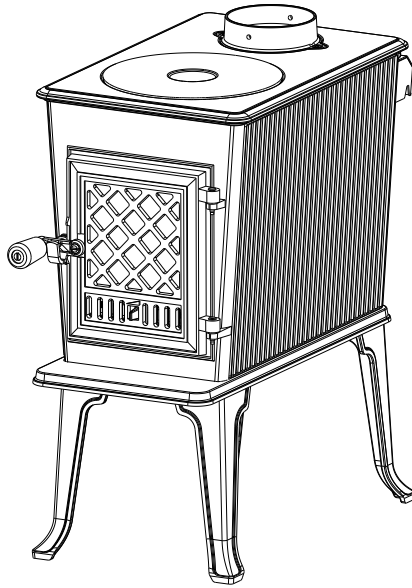


Jøtul F 602 V3



Jøtul F 602 V3

Catalytic Wood Heater

Installation and Operating Instructions for the United States and Canada

- **The Jøtul F 602 V3 wood stove is listed to burn solid wood only. Do not burn any other fuels.**
- **Read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death.**
- **Save these instructions for future reference and make them available to anyone using or servicing this wood heater.**
- **This wood heater contains a catalytic combustor that requires periodic inspection and maintenance for proper operation. See this manual for specific maintenance information. It is against federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in this owner's manual, or if the catalytic element is deactivated or removed.**

Une version française de ce manuel est disponible auprès de votre revendeur et sur le site www.jotul.ca.



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Accessories

The following accessories, specifically designed for the Jøtul F 602 V3 wood stove, are available from your Jøtul authorized dealer.

Rear Heatshield - HS-50

A stove rear heatshield has been specifically designed for the Jøtul F 602 V3 to reduce clearances off the rear of the stove to combustible materials. Use of the heatshield **does not** affect the clearance off the sides of the appliance.

See pages 14-15 for specific clearance requirements. Complete installation instructions are supplied with the heatshield. No other type of heatshield may be used.

Fresh Air Adaptor - 156408

Must be used with Rear Heatshield

Provision for outside air may be required by your local building codes.

The fresh air adaptor includes a 3 inch adaptor used to connect an air duct directly to the stove combustion chamber. The following additional materials will be required:

- A. The appropriate length of metallic flex pipe for a conduit of the outside air.
- B. A rain/weather resistant cap for the outside of the house.
- C. A rodent screen - that is no larger than 1/4”(6,4mm) mesh.

Follow the instructions provided with the kit.

Please be aware that provision of outside air to support combustion will not necessarily eliminate performance issues associated with negative pressure within the home or chimney system.

Stove-top Thermometer - 5002

You can use a magnetic stove-top thermometer in conjunction with the catalytic combustor monitor to help achieve optimal stove performance.

Stove Gloves, pair - 157363

Heavy duty, flame retardant, with full gauntlet.

Universal Gasket Kit - 157050

This kit includes all the gasket material and instructions required to maintain the seal integrity of your wood stove.

Replacement Catalyst -158735

Combustion Monitor - 226609

Standards

The Jøtul F 602 V3 solid fuel heater has been tested and listed to ANSI/UL 1482 - in the U.S. and CASN/ULC-S627 and CAN/ULC 628 - in Canada. Certified Safety Tests performed by Intertek Testing Services, Middleton, WI U.S.A.

Manufactured by
Jøtul North America, Inc.
55 Hutcherson Drive
Gorham, Maine 04038, U.S.A.

This heater meets the 2020 U.S. Environmental Protection Agency's emission limits for wood heaters manufactured after May 15, 2020.

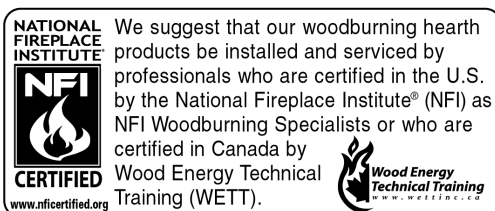
This manual describes the installation and operation of the Jøtul F 602 V3 catalytic equipped wood heater. This heater meets the 2020 U.S. Environmental Protection Agency's crib wood emission limits for wood heaters sold after May 15, 2020. Under specific test conditions, this heater has been shown to deliver heat at rates ranging from 5,994 to 23,415 Btu/hr.

Check Building Codes

Your city, town, county or province may require a building permit to install a solid fuel burning appliance.

In the U.S., the National Fire Protection Association's Code, NFPA 211, *Standards for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances*, or similar regulations, may apply to the installation of a solid fuel burning appliance in your area.

Always consult your local building inspector or authority having jurisdiction to determine what regulations apply in your area.



Combustion Specifications

Heat Output Range:¹ 5,994 to 23,415 BTU/hr. (2.0-7.3 kW)

Heating Capacity:² Up to 800 sq. ft.

Maximum Burn Time:² Up to 5 hours

EPA Efficiency:³ **HHV:** 76.7%* **LHV:** 82.9%

CO Emissions:⁴ 1.3 g/min.

Particulate Emissions:⁵ 1.4 g/hr.

Fuel: Up to 16" Logs (508 mm)

- ¹ **Heat Output Range** results are determined during specific emissions tests established by the EPA.
- ² **Heating Capacity and Maximum Burn Time** will vary depending on design of home, chimney, climate, wood type and operation.
- ³ **EPA Validated Efficiency:**
High Heat Value and Low Heat Value efficiencies are determined per the CSA B415.1-10 test method. The difference between the HHV and LHV is how the energy in the exhaust gas water vapor is accounted for.
LHV efficiency assumes all the water vapor in combustion gases was condensed and the heat from such was recovered and transferred to the dwelling. HHV calculations do not assume all water vapor is condensed, therefore the HHV value is less than the LHV value.
- ⁴ **Carbon Monoxide Emissions** rate results from Test Method CSA B415.1-10.
- ⁵ **Particulate Emissions** rate is obtained using EPA Test Method 28-R.

EPA Certified Emissions Tests performed by PFS-TECO, Portland, OR U.S.A.



Safety Notices

- **BURN SOLID, NATURAL WOOD FUEL ONLY. DO NOT BURN ANY OTHER FUEL.**
- **DO NOT USE CHEMICALS OR FLUIDS TO START A FIRE. DO NOT BURN GARBAGE OR FLAMMABLE FUELS.**
- **DO NOT USE A GRATE OR ELEVATE THE FIRE. BUILD THE FIRE DIRECTLY ON THE HEARTH.**
- **IF THIS ROOM HEATER IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTRUCTIONS IN THIS MANUAL. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR LOSS OF LIFE.**
- **CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.**
- **ANY EXISTING CHIMNEY SYSTEM MUST BE INSPECTED BEFORE INSTALLATION OF THIS APPLIANCE.**
- **DO NOT CONNECT THIS STOVE TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.**
- **EXTREMELY HOT WHILE IN OPERATION! KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY. CONTACT WILL CAUSE SKIN BURNS. USE A CHILD GUARD SCREEN TO PREVENT ACCIDENTAL CONTACT BY SMALL CHILDREN.**
- **INSTALL CO SMOKE DETECTORS IN THE LIVING AREA AND BEDROOMS OF YOUR HOME. TEST THEM REGULARLY AND INSTALL FRESH BATTERIES TWICE ANNUALLY.**

WHEN INSTALLED IN THE SAME ROOM AS THE STOVE, A SMOKE OR CARBON MONOXIDE DETECTOR SHOULD BE LOCATED AS FAR FROM THE STOVE AS POSSIBLE TO PREVENT THE ALARM SOUNDING WHEN ADDING FUEL.

- **Avoid creating a low pressure condition in the room where the stove is operating. Be aware that operation of an exhaust fan or clothes dryer can create a low pressure area and consequently promote flow reversal through the stove and chimney system. In some cases, the optional Outside Air Kit #154335 can be used to alleviate this condition. The chimney and building, however, always work together as a system - provision of outside air, directly or indirectly to an atmospherically vented appliance will not guarantee proper chimney performance. Consult your local Jøtul authorized dealer regarding specific installation/performance issues.**
- **Jøtul strongly recommends that this stove be installed by a professional solid fuel technician, or that you consult one if you do the work yourself. Also, consult your insurance company regarding any other specific requirements.**

NOTE: It is normal for a new, painted stove to emit odor and smoke during initial fires, depending upon temperatures over time. This is caused by the curing of high temperature paint and manufacturing materials. This condition can be alleviated by opening a window or door to provide additional ventilation. See Break-in Procedure, Sect. 5.6 for details.

See Sect. 5.0 of this manual for important information regarding the safe, proper, and most efficient operation of your stove.

Always follow the guidelines presented in this manual when installing, operating, and maintaining this appliance and make this manual available to anyone using or servicing the stove.

DO NOT OVERFIRE THIS HEATER.

THE MAXIMUM RECOMMENDED OPERATING TEMPERATURE OF THE COMBUSTOR IS 1600°F (870°C). DAMAGE CAN OCCUR TO THE COMBUSTOR IF IT EXCEEDS 1750°F (954°C) FOR EVEN BRIEF PERIODS OF TIME. WE ALSO RECOMMEND A STOVE TOP THERMOMETER PLACED TOWARD THE BACK CORNERS OF THE STOVE. OPTIMAL TEMPERATURES ARE BETWEEN 400 TO 600 DEGREES.

DO NOT INSTALL IN A TRANSPORTABLE BUILDING.

WARNING: DO NOT OVER-FIRE THIS HEATER. IF ANY PART OF THE STOVE OR CHIMNEY CONNECTOR GLOWS, WITH THE EXCEPTION OF THE COMBUSTOR, YOU ARE OVER-FIRING. A HOUSE FIRE OR SERIOUS DAMAGE TO THE STOVE OR CHIMNEY COULD RESULT. ATTEMPTS TO ACHIEVE HEAT OUTPUT RATES THAT EXCEED HEATER DESIGN SPECIFICATIONS CAN RESULT IN PERMANENT DAMAGE AND VOID YOUR WARRANTY ON THE STOVE AND ITS COMPONENTS.

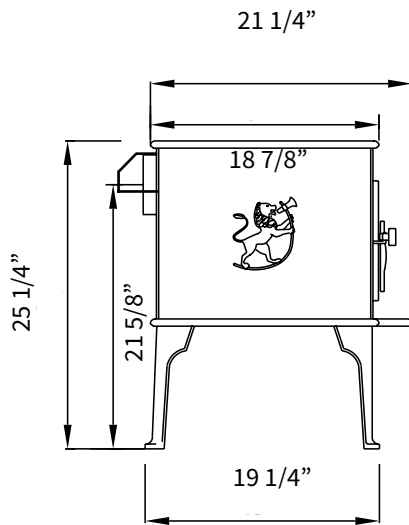
WARNING !

THIS WOOD HEATER HAS A MANUFACTURER-SET MINIMUM LOW BURN RATE THAT MUST NOT BE ALTERED. IT IS AGAINST FEDERAL REGULATIONS TO ALTER THIS SETTING OR OTHERWISE OPERATE THIS WOOD HEATER IN A MANNER INCONSISTENT WITH OPERATING INSTRUCTIONS IN THIS MANUAL.

1. Installation

If this solid fuel room heater is not properly installed, a house fire may result. For your safety, follow the installation directions. Use only specified components. The use of makeshift components MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR LOSS OF LIFE. Contact the local building or fire officials about restrictions and installation inspection requirements in your area.

Fig. 1.1



1.1 Assembly Before Installation

2.1 Inspect Contents

Inspect the stove for damage. Contact your dealer immediately if any damage is found. Do not install the stove if any damage is evident.

Contents:

- Door Knob Kit (Installed on Stove)
- Dripless Pipe Adaptor
- Smoke Outlet (Installed on Stove)
- Hardware Kit
- Bottom Heat Shield (Installed on Stove)
- Combustor Probe

2.2 Smoke Outlet Position

The Smoke Outlet may be installed in either a top-exit or rear-exit position. For Top Exit, use the pre-installed screws to secure the smoke outlet to the top plate.

For Rear Exit, first remove the screws and 10mm nuts that attach the rear cover plate to the back plate. Reach through the top outlet to access the nuts. Use these same fasteners to attach the outlet to the stove. Secure the cover plate to the top plate using the pre-installed screws.

2.3 Dripless Pipe Adaptor Installation

The Dripless Pipe Adaptor is to be installed in the smoke outlet. Secure adaptor to outlet using screws provided.

- INSTALL ACCESSORIES BEFORE LOCATING THE STOVE IN THE FINAL POSITION. Use the instructions provided with those kits.

