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OWNER'S MANUAL

INSTALLATION AND OPERATION

FOR HITZER MODEL 983

Save These Instructions

- Installation, Operating, and Maintenance Instructions Enclosed.
 - Thoroughly Read and Understand Instructions.
 - Installer Always Leave this Manual with Stove Owner.

Warning

- **READ THIS ENTIRE MANUAL BEFORE YOU INSTALL AND USE YOUR NEW ROOM HEATER. IF THIS ROOM HEATER IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION AND OPERATING INSTRUCTIONS. SAVE THESE INSTRUCTIONS.**
- **FOLLOW THE INSTRUCTIONS WITHIN THIS MANUAL. IF INSTRUCTIONS ARE NOT FOLLOWED, A FIRE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR EVEN DEATH.**
- **HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.**
- **FOR USE OF SOLID FUEL, COAL ONLY. OTHER FUEL SOURCES CAN RESULT IN POISONOUS GAS EMISSION, STOVE DAMAGE, AND/OR FIRE.**
- **FOR BEST RESULTS USE NUT OR PEA SIZED ANTHRACITE COAL. RUN OF MINE, LUMP, AND EGG SIZE BITUMINOUS COAL MAY ALSO BE USED**
- **CARBON MONOXIDE AND SMOKE DETECTORS MUST BE PRESENT IN HOME AND WORKING PROPERLY AT ALL TIMES.**

I. Welcome to Hitzer Family

Hitzer Inc. welcomes you to a proud and unified team of Hitzer Stove owners. Thank You for your recent purchase of a Hitzer Stove. We can assure you that your Hitzer stove has the finest Swiss Amish Craftsmanship. Your Hitzer Stove is built with premier quality materials to ensure safety, durability, and performance. These are all top priorities in the Hitzer line of products.

We would like to personally thank you again and welcome you into our continually growing Hitzer Family. We wish you and your family an extended amount of warmth and comfort, provided by your new Hitzer Stove. Thanks for choosing Hitzer as “Our Stoves Make Warm Friends.”

Safety Notice

CAUTION: IF THIS HITZER STOVE IS NOT PROPERLY INSTALLED A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY AND TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS CAREFULLY. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH. CONTACT YOUR LOCAL BUILDING INSPECTOR OR FIRE OFFICIALS ABOUT THE NEED FOR A PERMIT, RESTRICTIONS, OR INSTALLATION INSPECTION REQUIRED IN YOUR AREA. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

UL Tested/Label: Follow the information and clearance charts located on each Hitzer Stove Model. These stoves have been tested to UL 737 & UL 1482, approved, and labeled on the rear of each stove.

It is strongly recommended to have this Hitzer Stove installed by an educated and certified installation professional. Please refer to a NFI (National Fireplace Institute) Certified Installer for your installation needs and questions. Locate an NFI professional at www.nficertified.org.

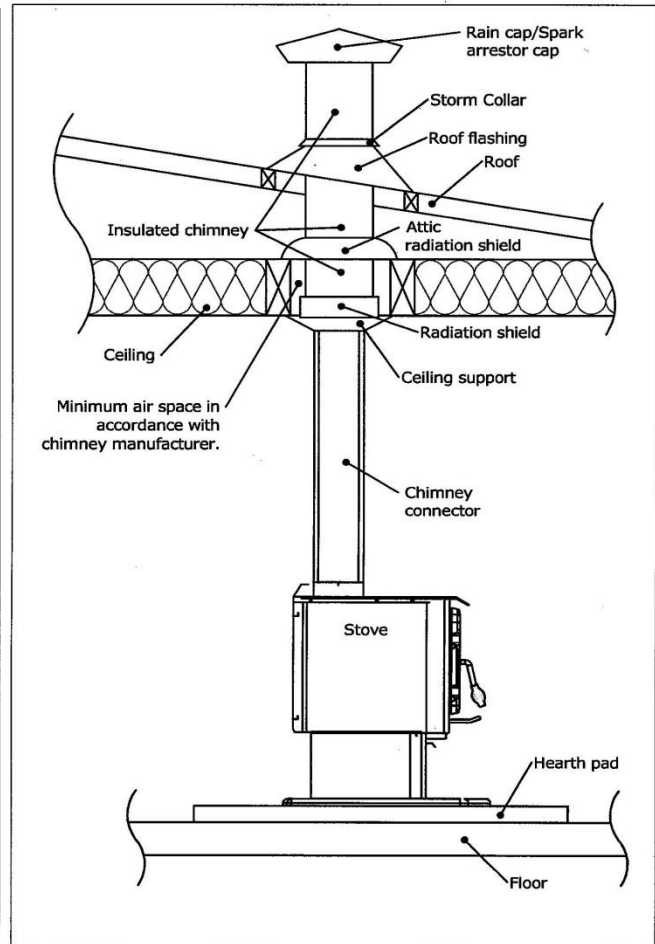
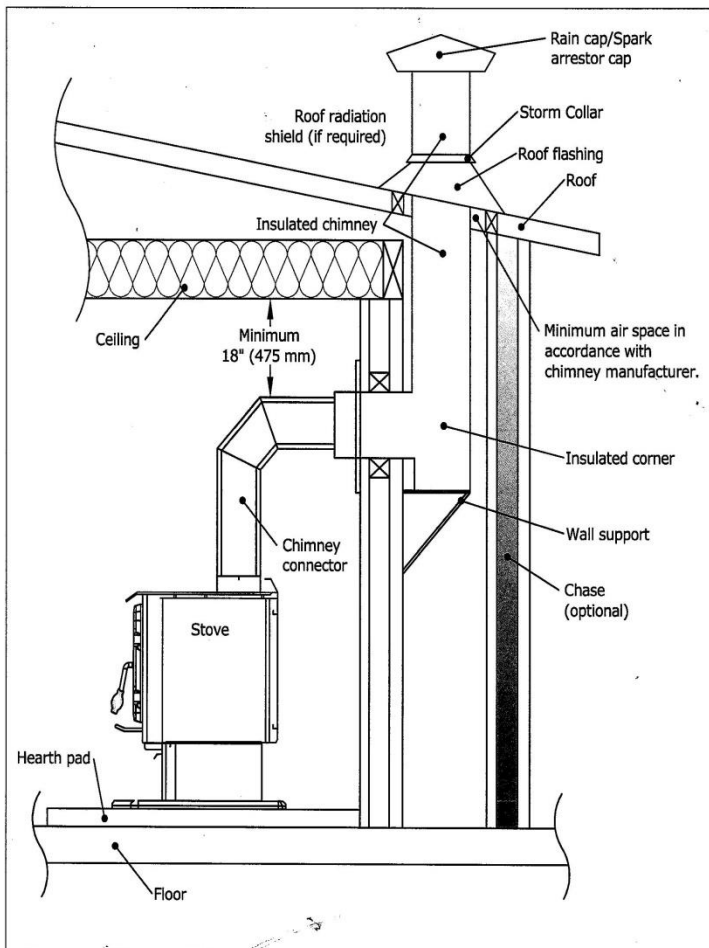


