Sedore 3000 USA

Sedore 3000 USA

USA/CAN - Installation and Operating Instructions

Sedore USA LLC

Kindly save these instructions for future reference.

WARNINGS AND CAUTIONS:

IT IS IMPORTANT THAT YOU CONSULT WITH YOUR LOCAL,AND OR MUNICIPAL, FIRE DEPARTMENT, FIRE PROTECTION OFFICIALS OR OTHERS, PRIOR TO INSTALLATION OF THE SEDORE 3000. THESE OFFICIALS HAVE FINAL JURISDICTION, AND MAY REQUIRE PERMITTING BEFORE INSTALLATION OF YOUR SEDORE 3000. YOUR LOCAL INSPECTOR(S) HAVE THE FINAL AUTHORITY IN APPROVING YOUR INSTALLATION.

HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.
DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE.
DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS.
DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

READ THIS ENTIRE MANUAL BEFORE INSTALLING YOUR NEW SEDORE 3000. IF THE SEDORE 3000 IS NOT INSTALLED PROPERLY, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF A HOUSE FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS, MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.

SAVE THESE INSTRUCTIONS

Installation and Operating Instructions for the USA

Installation et fonctionnement pour Canada

Safety notice: If this solid fuel room heater is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area. Kindly save these instructions for future reference.

Avis de sécurité: Une installation non appropriée de ce poêle de chauffage risque de provoquer un incendie. Assurez votre sécurité en respectant les directives d'installation suivantes. Consultez les autorités locales du bâtiment ou de la prévention des incendies au sujet des restrictions et exigences relatives aux inspections d'installations dans votre région.

Tested and listed by ITS, Intertek Testing Services, Middleton, Wisconsin.
Tested to U.S. Standards: ANSI/UL 1482 & 737, Canadian Standards: CAN/ULC-S627-M93

Standards:

The Sedore 3000 woodstove has been tested and listed to;
U.S. Standards: ANSI/UL 737 and ANSI/UL 1482.
Canadian Standards: CAN/ULC-S627-M93

Tests performed by:
ITS Intertek Testing Services, Middleton, WI

Manufactured by:
Sedore USA 47909 CR 37 Deer River, MN 56636

Distributed by:
Sedore USA 47909 CR 37 Deer River, MN 56636 USA

A number of areas 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.

In Canada, the guideline is established by the CSA Standard, CAN/CSA-B365-M93, Installation Code for Solid-Fuel-Burning Appliances and Equipment.

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

Under specific test conditions, this heater has shown heat output at rates ranging from 30,000 to 125,000 BTU's per hour.

The Sedore 3000 woodstove is ***only*** listed to burn wood. Do not burn any other fuels.

When installing, operating and maintaining your The Sedore 3000 woodstove, follow the guidelines presented in these instructions, and make them available to anyone using or servicing the stove.

We suggest that our woodburning hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Woodburning Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).

Sedore USA 47909 CR 37
Deer River, MN 56636
USA

USA/CANADA

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Safety notices:

Be sure to read this entire manual before you install or use your new Sedore 3000 woodstove.

If the Sedore 3000 is not properly installed, a house fire may result. To reduce the risk of fire, follow the installation instructions. Failure to follow these instructions may result in property damage, bodily injury, or even death.

Sedore USA recommends that you have your new Sedore 3000 installed by a professional installer of solid fuel burning appliances.

Extremely hot while in operation! Keep children, clothing and furniture away. Contact may cause skin burns.

Avoid creating a low pressure condition in the room where the stove is operating. Operating an exhaust fan or a clothes dryer could create a low pressure area, causing poisonous gases to come out of the stove into the room.

You can prevent low pressure conditions by providing adequate combustion air within 24" (610mm) but not closer than 12" (305mm) from the stove.

Do not use chemicals or fluids to start the fire. Some fuels will, during combustion, separate carbon monoxide and generate it in the burn chamber. Carbon monoxide is toxic, so please follow the guidelines in this manual for proper operation of your Sedore 3000.

If you for some reason experience smoke "roll-out" from the stove, it may activate smoke detectors if installed in the house.

Sedore USA reccomends the installtion and use, of smoke detectors.

1.0 Installation

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

Reminder:

Your local officials have final authority in determining if a proposed installation is acceptable. Any requirement, that is requested by the local authority having jurisdiction, that is not specifically addressed in this manual, defaults to NFPA 211, and local codes in the U.S. or in Canada, CAN/CSA-B365-M and local codes.

1.1 Assembly before Installation

The Sedore 3000 is shipped with hardware inside the stove.

2.0 Chimney and Chimney Connector

The chimney connector is a single walled pipe used to connect the stove to the chimney. For use with the The Sedore 3000, the chimney connector **must** be 6" (152mm) in diameter, with a minimum thickness of 24 gauge black steel.

Aluminum and Galvanized steel pipe is not acceptable for use with the The Sedore 3000. 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.**

This prevents any amount of condensed or liquid creosote from running down the outside of the pipe or the stove top.

All joints, including the flue collar connection 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.

Always slope horizontal runs upward 1/4" (6,35mm) per foot toward the chimney.

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 or CAN/CSA-B365, and is also addressed in this manual.

CAUTION: Do not connect this unit to a chimney flue servicing another appliance.

2.1 Chimneys

There are two types of chimneys suitable for the Sedore 3000:

1. A code- approved masonry chimney with a flue liner.
2. A prefabricated chimney complying with the requirements for Type HT (2100°F) chimneys per UL 103 or ULC S629.