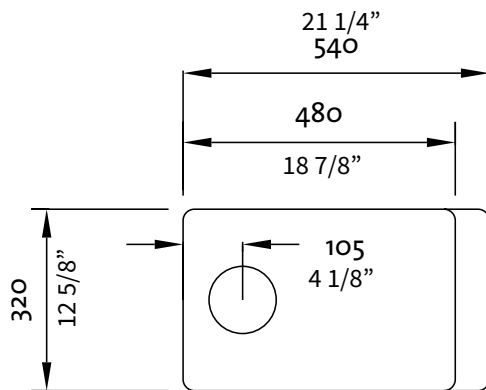


Fig. 1.2 Dripless Adaptor Installation

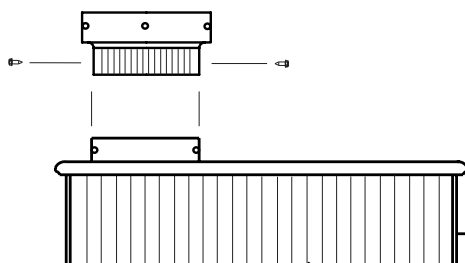
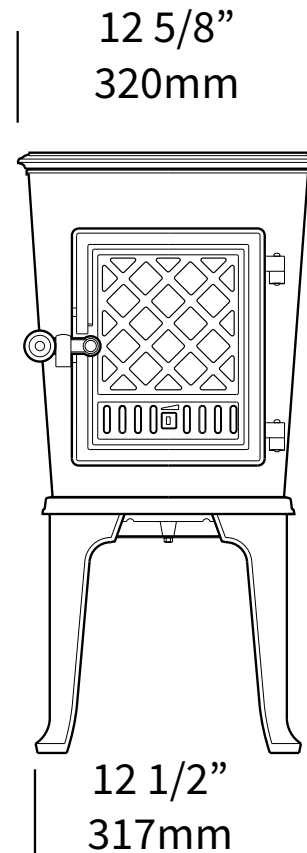


Fig. 1.3



1.4 Rear Heatshield HS-50 Installation

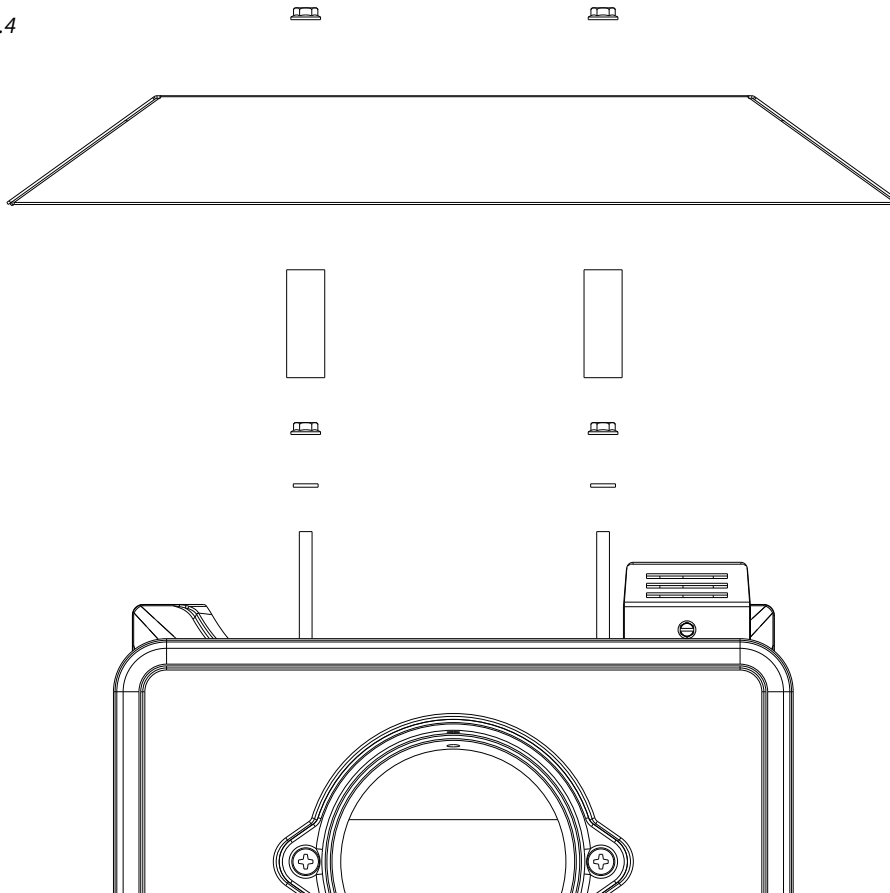
The F 602 V3 Heat Shield can only be used in the top exit mode. In order to install the heat shield, the flue collar must first be moved from the rear to the top, and the outlet cover moved from the top to the rear.

Kit Contents:

- Rear Heat Shield
- M6 x 80 bolts (2)
- M6 nuts (2)
- Washers (2)
- 2" Spacers (2)

1. Remove the two smoke outlet cover screws and remove the cover from the top of the stove.
2. Reaching through the outlet opening, use the 10 mm wrench and screwdriver to remove the flue collar nuts and screws. Keep the nuts for later use.
3. Install the flue collar on the top of the stove using the screws previously removed.
4. Place the outlet cover on the back of the stove and insert the two M6 x 60 bolts from this kit through the back plate from the inside of the stove. Secure the cover using the two washers and nuts from this kit.
5. Install the two spacers over the M6 x 80 screws. Secure the heat shield to the bolts using the two nuts previously removed in Step 2.

Fig. 1.4



1.5 Fresh Air Adaptor 156408

Installation

*Note: Requires Rear Heat Shield HS-50

Kit Contents:

- #8 x 1/2" Sheet Metal Screws (4)
- Fresh Air Adaptor Valve Assembly

Materials Required:

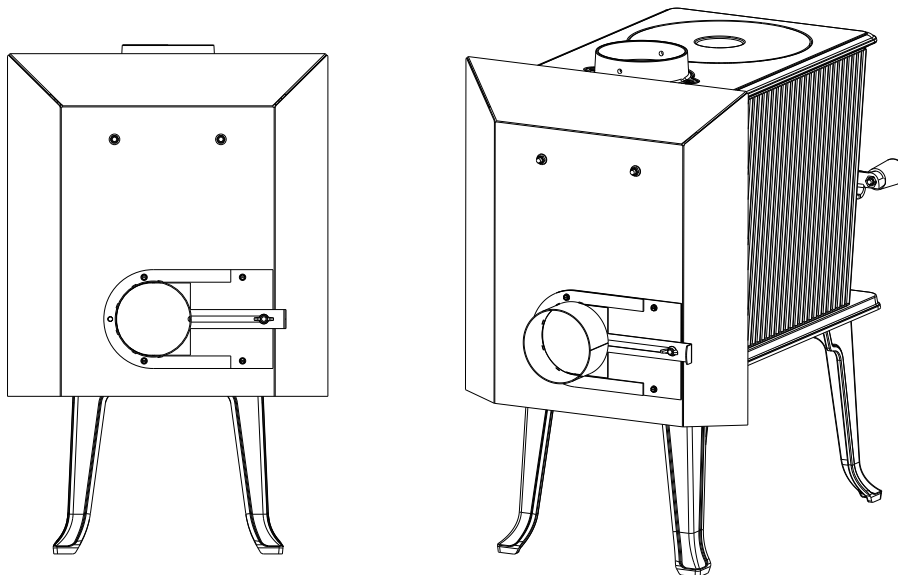
- 4" dia. flexible metallic conduit for fresh air
- Weather resistant wall termination cap
- 1/4" mesh rodent screen
- 3 self-tapping sheet metal screws
- or 4" dia. hose clamp

Tools Required to install all of the above:

- 1/4 in. socket driver
- spade screwdriver
- power drill
- 1/8" dia. drill bit
- 4" dia. sheet metal hole saw

The adaptor valve assembly simply attaches to the back of the heat shield using the sheet metal screws provided. Orient the valve assembly as shown in the illustration. Heat shields incorporate the necessary duct and fastener holes. Twist the air duct knock-out to remove it.

Fig. 1.5



2. Chimney and Chimney Connector Requirements

2.1 Chimney Connector

The chimney connector is a single walled pipe used to connect the stove to the chimney. For use with the Jøtul F 602 V3, the chimney connector **must** be 6" (152mm) in diameter, with a minimum thickness of 24 gauge black steel. Attach the flue collar to the chimney connection using 2 self-drilling screws found in the miscellaneous kit.

- Aluminum and Galvanized steel pipe is not acceptable for use with the Jøtul F 602 V3. These materials cannot withstand the extreme temperatures of a wood fire and can give off toxic fumes when heated.
- Do not use the connector pipe as a chimney.**
- Each chimney connector or stove pipe section must be installed to the stove flue collar and to each other with the male (crimped) end toward the stove. **See figure 2.1.** This prevents any amount of condensed or liquid creosote from running down the outside of the pipe or the stove top.
- All joints must be secured with three sheet metal screws.
- For the best performance the chimney connector should be as short and direct as possible, with no more than two 90° elbows.
- The maximum horizontal run is 36" (915mm) and a recommended total length of stove pipe should not exceed 10 feet.**
- Horizontal runs must slope upward 1/4" (6,35mm) per foot toward the chimney.
- Where passage through a wall or partition of combustible construction is desired, the installation must conform with NFPA 211 and is also addressed in this manual.

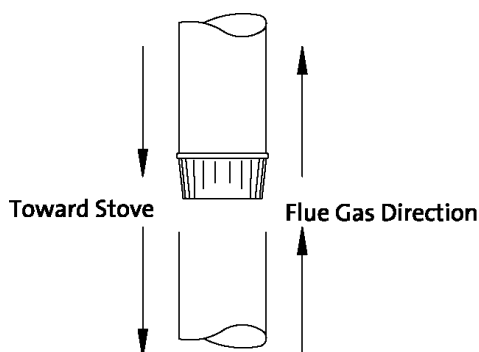


Fig. 2.1. Chimney connector assembly.

- No part of the chimney connector may pass through an attic or roof space, closet or other concealed space, or through a floor or ceiling.
- All sections of the chimney connectors must be accessible for cleaning.
- Where passage through a wall or partition of combustible construction is desired, the installation must conform with NFPA 211 and is also addressed in this manual.
- Do not connect this unit to a chimney flue servicing another appliance.**

2.2 General Chimney Requirements

Canada Only: This fireplace insert must be installed with a continuous chimney liner of 6" diameter extending from the fireplace insert to the top of the chimney. The chimney liner must conform to the Class 3 requirements of CAN/ULC-S635, Standard for Lining Systems for Existing Masonry or Factory-Built Chimneys and Vents, or to the requirements of CAN/ULC-S640, Standard for Lining Systems for New Masonry Chimneys.

The F 602 V3 is approved for use with:

- A code-approved masonry chimney and flue liner.
- A prefabricated chimney complying with the requirements for Type HT (2100°F) chimneys per UL 103 .

An existing chimney system must pass a UL 1482 Level II inspection conducted by a qualified technician or building official.

The chimney flue size should not be less than the cross-sectional area of the stove flue collar, and not more than three times greater than the cross-sectional area of the flue collar.

NOTE: Consult your local code authority to determine what building and fire codes apply in your area before installing your new stove. Your local inspector has final authority in approving your installation.

Chimney Considerations

When choosing a chimney type and location in the house, keep this in mind: it is the chimney that makes the stove work, **not** the stove that makes the chimney work. The chimney allows the temperature difference between inside and outside air to create suction, called “draft”, which pulls air through the stove necessary to support combustion. Since draft is the force which moves air from the stove up through the chimney, its strength is critical to proper stove function. Besides air pressure differential, draft strength is affected other factors including:

- chimney condition and height
- surrounding construction, other buildings
- * nearby trees, local geography
- wind conditions and climate

Any of the preceding conditions can adversely affect performance. Weak or erratic draft can cause “back puffing”- a condition when smoke leaks into the room through the stove or chimney connector joints. Poor draft will also make it difficult to maintain a steady, controlled burn and lead to creosote accumulation in the chimney or combustor.

A short, masonry chimney on the exterior of a house will promote poor performance. This is because it will be difficult to initiate and maintain temperatures warm enough to sustain adequate draft. In extremely cold northern areas, it may be necessary to reline the chimney or extend its height to help improve performance. Conversely, a tall, masonry chimney inside the house will warm more quickly and retain heat longer.

On the other hand, overly strong draft can also cause a different set of issues such as excessive temperatures and short burn times

Ideally, whether masonry or prefabricated, the chimney should be centrally located inside the house where it will be least affected by exterior conditions and the stove’s radiant heat can be most evenly dispersed.

The following guidelines give the necessary chimney requirements based on the national code, ANSI-NFPA 211. However, many local codes differ from the national code to take into account climate, altitude, or other factors.

Any chimney construction that penetrates the air barrier of a wall or ceiling/roof to the outside must be sealed in accordance to local building codes.

2.3 Masonry Chimneys

A masonry chimney must conform to the following guidelines:

- The chimney flue size should not be less than the cross-sectional area of the stove flue collar.
- The cross-sectional area of the flue of a chimney with no walls exposed to the outside below the roofline shall not be more than three times the cross-sectional area of the stove flue collar.
- The cross-sectional area of a chimney flue having one or more walls exposed to the outside below the roofline shall not be more than two times the cross-sectional area of the stove flue collar.
- Larger chimney flues should be relined with a listed or code approved liner.
- The masonry chimney must have a fireclay liner or equivalent, with a minimum thickness of 5/8” (16mm) and must be installed with refractory mortar. There must be at least 1/4” (6,35mm) air space between the flue liner and chimney wall.
- The fireclay flue liner must have a nominal size of 8” X 8”, and should not be larger than 8” X 12”. If a round fireclay liner is to be used it must have a minimum inside diameter of 6” (157mm) and not larger than 8” (208mm) in diameter.
- If a chimney with larger dimensions is to be used, it should be relined with an appropriate liner that is code approved.
- The masonry wall of the chimney, if brick or modular block, must be a minimum of 4”(106mm) nominal thickness. A mountain or rubble stone wall must be at least 12” (310mm) thick.
- A newly-built chimney must conform to local codes and in their absence must recognize national regulations. When using an existing chimney, it must be inspected by a licensed professional chimney sweep, fire official, or code officer, to ensure that the chimney is in proper working order.
- No other appliance can be vented into the same flue.
- An airtight clean-out door should be located at the base of the chimney.

This stove shall not be installed in a factory-built fireplace.

2.4 Prefabricated Chimneys

A prefabricated metal chimney must be tested and listed for use with solid fuel burning appliances to High Temperature (HT) Chimney Standard UL 103 for the U.S and ULC S629 in Canada.