II. Flue Systems

A good chimney is essential. This room heater/fireplace insert must be connected to (1) a listed Type HT (2100°F) chimney per UL 103 or ULC S629, or (2) a code-approved masonry chimney with a flue liner.

Masonry Flue System: It is important to make sure that the masonry chimney is structurally sound and on a solid foundation. The masonry chimney must have a liner installed within the chimney construction. An unlined chimney is not safe with solid fuel systems, and may result in a house fire. The liner may be constructed with a structurally sound clay liner or a stainless steel liner. If using an existing masonry chimney, be sure to have the chimney examined and cleaned by a chimney professional. The structural foundation of the chimney and liner is important. If existing clay liner is cracked or damaged, it is recommended to re-line the chimney with a stainless steel liner. Be sure the masonry chimney is compatible with the local building codes and requirements.

Factory Built System: The factory built chimney must be a Class A High Temperature UL tested chimney UL 103 HT. It is required for this Class A chimney to be listed and labeled under the UL standards. If using an existing factory built Class A chimney it must be inspected and cleaned by a certified chimney professional, before use. With Factory Built Chimneys the chimney manufacturer's clearances and distance requirements must be followed. It is also important to abide by the rules and regulations of local jurisdictions upon chimney installation.



THE DIAGRAMS ARE FOR INFORMATIONAL PURPOSES ONLY. FOLLOW CHIMNEY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WARNING: BE SURE TO FOLLOW ALL CHIMNEY MANUFACTURER'S INSTRUCTIONS. FAILURE TO FOLLOW INSTRUCTIONS CAN RESULT IN FIRE, INJURY, AND EVEN DEATH.

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

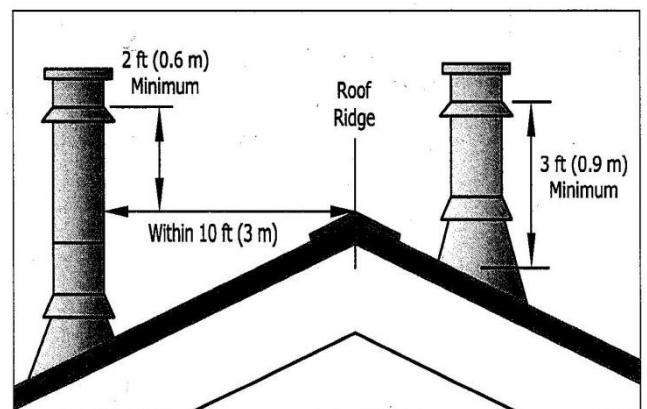
Flue Requirements: It is required to have your chimney inspected and cleaned by a certified chimney professional if needed before your Hitzer Stove installation. The flue and connector should be inspected at least monthly during the heating season. If material has accumulated, it should be removed immediately to reduce the risk of a chimney fire. If a chimney fire does occur the fire department should be called immediately and the draft controls should be closed on the stove. It is also required to have a chimney that is built according to the chimney manufacturer's specifications and it must meet local building codes.

Flue Size: The proper flue size is very important. The proper flue size is essential in order to have the correct amount of draft required to operate the Hitzer Stove. The diameter of the flue size including chimney liner should never be less than the diameter of the flue exhaust collar on the Hitzer Stove. The flue size for the model 983 should be a minimum of 8 inches in diameter.

Flue Size (Continued): The flue size also has a maximum size of inches in order to sustain the desired draft. For an **interior chimney** the flue and chimney liner size cannot be larger than 3 times the square inches of the flue exhaust collar on the Hitzer Stove. For an **exterior chimney** that has at least one side exposed to the exterior of the house the flue and chimney liner cannot be more than 2 times the square inches of the flue exhaust collar of the Hitzer Stove. Also keep in mind the warmer the chimney is the better the draft.