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

When selecting a chimney type and the location for the chimney in the house, keep this in mind: it is the chimney that makes the stove work, **not** the stove that makes the chimney work. This is because a chimney actually creates a suction, called "draft", which pulls air through the stove.

Several factors affect draft: chimney height, cross-sectional area (size), and temperature of the chimney, as well as the proximity of surrounding trees or buildings.

As a result, a short masonry chimney on the exterior of a house will give the poorest performance. This is because it can be very difficult to warm the chimney thereby creating inadequate draft. In extremely cold northern areas it may be necessary to reline the chimney or extend its height to help establish draft.
Conversely, a tall masonry chimney inside the house is easier to keep warm and will perform the best.

USA/CANADA

The following guidelines give the necessary chimney requirements based on the national code (ANSI-NFPA 211for the US. And CSA CAN-B365 for Canada). However, many local codes differ from the national code to take into account climate, altitude, or other factors.

Notice:

It is important that you check with your local building officials to find out what codes apply in your area before installing your new Sedore 3000.
Remember: Your local inspector(s) have the final authority in approving your installation. It is always best to consult with them prior to the installation.

2.2 Masonry Chimneys

When installing the Sedore 3000 into a masonry chimney you must conform to all of 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 the flue of a chimney with 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.

2.3 Prefabricated Chimneys

If a prefabricated metal chimney is to be used it must be a chimney type that is tested and listed for use with solid fuel burning appliances.
That means a chimney that is tested to the following:

High Temperature (HT) Chimney Standard UL 103 for the U.S. and High Temperature Standard ULC S-629 for 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.

2.4 Chimney Height

Whether a masonry chimney or prefabricated metal chimney is used it must be the required height above the roof line.
The requirement is:
The chimney must 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 3.**

Chimneys shorter than 20 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.

2.5 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 4.**

In Canada

In Canada the standard has been established by the Canadian Standard Association. 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" (457mm) around the chimney connector's proposed location. With a 6" (157mm) round liner the minimum area required would be 43" x 43" square (1092x1092mm).

It is important to remember to locate the pass-through at least 18" (457mm) from the ceiling to maintain the proper clearance to combustibles.

The space that is cleared of combustible materials must then remain empty. Sheet metal panels can then 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"(25,4mm) 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 CAN/CSA - B365-M91. Consult your local building inspector, authorized Sedore Dealer, NFPA 211 in the U.S. or CAN/CSA-B635 in Canada for other approved wall pass-through methods.

3.0 Connecting to the chimney

3.1 Masonry Chimney Thimbles

When installing a Sedore 3000 into 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.

The chimney connector/stove pipe must slide completely inside the thimble to the inner surface or the flue liner. It may be necessary to make use of a thimble sleeve (a pipe with a slightly smaller diameter than standard stove pipe). This special pipe can be easily installed into a thimble. **See figure 5.**

Make sure the connector pipe or thimble sleeve does not protrude into the flue liner, thereby restricting the area the smoke has to flow through. This bottle-neck will have a negative affect on the chimney system.
The chimney connector should be sealed at the thimble with refractory cement and the stove pipe leading to the stove should have a minimum of three screws.

Do not connect this stove to a chimney flue servicing another appliance of any kind.

3.2 Prefabricated Chimneys

When installing the Sedore 3000 to a prefabricated metal chimney always follow the pipe manufacture's instructions and be sure to use the components that are required. This usually includes some type of "smoke pipe adapter" that is secured to the bottom section of the metal chimney and allows the chimney pipe to be secured to it with three sheet metal screws. **See figure 7.**

USA/CANADA

4.0 Clearances to Combustibles

4.1 Floor Protection

Floor protection under the stove must be a UL 1618 Type I Ember Protector composed of non-combustible material for protection from radiant heat, sparks, and embers.

Individual sections of floor protection must be mortared together to prevent sparks from falling through to combustible materials. Any carpeting must be removed from under the floor protection.

In the U.S. and Canada

The Sedore 3000 must be installed on a non-combustible surface extending: A minimum of 20 1/2" (520.70mm) in front of the stove, (measured from the legs).
And 17 1/8 " (231.90mm Canada) on the right, and left side , (measured from the legs), and 8" (171.45mm) from the back of the stove (measured from the legs).This will result in a minimum floor protection of 56"W x 52"D.(1066.8mm x 1320.8mm) **With a Minimum R-value is 1.1. See page 14.**

Floor protectors come with various types of specifications. To convert a floor protector's specification to an R-value, do one of the following:

- If the R-value is given, use that value—no conversion needed.
- If a K-factor is given with a required thickness (T) in inches, use this formula: R-value = 1/K x T
- If a C-factor is given, use the formula: R-value = 1/C

To determine the R-value of the proposed alternate floor protector:

- Use either the K-factor or the C-factor formula explained above to convert specifications not expressed as R-values.
- For multiple layers of floor protectors, simply add the R-values of each layer to determine the overall R-value of the layers.

If the overall R-value of your setup is greater than the R-value of the specified R-1 requirement, then your setup is acceptable.

Noncombustible Material	*Thickness*	*R-value*
Gypsum or plaster board*	0.5"	0.45
Wallboard, Wonderboard, or Durock*	0.5"	0.20
Ceramic board (Fiberfrax or Micor)*	0.5"	1.10
Nominal solid clay brick*	1"	0.20
Ceramic wall or floor tile*	0.25"	0.01
Mineral wool insulation*	1"	3.12
Cement mortar**	1"	0.20
Horizontal still air**	0.125"	0.92

* Check manufacturer's specifications.
** According to ASHRAE Handbook of Fundamentals 1977

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 Sedore 3000.