The manufacturer's installation instructions must be followed precisely. Always maintain the proper clearance to combustibles as established by the pipe manufacturer. This clearance is usually a minimum of 2" (56mm), although it may vary by manufacturer or for certain chimney components.

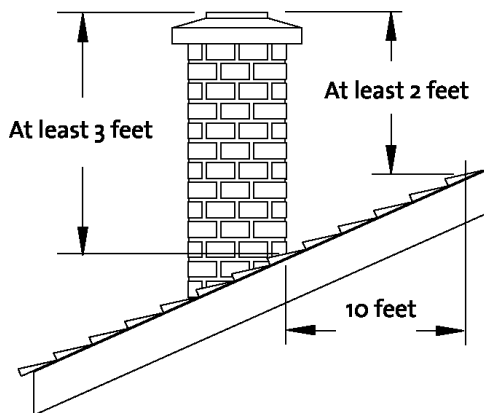
2.5 Chimney Height

The minimum chimney height is 15 feet (4.57 m). The chimney must also be at least 3 feet higher than the highest point where it passes through the roof and at least 2 feet higher than the highest part of the roof or structure that is within 10 feet of the chimney, measured horizontally. **See figure 2.2.**

Chimneys shorter than 14 feet may not provide adequate draft. This could result in smoke spilling into the room from the stove when loading the stove, or when the door is open. In addition, inadequate draft can cause back puffing, which is a build up of gases inside the firebox.

Other times, chimney height can create excessive draft which can cause high stove temperatures and short burn times. Excessive drafts can be corrected by installing a butterfly damper. If you suspect you have a draft problem, consult your dealer.

Fig. 2.2. Chimney height; 3/2/10 Rule.



2.6 Wall Pass-throughs

When your installation unavoidably requires the chimney connector to pass through a combustible wall to reach the chimney, always consult your local building officials, and be sure any materials to be used have been tested and listed for wall pass-throughs.

In the U.S:

The National Fire Protection Association's publication, NFPA 211, Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances permits four methods for passing through a combustible wall. Before proceeding with any method be sure to consult with your local building officials to discuss any local code requirements.

Common Method:

- When passing through a combustible wall to a masonry chimney this method requires the removal of all combustible materials from at least 12" (310mm) around the chimney connectors proposed location. With a 6" (157mm) round liner the minimum area required would be 31" x 31" (792x792mm) square.
- The space is then filled with at least 12" (310mm) of brick around a fireclay liner. Remember, the liner must be ASTM C35 or equivalent, with a minimum wall thickness of 5/8" (16mm).
- It is important to remember to locate the pass-through at least 18" (457mm) from the ceiling for proper clearance to combustibles.
- It will be necessary to cut wall studs, install headers, and construct a sill frame to maintain the proper dimensions and to support the weight of the brick.
- The bricks must be solid brick with a minimum of 3 1/4" (83mm) thick 4" (106mm) nominal).
- Refractory mortar must be used at the junction of the chimney and the pass-through liner. The pass-through liner must not penetrate the chimney liner beyond the inner surface of the chimney liner. Use extreme care when constructing the hole in the chimney liner, the tiles can shatter easily. **See figure 2.3.**

Consult your local building inspector and authorized Jøtul Dealer for other approved wall pass-through methods.

3. Connecting to the Chimney

3.1 Masonry Chimney Thimble

In Canada:

The installation must conform to CAN/CSA-B365, Installation Code for Solid Fuel Burning Appliances and Equipment. Before proceeding be sure to consult your local building inspector.

Common Method:

This method requires the removal of all combustible materials from at least 18" around the chimney connector's proposed location. A 6" round liner requires a minimum opening 43" x 43" square.

Locate the pass-through at least 18" from combustible ceiling materials.

The space that is cleared of combustible materials must remain empty. Sheet metal panels can be used to cover the area. However, when using a panel on both sides of the wall, each cover must be installed on noncombustible spacers at least 1" from the wall. If one panel of sheet metal is to be used it may be installed flush to the wall. See section 5.3.1 and 5.3.2 of CSA - B365. Consult your local building inspector, authorized Jøtul Dealer, NFPA 211 in the U.S. or CSA-B635 in Canada for other approved wall pass-through methods.

When connecting the stove to a masonry chimney through a "thimble" (the opening through the chimney wall to the flue), the thimble must be lined with ceramic tile or metal and be securely cemented in place. See fig. 2.3.

- The chimney connector/stove pipe must slide completely inside the thimble to the inner surface or the flue liner. A slip-connector may be used to permit adjustability and ease maintenance / cleaning access. See fig. 3.1.
- The connector pipe or thimble sleeve must not protrude into the flue liner where it could restrict the free flow of exhaust gas and cause poor stove performance.
- The chimney connector should be sealed at the thimble with refractory cement and each connector joint must be secured with three sheet metal screws.
- **Do not connect this stove to a chimney flue servicing another appliance of any kind.**

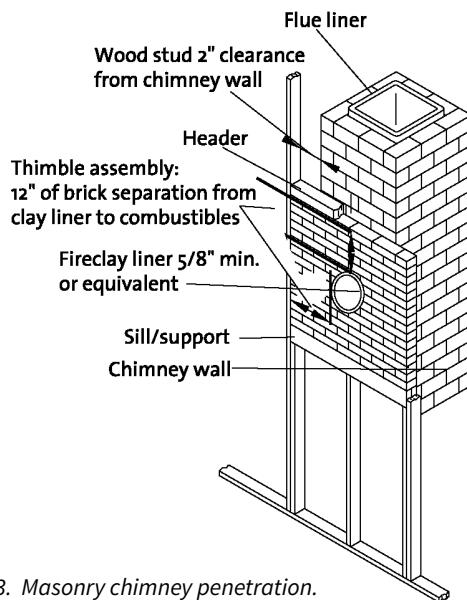
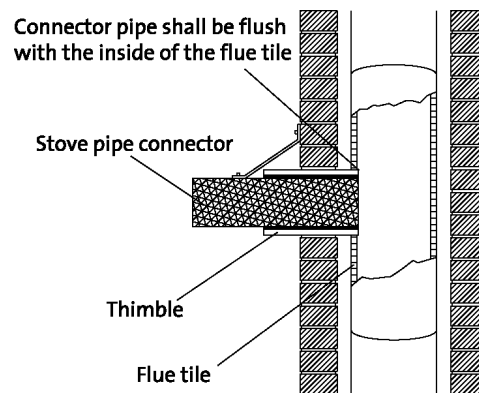


Fig. 2.3. Masonry chimney penetration.

Fig.3.1. Chimney thimble components.



3.2 Hearthmount Into a Masonry Fireplace

Consult your local building inspector for codes on fireplace installation. The Jøtul F 602 V3 has a rear exit flue collar height of 21 5/8" (550 mm) when installed with standard legs.

- The NFPA 211 standard (12.4.5.1) requires that **a masonry flue serving a wood-burning appliance must be sealed off from room air**. This can be accomplished by two methods:
 - 1) Replace the fireplace damper with a fixed steel plate through which the connector pipe must extend from the stove to the chimney flue tile. See figure 3.2. Alternatively, the flue may be sealed off by installing a non-combustible plate at the fireplace opening. In either case, the block-off plate and connector pass-through must be sealed using high-temperature or other appropriate sealant. Jøtul recommends a block-off plate installed in any fireplace damper area for improved heat efficiency.
 - 2) Install a full, listed chimney liner from the stove to a direct connection at a sealed chimney cap. Your Jøtul dealer can recommend an approved system.
- See Section 2.3 on page 7 for cross-sectional flue size requirements related to interior vs exterior chimneys.
- If the chimney liner is too large to accommodate the stove, a code-approved relining system must be installed to resize the flue.
- The fireplace installation must also conform to the tested clearances to surrounding trim and mantels. See clearance specifications on pages 14-15. In addition, a fireplace installation must also comply with the floor protection guidelines specified on page 11.

3.3 Prefabricated Chimneys

The Jøtul F 602 V3 may be connected to a prefabricated metal chimney following the pipe manufacture's instructions. Use all required components. Most manufacturers offer an adaptor that attaches to the bottom section of the metal chimney and permits the connector pipe to be secured to it using three sheet metal screws. See figure 3.3.

Fig. 3.3. Prefabricated chimney components.

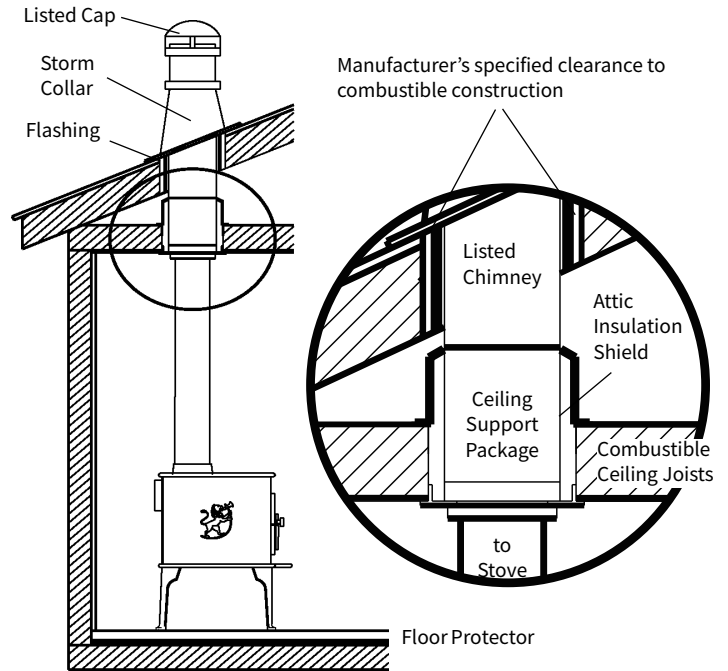
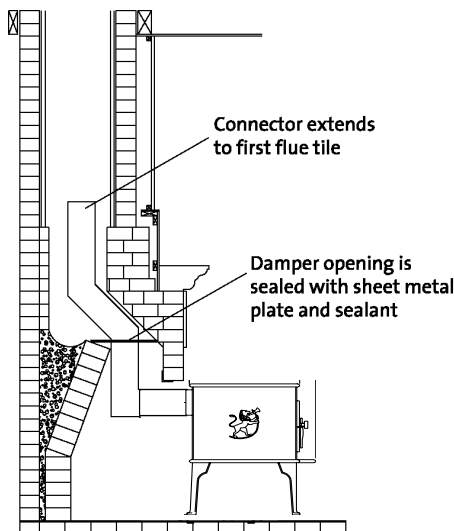


Fig. 3.2. Fireplace chimney construction.



DO NOT INSTALL IN ANY FIREPLACE.
The F 602 V3 may be vented through a masonry fireplace as described above but the stove must be installed IN FRONT of the fireplace opening.

4. Clearances to Combustibles

4.1 Floor Protection Requirements

- * The supplied bottom heat shield must be installed on the stove.
- Floor protection under the stove must be composed of a type I continuous, non-combustible materials for protection against sparks and embers as required in NFPA 211.
- * Individual sections of floor protection must be mortared or otherwise sealed together to prevent spark penetration to combustible floor materials. Any carpeting must be removed from under the floor protection.

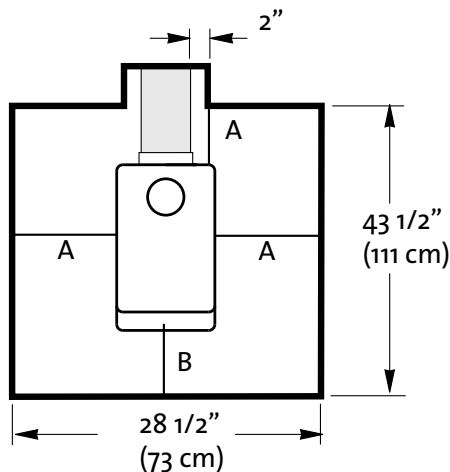
In the U.S.:

The hearth protection surface must extend continuously in front of the stove:

- A minimum of **16"**.
- A minimum of **8"** on each side (measured from the opening of the front door).

This will result in a minimum floor protection of **28 1/2"W X 43 1/2"D**. See figure 4.1.

Fig. 4.1. F 602 V3 Hearth Dimensions USA. A is 6" B is 16"



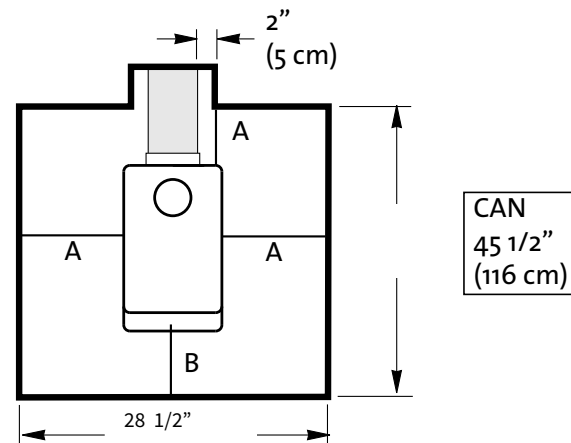
In Canada:

The hearth protection surface must extend continuously in front of the stove:

- A minimum of **18" (457mm)**
- A minimum of **8" (200mm)** on the side and back of the stove (measured from side and back panels).

This will result in a minimum floor protection of **28 1/2"W X 45 1/2"D**. See figure 4.2.

Fig. 4.2. F 602 V3 Hearth Dimensions Canada. A is 8" B is 16"



For a rear vent installation, the floor protection must also extend under the stove pipe a minimum of **2" (50mm)** beyond either side of the pipe in both the U.S. and Canada. Figs. 4.1 and 4.2.