Model	Flue Size (Sq. Inch)	Minimum (Sq. inch)	Maximum Sq. Inch	Int/Ext
983	8" (50.27")	8" (50.27")	151"	interior
983	8" (50.27")	8" (50.27")	101"	exterior

Chimney Height Requirements: The minimum height of a chimney system for the Hitzer Stove is 15 feet. The chimney must exceed the roof of a house a minimum of 3 feet at any point of exit. In pitched roof installation the chimney must be 2 feet higher than anything within a 10 foot radius of the chimney. It is important to have a chimney draft of $-.03$ to $-.06$ (kPa) It is required to abide by the manufacturer's instructions on class A chimney's as well as local building codes.



Chimney Draft Requirements: Chimney draft is the measurement of the pull or vacuum created by the chimney. It can be measured with a manometer and is expressed in inches of water (kPa). To measure you need to drill a small hole in the stovepipe between the flue collar and any stovepipe dampers installed into the stovepipe system. Insert the manometer connection into the hole and note

the reading. Ideally you should have a reading of between -.03 and -.06 inches of water (kPa). If the chimney produces less than -.03 your fire can be very sluggish. In worst case instances combustion byproducts like smoke and carbon monoxide can be expelled from the stove. This can possibly create a very dangerous situation.

A draft of more than -.06 (kPa) will waste some of your heat by causing it to be drawn up the chimney too quickly. The higher the draft goes the more heat that is wasted up the chimney. A very strong overdraft can also cause the stove to over fire. Over firing can cause the stove to develop extremely high temperatures resulting in possible damage to the stove or a fire. Draft should never exceed -.08 (kPa). Over drafting can be controlled by installing a damper in the stovepipe. This damper can be a barometric or manual damper. It is recommended to have this damper installed during the stove installation. The damper may be installed in the vertical or horizontal portion of the stovepipe. The stovepipe damper must be installed and calibrated according to the damper manufacturer's instructions.

CAUTION: BE SURE TO FOLLOW ALL CODES AND SAFETY REQUIREMENTS WHEN INSTALLING THE STOVE.

CAUTION: THE USES OF ALUMINUM TYPE B GAS VENT FOR SOLID FUEL VENTING IS UNSAFE AND PROHIBITED BY THE NATIONAL FIRE PROTECTION ASSOCIATION CODE.

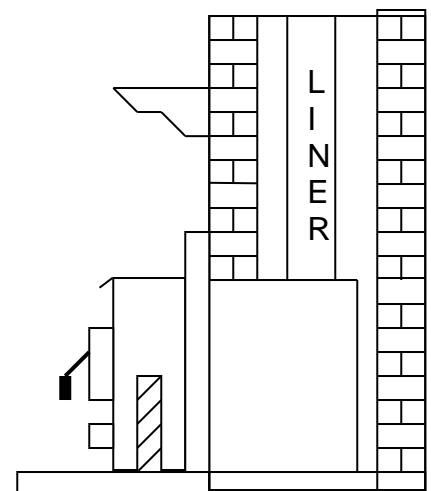
III. INSTALLATION OF STOVE

WARNING: THE INSTALLATION OF THESE STOVES MUST COMPLY WITH STATE AND LOCAL REQUIREMENTS AND BE INSPECTED BY THE STATE OR LOCAL INSPECTOR IF REQUIRED. NOTE: THESE STOVES ARE NOT APPROVED OR RECOMMENDED FOR USE IN MOBILE HOMES.

CAUTION: DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM

Installation As A Fireplace Insert:

Code requires that a piece of flue liner material go from the insert up through the damper area and into the first clay flue liner. This connector should be 316 stainless steel chimney liner material rather than 303 stainless steel. 303 stainless steel does not hold up as well as to the corrosiveness of the coal gas. Hitzer recommends running the liner to the top of the chimney which will help with draft and is also easier to clean. If the full liner is used you must use all the components and install it according to the liner manufacturer's instructions. When just a short piece of liner is used the insert and liner must be uninstalled to clean anything that falls down around the liner. When cleaning with a full liner all the material swept from chimney goes into the insert and can then be removed. Cut out or remove the damper from your fireplace to accommodate the 8 inch chimney liner. If the floor of the fireplace is recessed below the hearth build up floor with steel shims, firebricks, or another noncombustible material to hearth level so the insert sets level. Insert this liner in the chimney now and support up in chimney until your insert is in place. Now position your insert on the hearth.



8 inch chimney liner. If the floor of the fireplace is recessed below the hearth build up floor with steel shims, firebricks, or another noncombustible material to hearth level so the insert sets level. Insert this liner in the chimney now and support up in chimney until your insert is in place. Now position your insert on the hearth.

Note: First you will want to place a thin sheet of metal or cardboard on your hearth for protection from chipping or scratching your hearth. You may also reduce the weight of the insert by removing doors, firebrick, and grates.

With your insert positioned on the hearth, determine the depth of the insert into the fireplace. This will be determined by two things. First the shroud must be behind the side blowers so as to not restrict the air to the blowers and also ease of servicing the blowers.