The following diagrams give the required clearances you must maintain when installing the Sedore 3000 near combustible surfaces. **See pages 15-16**.

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. *Remember:* "Fire Resistant" materials are considered combustible; they are difficult to ignite, but will burn. Also "Fire-rated" sheet rock is also considered combustible.

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:

*I*n the U.S. refer to NFPA 211, Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances, for acceptable materials, proper sizing and construction guidelines.

*I*n Canada, refer to CAN/CSA-B365, Installation Code for Solid-Fuel Burning Appliances and Equipment, also for acceptable materials, proper sizing and construction guidelines.

Notice:

Accessories for wood stoves for clearance reduction have been developed by many manufacturers. If not following the methods of the installation codes, be sure that any accessory you choose has been tested by an independent laboratory and carries the laboratory's testing mark. Make sure to follow all of the manufacturer's instructions.

5.0 Operation

Before building a fire in your new Sedore 3000, please read the following section carefully and completely.

This stove is designed to burn natural wood **only**. Wood that has been air-dried for a period of 6 to 14 months will provide the cleanest most efficient heat.

Do not burn:

*Coal	* Treated or painted wood
*Garbage	*Chemical Chimney cleaners
*Cardboard	*Colored paper
*Solvents	*Any synthetic fuel or logs

The burning of any of these materials can result in the release of toxic fumes. 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.

Important
Never build or allow the fire to rest directly on the glass. The logs should always be spaced at least one inch from the glass to allow for proper air flow within the stove.

5.1 Controls on The Sedore 3000

A single air control lever controls the burn time and heat output of the stove. This primary air control lever is located on the front of the stove directly above the front heat shield. The primary air lever controls the amount of air that enters the stove for combustion.

When first starting or reviving the fire: The primary control lever should be at the far right position, which allows the maximum amount of air into the stove.
The more air entering the stove, the hotter the fire, the shorter the burn time. Moving the lever to the left reduces the air-flow into the stove which prolongs the fire at a lower heat output. **See figure 11**.

5.2 Breaking in Your New Stove

Your new Sedore 3000 is constructed of steel and stainless steel

Complete the following steps for the proper break-in procedure for the Sedore 3000:

To monitor the stove's temperature, Sedore recommends the use of a magnetic stove-top thermometer, *placed directly on the corner of the stove's top plate.*

1. Light a small fire, newspaper and kindling only, only allow the stove to reach a maximum surface temperature of 200°. Burn for approximately1 hour.
2. Allow stove to cool to room temperature.
3. Light a second fire, allowing the stove to reach a maximum temperature of 300° for 1 hour.
4. Cool the stove to room temperature.
5. Light a third fire and gradually allow the stove to reach a surface temperature of 400°
6. Cool stove to room temperature. This completes the "break-in" procedure.

Note: It is normal for a new painted stove to emit an odor and smoke during its first several fires. This is caused by the seasoning of the high temperature paint and will diminish with each fire and will eventually disappear. Opening a window or door to provide additional ventilation will reduce the odor as this process takes its course.

5.3 Starting and Maintaining a Fire

Burn only solid fuel directly on the bottom of the stove, do not elevate the fire in any way.

Place the magnetic/probe thermometer, on the stovepipe about 2 feet above the top of the furnace. The reading on this thermometer will be referred to as the 'stack temperature.'

Open the slide draft bar until it is fully opened

Open the stove lid and spread out approximately 2" of ash on the floor of the furnace, in the front chamber.

Place on bottom approx. 2-3 pieces of small dry, split wood horizontally on top of the ash against the ignition baffle,Place cardboard and paper in front of the wood to the air inlets.

Close the Sedore lid, go to the side ash clean-out door and place enough pieces of crumpled paper,cardboard ,kindling into the rear chamber to preheat the chimney . Lite fuel and close ash door.(This step is very important, as it pre-heats the chimney and starts an upward draft.)

Raise the lid. Lite the paper and cardboard placed in front of the kindling and wood. Lower the lid.

When stack temp has peeked, and has started to fall, it is time to add more fuel. Add smaller fuel, repeat stack temp peek rise and fall until desired coal bed is established, fill or add amount of fuel needed in your Sedore Stove.

Use a stove tool or poker to distribute the hot embers equally around the firebox upon reloading.
Adjust air intake to needed btu output.

When the 'stack temperature' has peaked, the stove is ready. The stove can now be fully loaded with wood.

Wipe off the ledge, (where the lids gasket seals to the firebox) before you close the lid, to prevent any small pieces of wood or debris that could interfere with the lids seal. Wipe the ledge each time fuel is added or when the lid is raised.

USA/CANADA

Never allow the stove to exceed a 400° surface temperature during any "break-in fire" with the exception of the last "break-in" fire.

5.4 Adding Fuel

When reloading the stove while it is still hot and a bed of hot embers still exist, follow this reloading procedure:

- Always wear gloves when tending to the stove.
- Push the air control lever to the full open position (far right).
- Wait a few seconds before opening the door.
- 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, be sure to latch the door tightly.
- Wait 5 – 10 minutes before adjusting the primary air to the desired heat output setting. (If you have at least a 2"(50mm) thick ember bed when reloading, it may be possible to close the door and immediately adjust the air control setting).

CAUTION:

Leaving the Sedore lid open can cause overfiring of the stove resulting in injury, damage to the stove, and a void of the manufacturers warrantty.

5.5 The Formation of Creosote

Creosote and Soot Formation and the Need for Removal

When wood is burned slowly, 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 brushing the chimney and flue connector. The frequency of sweeping will depend on how you operate your stove, but it is important to inspect the flue after every two weeks of use. An accumulation of 1/4" or more on the sides of the flue or connector is considered hazardous and should be removed.
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 draft regulator and make sure the stove door is closed. Call the fire department and get everyone safely out of the house.

