never be placed in wooden or plastic containers, or in paper or plastic bags, no matter how long the fire has been out. Coals have been known to stay hot for several days when embedded in ashes.

VENTING SYSTEM (CHIMNEY CONNECTOR AND CHIMNEY)

The venting system consists of the heater's chimney connector (the pipe which connects the heater to the chimney) and the chimney itself.

When wood is burned slowly, it produces tar and other organic vapors which combine the expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire.

The chimney connector and chimney should be inspected twice a month during the heating season to determine if a creosote buildup has occurred.

If creosote has accumulated, it should be removed to reduce the risk of chimney fire. NOTE: When removing creosote from a chimney connector and chimney, the heater should be disconnected from the chimney connector to prevent the dislodged creosote from entering the heater.

A chimney fire is usually indicated by a roaring noise within the chimney and/or a pinging noise within the chimney connector. Well developed chimney fires will emit ash and sparks from the top of the chimney.

If a chimney fire occurs, turn the thermostat to "Lo", keep the feed, ash and cabinet doors closed, call the fire department and protect the roof by wetting it with a garden hose or buckets of water. After the chimney fire is over, thoroughly inspect all combustible materials around the chimney and chimney connector for fires that might have been ignited by the intense heat. The chimney and chimney connector should then be inspected for any damage and repairs made if necessary.

Although a properly constructed chimney should not be damaged by a chimney fire, it is best to prevent chimney fires by properly cleaning the chimney. There are special chimney cleaning services available in most cities. Most fire departments make free chimney inspections and can provide assistance in locating chimney cleaning or repair services.

CHIMNEY CONNECTOR PIPE-CORROSION INSPECTION

Chimney connector pipes do not last forever. Corrosion is particularly a problem if the inside of the pipe tends to get damp from condensation of flue gases or from rain or snow getting into the chimney. Just being on an ocean coast can also accelerate chimney connector pipe corrosion.

Chimney connector pipe replacement may be necessary more than once a season, but once every few years is more typical. Every time the chimney and chimney connector are checked for creosote buildup, the strength and integrity of the chimney connector pipes should also be checked.

Tap each chimney connector pipe with a small hammer or poke with a screwdriver to reveal where the metal is getting thin due to corrosion on the inside. Elbows usually give out first. Replace as necessary.
YOU SHOULD ALWAYS INSPECT AND CLEAN THE HEATER'S VENTING SYSTEM BEFORE EACH HEATING SEASON.

TROUBLESHOOTING

Problems can arise during the operation of any wood heater. These problems can usually be traced to such things as the venting system, draft, aged or failed parts, fuel, and operator error.

The troubleshooting suggestions contained in this section of the manual apply to the operation of all wood heaters.

Experience has shown that correct installation and good operating practices-including routine heater and venting system maintenance, along with a good sound chimney, will eliminate most of the problems mentioned by this section of the manual. Nonetheless, wood heater operators should make themselves aware of the nature, cause and solution to possible problems so as to help themselves obtain the best possible service from this heater.

THE VENTING SYSTEM-KEY TO GOOD HEATER PERFORMANCE

A majority of performance problems with wood burning heaters can be traced to some factor in the venting system that is adversely affecting the heater. Air will flow into the heater and smoke will flow up the chimney only if there is sufficient difference between the air pressure in the room where the heater is located and the air pressure inside the chimney. As hot gases and smoke flow up a chimney, the pressure in the chimney is lowered, creating a difference in pressure inside and outside the chimney. When this pressure difference, often referred to as "draft pressure" or simply as "draft", is sufficient, air will be drawn into the heater through its thermostatically controlled inlet air damper. This air supplies the oxygen necessary for the wood to burn. If the draft is not sufficient, insufficient oxygen will reach the burning wood and it will burn poorly. This condition can also cause smoke and dangerous gases to spill or backpuff from the heater into the room. Backpuffing occurs when the air flow through the heater is insufficient to burn all the gases being released by the wood causing them to build up until they ignite as a minor explosion. This causes smoke to puff out of every opening in the heater and venting system.

Too much draft may cause excessive temperature in the heater. An uncontrollable burn or a glowing red heater part or chimney connector is an indication of excessive draft. The amount of draft in the chimney depends on the length of the chimney, local geography, nearby obstructions (even a tree that has grown tall can affect the draft of a chimney that was previously trouble-free), and other factors.