The second is the liner must be inserted into the collar. If the masonry flue is too far back from the insert an offset box may be used. Work the chimney liner down into flue collar of the insert and fasten to insert with a stainless steel screw if possible. Assemble the shroud top panel to the two shroud side panels with 2 bolts at each end. Next you loosen the two mounting screws on either side of the insert and slide the insert out of the fireplace slightly. Make sure the liner stays attached. Slip the shroud onto the four mounting screws and tighten so it will fit flush with the face of the fireplace. The shroud should overlap the face of the fireplace a minimum of 2 inches. This is necessary to hold the supplied insulation in place and insure a good airtight seal around fireplace. Contact your dealer if a custom sized shroud is required. The optional brass or pewter trim for around the shroud, if ordered, should be assembled and placed on the shroud. Place the insulation that is provided behind the shroud on sides and top to assure a good seal on the face of your fireplace. Now push your insert the remainder of the distance into your fireplace until shroud panel seals top and sides. If your fireplace has deep mortar joints or if your fireplace is rough stone make sure all joints and cavities are sealed. More insulation may have to be added. This is regular unfaced fiberglass building insulation. Slightly lift your unit and remove the metal or cardboard that is protecting your hearth

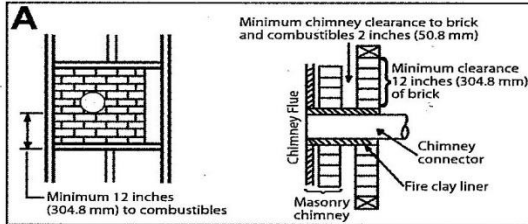
Installation As a Freestanding Stove:

Connection of stove to the chimney should be made as directly as possible and not more than two bends when needed should be used. No reduction in flue pipe below 7 inches diameter for Model 354 and 6 inches for Model 254 heater outlet should be used. The pipe connecting the stove to the chimney should be at least 24 gauge. Slope the flue pipe back towards the heater 1/4 inch per foot of horizontal run, so that any condensation forming in the pipe will be carried back into the heater. The connector pipe should be installed so that the upper pipe section fits inside the lower section. This way the condensation, creosote or soot building up inside the pipe will stay inside the pipe as it flows down the inside surface. Horizontal pipe runs should have the pipe seams turned up. Chimney connectors must not pass through the ceiling, concealed spaces, or enter the chimney in the attic. If connection is made through a combustible wall a listed and approved wall thimble/pass-through must be used following the manufacturer's instructions. Alternative site built pass-through options are on the following page. REMEMBER, that all pipe sections must be connected with at least three sheet metal screws per joint. A manual or barometric damper is recommended to maintain a chimney draft between -.03 to -.06 inches of water (kPa). Draft should never exceed -.08 (kPa).

Installation

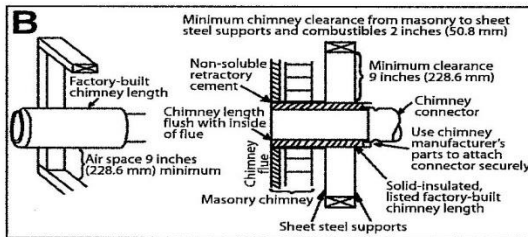
CHIMNEY INSTALLATION THROUGH WALL:

Here are four methods of combustible wall chimney connector pass-throughs. This information was provided from NFPA 211.



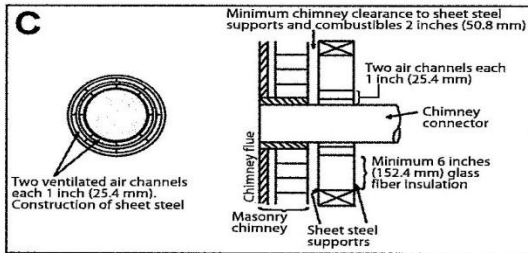
Method A. 12" (304.8 mm) Clearance to Combustible Wall

Member: Using a minimum thickness 3.5" (89 mm) brick and a 5/8" (15.9 mm) minimum wall thickness clay liner, construct a wall pass-through. The clay liner must conform to ASTM C315 (Standard Specification for Clay Fire Linings) or its equivalent. Keep a minimum of 12" (305 mm) of brick masonry between the clay liner and wall combustibles. The clay liner shall run from the brick masonry outer surface to the inner surface of the chimney flue liner but not past the inner surface. Firmly grout or cement the clay liner in place to the chimney flue liner.



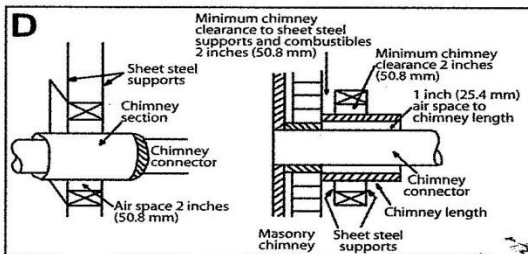
Method B. 9" (229 mm) Clearance to Combustible Wall Member:

Using a 6" (152 mm) inside diameter, factory-built Solid-Pak chimney section with insulation of 1" (25.4 mm) or more, build a wall pass-through with a minimum 9" (229 mm) air space between the outer wall of the chimney length and wall combustibles. Use sheet metal supports fastened securely to wall surfaces on all sides, to maintain the 9" (229 mm) air space. When fastening supports to chimney length, do not penetrate the chimney liner (the inside wall of the Solid-Pak chimney). The inner end of the Solid-Pak chimney section shall be flush with the inside of the masonry chimney flue, and sealed with a non-water soluble refractory cement. Use this cement to also seal to the brick masonry penetration.



Method C. 6" (152.4 mm) Clearance to Combustible Wall Member:

Starting with a minimum 24 gauge (.024" [0.6 mm]) 6" (152.4 mm) metal chimney connector, and a minimum 24 gauge ventilated wall thimble which has two air channels of 1" (25.4 mm) each, construct a wall pass-through. There shall be a minimum 6" (152.4 mm) separation area containing fiberglass insulation, from the outer surface of the wall thimble to wall combustibles. Support the wall thimble, and cover its opening with a 24 gauge minimum sheet metal support. Maintain the 6" (152.4 mm) space. There should also be a support sized to fit and hold the metal chimney connector. See that the supports are fastened securely to wall surfaces on all sides. Make sure fasteners used to secure the metal chimney connector do not penetrate chimney flue liner.