Trying to extinguish the fire in the stove will not help. In fact it can make the matter worse by introducing more oxygen through the door, which then supports the fire in the chimney. When the roaring and crackling has stopped, you should resist the temptation to open the door and look at 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 have been cleaned and inspected to ensure that no damage has occurred.

6.0 Maintenance

For your protection always wear safety gloves when handling the ash pan.

6.1 Ash removal

Ash removal will be required periodically depending on how frequently the stove is used. Conveniently, the Sedore 3000 is equipped with dual ash removal doors, for easy ash removal, without the need for opening the stoves lid.

The ash doors are located on the lower rear of the right and left side of the stove. To open the ash doors, move air intake bar fully open, then lift either ash door from its brackets. Only remove one ash door at a time to avoid total loss of draft. Remove ash door and place it close by. Slide ash bucket under the lip and use the ash removal tool to pull the ashes from the stove. When finished removing the ash, replace the ash door into its bracket.

The ashes should be placed in a metal container equipped with a tight sealing lid. The container should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled. Only use a vacuum for this job if the vacuum is specifically designed for ashes.

6.2 Chimney System

The Sedore 3000 is designed to burn cleanly and efficiently when used according to the guidelines in this manual. In order to maintain proper performance, you should inspect the chimney and chimney connector at the beginning of each heating season and then, twice per 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 hardware supply store. They 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.

7.0 General Maintenance

As with your car, regular maintenance will prolong the life of your stove. The following procedures do not take long and are generally inexpensive, but when performed consistently, will help ensure many years of reliable performance.

7.1 Gaskets

Gasket Kit includes all the gasket material necessary to replace the gasket on the stoves lid. To check the seal of the lid, close the lid on a dollar bill and slowly try to pull the dollar bill free. If it can be easily removed then the seal is too loose. Check several spots around the lid. If the lid gasket needs treplacement, scrape out the old gasket and cement and clean the area with a wire brush.Apply a small bead of high temperature silicon cement and push in the new gasket. After closing the lid wipe clean any excessive cement that has come from beneath the
gasketing.Inspect the stove: Using a strong light inspect the stove inside and out for cracks or leaks.

Gaskets for: Top Lid **Size** 1 1/4 in. **Length** 6 ft.

CAUTION:

"Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this heater. Keep all such liquids well away from the heater while it is in use."

8.0 Accessories

Only use accessories that are specifically designed for the Sedore 3000

8.1 Outside Air Kit

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

The outside air kit includes an adapter 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.

8.2 Stove-top and Stack

Thermometer

Sedore recommends the use of a magnetic stove top and probe stack thermometer to monitor the surface and stack temperatures of the stove. Temperature range for the most efficient, clean burn, will depend upon chimney, amount of draft, and fuel type and moisture content.

8.3 Stove Grates

Sedore USA reccomends that no grates be used to support fuel or placed inside the firebox.