4.2 Clearances to Walls and Ceilings

The following clearances have been tested to UL and ULC standards and are the minimum clearances specifically established for the F 602 V3.

The following diagrams give the required clearances you must maintain when installing the F 602 V3 near combustible surfaces. **See pages 14-15.**

A combustible surface is anything that can burn (i.e. sheet rock, wall paper, wood, fabrics etc.). These surfaces are not limited to those that are visible and also include materials that are behind non-combustible materials.

If you are not sure of the combustible nature of a material, consult your local fire officials. Contact your local building officials about restrictions and installation requirements in your area.

“Fire Resistant” materials are considered combustible; they are difficult to ignite, but will burn. “Fire-rated” sheet rock is also considered combustible.

Ventilation and air circulation within the clearance space must be maintained. **DO NOT BLOCK OFF AIRFLOW AROUND THE CLEARANCE SPACE!**

4.3 Using Shields to Reduce Clearances

Pipe shields: When using listed pipe shields to reduce the connector clearance to combustibles, it must start 1” (25,4mm) above the lowest exposed point of the connect pipe and extend vertically a minimum of 25” (635mm) above the top surface of the stove.

Double wall pipe: Listed double wall pipe is an acceptable alternative to connector pipe heatshields.

Wall-Mounted Protection: When reducing clearances through the use of wall mounted protection:

Refer to NFPA 211, Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances, for acceptable materials, proper sizing and construction guidelines.

Jøtul F 602 V3 Rear Heatshield Kit HS-50

This shield is specifically approved for use to reduce clearances on this appliance only. No other heat shield may be used.

See pages 14-15 for complete clearance specifications and diagrams.

NOTE: Accessories approved for clearance reduction have been developed by many manufacturers. Be sure that any accessory you choose has been tested and listed by an independent laboratory and carries the laboratory’s testing mark. Follow all of the manufacturer’s instructions.

Always contact your local building inspector or fire officials about restriction and requirements in your area. Your local officials have final authority for installation approval.

4.4 Alcove Installation

This appliance may be installed in an alcove provided: (See figures 4.4 and 4.5.)

1. The stove must be installed with listed, double-wall pipe.
2. In a protected alcove installation both side walls and rear wall must be protected per NFPA 211. The wall protection must be elevated 1" (24,5mm) from the floor and at least 1" (24,5mm) off the combustible wall to allow for cooling air-flow.
3. The height of the wall protection including the bottom air space must be 48" (1219mm).
4. Clearance specifications are designated between the stove plates and the combustible wall surface.
5. Hearth protection material must consist of: Type 1 hearth protection / ember protection as required in NFPA 211.
6. Minimum ceiling height in an unprotected installation, from the floor is 60". The minimum ceiling height off the top of the stove in a *protected* ceiling installation is 15" (380mm).

Fig. 4.4. Alcove unprotected wall clearances.

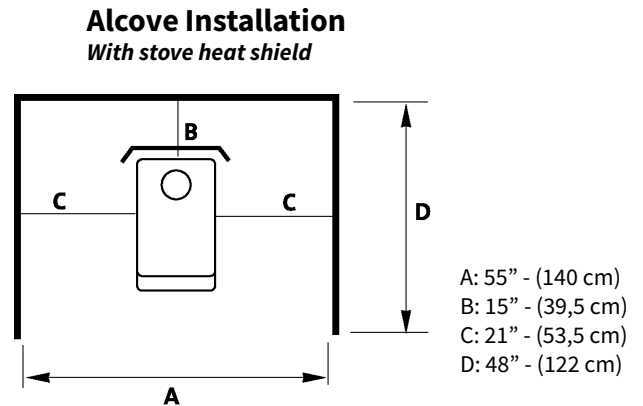


Fig. 4.5. Alcove protected wall clearances are designated between the stove surfaces and the combustible wall surface.

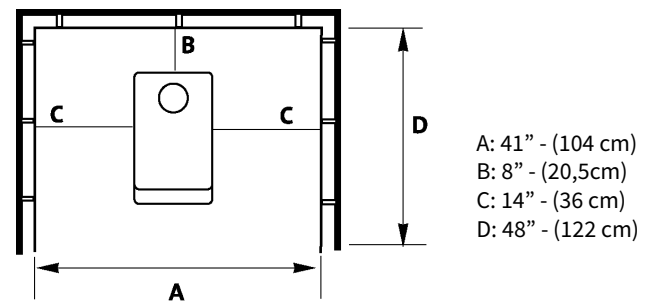


Fig. 4.3 Alcove with wall protection

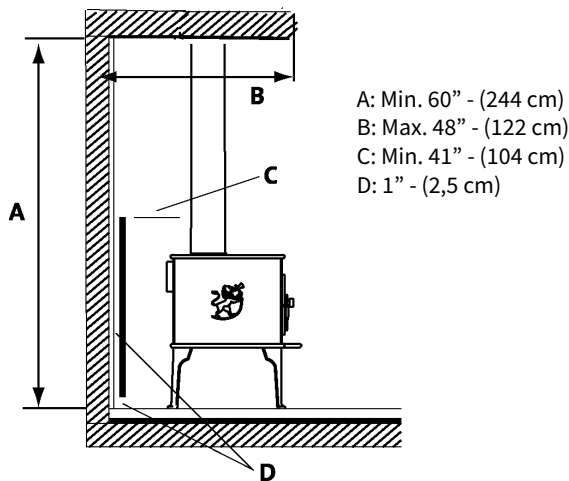
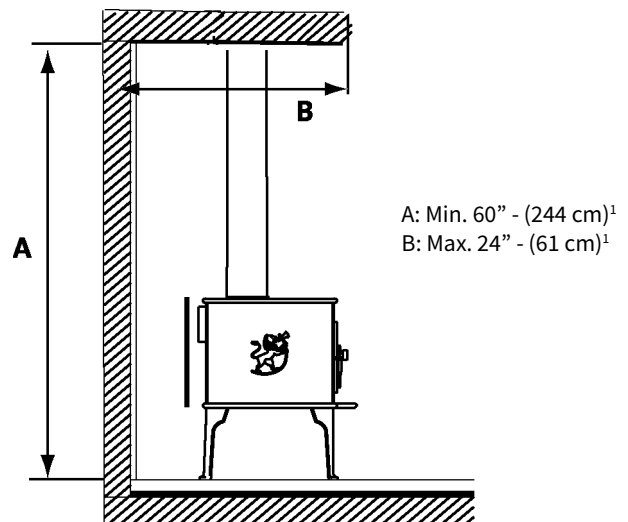


Fig. 4.6. Alcove with rear heat shield



**Stove clearances
Top vent/vertical**

Unprotected surfaces

Protected surfaces (NFPA 211)

	<u>Side</u>	<u>Rear</u>	<u>Corner</u>	<u>Side</u>	<u>Rear</u>	<u>Corner</u>
Single wall pipe W/out rear heatshield	21" 535mm	13.5" 345mm	13" 330mm	13" 330mm	11" 280mm	9" 230mm
Single wall pipe With rear heatshield	21" 535mm	11" 280mm	11" 280mm	13" 330mm	11" 280mm	9" 230mm
Shielded single wall pipe With rear heatshield	21" 535mm	9" 230mm	9" 230mm	13" 330mm	8" 205mm	8" 205mm
Double wall pipe With rear heatshield	24" 610mm	9" 230mm	9" 230mm	13" 330mm	8" 205mm	8" 205mm
Double wall pipe W/out rear heatshield	24" 610mm	15" 380mm	15" 380mm	12" 305mm	8" 205mm	8" 205mm

Minimum alcove dimensions:

	Unprotected surface Vertical venting. Assumes top exit:	Protected surface (NFPA 211) Vertical venting Assumes top exit:
Minimum alcove width	55" (1400mm)	41" (1040 mm)
Maximum alcove depth	48" (1220mm)	48" (1220 mm)
Height above the top of the stove	35" (889mm)	35" (889 mm)

Vertical Connector Pipe (X)

**Unprotected surface
Vertical installation**

**Protected surface (NFPA 211)
Vertical installation**

Single wall pipe	14.75"* 375mm	6" 150mm
Double wall pipe	pipe mfrg.listing	pipe mfrg.listing

* A reduction in stove clearance as a result of shielding will also result in a proportional reduction in connector pipe clearance.

Horizontal Connector Pipe (Y)

**Unprotected surface
Horizontal installation**

**Protected surface (NFPA 211)
Horizontal installation**

Single wall pipe	18" 460mm	9" 230mm
Double wall pipe	pipe mfrg.listing	pipe mfrg.listing

See figure 4.15 pg 17 for connector pipe clearance diagram.

Clearance to Adjacent Combustibles

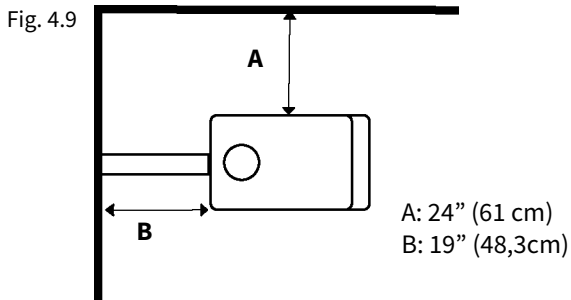
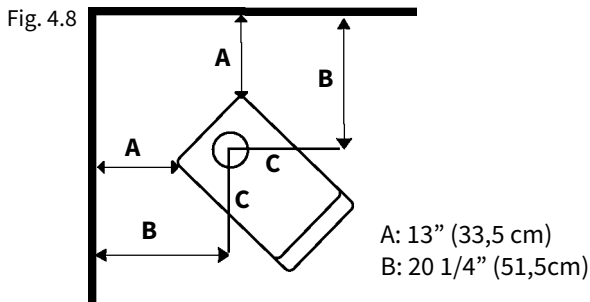
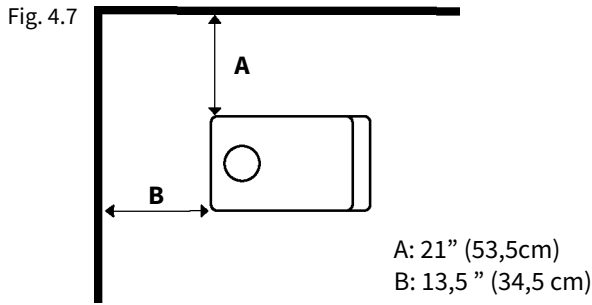


Fig. 4.10 **Rear Heat Shield to reduce clearance**
Single wall pipe, top exit only

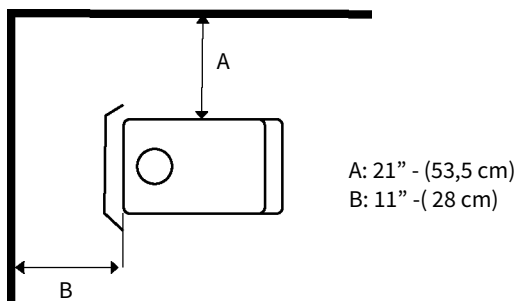


Fig. 4.11 **Parallel installation with wall shield**

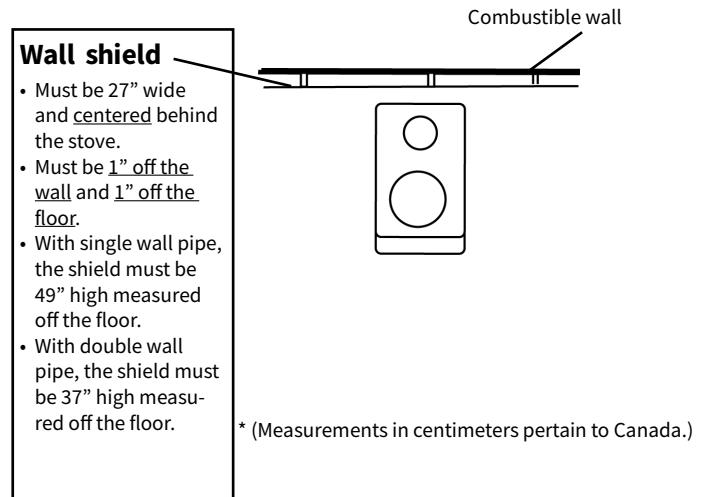


Fig. 4.12 **Parallel installation in a corner with wall shield**

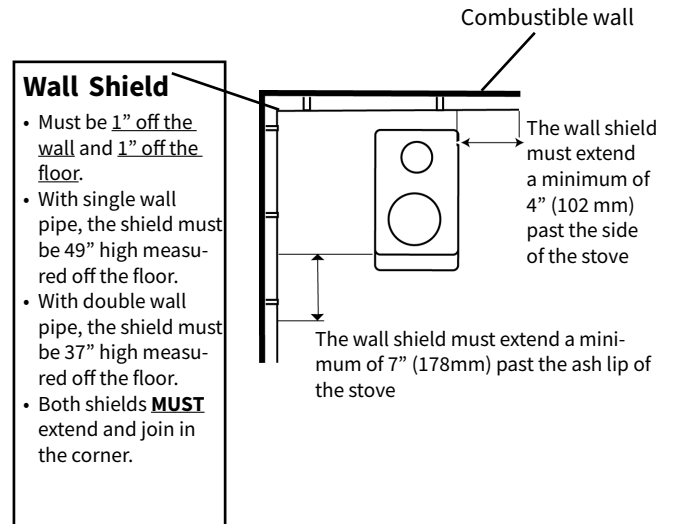
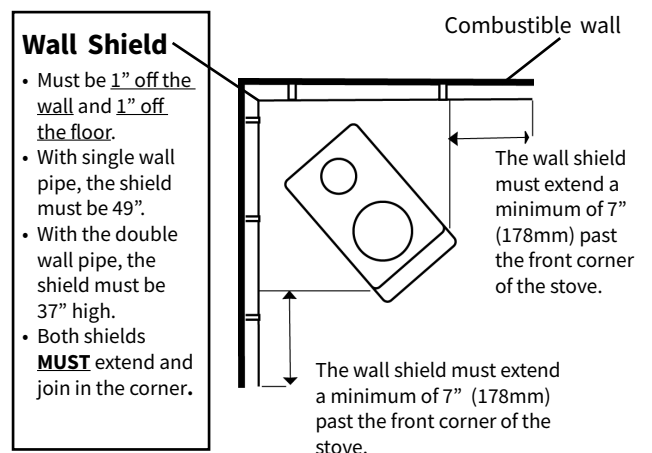


Fig. 4.13 **Corner installation with wall shield**



5. Operation

Please read the following section completely before building a fire in your new Jøtul F 602 V3.