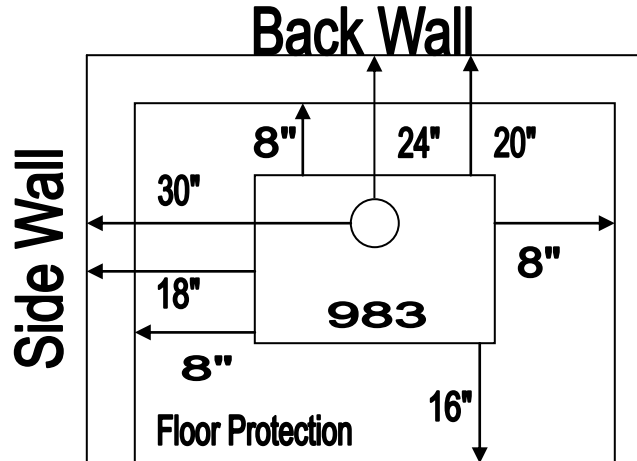
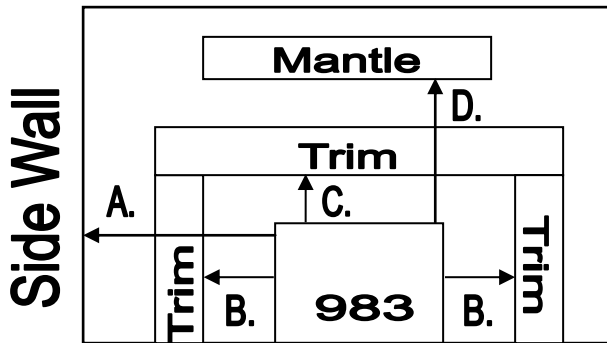
Method D. 2" (50.8 mm) Clearance to Combustible Wall Member:

Start with a solid-pak listed factory built chimney section at least 12" (304 mm) long, with insulation of 1" (25.4 mm) or more, and an inside diameter of 8" (2" [51 mm] larger than the 6" [152.4 mm] chimney connector). Use this as a pass-through for a minimum 24 gauge single wall steel chimney connector. Keep solid-pak section concentric with and spaced 1" (25.4 mm) off the chimney connector by way of sheet metal support plates at both ends of chimney section. Cover opening with and support chimney section on both sides with 24 gauge minimum sheet metal supports. See that the supports are fastened securely to wall surfaces on all sides. Make sure fasteners used to secure chimney flue liner.

NOTES:

1. Connectors to a masonry chimney, excepting method B, shall extend in one continuous section through the wall pass-through system and the chimney wall, to but not past the inner flue liner face.
2. A chimney connector shall not pass through an attic or roof space, closet or similar concealed space, or a floor, or ceiling.

983 Clearance Diagram



Listed solid fuel burning fireplace insert
 Minimum clearances to combustible materials:
 Unit to right side facing: B-6"
 Unit to left side facing: B-6"
 Unit to top facing: C-10"
 Unit to mantle: D-16"
 Unit to sidewall: A-36"

Minimum clearances to combustible materials:
 Unit to sidewall 18"
 Unit to back wall 20"
 Flue to sidewall 30"
 Flue to back wall 24"

Floor protection must be listed to UL 1618 and provide insulation of at least 3/8" thick millboard having an insulation Factor of K - 0.84 (R - 0.45) and must extend a minimum of 8 inches on the non-flue side and back, 12 inches or 2" beyond the flue connector on the flue side of the ash door, and 16 inches in front of ash door. An easy means of determining if a proposed alternate floor protector meets requirements listed in this manual is to follow this procedure:

- 1) Convert specifications to R-value:
 - a. R-value given – no conversion needed.
 - b. k-factor given with required thickness (T) in inches: $R = 1/k \times T$
 - c. C-factor 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 the 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 3/8-inch 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 to convert specification to R-value. $R = 1/k \times T = 1/.84 \times .375 = .446$

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 $R_{mineral\ board} = 1/.29 \times 0.125 = 0.431$

TotalR = $R_{brick} + R_{mineral\ board} = 0.8 + 0.431 = 1.231$

Step (c): Compare proposed system R of 1.231 to specified R of .446. Since the proposed system R is greater than required, the system is acceptable.

IV. OPERATION OF STOVE

WARNING: ALWAYS USE A CARBON MONOXIDE DETECTOR AND A SMOKE DETECTOR WHEN USING THIS APPLIANCE.

CAUTION: DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE. NEVER USE GASOLINE, KEROSENE, CHARCOAL LIGHTER FLUID, OR ANY TYPE OF FLAMMABLE FLUID TO START OR “FRESHEN UP” YOUR FIRE. KEEP ALL SUCH LIQUIDS WELL AWAY FORM THE HEATER WHILE IT IS IN USE.

CAUTION: DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS.

CAUTION: THE FUELING DOOR AND ASH REMOVAL DOOR MUST REMAIN CLOSED DURING OPERATION.

CAUTION: ALWAYS SLIDE DAMPER CONTROL OUT OPENING FLUE COMPLETELY BEFORE OPENING FUEL LOADING DOOR TO PREVENT SMOKE SPILLAGE INTO HOUSE.

