

FMI CATALYTIC FIREPLACE CCAT36 SERIES 36" WOOD BURNING FIREPLACE

These models meet the EPA Wood Burning Fireplace Program Phase 2 emission level. NOTE: To ensure proper fireplace operation, the catalyst should be replaced at a minimum of 3 years and a maximum of 5 years.

SAVE THIS BOOK

This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or accessory items when needed. Keep it with your other important papers.

This fireplace is approved for use as a wood burning fireplace or for use with a vented gas log approved to ANS Z21.60 and Z21.84 standards or for use with a vent-free gas log heater approved to ANS Z21.11.2 standard. A FMI PROD-UCTS, LLC hood must be installed when using a vent-free log heater (see <u>Accessories</u>, page 21).

This wood burning fireplace complies with UL127-CAN/ULC-S610-M87 standard as a FACTORY BUILT APPLIANCE.

FOR CANADA: The authority having jurisdiction (such as the municipal building department, fire department, etc.) should be contacted before installation to determine the need to obtain a permit.

INSTALLER: Leave this manual with the appliance. CONSUMER: Retain this manual for future reference.

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# SAFETY

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury, property damage or loss of life. Refer to this manual for assistance or additional information. Consult a qualified installer or local distributor.

# **IMPORTANT:** Check local codes before installing this fireplace.

Before beginning installation of this fireplace, read these instructions through completely.

- This FMI PRODUCTS, LLC fireplace and its components are safe when installed according to this installation manual. Unless you use FMI PRODUCTS, LLC components, which have been designed and tested for the fireplace system, you may cause a fire hazard.
- The FMI PRODUCTS, LLC warranty will be voided by and FMI PRODUCTS, LLC disclaims any responsibility for the following actions.
  - a. Modification of the fireplace, components, doors, air inlet system and damper control.
  - b. Use of any component part not manufactured or approved by FMI PRODUCTS, LLC in combination with a FMI PROD-UCTS, LLC fireplace system.

Proper installation is the most important step in ensuring safe and continuous operation of fireplace. Consult the local building codes as to the particular requirements concerned with the installation of all factory built fireplaces. WARNING: Do not install a fireplace insert in this box unless the manufacturer's instructions with the insert specifically state this fireplace has been tested for use with this insert.

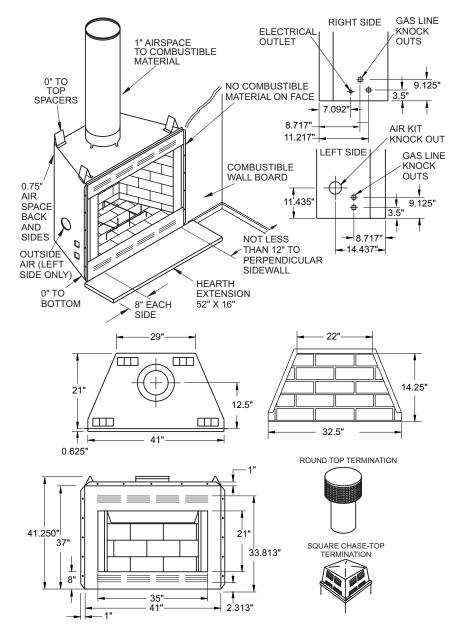
# FOR YOUR SAFETY

- Do not store or use gasoline or any other flammable vapors or liquids in the vicinity of this or any other appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Do not place clothing or other flammable materials on or near the appliance.
- Never leave children unattended when a fire is burning in the fireplace.

WARNING: Use solid wood or processed solid fuel fire logs only. When processed wood fuel fire logs are used, do not poke or stir the logs while they are burning. Use only fire logs that have been evaluated for the application in fireplace and refer to fire log warnings and caution markings on packaging prior to use.

This fireplace is not intended to be used as a substitute for a furnace to heat an entire home. Use for supplemental heat only.

# SPECIFICATIONS



# FIREPLACE INSTALLATION

# SELECTING LOCATION

To determine safest and most efficient location for fireplace, you must take into consideration the following guidelines:

- 1. Location must allow for proper clearances (see Figures 1 and 2).
- Consider a location where fireplace will not be affected by drafts, air conditioning ducts, windows or doors.
- 3. A location that avoids cutting of joists or roof rafters will make installation easier.
- An outside air kit is available with this fireplace (see <u>Optional Outside Air Kit</u> on page 7).

### MINIMUM CLEARANCE TO COMBUSTIBLES

 Back and sides of fireplace
 3/4" minimum\*

 Floor\*\*
 0" minimum

 Perpendicular wall to opening
 14" minimum

 Top spacers
 0" minimum

 Mantel clearances
 see <u>Mantels</u>, page 6

 Chimney outer pipe surface
 1" minimum

 \* Not required at nailing flanges
 1" minimum

# WARNING: Do not pack required air spaces with insulation or other materials.

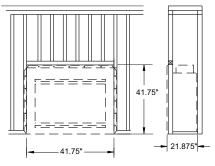
#### Minimum/Maximum Chimney Height

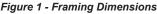
Minimum height of chimney, measured from base of fireplace to flue gas outlet of termination, is 14.5 feet for straight flue or a flue with one elbow set. Maximum distance between elbows is 2 feet. For systems with two elbow sets, minimum height is 22 feet. Maximum height of any system is 50 feet. This measurement includes fireplace, chimney sections and height of termination assembly at level of flue gas outlet (see Figure 19, page 12).

## FRAMING

- 1. Frame opening for fireplace using dimensions shown in Figures 1 and 2.
- If fireplace is to be installed directly on carpeting, tile (other than ceramic) or any combustible material other than wood flooring, fireplace must be installed upon a metal or wood panel extending full width and depth of fireplace.