DO NOT OVERFIRE THIS HEATER.
THE MAXIMUM RECOMMENDED OPERATING TEMPERATURE OF THE COMBUSTOR IS 1600°F (870°C). DAMAGE CAN OCCUR TO THE COMBUSTOR IF IT EXCEEDS 1750°F (954°C) FOR EVEN BRIEF PERIODS OF TIME.

5.1 Combustion Efficiency

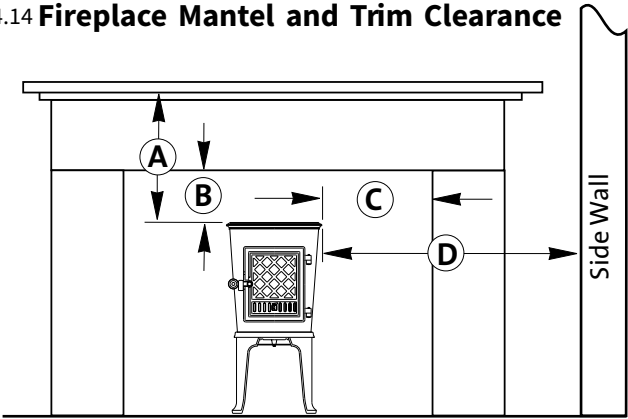
The Jøtul F 602 V3 has an EPA test **High Heating Value (HHV) efficiency rate of 76%**. There are, however, aspects of efficiency that you should be aware of in order to get the most from your stove. Operation habits and fuel moisture can have a significant effect on efficiency. Poorly seasoned wood having a higher than optimum moisture content, can reduce the amount of energy transferred to the living area as a result of the energy expended to evaporate the excess fuel moisture in order for the wood to burn. Operational habits - such as not building a robust kindling fire to readily ignite the larger fuel pieces - can result in an inefficient, smoldering fire. Additionally, most modern wood heaters' optimum performance and efficiency are at the medium to medium-low burn rates.

The location of the stove can also have a significant effect on heating efficiency, primarily in regard to distribution of the heat. For example, a wood heater centrally located in an open living area, will likely provide better circulation of heat than will a stove located in a room adjacent to the larger living area.

WARNING: OPERATE THIS APPLIANCE ONLY WITH THE DOOR FULLY CLOSED. OPERATION WITH THE DOOR LEFT PARTIALLY OPEN MAY CAUSE OVERFIRING. Also, if doors are left partially open, combustion gas and flame may be drawn out of the stove, creating risks from both fire and smoke.

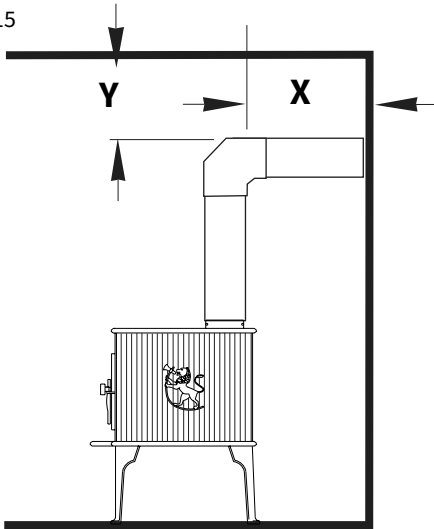
WARNING: Door glass is fragile. Take care to not strike the glass or slam the door during operation.

Fig. 4.14 Fireplace Mantel and Trim Clearance



- A: Unit to 8" Wide Mantel - 30 in. (76 cm)
- B: Unit to Top Trim - 21 in. (53.5 cm)
- C: Unit to Side Trim - 18 in. (46 cm)
- D: Unit to Side Wall - 24 in. (61 cm)

Fig. 4.15



5.2 Minimize Carbon Monoxide Emissions

Testing the F 602 V3 to CSA B415.1-10 resulted in a carbon monoxide emission rate of **1.3 grams per minute**. There are properties related to CO generation that you should be aware of. Most means of combustion produce CO, including wood fire. You can greatly reduce CO levels by maintaining a well-established fire and avoiding operation that produces a smouldering, smoky fire. We highly recommend that a CO monitor (detector) be installed in the same room as the stove. The monitor should be located as far away as possible from the stove to avoid alerts when the doors are opened.

5.3 Wood Fuel and Performance

Use dry wood.

The F 602 V3 is designed to burn natural wood only.

Higher efficiencies and lower emissions generally result when burning air-dried, seasoned hardwoods, as opposed to softwoods, green or freshly cut hardwoods. Wood that has been air-dried for a period of 6 to 14 months will provide the cleanest, most efficient heat. Wood seasoned more than 2 years will burn too quickly to take advantage of the stove's low end efficiency strength.

A seasoned log will have many check marks (cracks) through the ends and be lighter than an unseasoned log which will show few or no check marks.

We recommend using a moisture meter that incorporates probes to determine the moisture content of your wood. Meters are available at your dealer or local hardware store. For purposes of home heating, your fuel should have a moisture content between 12 - 20% on the meter gauge. Wood with higher moisture content will burn, however, very inefficiently. Most of its heat value will be lost through evaporation, driving water out of the wood. Worse, that moisture will condense as creosote in the relatively cool chimney flue, increasing the potential for a chimney fire and weak draft strength. ***Use of unseasoned wood defeats the purpose of any modern wood-burning stove.*** Store your wood in a dry location outside of the combustible clearance area stated previously in this manual.

BURN UNTREATED WOOD ONLY. DO NOT BURN:

- Coal;
- Garbage;
- Synthetic fuel or logs;
- Material containing rubber, including tires;
- Material containing plastics;
- Waste petroleum products, asphalt products, paints, paint thinners or solvents;
- Materials containing asbestos;
- Construction or demolition debris;
- Railroad ties or pressure-treated wood;
- Manure or animal remains;
- Lawn clippings or yard waste;
- Salt water driftwood or other previously salt-water saturated materials;
- Unseasoned wood;
- Colored paper, or
- Paper products, junk mail, cardboard, plywood, or particle board. *(The prohibition against burning these materials does not include the use of fire starters made from paper, cardboard, saw dust, wax or similar substances for the purpose of starting a fire.)*
- **Burning of any of the materials listed above can result in the release of toxic fumes including carbon monoxide, cause smoke, or render the heater ineffective. Carbon monoxide poisoning can cause headache, dizziness, loss of consciousness and death.**
- **Burning any of the materials listed above can damage the catalytic combustor and void your warranty.**
- **IT IS AGAINST FEDERAL REGULATIONS TO OPERATE THIS WOOD HEATER IF THE CATALYTIC ELEMENT IS DEACTIVATED OR REMOVED.**
- **NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR "FRESHEN-UP" THE FIRE. ALWAYS KEEP SUCH LIQUIDS AWAY FROM THE HEATER AT ALL TIMES.**
- **NOTE: Prevent logs from resting directly on the glass panel. Logs should be spaced off of the glass enough to promote unrestricted air flow within the firebox.**

WARNING: Do not operate with broken glass.

WARNING: DO NOT OVER-FIRE THIS HEATER. IF ANY PART OF THE STOVE OR CHIMNEY CONNECTOR GLOWS, WITH THE EXCEPTION OF THE COMBUSTOR, YOU ARE OVER-FIRING. A HOUSE FIRE OR SERIOUS DAMAGE TO THE STOVE OR CHIMNEY COULD RESULT. ATTEMPTS TO ACHIEVE HEAT OUTPUT RATES THAT EXCEED HEATER DESIGN SPECIFICATIONS CAN RESULT IN PERMANENT DAMAGE AND VOID YOUR WARRANTY ON THE STOVE AND ITS COMPONENTS.

5.4 F 602 V3 Control Functions

The F 602 V3 is designed to support efficient combustion and optimal heat transfer by directing air to the fire through two separate channels; **Primary and Secondary**. See figure 5.1.

Primary Air is manually regulated by a sliding valve located in the load door under the glass pane which remains slightly open. The valve position controls the volume of primary air entering the firebox and thereby affects fire intensity, heat output and burn time. Primary air is directed to the main body of the fire through that air inlet.

Secondary air is automatically regulated to promote combustion of volatile gas that would otherwise be exhausted to the atmosphere unburned. The secondary air inlet is located at the back of the stove where a temperature-sensitive bimetal coil continuously varies the volume of air introduced to fire. This air is preheated as it passes over the back and top of the firebox, directed to the secondary combustion baffle and delivered to the catalytic combustor.

Fig. 5.2. Primary air lever settings

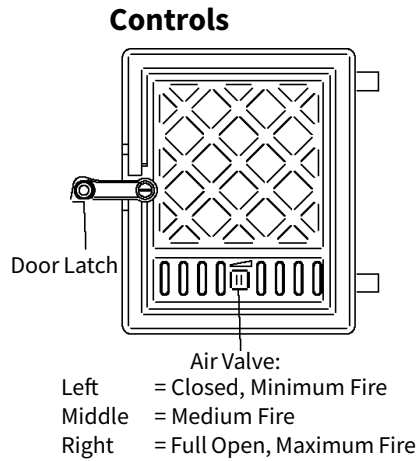


Fig. 5.3. Stove-top Thermometer locations

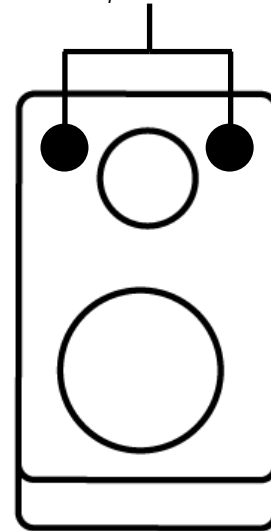
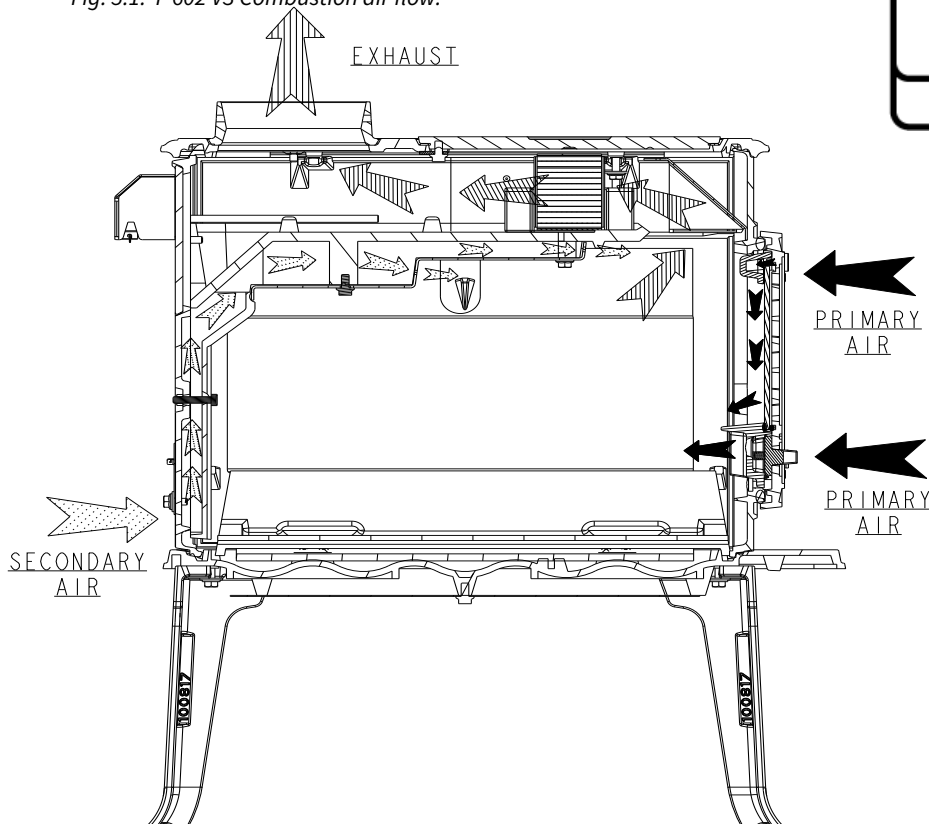


Fig. 5.1. F 602 V3 Combustion air flow.



The combustor maintains the high temperatures necessary to burn volatile gas that would otherwise pass unburned into the atmosphere. When the combustor is functioning, no smoke will be observed exiting the chimney. This is evidence that the stove is operating in the so-called "sweet-spot" wherein optimum efficiency is realized.

Secondary air is always available to the secondary combustion baffle and the catalytic combustor. The automatic control valve functions to provide the appropriate amount of secondary air relative to maintaining optimal clean combustion.