Starting An Anthracite Coal Fire:

Starting an Anthracite coal fire takes time and patience. Take several sheets of newspaper, crumble into balls and place on top of grates. Next, lay fine kindling on top of the paper. The kindling must be dry and no larger than 3/4” in diameter. Layer the kindling in a crisscross fashion to allow good air flow. Pull the damper control at the top of the stove out to fully open the flue and also open the draft control on the ash door slide fully. Then light the paper just inside the door. Now, close the loading door and allow the kindling to catch fire. After a few minutes, open the loading door an inch or two for a few seconds before opening completely. This method will allow smoke to clear away from the door opening before the loading door is completely opened. Add a good amount of small, compact pieces of hardwood when the kindling fire is burning hot. Keep the draft controls fully open to establish a hot fire quickly. Anthracite coal requires a hot sustained fire to ignite. When there is a well-established kindling wood fire going spread it out with a poker and start adding coal. Nut and/or pea are the preferred sizes. Add a thin layer, approximately the thickness of the coal, covering the entire grate area. If the entire grate area is not covered, the coal will not ignite. Keep the draft controls open. Once a layer has started to burn and turn red, another layer can be added.

Another method for starting an Anthracite coal fire is by using self-starting charcoal briquettes. **DO NOT USE LIGHTER FLUID OR ANY OTHER FLAMMABLE LIQUID!** First, start by making a substantial mound of briquettes in the center of the grates. Light the mound of briquettes. Allow the mound to burn until the charcoal has turned white. Once the charcoal fire has reached this stage it should be spread out over the entire grate area and start adding coal. Add a thin layer, approximately the thickness of the coal, covering the entire grate area. If the entire grate area is not covered, the coal will not ignite. Keep the draft controls open. Once a layer has started to burn and turn red, another layer can be added.

Continue adding layers of Anthracite coal until there is a solid bed of burning coal. Adding too much coal at one time can put the fire out. Allow sufficient time between each layer (at least 10-15 minutes), so that each layer has time to ignite thoroughly before the next layer is put in. When a substantial bed of burning coal has been established, fill the stove to approximately the top of the firebrick. Never load

coal above the firebrick lining. A deep bed of coal will always burn more satisfactory than a shallow bed. Control the heat output of the stove by the amount of air (draft controls), not by the amount of fuel in the unit. When the deep bed of coal is completely ignited, adjust ash door draft control slide for the heat output you desire. The ideal setting is to burn the coal as slow as you can and that still gives you the amount of heat you want. Push damper control all the way in to slow chimney draft. If chimney is weak and your fire becomes very sluggish you may have to pull damper control back out a bit to improve the draft.

Starting A Bituminous Coal Fire:

Bituminous coal is much easier to start because it is more volatile. Take several sheets of newspaper, crumble into balls and place on top of grates. Next, lay fine kindling on top of the paper. The kindling must be dry and no larger than 3/4" in diameter. Layer the kindling in a crisscross fashion to allow good air flow. Pull the damper control at the top of the stove out to fully open the flue and also open the ash door slide draft control fully. Then light the paper just inside the door. Now, close the loading door and allow the kindling to catch fire. After a few minutes, open the loading door an inch or two for a few seconds before opening completely. This method will allow smoke to clear away from the door opening before the loading door is completely opened. Add a good amount of small, compact pieces of hardwood when the kindling fire is burning hot. Once this fire is established you can start to add coal. Size of Bituminous coal, sometimes referred to as lump coal, can vary greatly. It can range from so large it will almost not fit in the door to extremely small. All sizes will burn however bituminous coal has a low fusion temperature and the smaller sizes can fuse together. This can start to restrict air flow and the ability of the coal to burn. When this happens the block of burning coal must be broken up with a poker to restore proper operation. Add the coal in a couple of stages however it is not necessary to build it up in thin layers like anthracite coal. Do not ever build the coal bed higher than the firebricks as this can cause severe damage to your stove. When the coal bed is completely ignited the ash door draft slides can be set to your desired heat output. The ideal setting is to burn the coal as slow as you can and that still gives you the amount of heat you want. Push damper control all the way in to slow chimney draft. If chimney is weak and your fire becomes very sluggish you may have to pull damper control back out a bit to improve the draft.

WARNING: IF STOVE OR FLUE CONNECTOR PARTS GLOW RED YOU ARE OVER FIRING YOU'RE STOVE. DO NOT OVER FIRE. OVER-FIRING CAN CAUSE A HOUSE FIRE AND CAN SERIOUSLY DAMAGE YOUR STOVE. IF THE STOVE IS OVER FIRING CLOSE AIR INTAKES AND DAMPERS TO SLOW DOWN THE BURN.

Shaking And Reloading:

When burning Anthracite coal, it will be necessary to shake the grates morning and evening. Pull the damper control at the top of the stove out to fully open the flue and also open the ash door slide draft control fully to help reestablish your fire. Shaking should consist of short fast strokes on each grate bar. Continue shaking until small live coals are falling into the ash pan the whole way along each grate. If you stop shaking with just a few red coals falling into the ash pan the ash will build up on the grates causing the fire to be sluggish. The fire will not want to burn well, heat output will drop, and the fire will possibly go out. Do not permit ashes to remain piled high in the pan. **THERE MUST BE AN AIR SPACE OF A FEW INCHES BETWEEN THE ASHES IN THE ASH PAN AND THE GRATE BARS TO PREVENT DAMAGE, SUCH AS WARPING TO THE GRATE BARS THROUGH OVERHEATING. REMEMBER, WHEN BURNING COAL THE ASH PAN SHOULD BE EMPTIED DAILY. AFTER SHAKING MAKE SURE GRATES ARE SETTING FLAT WITH RIB DOWN. IF GRATES ARE LEFT UPSIDE DOWN WITH RIB FACING UP OR NOT FLAT SERIOUS DAMAGE MAY OCCUR. GRATES MAY WARP AND BECOME UNUSABLE.**

Reloading with Anthracite coal now depends on how deep of a bed of burning coal is left in the firebox. If there is a deep bed left you may be able to load the coal all at once. If there is a thin bed of coal left you will have to add the coal in layers allowing each layer to ignite before adding another. This is just as you did during start up. Once fire has reestablished you can push damper control back in to slow chimney draft. You also then reset your draft slides for desired heat output.