- 3. Set fireplace directly in front of this opening and slide unit back until nailing flanges touch side framing.
- 4. Check level of fireplace and shim with sheet metal if necessary.
- 5. Before securing fireplace to prepared framing, ember protector must be placed between hearth extension (not included) and under bottom front edge of fireplace to protect against glowing embers falling through. If fireplace is to be installed on a raised platform, a Z-type ember protector (not included) must be fabricated to fit your required platform height. Ember protector should extend under fireplace a minimum of 1 <sup>1</sup>/<sub>2</sub>". Ember protector should be made of galvanized sheet metal (28 gauge minimum) to prevent corrosion.
- Using screws or nails, secure fireplace to framing through flanges located on sides of fireplace.





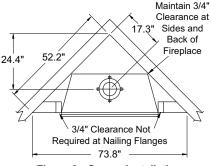


Figure 2 - Corner Installation

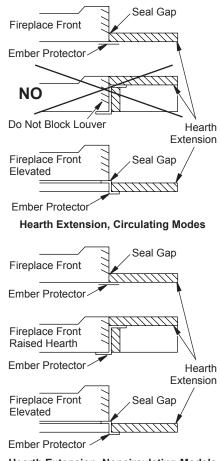
#### HEARTH EXTENSION

A hearth extension projecting a minimum of 16" in front of and a minimum of 8" beyond each side of fireplace opening is required to protect combustible floor construction in front of fireplace. Fabricate a hearth extension using a material which meets the following specifications: a layer of noncombustible, inorganic material having a thermal conductivity of K=0.84 BTU IN/FT, HR. F (or less) at 1" thick. For example, if material selected has a K factor of 0.25, such as glass fiber, the following formula would apply:

 $0.25 \times 1.0$ " = 0.30" thickness required 0.84

Thermal conductivity "K" of materials can be obtained from manufacturer or supplier of noncombustible material. If hearth extension is to be covered, use noncombustible material such as tile, slate, brick, concrete, metal, glass, marble, stone, etc. Provide a means to prevent hearth extension from shifting and seal gap between fireplace frame and hearth extension with a noncombustible material (see Figure 3).

# WARNING: Hearth extension is to be installed only as shown in Figure 3.



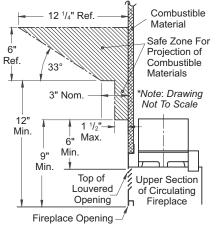
Hearth Extension, Noncirculating Models

#### Figure 3 - Hearth Extension

# FIREPLACE INSTALLATION Continued

#### MANTELS

A mantel may be installed if desired (see Figures 4 and 5). Woodwork such as wood trims, mantels or any other combustible material projecting from front face, must not be placed within 9" of fireplace opening and within 6" of top louver opening. Combustible materials above 9" and projecting more than  $1 \frac{1}{2}$ " from fireplace must not be placed less than 12" from top opening of fireplace (NFPA STD 211, Sec. 7-3.3.3).



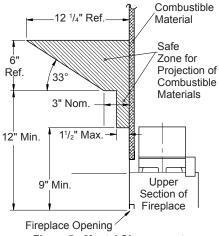


Figure 5 - Mantel Clearances to Combustible Material (without Louver)

Figure 4 - Mantel Clearances to Combustible Material (with Louver)

# VENTING INSTALLATION

# OPTIONAL OUTSIDE AIR KIT (MODEL AK4/AK4F)

Installation of an outside air kit should be performed during rough framing of fireplace due to the nature of it's location. Outside combustion air is accessed through a vented crawl space (AK4F) or through a sidewall (AK4). See Figure 23 on page 15 for instruction of operating air kit.

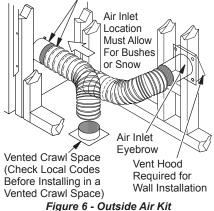
# **CAUTION:** Combustion air inlet ducts shall not terminate in attic space.

The maximum height for the air vent can not exceed 3 feet below the flue gas outlet of the termination.

## CHIMNEY PIPE

FMI PRODUCTS, LLC chimney system consists of 12", 18", 24", 36" and 48" snaplock, double-wall pipe segments, planned for maximum adaptability to individual site requirements. Actual lengths gained after fitting overlaps must be taken into consideration (lineal gain) and are given in lineal gain chart (see Figure 7, page 7). Lineal gain is actual measurable length of a part after two or more parts are connected. For Canada, use chimney parts designated "HT".

Secure to Collars with Metal Tape, Screws or Straps (Min. of 1/4" x 20" in size)



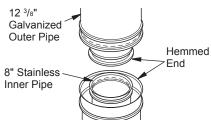
WARNING: The opening in collar around chimney at top of fireplace must not be obstructed. Never use blown insulation to fill chimney enclosure.

# ASSEMBLY AND INSTALLATION OF DOUBLE WALL CHIMNEY SYSTEM

Each double wall chimney section consists of a galvanized outer pipe, a stainless steel inner flue pipe and a wire spacer. Pipe sections must be assembled independently as chimney is installed. When connecting chimney directly to fireplace, inner flue pipe section must be installed first with lanced side up. Outer pipe section can then be installed over flue pipe section with hemmed end up. Press down on each pipe section until lances securely engage hem on fireplace starter. The wire will assure proper spacing between inner and outer pipe sections.

Note: For Canada, use chimney parts designated HT.