8.3 Leg Leveler Kit

8.4 Replacement Handle Kit

8.5 Replacement Gasket Kit

USA/CANADA

Fig. 1

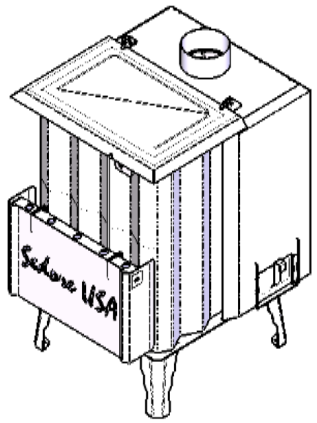


Fig. 2

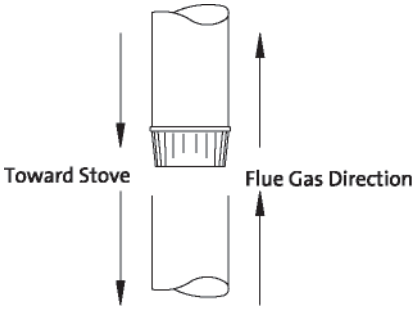


Fig. 3

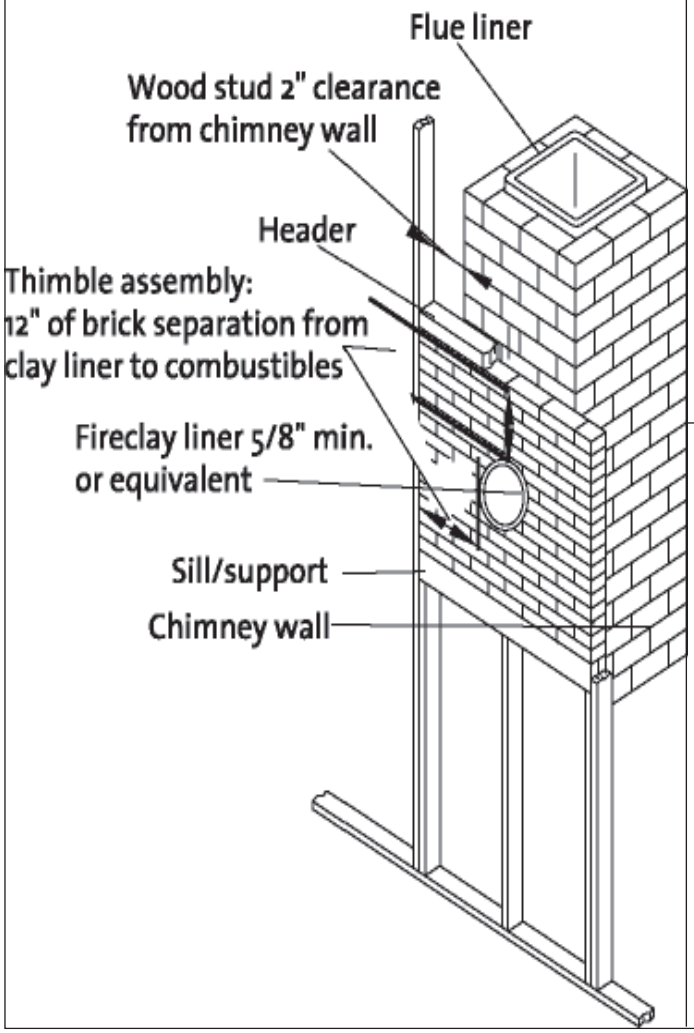


Fig. 4

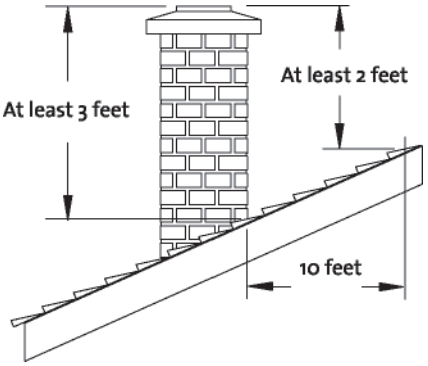


Fig. 5

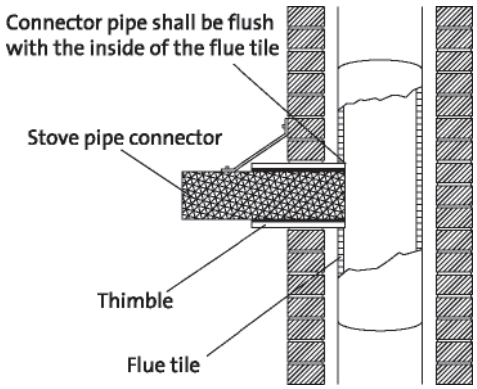


Fig.6

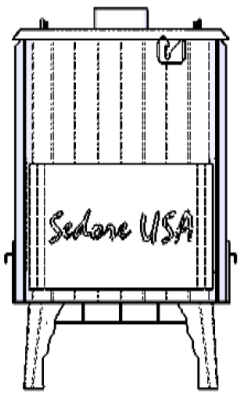


Fig. 7

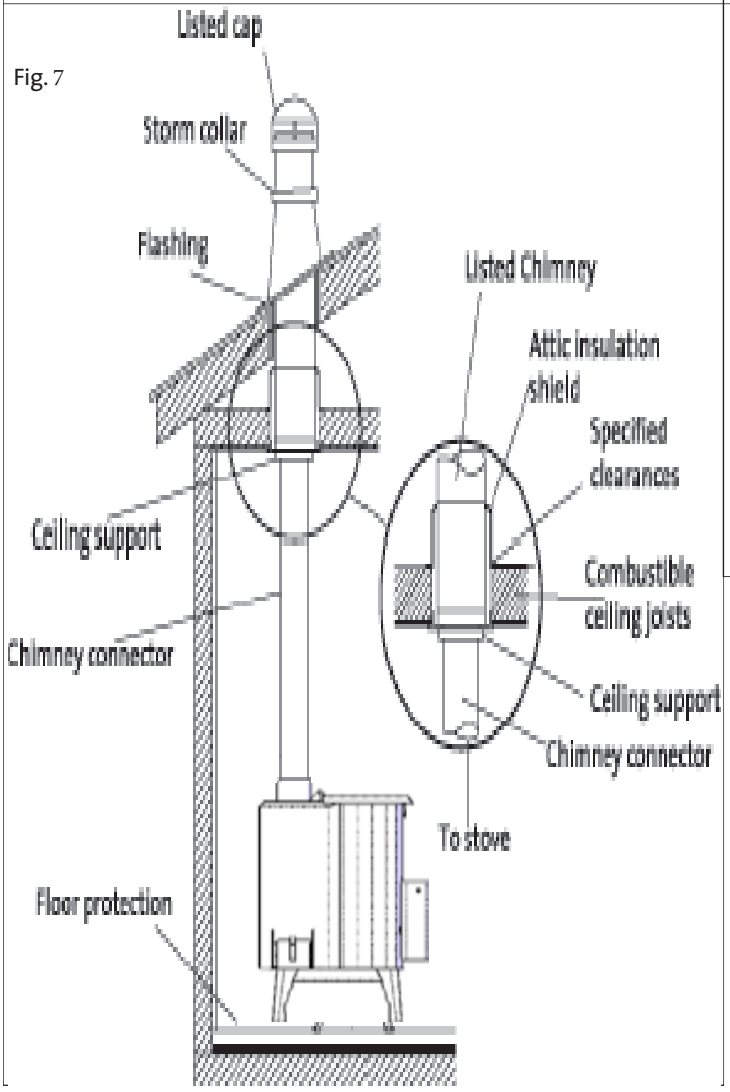
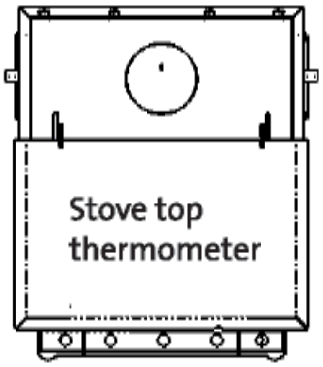