When first starting or reviving the fire: the primary control lever should be set to the far right position, which permits the maximum amount of air into the stove. The greater the amount of air entering the stove, the hotter and faster the fire will burn.

Moving the lever to the left reduces the airflow into the stove and thereby prolonging the fire at a lower heat output. See figure 5.2.

Control Settings and Performance

Use the table below as a guide to achieve the best performance from your stove.

Burn Rate	Air Control Setting
Low	Fully to the Left
Medium	Middle
High	Fully to the Right

The valve should be set at Full Open (Right) for the first five minutes of the Low and Medium burn rates.

5.5 Use of a Stove-top Thermometer

Determining the primary air setting for the best overall performance for your particular needs and installation will be established over time and experience. Each installation has unique characteristics that affect stove performance. You should use a stove-top thermometer to monitor the status of the fire. Place the thermometer on the stove top, in either rear corner. See figure 5.3. Generally speaking, once the stove temperature has reached 400°F - 600°F (204°C - 316°C), which is the optimal temperature to burn the stove, the air control may be set in a mid-range position to allow adequate oxygen to support efficient combustion throughout the burn cycle. Temperatures of 700-800 for short periods of time will not harm the stove, but prolonged periods of time in that temperature range can damage the stove. Use of the stove top thermometer is the best way to monitor how your stove is performing.

5.6 Using the Combustor Monitor

Each installation has unique physical and environmental characteristics that will affect stove performance. Other variables affecting combustion efficiency are cordwood species and moisture content. Taking those variables into consideration, you should use the integrated Combustor Monitor to maintain the fire in the most efficient manner tailored to your specific needs and installation configuration.

You can readily monitor combustion efficiency by noting the temperature indicated on the Combustor Monitor shown in figure 5.4. Follow this procedure to install the Combustor Monitor:

1. Remove the set screw on the right side panel of stove using a 3mm hex key as shown in figure 5.5.

Fig. 5.4. Combustor Monitor, PN 226609

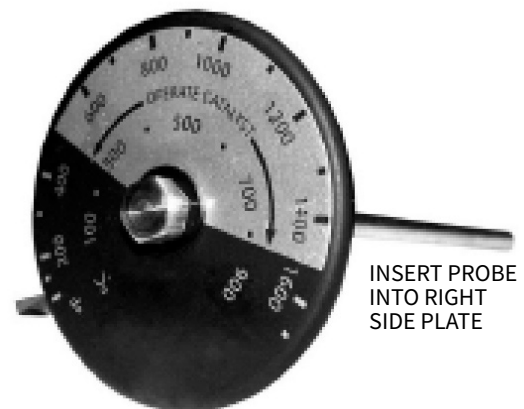


Fig. 5.5.

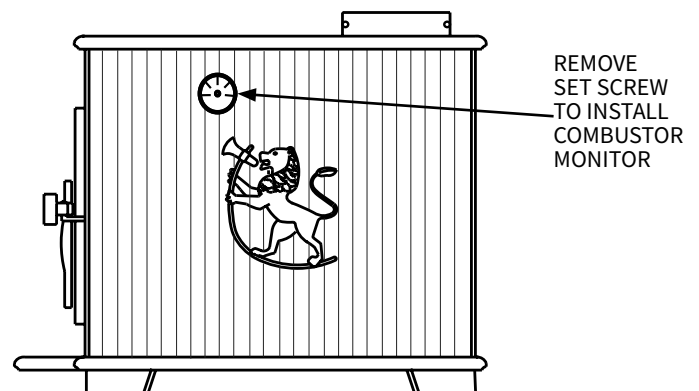


Fig. 5.6. Remove magnet from current orientation



Fig. 5.7. Orient magnet

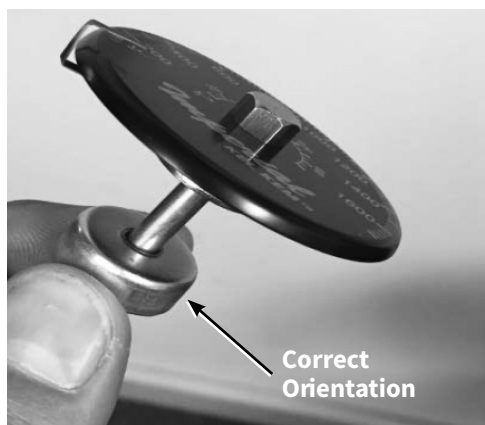
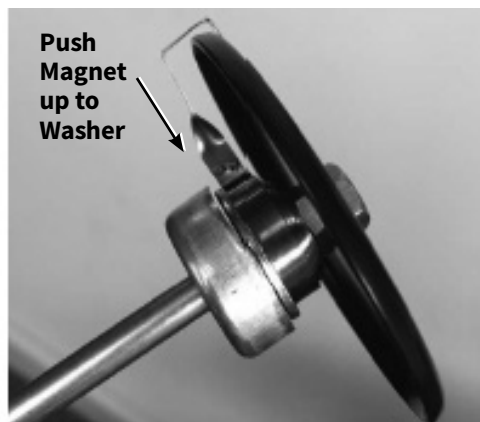


Fig. 5.8. Final position of magnet



2. Take the magnet off of Combustor Monitor and replace it in the correct orientation as shown in figures 5.6-5.8.
3. Insert the Combustor Monitor fully into the hole with the magnet attaching to the cast iron side plate as shown in figure 5.5.

Seated within the right side directly behind the catalytic element, the Combustor Monitor accurately responds to combustion activity. Secondary combustion takes place at temperatures between 500°F (260°C) and 1200°F (260°C - 649°C). Temperatures can reach as high as 1400°F to 1500°F (760°C - 816°C).

The primary air valve should remain at the fully open setting, (to the Right), at least until the monitor registers 500°F (260°C). Maintain that temperature for 15-20 minutes before adjusting the primary air lever to Medium Low - Medium High settings. The optimum temperature range for most efficient combustion is between 500°F and 800°F (260°C - 371°C). Chimney draft should be in the .05 - 1.0 w.c. range. The so-called “sweet spot” combustion zone is best maintained at those temperatures. However it is not uncommon for combustion temperatures to reach over 1,400°F (760°C).

Visual Monitoring

Evidence of efficient combustion can be observed in three distinct ways:

1. At temperatures over 500° F, look up through the door glass to the steel baffle and catalytic element at the top of the firebox. As exhaust gases ignite, jets of flame can be seen projecting from the baffle ports and the catalyst will glow vividly red.
2. Little or no smoke will be seen flowing from the chimney flue outside of the house.
3. If the stove has been properly operated, brushing the chimney flue will produce mostly fly ash. Little or no creosote accumulation will be evident.

5.7 Stove Break-In Procedure

The Jøtul F 602 V3 is constructed of cast iron plates and sealed with stove furnace cement. Cast iron, while very durable, expands and contracts as it is heated and cooled. This type of construction requires the stove to be “broken-in” gradually so that thermal expansion does not occur too quickly. This process is accomplished by burning a short series of small-to-medium fires as described below.

1. Fully open the primary air valve. Light a small fire of newspaper and kindling. Only allow the stovetop thermometer to reach a surface temperature of 200°F (93° C). Maintain the fire at that level for approximately 1 hour

and allow the stove to cool to room temperature.

2. Light a second fire, allowing the stove to reach a maximum surface temperature of 400°F (204°C) for 1 hour.
3. Cool the stove to room temperature.
4. Light a third fire and gradually allow the stove to reach and maintain a surface temperature of 500°F (260°C).
5. Cool stove to room temperature. This completes the “break-in” procedure.

NOTE: Keep the stove under 400°F (204°C) surface temperature during any “break-in fire”, with the exception of the last “break-in” fire. If the temperature exceeds 400°F, move the primary air control lever all the way to the left to minimize the air supply. It is normal for the stove top temperature will continue to climb until the fuel burns down somewhat. Once the fire is out and the stove has cooled to room temperature, continue the break-in procedure. **Never attempt to reduce the temperature by removing burning logs from the fire.**

5.8 Starting and Maintaining a Fire

Burn only solid wood directly on the bottom of the stove. Do not elevate the fire in any way. Do not build the fire close to the door glass.

Top-Down Fire Building - See figure 5.9.

The Top-Down method minimizes start-up smoke and more quickly establishes strong draft through the chimney.

1. With the primary air control lever in the full open position (*to the right*), place two short 1/4-split logs on the firebox floor, perpendicular to the rear wall, about 6 inches apart.
2. Place kindling across the base logs.
3. Place one or two smaller logs on top of the kindling.
4. Place newspaper between the two bottom logs under the kindling. Light the news paper and close the door. Continue to add kindling and small logs as necessary to build the fire. Keep the air control fully open until the fire is well-established.

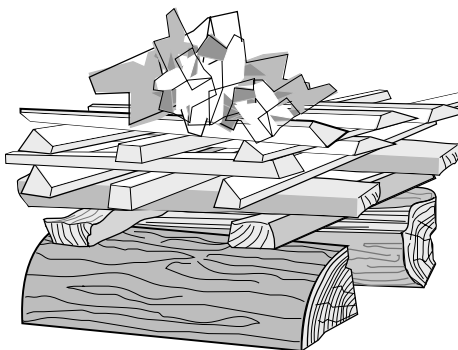


Fig.5.9. Top-down fire-starting log tier.

5.9 Creosote and Soot Formation and the Need for Removal

When wood is burned slowly or when burning green wood, it produces tar and other organic vapors which combine with expelled moisture to form creosote. These creosote vapors condense in the relatively cool chimney flue of a slow burning fire. The creosote that accumulates in the flue is highly flammable and is the fuel of chimney fires. To prevent a chimney fire, the creosote needs to be removed by sweeping the chimney and flue connector.

The frequency of sweeping will depend on how you operate your stove. An accumulation of 1/4” or more on the sides of the flue or connector is considered hazardous and should be removed. Be aware that the hotter the fire the less creosote is deposited, and weekly cleaning may be necessary in mild weather even though monthly cleaning may be enough in the coldest months.

In the event that creosote in your chimney or flue connector ignites, the resulting fire is often accompanied by a roaring noise and a crackling sound as flakes of burned creosote break loose. If you suspect you are having a chimney fire, immediately close the primary air control and make sure the stove door is closed. Call the fire department and get everyone safely out of the house.

Do not attempt to extinguish the fire in the stove. Doing so can make the matter worse by supplying additional oxygen, which will accelerate the fire in the chimney. When the roaring and crackling has subsided, resist the temptation to open the door to check the fire. The fire may have suffocated, but could rekindle when you open the door. After a chimney fire, do not use your stove until the chimney and the flue connector has been cleaned and inspected to ensure that no damage has occurred.

5.10 Adding Fuel

Reload the stove while a bed of hot embers still exists, Follow this procedure:

- Always wear gloves when tending to the stove.
- Push the air control lever to the full open position (far right).
- To minimize any smoke spillage, open the door slightly before opening fully. This will allow air flow to stabilize within the firebox and chimney flue.
- Use a stove tool or poker to distribute the hot embers equally around the firebox.
- Load the fuel, usually with smaller logs first.
- Close the door and secure the latch tightly.
- Wait 5 – 10 minutes before adjusting the primary air to the desired heat output setting. (If there remains at least a 2” thick ember bed when reloading, it may be possible to close the door and immediately adjust the air control setting).
- DO NOT over-load the stove. Do not load the wood higher than the holes on the air baffle. For safety and best appearance, maintain a traditional three log configuration.

6. Maintenance

Regular maintenance will prolong the life of your stove and ensure satisfactory performance.

Warning: Use only Jøtul authorized parts. Do NOT use substitute glass.

6.1 Annual Stove Inspection

- Empty stove of all soot and ashes. Only use a vacuum for this job if the vacuum is specifically designed to handle ashes.
- Inspect the stove seams. Use a utility light to inspect the stove inside and out for cracks or leaks. Replace all cracked parts and repair any cement leaks with furnace cement. Always wear safety gloves when handling the ash pan.
- Inspect the Catalytic Combustor. See section 6.7.

6.2 Ash removal

Always use stove gloves and a long-handled shovel to clear hot ashes. Ash removal will be required every day or two during normal operation and is most easily done when the fire has burned down to coals. Use a shovel to push coals first to one side, shovel out the exposed ash, and then repeat on the other side. Spread the remaining hot coals evenly across the firebox floor to quickly ignite a new fire.

Store ashes in a metal container with a tight fitting lid and use it exclusively to store ashes. The closed container should be placed outdoors, well away from all combustible materials, pending final disposal. Regardless of how the ashes are finally disposed, they should be kept in the closed container until all cinders have thoroughly cooled.

6.3 Chimney System

The Jøtul F 602 V3 is designed to burn cleanly and efficiently when used according to the guidelines in this manual. The chimney and connector must be in good condition and clean before use. In order to maintain proper performance, you should inspect the chimney and chimney connector at the beginning of each heating season and then every other month during the heating season.

Clean the chimney whenever creosote and fly ash accumulation exceeds 1/4 inch in any part of the system. Chimney brushes are available from your local Jøtul dealer or hardware supply store. Your dealer can also refer you to a reputable, professional chimney sweep who will have all the equipment to ensure a complete and proper job. Failure to keep the chimney system free of creosote and build-up could result in a serious chimney fire.

6.5 Glass Care

Cleaning

While the air wash and high temperatures of normal operation will combine to keep the glass free of heavy deposits, it will occasionally be necessary to clean carbon and fly ash off the glass. If allowed to remain for an extended period of time, these deposits can eventually cause the glass surface to become etched and cloudy.

- **USE ONLY AMMONIA-FREE, NON-ABRASIVE STOVE GLASS CLEANER**
- **DO NOT ATTEMPT TO CLEAN HOT GLASS.**
- **CLEAN GLASS ONLY AT ROOM TEMPERATURE.**

Ceramic Glass Replacement 128101

Warning: Use only Jøtul authorized parts. Do NOT use substitute glass.