Opening in collar around chimney at top of fireplace must not be obstructed. Never use blown insulation to fill chimney enclosure.



| LINEAL GAIN      |                                                 |                                                                         |  |
|------------------|-------------------------------------------------|-------------------------------------------------------------------------|--|
| PART NO.         | DESCRIPTION                                     | GAIN                                                                    |  |
| 36"              | Fireplace                                       | 37 <sup>1</sup> / <sub>2</sub> "                                        |  |
| 12-8DM<br>12-8HT | Pipe Section                                    | 10 <sup>5</sup> /8"                                                     |  |
| 18-8DM<br>18-8HT | Pipe Section                                    | 16 <sup>5</sup> /8"                                                     |  |
| 24-8DM<br>24-8HT | Pipe Section                                    | 23 5/8"                                                                 |  |
| 36-8DM<br>36-8HT | Pipe Section                                    | 34 <sup>5</sup> /8"                                                     |  |
| 48-8DM<br>48-8HT | Pipe Section                                    | 46 <sup>5</sup> /8"                                                     |  |
| RT-8DM           | Round Termination                               | 6 <sup>7</sup> / <sub>8</sub> "*                                        |  |
| RTL-8DM          | Round Termination                               | 7 <sup>3</sup> / <sub>4</sub> "*                                        |  |
| RTT-8DM          | Round Termination<br>with Slip Section          | 6 <sup>7</sup> / <sub>8</sub> " to<br>23 <sup>1</sup> / <sub>8</sub> "* |  |
| RTTL-8DM         | Round Termination with Slip Section             | 8 <sup>1</sup> / <sub>2</sub> " to<br>21 <sup>1</sup> / <sub>2</sub> "* |  |
| ET-8DM           | Square Chase-Top                                | 12"*                                                                    |  |
| ETO-8DM          | Square Chase-Top<br>with Mesh                   | 12"*                                                                    |  |
| ETL-8DM          | Square Chase-Top<br>with Slip Section           | 7" to 15"*                                                              |  |
| ETLO-8DM         | Square Chase-Top<br>with Mesh & Slip<br>Section | 12" to<br>25 <sup>1</sup> / <sub>2</sub> "*                             |  |

\* The lineal gain for the terminations is measured to the flue gas outlet height.

Figure 7 - Lineal Gain

Continue to assemble chimney sections as outlined, making sure that both inner and outer pipe sections are locked together. When installing double wall snap-lock chimney together, it is important to assure joint between chimney sections is locked. Check by pulling chimney upward after locking. Chimney will not come apart if properly locked. It is not necessary to add screws to keep chimney together (exception - see Figure 10, page 9).

## USING ELBOW OFFSETS (30E-8DM)

 To achieve desired offset, you may install combinations of 12", 18", 24", 36" and 48" length of double wall pipe (see offset chart and Figure 8).

Note: For systems with 2 elbow sets, minimum height is 22 feet. Maximum height for any system is 50 feet.

- Chimney weight above offset rests on return elbow. Straps must be securely nailed to rafters or joists (see Figure 9, details A and B on page 9).
- 3. Maximum length of pipe between supports (return elbow or 12S-8DM) is 6' of angle run. Maximum of two 6' angle run sections per chimney system (see Figure 8).
- All pipe connections between offset and return must be secured with two screws on outer pipe only (see Figure 10, page 9). Do not penetrate inner stainless.

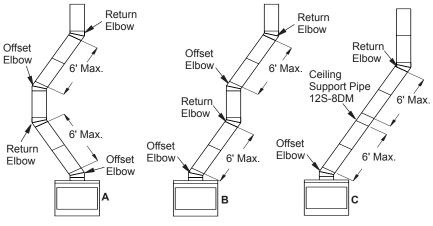
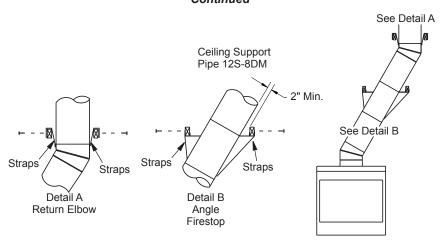
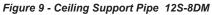
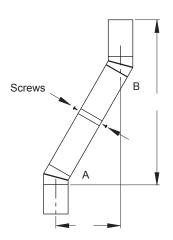