The common unit used to measure draft is "INCHES IF WATER". To determine the draft of your chimney, a draft pressure reading should be taken with a DRAFT METER or a WATER MANOMETER. This requires someone with proper equipment and knowledge of how to use it. Your heater dealer should be able to preform this task for you or recommend someone who can.

For this heater, installations with a draft of .02 inches of water or less are considered marginal and will not burn reliably as noted above. For this heater, it is not recommended that the draft exceed .06 inches of water or overfiring can occur as noted above. The recommended operating range for this heater is .03 to .06 inches of water.

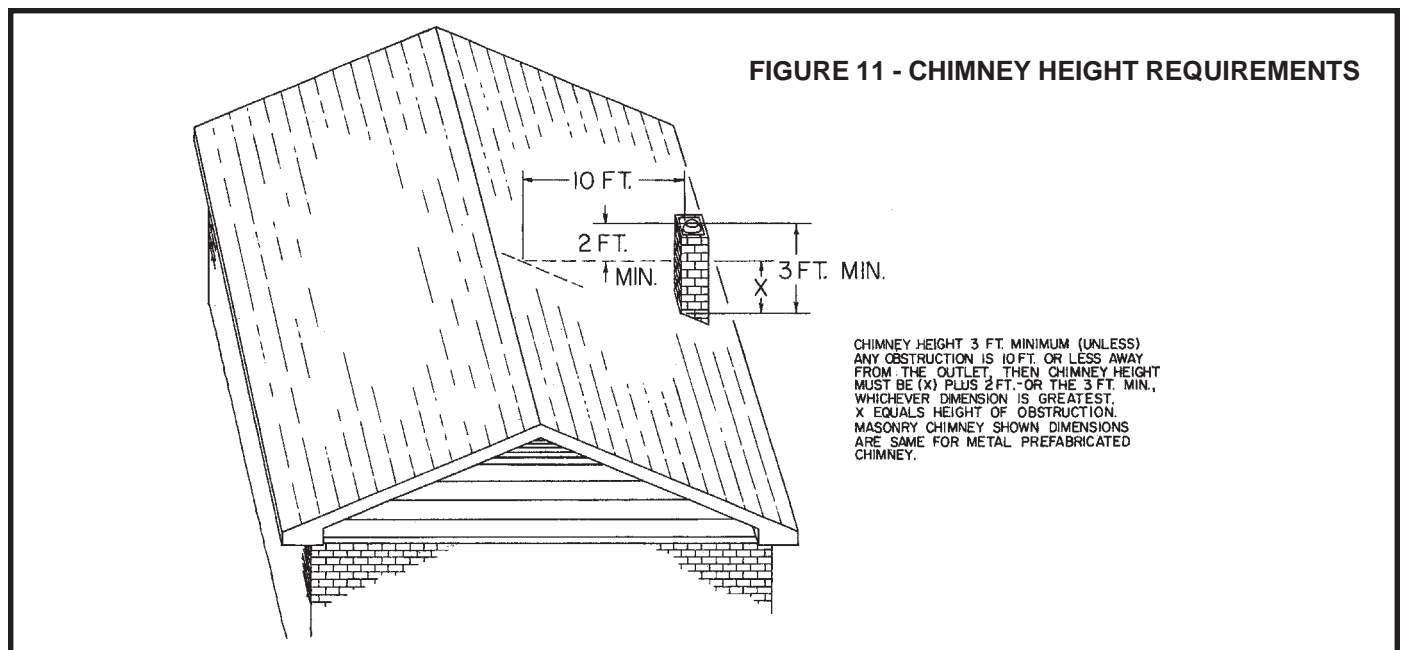
WHAT TO DO IF THE HEATER SMOKES OR BURNS POORLY OR EXCESSIVE CREOSOTE ACCUMULATES IN THE CHIMNEY