When burning Bituminous coal, it will be necessary to shake the grates morning and evening also. Bituminous coal can have a tendency to fuse into clinkers. The amount of clinkering is dependent on the grade of coal you are burning and the temperature you are burning at. Pull the damper control at the top of the stove out to fully open the flue and also open the ash door slide draft control fully to help reestablish your fire. Before shaking you may have to break up ash clinkers with a poker. Shake now until bits of red burning coal are dropping into the ash pan. You can now reload with coal. If fire is very low you may have to add coal in two batches with some time for starting in between. Once fire has reestablished you can push damper control back in to slow chimney draft. You also then reset your draft slides for desired heat output.

SOOT - FORMATION AND NEED FOR REMOVAL:

WHEN COAL IS BURNED, THE PRODUCTS OF COMBUSTION COMBINE WITH MOISTURE TO FORM A SOOT RESIDUE, WHICH ACCUMULATES ON THE FLUE LINING. WHEN IGNITED, THIS SOOT MAKES AN EXTREMELY HOT FIRE. THE CHIMNEY CONNECTOR AND CHIMNEY SHOULD BE INSPECTED AT LEAST TWICE MONTHLY DURING THE HEATING SEASON TO DETERMINE IF A SOOT BUILD-UP HAS OCCURRED. IF SOOT HAS ACCUMULATED, IT SHOULD BE REMOVED TO REDUCE THE RISK OF A CHIMNEY FIRE. ANY BUILDUPS MUST BE REMOVED.

CREOSOTE – FORMATION AND NEED FOR REMOVAL:

WHEN WOOD IS BURNED SLOWLY, IT PRODUCES TAR AND OTHER ORGANIC VAPORS, WHICH COMBINE WITH EXPELLED MOISTURE TO FORM CREOSOTE. THE CREOSOTE VAPORS CONDENSE IN THE RELATIVELY COOL CHIMNEY FLUE OF A SLOW-BURNING FIRE. AS A RESULT, CREOSOTE RESIDUE ACCUMULATES ON THE FLUE LINING. WHEN IGNITED THIS CREOSOTE MAKES AN EXTREMELY HOT FIRE. WHEN BURNING WOOD, THE CHIMNEY CONNECTOR AND CHIMNEY SHOULD BE INSPECTED AT LEAST ONCE EVERY TWO MONTHS DURING THE HEATING SEASON TO DETERMINE IF A CREOSOTE BUILDUP HAS OCCURRED. ANY BUILDUPS MUST BE REMOVED

Blowers:

Your unit is equipped with dual fans, which may run continually or may be operated automatically. When your switch is on manual your fans will run continually. You may want your switch on automatic and your fans will start when unit heat is up to 120 degrees and will stop if unit cools down to 100 degrees. The blowers bring the heat out of the fireplace and help spread it around the house.

Be careful when routing the power supply cord. Do not run the supply cord under the stove or let it contact the stove. This could cause the cord to melt creating an electrical hazard. The blowers should be cleaned of dust and dirt periodically. Replace only with original blowers available from your Hitzer dealer.

CAUTION: ALWAYS DISCONNECT UNIT FROM POWER SOURCE BEFORE ATTEMPTING TO SERVICE OR REPLACE ANY ELECTRICAL SYSTEM COMPONENTS

DISPOSAL OF ASHES:

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

CAUTION: THE ASH PAN AND PARTS OF YOUR STOVE WILL BE HOT. ALWAYS WEAR GLOVES AND PROTECTIVE CLOTHING WHEN EMPTYING ASH PAN OR WORKING ON A HOT OR BURNING STOVE.

COAL STORAGE: Storing your coal is quite simple. Coal is not affected by insects, rodents, or moisture. Bagged coal can be stacked anywhere that is convenient. Bulk coal you will want to have a bin of some sort just so it doesn't spread all over. Either bulk or bagged it can be stored inside or outside because it is unaffected by moisture. However if stored outside you may want to cover it or you will have to dig it out of the snow. Even some snow in with the coal is not a problem. Where a problem could develop is if a very large amount of snow is mixed in with the coal. That amount of moisture could put out the fire, especially if the fire is low.

V. MAINTAINING YOUR HEATING SYSTEM

NOTE: FAILURE TO MAINTAIN OR PROPERLY USE THIS APPLIANCE MAY CAUSE INJURY OR A HOUSE FIRE. IT WILL ALSO SHORTEN THE LIFE OF YOUR STOVE. AT THE BEGINNING OF EACH HEATING SEASON THIS APPLIANCE, THE CONNECTOR PIPE, AND CHIMNEY SHOULD BE INSPECTED TO SEE THAT IT IS CLEAR AND IN GOOD WORKING CONDITION.