Figure 8 - Typical Offset Installation





| OFFSET                                  | RISE                              | CHIMNEY LENGTH |             |      |     |     |
|-----------------------------------------|-----------------------------------|----------------|-------------|------|-----|-----|
| Α                                       | В                                 | 48"            | 36"         | 24"  | 18" | 12" |
| 4 <sup>3</sup> / <sub>8</sub> "         | 16 <sup>3</sup> /8"               | EL             | BOV         | / SE | ΓΟΝ | LY  |
| 9 <sup>3</sup> / <sub>4</sub> "         | 25 <sup>1</sup> / <sub>2</sub> "  |                |             |      |     | 1   |
| 12 <sup>3</sup> / <sub>4</sub> "        | 30 <sup>3</sup> / <sub>4</sub> "  |                |             |      | 1   |     |
| 15"                                     | 34 <sup>3</sup> / <sub>4</sub> "  |                |             | 1    |     |     |
| 18"                                     | 40"                               |                |             |      | 1   | 1   |
| 21 <sup>1</sup> / <sub>4</sub> "        | 46 <sup>1</sup> / <sub>4</sub> "  |                | 1           |      |     |     |
| 23 <sup>3</sup> / <sub>4</sub> "        | 49 <sup>1</sup> / <sub>4</sub> "  |                |             | 1    | 1   |     |
| 27 <sup>3</sup> / <sub>4</sub> "        | 56 <sup>3</sup> / <sub>4</sub> "  | 1              |             |      |     |     |
| 30"                                     | 60 <sup>3</sup> / <sub>4</sub> "  |                | 1           |      | 1   |     |
| 33"                                     | 66"                               | 1              |             |      |     | 1   |
| 36"                                     | 71"                               | 1              |             |      | 1   |     |
| 38 <sup>1</sup> / <sub>4</sub> "        | 75"                               |                | 2           |      |     |     |
| <b>41</b> <sup>1</sup> / <sub>4</sub> " | 80 <sup>1</sup> / <sub>4</sub> "  |                |             |      | 1   | 1   |
| 45"                                     | 86 <sup>3</sup> /4"               |                | 2           |      |     |     |
| 46 <sup>3</sup> / <sub>4</sub> "        | 89 <sup>1</sup> / <sub>2</sub> "  | 1              |             |      | 1   | 1   |
| 51"                                     | 97"                               | 1              | 1           |      |     |     |
| 53 <sup>1</sup> / <sub>4</sub> "        | 101"                              |                | 2           |      | 1   |     |
| 56 <sup>1</sup> / <sub>4</sub> "        | 106 1/4"                          | 2              |             |      |     |     |
| 59 <sup>1</sup> / <sub>4</sub> "        | 111 <sup>1</sup> / <sub>2</sub> " | 1              | 1           |      | 1   |     |
| 61 <sup>3</sup> / <sub>4</sub> "        | 115 <sup>1</sup> / <sub>2</sub> " | 2              |             |      |     | 1   |
| 64 <sup>3</sup> / <sub>4</sub> "        | 120 <sup>3</sup> / <sub>4</sub> " | 2              |             |      | 1   |     |
| 68 <sup>1</sup> / <sub>4</sub> "        | 127"                              | 1              | 2           |      |     |     |
| 70"                                     | 130"                              | 2              |             |      | 1   | 1   |
| 74 <sup>1</sup> / <sub>4</sub> "        | 137 <sup>1</sup> / <sub>2</sub> " | 1              | 2           |      |     | 1   |
| 76 <sup>3</sup> / <sub>4</sub> "        | 141 <sup>1</sup> / <sub>2</sub> " | 1              | 2<br>2<br>4 |      | 1   |     |
| 79 <sup>3</sup> / <sub>4</sub> "        | 146 <sup>3</sup> / <sub>4</sub> " |                | 4           |      |     |     |

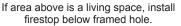


OFFSET CHART (22-50 FT. SYSTEM HEIGHT) Figure 10 - Elbow Offset

## FIRESTOP SPACERS (3600FS-8DM-1)

Firestop spacers are required at each point where chimney penetrates a floor space. Their purpose is to establish and maintain required clearance between chimney and combustible materials. When pipe passes through a framed opening into a living space above, firestop must be placed onto ceiling from below as shown in Figure 11.

They also provide complete separation from one floor space to another or attic space as required by most codes. When double wall pipe passes through a framed opening into an attic space, firestop must be placed into an attic floor as shown in Figure 12.



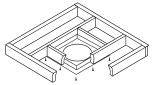


Figure 11 - Firestop Spacer with Living Space Above Ceiling

If area above is an attic or insulated area, install firestop above framed hole.

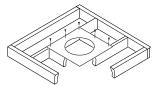


Figure 12 - Firestop Spacer with Attic Space Above Ceiling

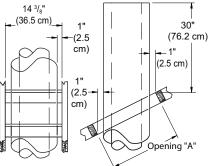
## PENETRATING ROOF

To maintain a 1" clearance to pipe on a roof with a pitch, a rectangular opening must be cut.

- 1. Determine center point where pipe will penetrate roof.
- Determine center point of roof. Pitch is the distance the roof drops over a given span, usually 12". A 6/12 pitch means that the roof drops 6" for each 12" measure horizontally down from roof rafters.
- Use roof opening chart (Figure 13) to determine correct opening length and flashing required.

- 4. Remove shingles around opening measured. Cut out this section.
- 5. Add next sections of pipe until end penetrates roof line. Check to see that proper clearances are maintained. Extend chimney by adding sections of double wall pipe until pipe is minimum of 30" above highest point of roof cutout. Termination and chimney must extend a minimum of 36" above highest point where it passes through roof.





| Pitch       | Slope | Opening<br>"A" Max. | Used Flashing<br>Model No. |
|-------------|-------|---------------------|----------------------------|
| Flat        | 0°    | 15"                 | V6F-8DM                    |
| 0-6/12      | 26.6° | 16 <sup>1</sup> /8" | V6F-8DM                    |
| 6/12- 12/12 | 45.0° | 20 <sup>3</sup> /8" | V12F-8DM                   |

Figure 13 - Roof Opening Measurements

# FLASHING INSTALLATION (V6F-8DM OR V12F-8DM)

Determine flashing to be used with roof opening chart. Slide flashing over pipe until base is flat against roof. Replace as many shingles as needed to cover exposed area and flashing base. Secure in position by nailing through shingles (see Figure 14, page 11). DO NOT NAIL THROUGH FLASHING CONE.

#### Installing Flashing on a Metal Roof

When installing flashing on a metal roof, it is required that putty tape be used between flashing and roof. Flashing must be secured to roof using #8 x 3/4" screws and then sealed with roof coating to prevent leakage through screw holes. A roof coating must also be applied around perimeter of flashing to provide a proper seal.

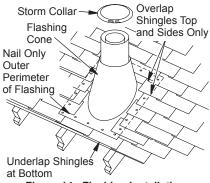
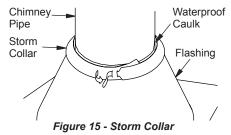


Figure 14 - Flashing Installation

#### Storm Collar Installation (SC1 or SC2)

Place storm collar over pipe and slide down until it is snug against open edge of flashing (see Figure 15). Use SC1 for all round terminations and SC2 for all terminations with slip sections. Apply waterproof caulk around perimeter of collar to provide a proper seal.