The glass can be replaced with the door still mounted to the stove or the door can be removed and placed on a flat working surface.

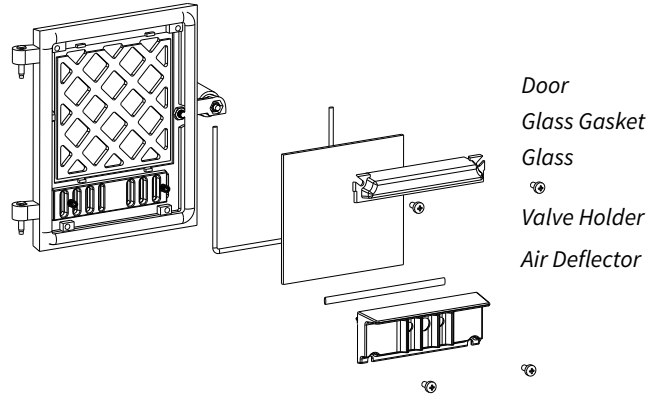
The replacement glass gasket is self-adhesive. Measure enough gasket to go from the upper right corner of the glass, down the right side, across the bottom and back up to the upper left corner and then add about 2-1/2”.

NOTE: THE TOP OF THE GLASS IS NOT GASKETED. This allows a small amount of air to enter through that area to help keep the glass clean.

- Peel off about 10” of the self-adhesive backing strip. Leaving about 1-1/4” of gasket “tail” overlapping, apply the gasket to the groove on the door, making sure that the adhesive is facing the door.
- Press the gasket firmly in place.
- Peel off the remaining adhesive backing and apply the remaining gasket, again leaving a “tail” at the upper left corner.
- Press the gasket firmly in place.
- Center the glass panel left and right on top of the gasket. Slide the glass toward the bottom of the door until it contacts the stops.
- Hold the glass in place with your hand and wrap the gasket “tails” over the top of the glass and down the outer edges. You will have to twist the gasket so the adhesive will face the glass. Press the “tails” firmly on the glass.
- Replace the air control slide and the upper and lower retainer manifolds and screws.

Glass retainers should be tightened gradually, following an alternating pattern similar to tightening vehicle lug nuts. Do not over-tighten. It may be necessary to retighten once again after the stove has been burned and the new gasket has seated.

Fig. 6.1. Door glass components.



6.6 Gaskets

Check door and glass panel gaskets for tightness. To check the seal of the front door, close and latch the door on a dollar bill and slowly try to pull the dollar bill free. If it can be easily removed, the seal is too loose. Check several spots around the door, and repeat the procedure on the ash pan door as well.

Gasket Replacement

Universal Wood Stove Gasket Kit #157050 is available from your dealer to replace all the gaskets in the F 602 V3. Self-adhesive gaskets do not require cement for installation.

1. Use pliers and a putty knife to remove the old gasket from the door.
2. Thoroughly clean the channel with a wire brush.
3. Apply a small bead of cement to the channel.
4. Gently press the new gasket into the cement to seat it in the channel. Close and latch the door and then reopen. Wipe any excess cement squeezed out from around the gasket.

F 602 V3 Gaskets

Description	Size	Length
Front Door	3/8 in.	6 ft.
Glass	1/4 in.	2 ft.
Valve Holder	3/16 in.	6 in.
Cook Plate	1/8x5/16 in.	3 ft.

6.7 Combustion System Maintenance

WARNING: BURNING JUNK MAIL OR COPIOUS AMOUNTS OF NEWSPRINT TO START THE FIRE CAN ACCELERATE FLY ASH COLLECTION ON THE COMBUSTOR AND NECESSITATE MORE FREQUENT CLEANING OF THE COMBUSTOR.

While catalytic combustor element is extremely durable, you can prolong its service life with routine inspections. The combustor itself is self-cleaning to an extent, however, fly ash will eventually accumulate within the element and upper combustion chamber. If you suspect combustor system performance is lagging, perform the following confirmation test.

1. Burn the fire at medium to high settings for two or three hours at over 500°F to build a full bed of coals.
2. Set primary air at medium to medium low.
3. Confirm that monitor temperatures remain at 500°F or higher. If the monitor temperature falls, the combustor may need to be cleaned or replaced.
4. Repeat this test 2-3 times to confirm that the combustor is **not** functioning properly.

A non-functioning catalytic combustor must be replaced.

Regular Combustor Inspection

It is important to periodically monitor the operation of the catalytic combustor to ensure that it is functioning properly and to determine when it needs to be replaced. A non-functioning combustor will result a loss of heating efficiency, and an increase in creosote and emissions.

Fig. 6.2. Use a soft brush to clean the combustor.



Following is a list of items that should be checked on a periodic basis:

- The combustor should be visually inspected at least three times during the heating season to determine if physical degradation has occurred. The combustor can be visually inspected for damage and fly ash accumulation simply by opening the front door and looking up at the catalyst located above the secondary combustion baffle. Use a flashlight or head lamp to aid inspection.
- Use a soft brush to sweep any fly ash or other loose debris from the combustor cells. Figure 6.2.
- A shop vacuum may be used to carefully remove debris from within individual cell bodies. Use caution as the cell material is fragile.
- Inspect the combustor element for catalyst cell collapse and the insulation panels for surface degradation. Replace damaged components as they are critical to the proper functioning of the stove. Replacement parts are available from your authorized Jøtul dealer.

6.8 Combustor Replacement

Tools Required:

- 10 mm socket wrench with extension
- Work gloves

The combustor components are accessed by removal of the cook plate which is secured to the top plate by one M6 flange nut, figure. 6.3.

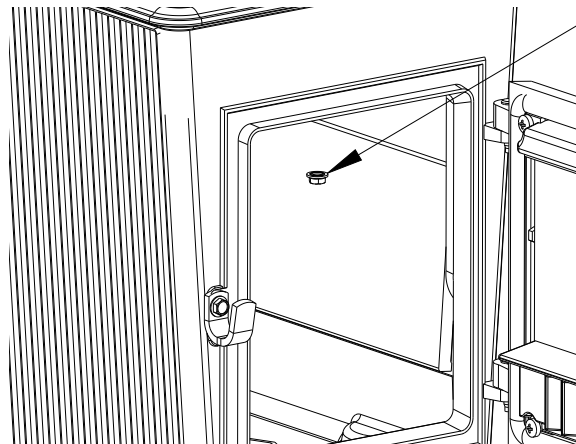


Fig. 6.3. Remove the cook plate nut located inside the front door opening.

Use the following instructions for combustor replacement:

1. Use the 10mm socket wrench with extension to remove the M6 flange nut located behind the exhaust diverter inside the stove as in figure 6.3.
3. Lift the front of the cookplate and pull forward to remove.
4. Wearing gloves, use both hands to carefully remove the Insulation Gasket from the firebox. Figure 6.6.
5. Simply lift the catalytic combustor to remove it from the compartment channel. Figure 6.7.
6. Reassemble the catalytic combustion components in the reverse order used to remove them.

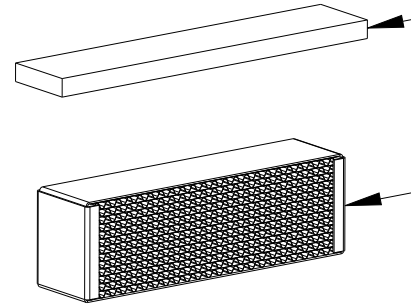


Fig. 6.5. Insulation gasket

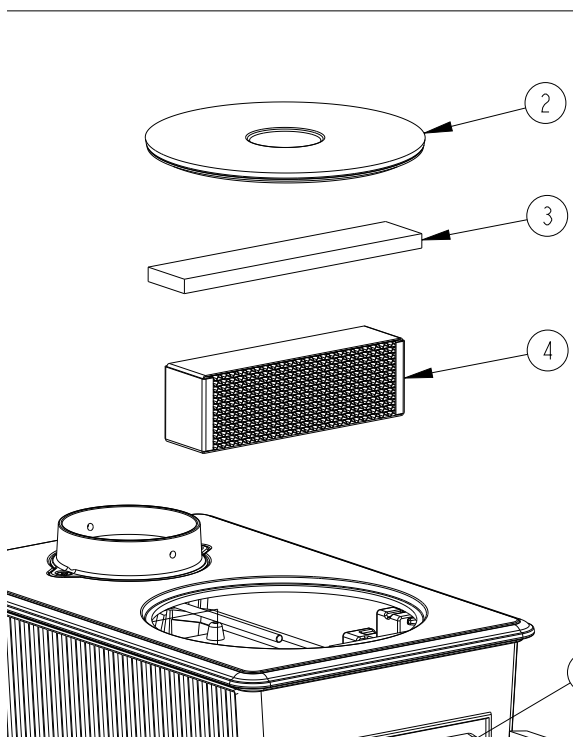


Fig.6.4. Remove the cook plate from stove.

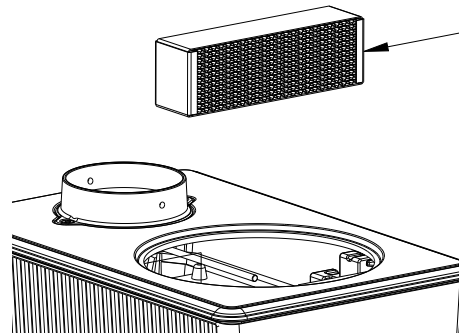
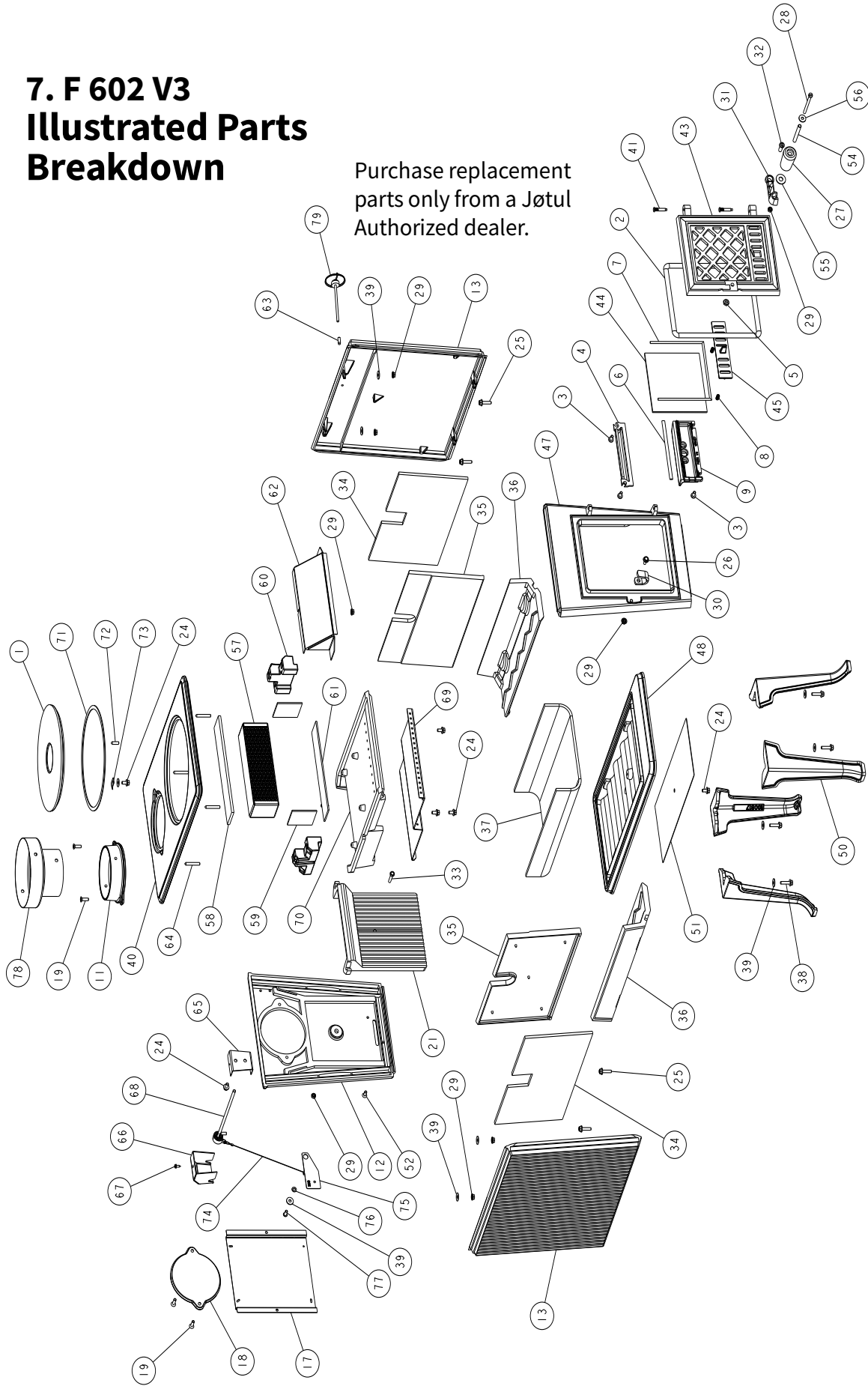


Fig. 6.6. Lift combustor from the chamber.

7. F 602 V3 Illustrated Parts Breakdown

Purchase replacement parts only from a Jøtul Authorized dealer.