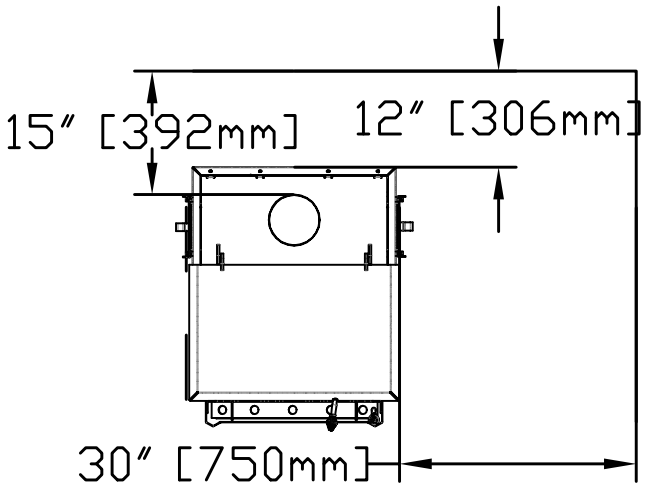
Fig.8



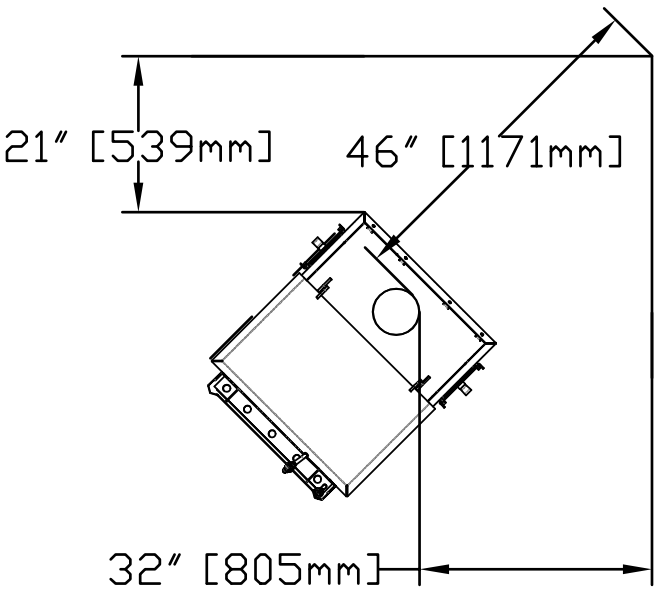
Far Left full closed <->Far right full Open