#### **Terminations/Spark Arrestor**

Fireplace system must be terminated with listed round top or chase terminations. In any case, refer to installation instructions supplied with termination. Terminations approved for this fireplace are RT-8DM and RTL-8DM that can be used for flashing or chase and ET-8-DM, ETO-8DM, ETL-8DM and ETLO-8DM for chase style termination only. Figure 16 shows an RTL-8DM round top termination.

CAUTION: Do not seal openings on the rooftop flashing. Follow the installation instructions provided with the termination being used. Terminations with 16" slip pipe sections are available. RTT-8DM and RTTL-8DM are approved for flashing installations. When needed, these adjustable terminations may be used in combination with pipe assembly to achieve correct chimney height.

Note: In rare instance there is a problem with side driven rain or wind or chimney is not drafting properly, an ADS-8DM (Anti-Draft Shield) can be used with round terminations.

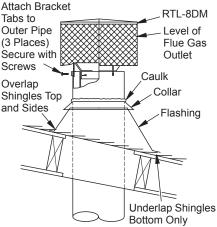


Figure 16 - Termination CHASE INSTALLATIONS

Instructions for chase installations are included with chase style termination chosen. In a multiple chase installation, be sure to provide adequate distance between terminations to prevent smoke spillage from one termination to another. We suggest that terminations be separated at least 24", center to center and stacked at a vertical height difference of 18" (see Figure 17).

Note: If a decorative shroud is to be installed, contact manufacturer for specifications.

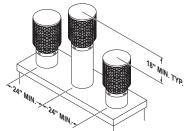


Figure 17 - Multiple Chase Installation

## **10 FOOT RULE**

All flue gas outlet chimney terminations must extend a minimum of 3 feet in height above highest point where it passes through roof and must be at least 2 feet above highest point of the roof that is within a horizontal distance of 10 feet (see Figure 18).

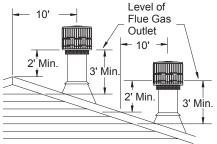


Figure 18 - 10 Foot Rule

## FINISHING THE FIREPLACE

Combustible materials, such as wallboard, gypsum board, sheet rock, drywall, plywood, etc. may make direct contact with sides and top around the fireplace face. It is important that combustible materials do not overlap face itself. Brick, glass, tile or other noncombustible materials may overlap front face provided they do not obstruct essential openings such as louvered slots. When overlapping with a noncombustible facing material, use only noncombustible mortar or adhesive.

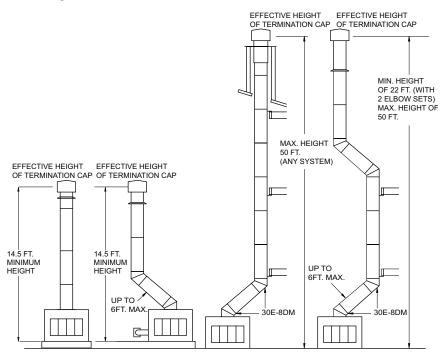


Figure 19 - Typical Residential Installations

# **PUREFIRE HOOD INSTALLATION**

- 1. The PureFire hood supplied with this fireplace is packaged in a separate box and placed in the firebox during shipping.
- 2. Remove hood from box.
- 3. Lift the hood up into the fireplace at an angle with the rear facing up. Set the front section of the hood on the refractory brackets. Then tilt the rear toward the back of the fireplace so the hood is resting on refractory brackets (see Figure 20). The rear of the hood will be touching the rear of the fireplace.

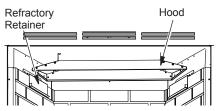


Figure 20 - Installing PureFire Hood

# **OPTIONAL GAS LINE INSTALLATION**

Gas line hook up should be done by your supplier or a qualified service person.

Note: Before you proceed, make sure your gas supply is turned off.

Use only a 1/2" black iron pipe and appropriate fittings.

 Remove knockout indentation on refractory or firebrick wall located above refractory hearth floor. Knockout indentation must be firmly tapped with any solid object, such as a 1/2" dowel, until it is released. Remove fragmented portions of refractory (see Figure 21).

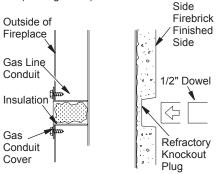
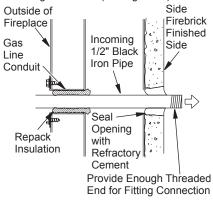


Figure 21 - Gas Line Knockout

2. Remove gas line cover plate located on either side of fireplace and pull out insulation from gas line conduit sleeve. Save insulation for reuse.  Run a 1/2" black iron gas line into fireplace through rear at gas line conduit sleeve (if using a raised platform, add height). Provide sufficient gas line into fireplace chamber for fitting connection (see Figure 22).



#### Figure 22 - Gas Line Installation

Note: Secure incoming gas line to wood framing to provide rigidity for threaded end.

 Repack insulation around gas line and into sleeve opening. Seal any gaps between gas line and refractory knockout hole with refractory cement or commercial furnace cement. Install gas appliance or cap off gas line if desired.

# **OPTIONAL GAS LINE INSTALLATION**

#### Continued

CAUTION: All gas piping and connections must be tested for leaks after installation is completed. After ensuring that gas valve is on, apply soap and water solution to all connections and joints. Bubbles forming show a leak. Correct all leaks at once. DO NOT USE AN OPEN FLAME FOR LEAK TESTING AND DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED. LEAK TESTING SHOULD BE DONE BY A QUALIFIED SERVICE PERSON.

