

INSTALLER: Leave this manual with the appliance.

CONSUMER: Save these Instructions for future reference.



OPERATING INSTRUCTIONS AND OWNER'S MANUAL

Model #
N60WTS
N130WTS
NBF66WTS

READ INSTRUCTIONS CAREFULLY: Please read this entire manual before installation and use of this pellet fuel-burning room heater. Failure to follow these instructions could result in property damage, bodily injury or even death. Do not allow anyone who has not read these instructions to assemble, light, adjust or operate the stove. Place instructions in a safe place for future reference.

WOOD PELLET FIRE STOVE



Gros Ventre



Elk Ridge



Teewinot



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Download on the
App Store

THE AUTHORITY HAVING JURISDICTION (SUCH AS MUNICIPAL BUILDING DEPARTMENT, FIRE DEPARTMENT, FIRE PREVENTION BUREAU, ETC.) SHOULD BE CONSULTED BEFORE INSTALLATION TO DETERMINE ANY NEED TO OBTAIN A PERMIT. OBSERVE ALL LOCAL BUILDING CODES.

Mr. Heater a subsidiary of Enerco Group Inc.

4560 West 160th st Cleveland, Ohio 44135 1-866-740-2497/1-800-251-0001

66904 REV B

GENERAL HAZARD WARNING:

- ⚠ FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS STOVE CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.
- ⚠ ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS STOVE.
- ⚠ IF YOU NEED ASSISTANCE OR STOVE INFORMATION SUCH AS AN INSTRUCTIONS MANUAL, LABELS, ETC. CONTACT THE MANUFACTURER.

WARNING:

- ⚠ FIRE, BURN, INHALATION, AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE STOVE AS RECOMMENDED BY THE INSTRUCTIONS NEVER USE THE STOVE IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.

⚠ **WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

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FCC INFORMATION

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SPECIFICATIONS

| Model # | N60WTS | N130WTS | NBF66WTS |
|---|--|--|---|
| DIMENSIONS | | | |
| Stove Weight [LBS (kg)] | 198 (90) | 221 (100) | 265 (120) |
| Stove Dimensions LxWxH [in (cm)] | 23.5" x 21.75 " x 33.25" (59.7 x 55.2 x 84.5) | 24.0" x 24.5 " x 36.5" (61.0 x 62.2 x 92.7) | 26.18" x 24.53 " x 30.39" (66.5 x 62.3 x 77.2) |
| Air Inlet Pipe Diameter [in (mm)] | 2" (50) | 2" (50) | 2" (50) |
| Air Outlet Pipe Diameter [in (mm)] | 3" (80) | 3" (80) | 3" (80) |
| Pellet Hopper Capacity [LBS (kg)] | 60 (27.2) | 130 (59.0) | 66 (29.9) |
| OPERATION SPECIFICATIONS | | | |
| Fuel | Wood Pellet | Wood Pellet | Wood Pellet |
| Heats approximately ** [ft ² (m ²)] | 1500 - 2200 (139 - 204) | 2000 - 3000 (186 - 279) | 1800 - 2500 (167 - 232) |
| Carbon Monoxide Produced (g/min) | 0.59 on High 0.77 on Low | 0.00 on High 0.15 on Low | 0.00 on High 0.09 on Low |
| Pellet Consumption Rate Low [LBS/HR (kg/HR)] | 1.43 (0.65 - Dry) | 2.4 (1.09 - Dry) | 1.48 (0.67 - Dry) |
| Pellet Consumption Rate Medium [LBS/HR (kg/HR)] | 1.81 (0.82 - Dry) | 2.47 (1.12 - Dry) | 2.16 (0.98 - Dry) |
| Pellet Consumption Rate High [LBS/ HR (kg/HR)] | 4.01 (1.82 - Dry) | 6.04 (2.74 - Dry) | 4.59 (2.08 - Dry) |
| Stove Efficiency | 81.4% | 78.7% | 80.8% |
| Heat Output Rate Low [BTU/HR (kW)] | 9,739 (2.85) | 16,149 (4.73) | 10,151 (2.97) |
| Heat Output Rate Medium [BTU/HR (kW)] | 12,537 (3.67) | 16,644 (4.88) | 14,792 (4.34) |
| Heat Output Rate High [BTU/HR (kW)] | 28,165 (8.25) | 39,460 (11.56) | 31,107 (9.12) |
| ELECTRICAL SPECIFICATIONS | | | |
| Electrical Supply Requirements [Voltage / Frequency / Phase] | 120V / 60 Hz / Single | 120V / 60 Hz / Single | 120V / 60 Hz / Single |
| Electric Current During Lighting Phase [Amperes] | 3.3 | 3.3 | 3.3 |
| Auger Motor R.P.M. | 2.4 | 2.4 | 2.4 |