1. Open a window slightly to see if the conditions improve. If opening a window improved the performance of the heater or stops the spillage of smoke into the room, the problem is caused by a slight vacuum in the room. The vacuum can be the result of the room being so tightly constructed that the air removed from the room by the heater is not replaced by normal infiltration of air from outside the room.
The vacuum can also be caused by the loss of air from the room through the kitchen or bathroom ventilating fans, other chimneys or vents, etc. The only solution to this type problem is to reduce the air lost from the room or provide a source for air to enter the room.
2. Check the pipes connecting the heater to the chimney for loose or unsealed joints that may allow air to leak into the chimney system.
3. Examine your method of building and tending the fire in the heater. If you add too much fresh wood at each refueling, or attempt to operate the heater at too low a combustion rate for the amount of wood present in the firebox, your failure to follow proper practices may be causing the problem. Also check for ash buildup in the ash pan. Ashes can restrict air flow through the burning wood.
4. Check the height of the chimney. A chimney that is too short will not develop sufficient draft or allow wind to interfere with the draft. See figure 11 for correct chimney height.
5. Check the chimney for cracks or holes that might allow air to leak into the chimney. If the chimney is equipped with an ash clean out, be sure the door is closed and fits tightly. The door may have to be temporarily sealed with tape or furnace cement to be as air tight as required. An excellent way to check an exterior chimney for leaks is to preform a smoke test building a small wood fire in the heater, adding a small amount of wood to the fire to make it smoke heavily, momentarily blocking the top of the chimney, and watching for smoke to leak out of any opening or cracks.

6. Check the entire system for obstructions that could be causing resistance to the flow of smoke and gases up the chimney.
7. Check the size of the chimney flue liner. If the chimney flue liner's inside dimension is smaller than 6 inches round or 8 inches square, it will be too restrictive to the flow of smoke and gases. A chimney flue liner which has an inside cross-sectional area of more than 85 square inches is too large, which will result in excess capacity, which means less draft and more creosote. If the chimney flue liner is too large, it may be improved by restricting the top opening of the flue to a 6 inch round opening, or in more extreme cases, the chimney may have to be relined with a smaller lining and a metal prefabricated chimney may have to be replaced.

WHAT TO DO IF THE HEATER BURNS TOO RAPIDLY OR OVERHEATS

1. If the room in which the heater is located becomes uncomfortably warm on moderately cool days, it may be because you are placing too much wood in the heater for the amount of heat required to heat your home. Although the thermostatically controlled inlet air damper on the heater is intended to control the burning rate of the wood, a certain amount of air must enter the heater at all times to assure the fire does not go out and the wood burns as cleanly as possible. Thus you should adjust the amount of wood you put in the heater to the outdoor temperature. Placing excessive wood in the heater will cause excessive creosote formation in the chimney, waste wood, and make the room uncomfortably warm.
2. If the heater burns too rapidly or overheats, it may be because air is leaking around a loose door gasket or a fuel feed door or ash door latching pawl and handle may need adjusting. Check thoroughly for leaks where air may be entering the heater's firebox.
3. If the heater burns too rapidly or overheats due to excessive draft as described earlier, you may wish to consider purchasing a barometric damper top to be installed in the heater's chimney connector. The barometric damper should be set to regulate a .06 draft through the heater. Check with your heater dealer.



QUICK REFERENCE TO THE MOST COMMON SOLUTIONS FOR THE MOST COMMON HEATER OPERATIONAL PROBLEMS

Symptom: Fire rate does not increase with thermostat open, smoke spilling from feed door when tending fire or backpuffing. Check for:

- a. Chimney connector pushed too far into a masonry chimney thimble restricting draft.
- b. Chimney or chimney connector restricted with creosote.
- c. Chimney draft reduced by air entering through:
 - Unsealed chimney clean-out access.
 - Loose mortar or cracked chimney wall.
 - Holes in rusted chimney connector.
 - Incompletely sealed chimney connector joint or thimble
- d. Downdraft in too large chimney or chimney with no cover.
- e. Combustion air inlet blocked with ashes.
- f. Chimney too short.

Symptom: Fire rate too high when thermostat closed. Check for:

- a. Feed door or ash door not securely closed.
- b. Feed door or ash door gasket worn excessively.

Symptom: Smoke smell in living space. Check for:

- a. Items a through f of first symptom above.