Note: A FMI PRODUCTS, LLC hood must be installed when using an unvented gas log set (see <u>Accessories</u> on page 21).

WARNING: Do not operate an unvented gas log set in this fireplace with chimney removed. If you install a decorative gas appliance (vented gas log), decorative gas appliance must comply with the *Standard for Decorative Gas Appliance for Installation in Solid Fuel Burning Fireplaces, ANS Z21.60 or Z21.84* and shall also be installed in accordance with the *National Fuel Gas Code, ANSI 7223NFPA 54 latest edition.* 

WARNING: To avoid the risk of damaging the fireplace materials and increasing the risk of spreading a fire, do not use the fireplace to cook or warm food.

WARNING: If the fireplace has been used for wood burning, firebox and chimney must be cleaned of soot, creosote and ashes be a qualified chimney cleaner. Creosote will ignite if heavily heated.

WARNING: When using a decorative vented gas log, damper must be removed or permanently locked in fully open position and glass doors must be in fully open position.

# **OPERATION AND MAINTENANCE**

# **GLASS DOORS**

Glass doors are optional with this fireplace. When fireplace is in operation, doors must be fully opened or fully closed position only or a fire hazard may be created (see Figure 23, page 15).

A fireplace equipped with glass doors operates much differently than a fireplace with an open front. A fireplace with glass doors has a limited amount of air for combustion. Excessive heat within fireplace can result if too large a fire is built or if combustion air gate is not completely open. The following tips should be used to assure that both fireplace and glass door retain their beauty and function properly. Both flue damper and glass doors must be fully opened before starting a fire. This will provide sufficient combustion air and maintain safe temperatures in firebox.

*IMPORTANT*: Glass must be allowed to warm slowly and evenly. Tempered glass will withstand a gradual temperature rise to 550° F, which is more than a normal fire will generate. Such materials as pitch/wax laden logs, very dry mill end lumber and large amounts of paper or cardboard boxes can create an excessively hot fire and should not be burned in this fireplace. Always keep fire back from doors and never allow flames to contact glass.

# **OPERATION AND MAINTENANCE**

Continued

WARNING: Fireplaces equipped with glass doors should be operated only with doors fully opened or doors fully closed. Doors, if left partly open, may draw gas and flame out of the fireplace opening creating risks of both fire and smoke.

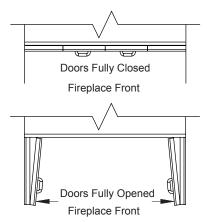


Figure 23 - Glass Doors

#### **Cleaning Glass**

Clean glass with any commercial glass cleaner or soap and water. Do not use any abrasive material to clean glass. Do not clean glass with any cool water if glass is still hot from fire and smoke.

A gas line or gas log lighter may be installed for the purpose of installing a vented or ventfree decorative gas appliance incorporating an automatic shutoff device and complying with the Standard for Decorative Gas Appliances for Installation in Vented Fireplaces, ANSI Z21.60 or American Gas Association draft requirements for Gas Fired Log Lighters for Wood Burning Fireplaces, Draft NO. 4 dated August, 1993.

If you wish to install an unvented (vent-free) gas log set, only unvented gas log sets which have been found to comply with the standard for unvented room heaters, ANSI Z21.11.2 are to be installed in this fireplace.

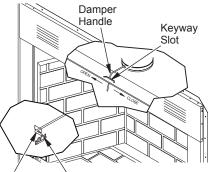
# OUTSIDE AIR AND DAMPER HANDLE OPERATION

Damper handle, which opens and closes damper blade, is located in upper front face of fireplace. Pushing handle into left of keyway slot will free damper blade to automatically open. Pushing handle into right will lock damper blade closed (see Figure 24).

Outside air kit handle is located at left hand side of fireplace (see Figure 24). Pulling handle out will free outside air door to open. Pushing handle in will lock door closed.

WARNING: Risk of fire! Replace grate with FMI PRODUCTS, LLC model 125186-01 only. This grate has been designed to keep the operation of your fireplace safe and efficient.

For further operating guidelines, instructions and warranty information, please refer to your homeowner's guide or contact your authorized dealer.



Outside Air Handle Kit Handle Retainer

Figure 24 - Damper and Air Kit Handle

# **PUREFIRE EMISSION CONTROL SYSTEM**

This fireplace is equipped with a PureFire Emission Control System. The Catalytic Hood system reduces particulates emissions in a wood burning fireplace to meet the EPA Wood-Burning Fireplace Program Phase 2 emission level.

The EPA qualifying label, shown below, will be affixed to the catalyst. Before lighting the first fire, remove and maintain this label in a safe place if needed for permits or building inspection. Prior to beginning installation, contact your local building official to determine the need to obtain a permit. For proper operation, catalyst must be replace every 3 to 5 years.

#### FUELING GUIDELINES

The fireplace grate must always be secured to the retaining brackets provided. The position of the grate must be centered against the back wall of the firebox.

Burn only dry, seasoned (cured) wood with less than 20% moisture. Avoid the use of treated, painted and laminated wood. Never burn garbage or other foreign materials. Do not use artificial logs, colored newspaper or petroleum based fire starters. Avoid wood with high salt content. All of these materials may contain compounds which can shorten the life of the catalyst. Wet or unseasoned wood may lower catalytic temperatures and result in inefficient operation.

The catalyst is designed to function at optimum efficiency when the fireplace is burning clean, dry, cord wood as fireplace fuel. A simple visual inspection of the chimney during the wood burning process will determine catalyst performance.