This manual describes the installation and operation of the brand "Grand Teton" wood pellet fire stove. This stove meets the applicable U.S. Environmental Protection Agency's emission limits for pellet fired heaters sold after 2020. Under specific test conditions these stoves have been shown to deliver heat at rates ranging from:

N60WTS: 9,739 to 28,165 Btu/hr

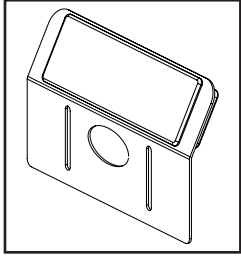
N130WTS: 16,149 to 39,460 Btu/hr

NBF66WTS: 10,151 to 31,107 Btu/hr

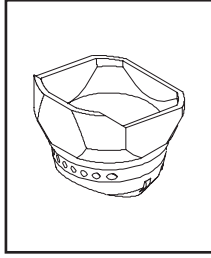
*BTU input/output will vary, depending on the brand of fuel you use in your Stove

** Depending on insulation rating of room and climate zone. Variations in climate and location affect attributes such as stove efficiency and CO produced.

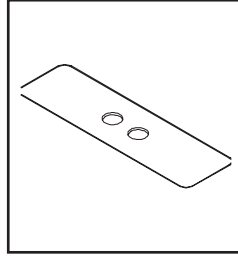
GETTING STARTED



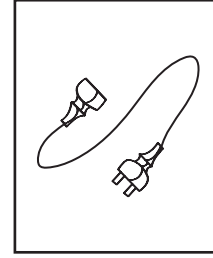
Display Panel



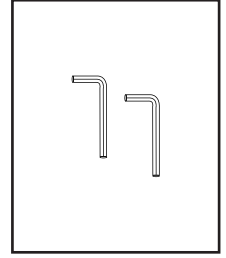
Firepot



Cover

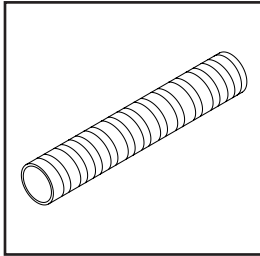


Main Power Cord

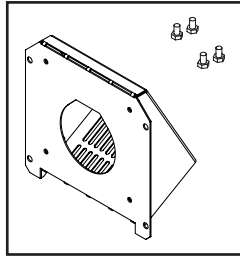


Allen Wrenches
(x2)

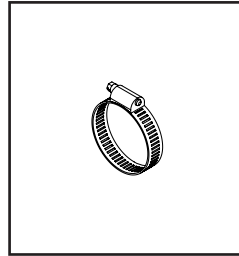
ACCESSORY KIT



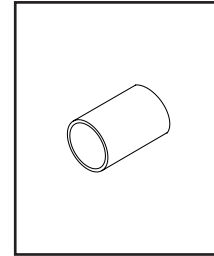
Flex Hose



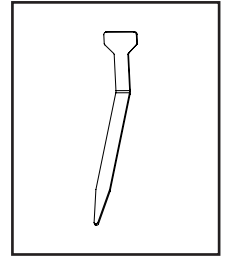
Termination Cap
and Screws (x4)