7. F 602 V3 Parts List

No.	Description	Part No.	No.	Description	Part No.
1.	Cook Plate, F 602 V3	105056	45.	Air Slider.....	10315592
2.	Gasket, Round, LD2-375	225695	47.	Front panel	10168392
3.	Screw, M6 x 12, Phillips Pan Head.....	118042	48.	Bottom Plate.....	10166592
4.	Air Deflector	103153	50.	Leg.....	10081792
5.	Nut, Lock, M8x1.25	9931	51.	Bottom Heatshield	128571
7.	Gasket, Round, LD2-250 (1/4" D)	129644	52.	Screw, Flat Head Phillips M6 X 12	117976
8.	Spring, Air Valve	128427	54.	Sleeve, 8mm ODX6.2 mm IDX62mm.....	129930
9.	Valve Holder.....	105057	55.	Washer, Insulating.....	124853
10.	Screw, Stl Hex Hd Self-drill, #8 x .75" ...	118405	56.	Washer, Fndr, 6.4mm ID x 18mm OD ...	127105
11.	Smoke Outlet.....	101559	57.	Catalyst Combustor, F602 V3	158375
12.	Back Panel	10356892	58.	Strip, Insulation Blanket, F 602 V3	227160
13.	Side Plate.....	10166992	59.	Gasket, Catalyst Expansion, F 602 V3....	227162
17.	SN Plate Bracket.....	225736	60.	Refractory Member Sides, F 602 V3.....	227150
18.	Outlet Cover.....	101698	61.	Gasket, Catalyst Base, F 602 V3.....	227161
19.	Screw, Flt Hd, Hex Drive, M6X20	118236	62.	Exhaust Diverter, F 602 V3	227164
21.	Rear Burn Plate/Air Manifold.....	103462	63.	6x6 set screw.....	117706
22.	Air Chamber, Complete	158392	65.	Bimetalic Holder, F 602 V3	227109
24.	Bolt, Hex Hd Serr Flange M6x12 Blk.....	117130	66.	Bimetalic Cover, F 602 V3	227110
25.	Bolt, Hex Hd Serr Flange M6 x 25	118019	67.	Screw, #8 x1/2.....	117917
26.	Bolt, Hex Head Serr Flange M6x16.....	99625	68.	Bimetallic Coil Assembly.....	158178
27.	Wooden Knob, Black	124852	69.	Secondary Air Manifold, F 602 V3.....	227158
28.	Screw, Phillips Pan Head, M6 x 70.....	117825	72.	Set Screw, M6 x 20	117835
29.	Nut, M6 Serrated Flange.....	117968	73.	Retaining Tab, Cook Plate, F 602 V3.....	227163
30.	Latch Hook.....	120013	74.	Lanyard, Secondary Air Ctrl, F 602 V3 ..	227159
31.	Door Handle.....	10108592	75.	Plate, Secondary Air, F 602 V3.....	227146
32.	Screw, M8x25, Flat Head, Hex Drive.....	116960	76.	Washer, Flt M6X12mm ODX1.6mm	117947
33.	Bolt, Hex Cap, M6x30.....	9906	77.	Screw, M6 x 14, Bttn Head, Hex Skt	118215
34.	Insulating Blanket, Side	225666	78.	Adapter, Dripless	124817
35.	Side Burn Plate	10346512	79.	Catalyst Temperature Probe	226609
36.	Bottom Burnplate.....	10346612			
37.	Insulating Blanket, Bottom	128510			
38.	Bolt, Hex Hd Serr Flange M6 x 25	118019			
39.	Washer, Fndr, 6.4mm ID x18mm OD	120004			
40.	Top plate	10166792			
41.	Hinge pin, New Style, Black	127075			
42.	Door, Complete w/Glass,Gasket&Knob	158393			
43.	Door, Front.....	103152			
44.	Glass, Ceramic 4mm.....	128101			

8. Jøtul F 602 V3 Woodburning Product Warranty

Effective January 1, 2019

This warranty policy applies to wood-burning products identified by Jøtul trade name, as set forth below.

A. LIMITED LIFETIME WARRANTY, parts only:

Jøtul North America Inc. (JØTUL) warrants, to the original retail purchaser, that those baffle and air manifold components of the Jøtul Stove or Fireplace Insert specified above will be free of defects in material and workmanship for the life of the product. This warranty is subject to the terms, exclusions and limitations set forth below.

B. LIMITED FIVE YEAR WARRANTY - Cast Iron and Steel Components:

JØTUL warrants, to the original retail purchaser, that those components of the Jøtul Stove or Fireplace Insert specified above will be free of defects in material and workmanship for a period of five (5) years from the date of purchase. This warranty is subject to the terms, exclusions and limitations set forth below.

C. LIMITED TWO YEAR WARRANTY - Enamel Finish:

JØTUL warrants, to the original retail purchaser, the enamel finish on cast iron components of the Jøtul Stove or Fireplace Insert specified above against peeling or fading for a period of two (2) years from the date of purchase. This warranty is subject to the terms, exclusions and limitations set forth below.

D. LIMITED ONE YEAR WARRANTY - Electrical Components

(blowers, thermostatic switches, combustion monitor): JØTUL warrants, to the original retail purchaser, that those components of the Jøtul Stove or Fireplace Insert specified above will be free of defects in material and workmanship for a period of one (1) year from the date of purchase. This warranty is subject to the terms, exclusions, and limitations set forth below:

JØTUL will repair or replace (including parts & labor), at its option, any of the above components determined by JØTUL to be covered by this warranty. You must, at your own expense, arrange to deliver or ship the component to an authorized Jøtul or Scan dealer and arrange for pickup or delivery of the component after repairs have been made. If, upon inspection, JØTUL determines that the component is covered by this warranty, the repair or replacement will be made as set forth above. This warranty is not transferable and is extended only to, and is solely for the benefit of, the original retail purchaser of the Jøtul Stove or Fireplace Insert. This paragraph sets forth the sole remedy available under this warranty in the event of any defect in the Jøtul or Scan Stove or Fireplace.

The warranty period for any replaced component will be the remaining unexpired portion of the warranty period for the original component.

Please retain your dated sales receipt in your records as proof of purchase.

Exclusions and Limitations

Notice: This warranty is void if installation or service is performed by someone other than an authorized installer or service agency, or if installation is not in conformance with the installation and operating instructions contained in this owner's manual or local and/or national fire and building regulations. A listing of local authorized installers, service agencies and gas suppliers can be obtained from the National Fireplace Institute at <http://www.nficertified.org/>.

This warranty does not cover the following:

1. Repair or replacement of parts that are subject to normal wear and tear during the warranty period or to parts that may require replacement in connection with normal maintenance. These parts include catalytic combustor*, paint, gaskets, burn plates, baffles, air manifolds, firebricks, fire grates, or glass (glass is only warranted against thermal breakage).
** The catalytic combustor is separately warranted by Jøtul North America, Inc. and secondarily by Applied Ceramics. See next page for warranty information and instructions.*
2. Damage due to incorrect installations not in conformance with the installation instructions contained in this owner's manual or local and/or national fire and building regulations.
3. Damage, including damage to enamel surfaces, caused by improper operation, over-firing, and/or misuse. Improper operation, such as burning the stove with the ash door open, can damage the stove. Over-firing occurs when any part of the stove glows red. Over-firing can also be identified by warped plates, rust-colored cast iron, paint pigment that has turned dusty white, or bubbling, cracking and discoloration of the enamel finish. Misuse includes, without limitation, use that is not in conformance with the operating instructions contained in this owner's manual.
4. Damage due to service performed by an installer or service agency, unless otherwise agreed to in writing by JØTUL.
5. Damage caused by unauthorized modification, use or repair.
6. Costs incurred by travel time and/or loss of service.
7. Labor or other costs associated with the repair of components beyond the warranty period.
8. Damage incurred while the Jøtul or Scan Stove or Fireplace is in transit.

IN NO EVENT SHALL JØTUL, ITS PARENT COMPANY, SHAREHOLDERS, AFFILIATES, OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES BE LIABLE OR RESPONSIBLE TO YOU FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHER SIMILAR DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR DAMAGES TO A STRUCTURE OR ITS CONTENTS, ARISING UNDER ANY THEORY OF LAW WHATSOEVER. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WRITTEN WARRANTY. EXCEPT AS EXPRESSLY SET FORTH HEREIN, JØTUL MAKES NO ORAL, WRITTEN OR OTHER WARRANTY WITH RESPECT TO JØTUL OR SCAN STOVES OR FIREPLACES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on the length of implied warranties. Therefore, the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

JØTUL reserves the right to discontinue, modify or change the materials used to produce the Jøtul stove or fireplace. JØTUL shall have the right to replace any defective component with substitute components determined by JØTUL to be of substantially equal quality and price.

The dollar value of JØTUL's liability for breach of this warranty shall be limited exclusively to the cost of furnishing a replacement component. JØTUL shall not in any event be liable for the cost of labor expended by others in connection with any defective component. Any costs or expenses beyond those expressly assumed by JØTUL under the terms of this warranty shall be the sole responsibility of the owner(s) of the Jøtul or stove or fireplace.

No dealer, distributor, or other person is authorized to modify, augment, or extend this limited warranty on behalf of JØTUL.
NO MODIFICATION OR CHANGE TO THIS WARRANTY WILL BE EFFECTIVE UNLESS IT IS MADE IN A WRITTEN DOCUMENT MANUALLY SIGNED BY AN AUTHORIZED OFFICER OF JØTUL.

An authorized installer may have been provided with certain information related particularly to the Jøtul or stove or fireplace; however, no authorized installer or other person who may service the appliance is an agent of JØTUL. No inference should be made that JØTUL has tested, certified, or otherwise pronounced any person as qualified to install or service the appliance. JØTUL shall not be liable or otherwise responsible for any error or omission by a person installing or servicing a Jøtul or stove or fireplace.

If you believe your Jøtul stove or fireplace is defective, you should contact your nearest authorized Jøtul dealer, who will process a warranty claim. **IN ORDER TO QUALIFY FOR WARRANTY COVERAGE, JØTUL MUST RECEIVE NOTICE OF A POSSIBLE DEFECT WITHIN SIXTY (60) DAYS OF THE DATE THE DEFECT IS FIRST DISCOVERED, OR REASONABLY COULD HAVE BEEN DISCOVERED.**

*This warranty is given by Jøtul North America, Inc.,
 55 Hutcherson Drive, Gorham, Maine 04038 USA*

Jøtul High Flow™ Catalytic Combustor 10 – Year limited Warranty

Jøtul North America Inc. warrants to the consumer who purchases a Jøtul High Flow Combustor as a component in an EPA – Certified Jøtul solid fuel appliance, 100 % against defects in material and workmanship for a period of 10 years from the date of purchase.

Conditions and Exclusions:

1. The Jøtul High Flow Combustor 10 Year Warranty is for the original purchaser of the Jøtul wood stove or wood insert and is non – transferable.

2. The Jøtul High Flow Combustor 10 Year Warranty will be void if the combustor has been mechanically abused or if improper materials are burned in the stove or insert. See list below.

3. The Jøtul High Flow Combustor 10 – Year Warranty does not apply to any other components of the Jøtul wood stove or wood insert.

4. The Jøtul High Flow Combustor 10 – Year Warranty covers replacement of the original Jøtul High Flow Combustor due to defects in material and workmanship at no charge within the first 10 years.

5. If the Jøtul High Flow Combustor fails a second time within the 10 year period, the combustor will be covered for 50 % off the current retail.

5. Return the defective combustor to your local Jøtul Authorized Dealer who will submit a warranty claim on your behalf. All claims must be accompanied by proof of purchase showing the name of the selling dealer, date of purchase, Jøtul stove or insert model and the serial number of the unit, along with the consumer’s name. All claims must be accompanied by clear photos of the damaged combustor.

6. Related cost of replacement such as installation, travel, and shipping are excluded and the responsibility of the consumer.

7. Return of the original Jøtul High Flow Combustor to Jøtul North America may be required.

8. Any subsequent replacement combustor within the 10-year warranty, will be at the current retail price.

***BURN UNTREATED WOOD ONLY. DO NOT BURN:**

- Coal;
- Garbage;
- Synthetic fuel or logs;
- Material containing rubber, including tires;
- Material containing plastics;
- Waste petroleum products, asphalt products, paints, paint thinners or solvents;
- Materials containing asbestos;
- Construction or demolition debris;
- Railroad ties or pressure-treated wood;
- Manure or animal remains;
- Lawn clippings or yard waste;
- Salt water driftwood or other previously salt-water; saturated materials;
- Unseasoned wood;
- Colored paper, or
- Paper products, junk mail, cardboard, plywood, or particle board. (The prohibition against burning these materials does not include the use of fire starters made from paper, cardboard, saw dust, wax or similar substances for the purpose of starting a fire.)
- Burning of any of the materials listed above can result in the release of toxic fumes, cause smoke, or render the catalytic combustor permanently damaged and ineffective.



Protect your investment! Don't miss out on the benefits of warranty coverage. Scan this QR code or visit jotul.com/warranty today to ensure peace of mind and timely support.

Jøtul pursues a policy of continuous product development. Products supplied may therefore differ in specification, color and type of accessories from those illustrated and described in this manual.

For Your Records...

Record the following information to help your dealer determine what you will need should your stove ever require parts or service.

The serial number and manufacturing date are indicated on the permanent label located on the back of the stove. You may also wish to attach your sales receipt to this manual for future reference.

Model: Jøtul F 602 V3

Serial Number:

Purchase Date:

Dealer:

Phone:

Installed by:

Date:

Jøtul North America Inc.

55 Hutcherson Drive
Gorham, Maine 04038
USA

Jøtul AS

P.O. box 1411
N-1602 Fredrikstad,
Norway

www.jotul.us

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October 2024