FINAL CHECKLIST OF DO'S AND DON'TS

DO'S

1. Do read and follow the installation, operation and maintenance manual carefully.
2. Do install a smoke detector in an area that will give warning in the unlikely event that a fire develops in the area of the heater or the heater malfunctions.
3. Do be sure that there is a fire extinguisher of the proper type and in good working order accessible in the unlikely event that a fire develops near the heater or the heater malfunctions.
4. Do check with local building officials to be sure installation of the heater complies with all building codes and requirements and obtain required building permits.
5. Do plan your installation with safety as your primary consideration.
6. Do keep all flammable liquids, gases and pressurized containers away from heater.
7. Do complete the installation before attempting to use the heater.
8. Do use only the prescribed materials and parts for the installation of the heater.
9. Do install the heater in an area that will minimize the hazards of persons coming in contact with the hot surfaces of the heater.
10. Do instruct all responsible persons in the proper and safe operation of the heater.
11. Do instruct all persons, especially children and elderly persons, of the hazards involved with the heater and improper and unauthorized tampering with the heater.
12. Do check the heater for proper adjustment and operation before leaving it unattended for long periods of time.
13. Do start a fire only with paper, kindling or solid composition fire starters specifically designed for starting a fire. The use of liquid fire starters can cause an explosion within the heater.
14. Do use only a Listed High Temperature Type HT Factory-built Residential Type and Building Heating Appliance Chimney or a properly constructed and maintained masonry chimney to vent this heater.
15. Do use 6-inch diameter chimney connector pipes made from a minimum of 24 gauge cold rolled steel.
16. Do place all ashes in a metal container with a tight fitting lid and place them on a noncombustible surface well away from other combustible materials until they have completely cooled.
17. Do check the door latching mechanisms and gaskets regularly and replace parts or make adjustments as needed to maintain the intended tightness of the fire chamber.
18. Do use a noncombustible floor covering beneath the heater as required.
19. Do observe all instructions regarding clearance between the appliance, chimney connector and combustibles.
20. Do store your fuel supply at least 36 inches from the heater.
21. Do build fires of moderate intensity in the appliance for the first three fires to allow the materials to adjust and cure before being subjected to the intense heat of a large fire.
22. Do burn only seasoned wood in the heater.
23. Do be sure the heater is located in an area where combustible vapors are not present.
24. Do use a chimney for this heater that is not used by another appliance.
25. Do assemble the chimney connector so that moisture that accumulates within the chimney will flow back toward the heater.
26. Do remove the ashes from the heater regularly.
27. Do set the thermostat on "HI" and allow the heater to burn for approximately 15 minutes after fresh fuel is added before reducing the thermostat setting.
28. Do protect your hands with noncombustible gloves when loading the heater, removing ashes, etc.
29. Do keep the heater doors closed except when refueling the heater or removing ashes.

DONT'S

1. Don't dry clothing or other articles on or near the heater.
2. Don't store or place flammable liquids, gases, or other pressurized containers near the heater.
3. Don't use gasoline, gasoline type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or intensify a fire. Using these and other similar materials can cause an explosion within the heater.
4. Don't use an unlisted, type B, or poorly constructed or maintained chimney to vent this heater.
5. Don't use galvanized pipe, steel pipe less than 24 gauge, or pipe of a diameter smaller than 6 inches as a chimney connector.
6. Don't store ashes in combustible containers, not store them near combustible materials nor dispose of them until they have completely cooled.
7. Don't use power blowers or air circulation systems with this heater that are not specifically recommended in this manual.
8. Don't neglect to inspect regularly and maintain door gaskets and latching mechanisms to assure the intended tightness of the fire chamber.
9. Don't install the heater or chimney connector at clearances less than those specified in this manual.
10. Don't install this heater where flammable or explosive materials or vapors are likely to be present.
11. Don't install this heater in a chimney flue that is used by another appliance.
12. Don't neglect to clean and inspect your chimney regularly.
13. Don't operate this heater with the doors open.
14. Don't use the heater with missing or damaged parts.

SAFETY NOTICE

In the unlikely event that your heater "overfires" (a condition evidence by elbows, stovepipes, and connectors glowing red in appearance or otherwise discoloring), then your installation is subject to excessive draft created by either a chimney too tall or too great in diameter in conjunction with its height, or some other factor of an indeterminate cause. In this event, you should install a barometric draft regulator. Such installation will preclude any overfiring and/or any hazardous consequences of potential overfiring.

Barometric Draft Regulators are generally available where you purchased your stove or may be ordered directly from United States Stove Company at a nominal charge.

BAROMETRIC DRAFT REGULATOR
Model DR6

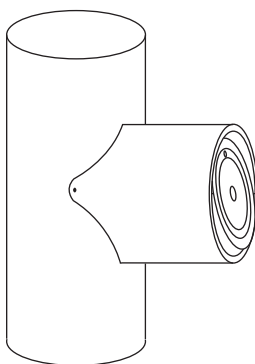
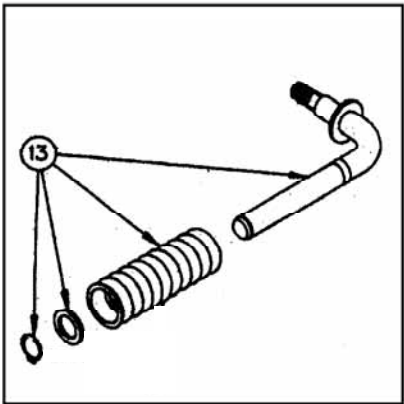


ILLUSTRATION OF REPAIR PARTS. SEE LEDGER ON NEXT PAGE FOR PART NAMES AND PART NUMBERS.