Optional plated doors and parts;

The gold plating option is real gold. Gold is very soft. Any abrasive type cleaner or polish will destroy the finish. It is best to use a clean, soft, damp cloth or a clean, soft cloth and window cleaner to clean any of the plated parts. The pewter plated parts although not as soft as gold should be cleaned with non-abrasive cleaners and materials so as to not damage the finish.

Care and replacement of glass:

Never strike the glass or slam door shut as such abuse can damage the glass and cause it to fail. Never operate your appliance with broken glass. Never attempt to clean glass when hot. Never clean glass with harsh abrasives. Replace glass only with ROBAX CERAMIC 5mm x 9" (228.6mm) x 17 7/16" (443mm) available from your Hitzer dealer. With the double door option replace the ROBAX CERAMIC glass only with the glass specially cut for the Hitzer double doors available from your Hitzer Dealer or from Hitzer. Use of any other type of glass can cause glass to fail creating a fire hazard.

Should you be required to replace the glass first remove door from your stove and lay face down on a smooth solid surface. You will want to pad the surface especially if you have the optional plated door so as not to scratch the finish. Remove and save the glass retainers and screws. Carefully remove all broken glass and sealing gasket material. Install new glass using new sealing gasket material and reinstall all glass retainers and screws.

End of season maintenance:

Moisture is your enemy. Summertime moisture and high humidity can be absorbed by dust and fly ash and cause rust and corrosion. A complete cleaning of the stove and venting system will help reduce this. Brush down all fly ash from the interior of the stove. Then you should vacuum out the fly ash from inside the stove including ledges and corners. Check outside painted surface of stove. If surface rust or blemishes are present lightly rub with fine steel wool to remove. You can then touch up the paint with high temperature stove paint available at your Hitzer dealer.

Next clean the venting system. Disconnect the chimney connector pipe and clean all fly ash from it especially elbows and horizontal runs. It is not necessary to reinstall this pipe till you are ready to use the stove again in the fall. Have the chimney inspected and cleaned if necessary.

At the beginning of each heating season this appliance, the connector pipe, and chimney should be inspected to see that they are clear and in good working condition.

For more information in the proper installation and operation of your quality HITZER heater contact your local HITZER dealer.

LIMITED WARRANTY AGREEMENT

Hitzer, Inc., an Indiana Corporation, currently maintaining its office at 269 E Main Street, Berne, Adams County, Indiana, does herein make the following Limited Warranty as herein after set forth.

1. Hitzer, Inc. currently manufactures a stove designated as a Hitzer stove. In the manufacture of said stove, Hitzer Inc. utilizes components that Hitzer Inc. does not manufacture and/or produce and said limited warranty specifically excludes any and all components of said stove that are not manufactured by Hitzer Inc.
2. Said limited warranty shall be limited only to the original purchaser of a Hitzer stove, either from the aforementioned offices of Hitzer Inc. or from a duly authorized dealer and/or representative of Hitzer Inc.
3. This limited warranty shall commence as of the date wherein said purchase is made by the aforementioned original purchaser. Said limited warranty shall continue for a period of (5) years from and after that date, provided that the requirements hereinafter set forth are complied with in all detail by the original purchaser.

Said limited warranty shall apply only to those components of said stove that are specifically manufactured by Hitzer, Inc. Should an original purchaser during said period of time allege that a defect has occurred with reference to a part and/or component of said stove manufactured by Hitzer, Inc., said original purchaser shall send said defective part to the aforementioned offices of Hitzer Inc. for determination therewith to be made by Hitzer Inc.

Hitzer, Inc., should it determine that said component was defective, shall thereafter replace said component at no cost to the original purchaser. All shipping charges shall be the responsibility of the original purchaser and the said Hitzer, Inc. shall have the final determination and be the final determiner as to whether or not said component is defective. Any labor costs attendant therewith shall be borne solely by the original purchaser.

4. EXCLUSIONS

Since Hitzer, Inc. does not manufacture the following: paint, glass, gasketing, fire brick, brass trim, fans, grates, cast doors, and in addition thereto, any other component not specifically mentioned, which is not manufactured by Hitzer, Inc, any defect as to any of the

aforementioned shall not be covered in said warranty and is herein specifically excluded there from.

Likewise any damage produced to the components manufactured by Hitzer, Inc. from misuse, over burn, improper installation, including failure to comply with local building codes or any other abuse that Hitzer, Inc. should determine has occurred in the utilization of said stove, is herein specifically disclaimed.

5. This limited warranty is the only warranty supplied by Hitzer Inc. All other warranties, whether expressed or implied are hereby expressly disclaimed and original purchaser's recourse is expressly limited to the warranties set forth herein.

ALL LIABILITY FOR ANY CONSEQUENTIAL DAMAGES IS DISCLAIMED AND EXCLUDED HERE FROM. SOME STATES DO NOT ALLOW EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU

6. To make claim under this limited warranty, contact the dealer from whom you purchased this unit. If you dealer cannot be reached or is unable to provide service, contact Hitzer Inc.

In the event the unit must be returned to the factory for inspection or repair, the original purchaser must pay shipping to and from

Hitzer Inc.
269 E Main St.
Berne, In 46711

In order for the above stated limited warranty to be effective and binding upon Hitzer, Inc., this portion herein must be detached and sent by the original owner to Hitzer, Inc. at the above stated address within ten (10) days from the date of purchase of said stove.

Owner's Name: _____

Address: _____

Telephone No. _____

Date Purchased: _____

Model No: _____

Serial No: _____

Dealer's Name
and Address: _____