The fuel load should always be placed on the back of the grate. Use clean dry wood, seasoned cord wood is the best choice. Never burn trash, plastics, gasoline, rubber, industrial solvents, flammable liquids, naptha, household garbage, material treated with petroleum products, leaves, paper products, cardboard or salt driftwood.

Refer to your FMI PRODUCTS, LLC Home-

owner's Guide included with your fireplace for proper fire building technique and ash removal procedures. These fueling guidelines must be followed in order to achieve maximum emissions performance from the PureFire System.

#### **OPERATION**

The proper use of a wood burning fireplace equipped with the catalyst will significantly reduce the emissions that it produces. Simple fuel considerations with regard to moisture content, size, and quality of fuel will help control the production of wood smoke and improve the performance of the catalyst and fireplace efficiency. With proper care, the catalyst will provide years of fuel savings and lowered emissions. By following some simple guidelines, you will ensure maximum performance and longevity.



# **PUREFIRE EMISSION CONTROL SYSTEM**

#### Continued

The smoke that is usually seen coming out of a chimney is essentially a combination of unburned fuel (carbon and hydrogen) and moisture in the form of water vapor. The catalyst is a technology that provides secondary combustion for the wood burning process.

#### MAINTENANCE

The PureFire System is a maintenance free technology. Do not attempt to remove or clean the combustor. The direct flame from the fire will clean the combustor. Only a certified technician should remove the unit. To ensure proper fireplace operation, the PureFire System should be replaced every 3 to 5 years (see <u>Parts</u> on page 17).

NOTE: Chimney smoke may be visible during the first 8 to 10 minutes of fireplace operation when the fire is first getting started and the final 8 to 10 minutes of operation while the fire is dissipating. Under normal operating conditions, you should see little or no smoke coming out of the chimney. If continuous smoke is visible, make sure only dry seasoned wood is being burned. If visible smoke continues, the combustor has ceased to function or there is thermal crumbling. Call FMI PRODUCTS, LLC at 1-866-328-4537 for replacement parts.

#### WARRANTY

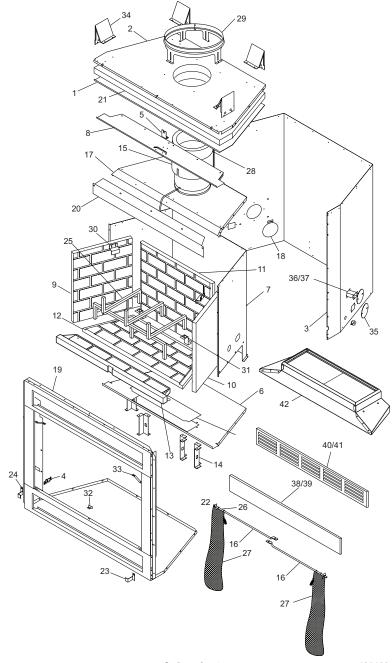
FMI PRODUCTS, LLC warranty obligations for the PureFire Emissions Control System are limited to the terms set forth below.

FMI PRODUCTS. LLC warrants to the consumer who purchases a new solid fuel burning fireplace containing a PureFire Emissions Control System as a new component, to replace the catalyst at no charge should it cease to function within three years from the date of purchase. The PureFire Catalytic Component is designed to perform efficiently for three years of fireplace operation. ONLY recommended fuels should be burned. Follow the fueling directions in manufacturers operation manual. For warranty purposes, proof of fireplace purchases is required. Labor for removal and/or installation of the catalytic component is not the responsibility of the manufacturer.

Neither FMI PRODUCTS, LLC nor the dealer who sells the PureFire Emissions Control System is responsible for indirect, incidental, special, punitive or consequential damages arising out of the improper use of this product or the continued use of this product beyond the required replacement period.

# PARTS

# WOOD BURNING FIREPLACE MODELS (V)CCAT36, (V)CCAT36I, (V)CCAT36H, (V)CCAT36L, (V)CCAT36LI, (V)CCAT36LH



# PARTS

# WOOD BURNING FIREPLACE MODELS (V)CCAT36, (V)CCAT36I, (V)CCAT36H, (V)CCAT36L, (V)CCAT36LI, (V)CCAT36LH

This list contains replaceable parts used in your fireplace. When ordering parts, see <u>Replace-ment Parts</u> on page 21 of this manual.