SEE FIGURE 12 FOR ILLUSTRATION OF PARTS

NOTICE: Parts marked with a ★ are for the black model BEC95

KEY	PART NO.	DESCRIPTION	QTY.
1	69228B	INNER UNIT ASSEMBLY	1
2	88094	GASKET	1
3	24819	FLUE COLLAR	1
4	40381	REAR BRICK RETAINER	1
5	40132	SIDE BRICK RETAINER	2
6	89066	CERAMIC BRICK (FBP6 PACK OF 6 BRICK)	13
7	24846	SMOKE CURTAIN ROD	1
8	24835	SMOKE CURTAIN ASSEMBLY	1
9	DGK3	FEED & ASH DOOR GASKET KIT	1
10	83485	DOOR PIN	4
11	24837	HINGE KIT FOR FEED DOOR	1
12	24824	RADIATION SHIELD KIT	1
13	89930	HANDLE KIT	2
14	24838	HINGE KIT FOR ASH DOOR	1
15	69230	ASH DOOR ASSEMBLY	1
16	25048	ASH DOOR LATCH (short)	2
17	-----	REFER TO ITEM 9	
18	69229	FEED DOOR ASSEMBLY	1
19	25048	FEED DOOR LATCH	1
20	40412	FRONT LINER	1
22	24870	DOOR SHIELD	1
23	69206	ASH PAN WELDMENT	1
24	40394	GRATE	2
25	69205	GRATE SUPPORT ANGLE	2
26	83479	LEVELER (not applicable in newer units)	4
27	88090	MANIFOLD GASKET	1
28	24812	MANIFOLD ASSEMBLY	1
29	69207B	DRAFT PLATE ASSEMBLY	1
30	83478	ACORN NUT (NLA)	2
31	24816	INLET COVER PIN (NLA)	1
32-33	24850	CHAIN & "S" HOOK ASSEMBLY	1
34	69532	THERMOSTAT ASSEMBLY	1
45	89142	KNOB	1
	★ 89687	KNOB (BLACK)	
46	851397	CONTROL PLATE	1
	★ 851728	CONTROL PLATE (BLACK)	
47	24849	ROD & NUT KIT	1
48	69224GO	TRIM AND SCREEN ASSEMBLY	1
49	24851	LEFT & RIGHT TOP BRACE	2
50	24824	RADIATION SHIELD KIT	1
51	69221TX	LEFT SIDE CABINET ASSEMBLY	1
	★ 69221B	LEFT SIDE CABINET ASSEMBLY (BLACK)	
52	69202TX	CABINET TOP ASSEMBLY	1
	★ 69202B	CABINET TOP ASSEMBLY (BLACK)	
53	89925	CABINET TOP HANDLE KIT	1
	★ 891591	CABINET TOP HANDLE KIT (BLACK)	
54	69203TX	PANEL BACK ASSEMBLY	1
	★ 25597B	PANEL BACK (BLACK)	
55	69220TX	RIGHT SIDE CABINET ASSEMBLY	1
	★ 69220B	RIGHT SIDE CABINET ASSEMBLY (BLACK)	
56	69219TX	CABINET DOOR ASSEMBLY	1
	★ 69219B	CABINET DOOR ASSEMBLY (BLACK)	
57	24893	LATCH	1
	89928	HANDLE KNOB, CABINET	
N/S	★ 891592	HANDLE KNOB, CABINET (BLACK)	1
	25551TX	TOP FRONT PANEL	
58	★ 25551B	TOP FRONT PANEL (BLACK)	1
	83274	HANDLE NUTS	
N/S	83045	HANDLE WASHER	1
N/S	83227	BOLTS (Flue Collar)	8
N/S	83250	NUTS (Flue Collar)	8

N/S = NOT SHOWN



Keeping America Warm Since 1869

EC95/BEC95

Owner's Manual

When writing, always give the full model number which is on the nameplate attached to the fireplace.

When ordering repair parts or options, always give the following information as shown in this list:

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER: ☐ EC95 ☐ BEC95
4. The SERIAL NUMBER _____

Save this manual for future reference.

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