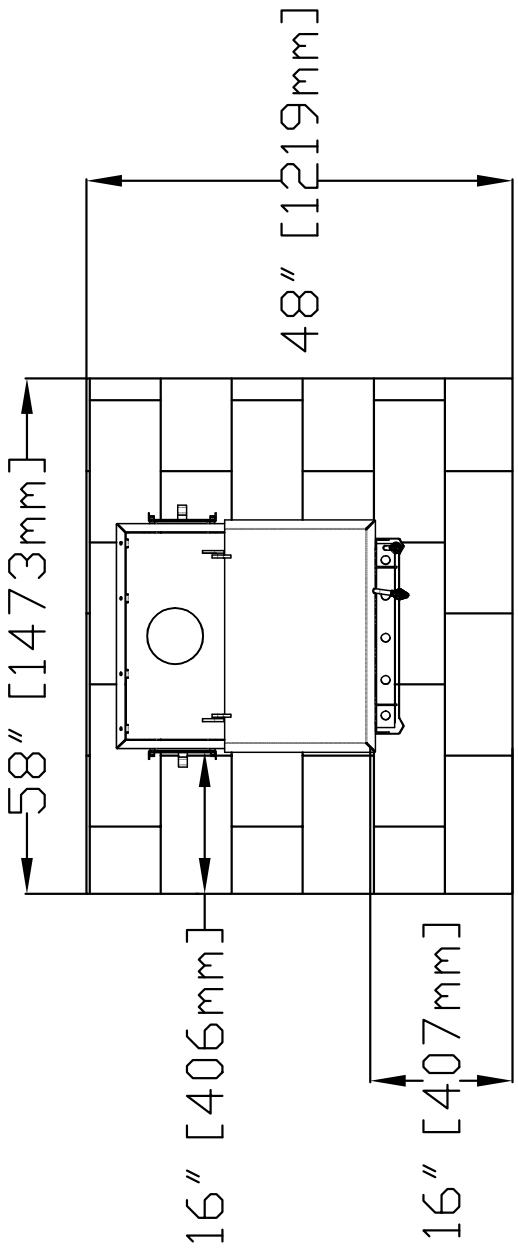
Sedore Model 3000 Woodstove Clearances

Unprotected Surface
Parallel to the Wall



Unprotected Surface
Corner Installation





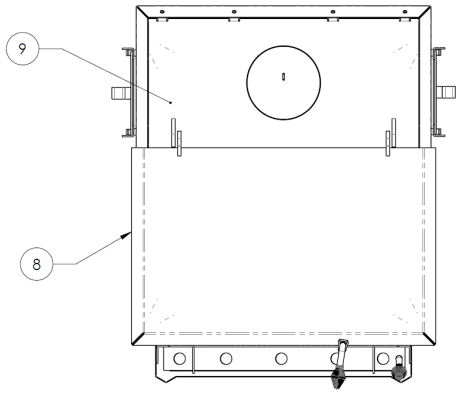
USA/CANADA

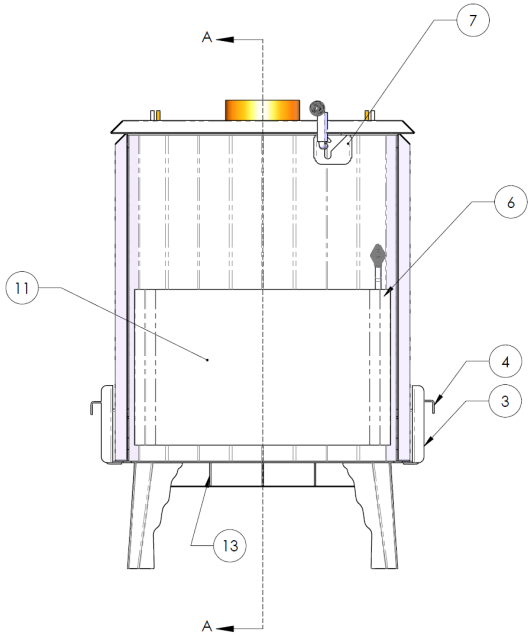
Important:
Connector and pipe must be a listed product. Always follow the manufacturer's instructions.

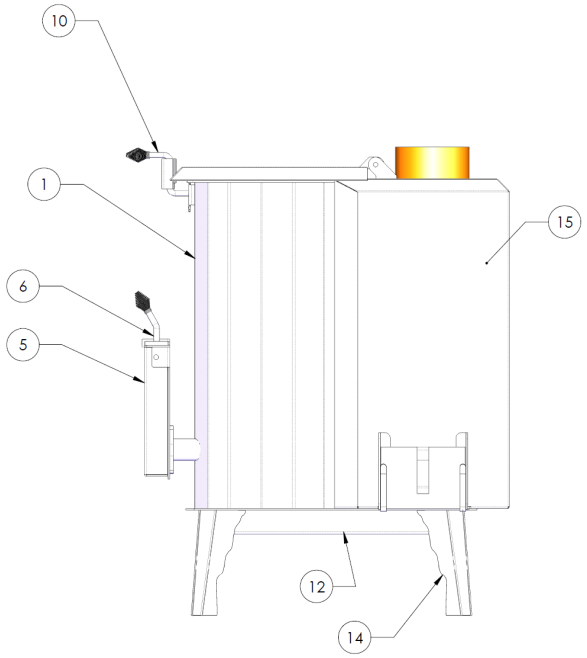
Notice:

It is important that you check with your local building officials to find out what codes apply in your area before installing your new Sedore 3000.

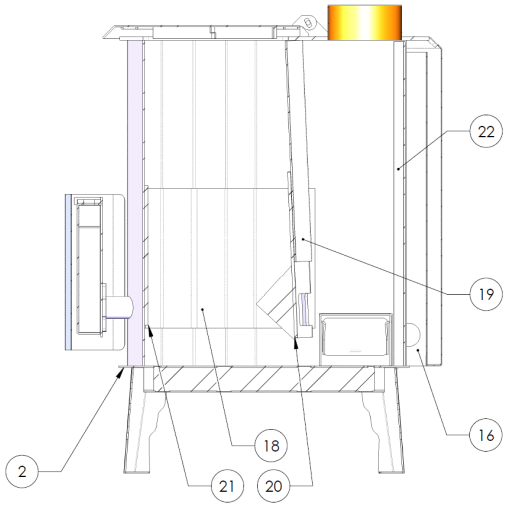
Remember: Your local inspector(s) have the final authority in approving your installation. It is always best to consult with them prior to the installation.







NOTE: VIEW IS SHOWN WITHOUT ITEM 11, FRONT HEAT SHIELD



SECTION A-A
SCALE 1 : 8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3000-1-405	WALL	1
2	3000-1-400	FLOOR	1
3	5000-0-044	ASH DOOR ASSY	2
4	5000-0-045	CLEAN OUT DOOR	2
5	5000-0-046	AIR INTAKE MANIFOLD	1
6	5000-0-047	AIR INTAKE MANIFOLD CONTROL BAR	1
7	5000-0-409	LID LATCH PLATE	1
8	300-1-042	MOVABLE LID ASSEMBLY	1
9	3000-1-041	FIXED LID	1
10	5000-0-043	LID LOCK ASSY	1
11	5000-0-411	FRONT HEAT SHIELD	1
12	3000-1-401	BOTTOM HEAT SHIELD	1
13	3000-1-402	BOTTOM REINFORCING BARS	3
14	5000-0-400	LEG ASSY	4
15	5000-0-403	REAR HEAT SHIELD	1
16	5000-0-402	REAR INSIDE HEAT SHIELD	1
17	3000-1-407	SIDE LINER	1
18	3000-1-407_LH	SIDE LINER	1
19	5000-0-404	BAFFLE, DIVIDER	1
20	5000-0-414 LTV	MAIN BAFFLE	1
21	5000-0-413	FRONT LINER	1
22	5000-0-401	BACK WALL	1

NOTE:
1. REMOVE ALL BURRS AND SHARP EDGES
2. PROTECTED BY CANADIAN PATENT 1075991
USA PATENT 4181116

ESTIMATED WEIGHT: 380 lbs

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.01 ± 1°
.XXX ±.005
MATERIAL -
FINISH -
TREATMENT -
DO NOT SCALE DRAWING

INTERPRET PER ASME Y14.5M-1994
APPROVALS DATE
DRAWN GY 11/23/13
UPDATED GY 11/5/14
CHECKED - -
THIRD ANGLE PROJECTION

SEDORE USA MULTI-FUEL STOVES & FURNACES
26282 Andersen Road
Alton, MN, USA
STOVE ASSY: 3000
WOOD STOVE ASSEMBLY
SIZE B | DWG. NO. 3000-1-001 | REV. A
SCALE: 1:4 | SHEET 1 OF 1

File Location: C:\Users\gyoder\Desktop\SEDORE_USA\

Appendix A

Alternate Floor Protection

All floor protection materials must be non-combustible ie. metal, brick, stone, mineral fiber boards). Any combustible material may not be used.