| KEY      |                        |                                        | 4.0.00 <b></b> |                 |              |
|----------|------------------------|----------------------------------------|----------------|-----------------|--------------|
| NO.      |                        | DESCRIPTION                            | (V)CCAT36(I,H) | (V)CCAT36L(I,H) | <b>QTY</b> . |
| 1        | 106638-01              | Insulation Pan                         | •              | •               | 1            |
| 2<br>3   |                        | Fireplace Top                          | •              | •               | 1            |
| 3<br>4   | 106641-01<br>106642-01 | Fireplace Surround<br>Air Rod Retainer | •              | •               | 1            |
| 4<br>5   | 106643-01              | Damper Rod Retainer                    |                | •               | 1            |
| 6        | **                     | Firebox Bottom                         |                |                 | 1            |
| 7        | **                     | Firebox Surround                       | •              | •               | 1            |
| 8        | **                     | Air Separator                          | •              | •               | 1            |
| 9        | See Page 17            | Left Refractory                        | •              | •               | 1            |
| 10       | See Page 17            |                                        | •              | •               | 1            |
| 11       |                        | Rear Refractory                        | •              | •               | 1            |
| 12       | See Page 17            |                                        | •              | •               | 1            |
| 13       | See Page 17            |                                        | •              | •               | 1            |
| 14       | **                     | Firebox Support Leg                    | •              | •               | 4            |
| 15       | 106687-01              | Damper Can Collar                      | •              | •               | 1            |
| 16       | 106691-01              | Screen Rod                             | •              | •               | 2            |
| 17       | **                     | Firebox Top Assembly                   | •              | •               | 1            |
| 18       | **                     | Air Kit Door Assembly                  | •              | •               | 1            |
| 19       | **                     | Face Weldment                          | •              | •               | 1            |
| 20       | 125562-01              | Smoke Deflector                        | •              | ٠               | 1            |
| 21       | **                     | Fireplace Top Insulation               | •              | •               | 1            |
| 22       | **                     | Access Panel                           | •              | •               | 1            |
| 23       | 107854-01              | Right Refractory Bracket               | •              | •               | 1            |
| 24       | 107854-02              | Left Refractory Bracket                | •              | ٠               | 1            |
| 25       | 125186-01              | Grate                                  | •              | •               | 1            |
| 26       | 11418                  | Push-On Nut                            | •              | •               | 2            |
| 27       | 12105                  | Screen                                 | •              | •               | 2            |
| 28       | **                     | Collar Insulation                      | •              | •               | 1            |
| 29       | 20023                  | Chimney Starter Collar                 | •              | •               | 1            |
| 30       | 20027                  | Refractory Retainer                    | •              | ٠               | 2            |
| 31       | 23534                  | Grate Retainer                         | •              | •               | 2            |
| 32       | 20088                  | Door Stop                              | •              | •               | 1            |
| 33       | 20090                  | Spring Clip                            | •              | •               | 2            |
| 34       | 20280                  | Top Standoff                           | •              | •               | 4            |
| 35       | 21171                  | Conduit Plate Cover                    | •              | •               | 4            |
| 36       | 21379                  | Gas Conduit                            | •              | •               | 2            |
| 37       | 21380                  | Gas Conduit                            | •              | •               | 2            |
| 38       | 106650-01              | Bottom Louver Panel                    |                | •               | 1            |
| 39       | 106651-01              | Bottom Smooth Panel                    | •              |                 | 1            |
| 40       | 106684-01              | Top Louver Panel                       |                |                 | 1            |
| 40<br>41 | 106651-01              | Top Smooth Panel                       | •              | -               | 1            |
| 41       | 124994-01              | PureFire Catalytic Hood                |                |                 | 1            |
| 1        | t a field replace      |                                        |                | -               |              |

\*\* Not a field replaceable part

# **REPLACEMENT PARTS**

# HERRINGBONE BRICK LINER

VCCAT36H/VCCAT36LH Left - 108164-01 Right - 108165-01 Rear - 108166-01 Bottom Rear - 108167-01 Bottom Front - 108168-01

CCAT36H/CCAT36LH Left - 108164-02 Right - 108165-02 Rear - 108166-02 Bottom Rear - 108167-02 Bottom Front - 108168-02



# STANDARD BRICK LINER

VCCAT36(I)/VCCAT36L(I) Left - 106658-01 Right - 106659-01 Rear - 106660-01 Bottom Rear 106661-01 Bottom Front 106662-01 CCAT36(I)/CCAT36L(I) Left - 106658-02 Right - 106659-02 Rear - 106660-02 Bottom Rear - 106661-02 Front Rear - 106662-02

**EMBER** PROTECTOR 20093

# **TECHNICAL SERVICE**

You may have further questions about You can also visit our web site at installation, operation, or troubleshooting. If so, contact FMI PRODUCTS, LLC at 1-866-328-4537. When calling please have your model and serial numbers of your heater ready.

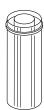
www.fmiproducts.com.

# ACCESSORIES

DOUBLE WALL PIPE

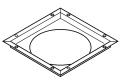
12-8DM 12-8HT 18-8DM 18-8-HT 24-8DM 24-8HT 36-8DM 36-8HT







ROOF FLASHING 0 TO 6/12 PITCH - V6F-8DM 6/12 TO 12/12 PITCH - V12F-8DM



FIRESTOP SPACER 3600FS-8DM-1



STORM COLLAR SC1-1 For RT-8DM and RTL-8DM SC2-1 For RTT-8DM and RTTL-8DM



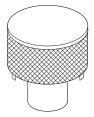
ANTI-DRAFT SHIELD (Round Top Termination Only) ADS-8DM





ANTI-DRAFT SHIELD (Round Top Termination Only) ADS-8DM

30° OFFSET AND RETURN 30E-8DM



ROUND TOP TERMINATIONS RT-8DM, RTL-8DM

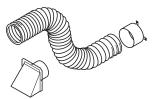
ROUND TOP TERMINATIONS WITH SLIP SECTION RTT-8DM, RTTL-8DM



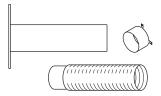
SQUARE CHASE-TOP TERMINATION ET-8DM, ETO-8DM

ECONO-TOP TERMINATION WITH SLIP SECTION ETL-8DM, ETLO-8DM

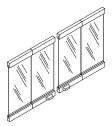
#### ACCESSORIES Continued



# OUTSIDE AIR KIT FOR SIDE WALL INSTALLATION - AK4

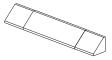


#### OUTSIDE AIR KIT FOR FLOOR INSTALLATION AK4F



#### **BI-FOLD GLASS DOOR**

BD36 - Black BD36B - Brushed Brass BD36P - Platinum



ADJUSTABLE HOOD Antique Brass Finish - GA6053 Black Painted Finish - GA6050 Required when installing a vent-free gas log in this fireplace.

# NOTES

| <u> </u> |  |
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