The easiest means of determining if a proposed alternate floor material meets requirements listed in this manual is to follow this procedure.

R-value = thermal resistance k-value = thermal conductivity C-value = thermal conductance

1. Convert the specification to R-value;
   - **a.** If R-value is given, no conversion is needed.
   - **b.** If k-value is given with a required thickness (T) in inches: $R=1/k \times T$.
   - **c.** If C-value is given: R=1/C.
2. Determine the R-value of the proposed alternate floor protector.
   - **a.** Use the formula in Step 1 to convert values not expressed as "R"
   - **b.** For multiple layers, add R-values of each layer to determine overall R-value.
3. If the overall R-value of the system is greater than the R-value of the specified floor protector, the alternate is acceptable.

Example:

The specified floor protector should be 3/4" thick material with a k-factor of 0.84. The proposed alternate is 4" brick with a C-factor of 1.25 over 1/8" mineral board with a k-factor of 0.29.

Step A. Use formula above to convert specifications to R-value. R=1/k X T= 1/.84 X .75 = .893

Step B. Calculate R of proposed system.

4" brick of C-1.25, therefore
R brick = 1/C = 1/1.25 = 0.80.
1/8" mineral board of k = 0.29 therefore R mineral board = 1/.29 X 0.125 = 0.431

Total R = R brick + R mineral board= 0.8 + 0.431=1.231

Step C. Compare proposed system R = 1.231 to specified R of 0.893. Since R is greater than required, the system is acceptable.

Definitions:

Thermal conductance = $C = \frac{Btu}{(hr)(ft^2)(F)} = \frac{W}{(m^2)(K)}$

Thermal conductivity = $k = \frac{Btu}{(hr)(ft^2)(F)} = \frac{W}{(m^2)(K)} = \frac{(Btu)}{(hr)(ft)(F)}$

Thermal resistance = $R = \frac{Btu}{(hr)(ft^2)(F)} = \frac{(m^2)(K)}{W} = \frac{(Btu)(inch)}{(hr)(ft^2)(F)}$

10.0 SEDORE. WOOD-BURNING PRODUCT LIMITED LIFETIME WARRANTY

Effective January

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

A. LIMITED LIFETIME WARRANTY, parts only:

Sedore USA LLC warrants, to the original retail purchaser, that those baffle and air manifold components of the Sedore 3000 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:

SEDORE warrants, to the original retail purchaser, that those components of the Sedore 3000 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:

SEDORE warrants, to the original retail purchaser, the enamel finish on cast iron components of the Sedore 3000 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.

Sedore USA LLC warrants, to the original retail purchaser, that those components of the Sedore 3000 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:

Sedore USA LLC will repair or replace, at its option, any of the above components determined by Sedore USA LLC to be covered by this warranty. You must, at your own expense, arrange to deliver or ship the component to an authorized Sedore and arrange for pickup or delivery of the component after repairs have been made. If, upon inspection, Sedore USA LLC 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

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 paint, gaskets, burn plates, ceramic insulation blankets, skamol baffles and panels, firebricks, fire grates, or glass (Ceramic glass is warranted against thermal breakage only).
2. Damage due to incorrect installations not in conformancewith 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 to enamel finish including chipping, mechanical or chemical abrasion, crazing, staining, or rust caused by high humidity or salt air environments.
5. Damage from or repair of rust. Use of a stove-top steamer can cause rust.
6. Damage due to service performed by an installer or service agency, unless otherwise agreed to in writing by Sedore USA
7. Damage caused by unauthorized modification, use or repair.
8. Costs incurred by travel time and/or loss of service.
9. Labor or other costs associated with the repair of components beyond the warranty period.
10. Damage incurred while the Sedore product is in transit.

IN NO EVENT SHALL SEDORE USA LLC, 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

USA/CANADA

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, SEDORE USA MAKES NO ORAL, WRITTEN OR OTHER WARRANTY WITH RESPECT TO SEDORE 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.

SEDORE USA reserves the right to discontinue, modify or change the materials used to produce the Fireplace Insert. SEDORE USA shall have the right to replace any defective component with substitute components determined by SEDORE USA to be of substantially equal quality and price.

The dollar value of SEDORE liability for breach of this warranty shall be limited exclusively to the cost of furnishing a replacement component. SEDORE may at its discretion discharge all obligations by refunding the wholesale price of any defective part or appliance. SEDORE shall in no event be liable for any special, indirect or consequential damage of any nature which is in excess of the original wholesale purchase price of the product. SEDORE 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 SEDORE under the terms of this warranty shall be the sole responsibility of the owner(s) of the Jøtul Stove or Fireplace.

No dealer, distributor, or other person is authorized to modify, augment, or extend this limited warranty on behalf of SEDORE. **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 SEDORE.**

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

If you believe your SEDORE Stove is defective, you should contact SEDORE USA, who will process a warranty claim. **IN ORDER TO QUALIFY FOR WARRANTY COVERAGE, SEDORE 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 SEDORE USA, 47909 CR 37, Deer River, MN 56636

SEDORE pursue a policy of constant product development. Products supplied may therefore differ in specification, colour and type of accessories from those illustrated and described in the brochure.