Hose Clamp



Fresh Air Adapter



Cleaning Tool

WHAT YOU'LL NEED (NOT SUPPLIED)

TOOLS REQUIRED

- Tape Measure
- Phillips Screwdriver or Comparable Electric Screw Driver & Drill Bit.
- Stud Finder
- Plumb Bob
- Reciprocating Saw
- High Temperature Silicone or High Temperature Sealant or High Temperature Flue Tape
- Floor Protection (see "FLOORING SPACE" and "FLOORING MATERIAL" on page 6)
- Manufactured venting of 3" (80mm) in diameter of type "L" or "PL" which is listed to UL 641, ULC S609 (Standard for 650 C Factory-Built Chimneys), or ULC/ORD C441. Install per chimney manufacturer's instructions (see page 9)

SAFETY EQUIPMENT (RECOMMENDED)

- Safety Glasses
- Gloves
- Closed-toed Shoes
- A friend (the stove is heavy, do not attempt to move the stove without assistance)

SAFETY PRECAUTIONS

HAVE AN ESTABLISHED PLAN FOR WHAT TO DO IN THE EVENT OF A FIRE. CONTACT YOUR LOCAL FIRE AUTHORITY TO ACQUIRE INFORMATION AND A PLAN FOR WHAT TO DO IN THE EVENT OF A CHIMNEY FIRE.

⚠ WARNING: DO NOT INSTALL IN SLEEPING ROOM.

⚠ CAUTION: HANDLE STOVE WITH CARE. AVOID STRIKING, SCRATCHING OR SLAMMING GLASS ASSEMBLIES. DO NOT OPERATE WITH CRACKED, BROKEN OR SCRATCHED GLASS.

⚠ WARNING: HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

⚠ WARNING: NEVER LEAVE CHILDREN NEAR THE STOVE UNATTENDED WHILE THE STOVE IS OPERATING.

⚠ WARNING: DO NOT OVERFIRE. OVERFIRING THE APPLIANCE MAY CAUSE A FIRE. IF THE UNIT OR CHIMNEY CONNECTOR GLOWS, YOU ARE OVERFIRING.

⚠ 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.

CARBON MONOXIDE

WARNING:

⚠ WHEN USED WITHOUT ADEQUATE COMBUSTION AND VENTILATION AIR, THIS STOVE MAY GIVE OFF EXCESSIVE CARBON MONOXIDE, AN ODORLESS, POISONOUS GAS.

WARNING:

⚠ EARLY SIGNS OF CARBON MONOXIDE POISONING RESEMBLE THE FLU, WITH HEADACHE, DIZZINESS AND/OR NAUSEA. IF YOU HAVE THESE SIGNS, STOVE MAY NOT BE WORKING PROPERLY. GET FRESH AIR AT ONCE! HAVE STOVE SERVICED.

SOME PEOPLE - PREGNANT WOMEN, PERSONS WITH HEART OR LUNG DISEASE, ANEMIA, THOSE UNDER THE INFLUENCE OF ALCOHOL, THOSE AT HIGH ALTITUDES - ARE MORE AFFECTED BY CARBON MONOXIDE THAN OTHERS.

Regardless of how safe this stove is, every fuel burning appliance creates Carbon Monoxide. It is always a good plan to reduce risk to you and your loved ones as much as possible by installing a Carbon Monoxide detector. It is recommended to install monitors in areas that are expected to generate carbon monoxide such as heater fueling areas, pellet fuel bulk storage areas, or sheds containing hydronic heaters. Follow the installation, operation, & maintenance instructions provided by the manufacturer of your detector.

SMOKE DETECTORS

Have at least 1 smoke detector on each floor of your building. Follow the installation, operation, & maintenance instructions provided by the manufacturer of your detector. Avoid false alarms by placing the detector outside the immediate vicinity of the stove. Typically a good installation location for smoke detectors is near bedrooms.

FOR MORE SAFETY INFORMATION

For auxiliary information regarding pellet stove safety and operation information contact the National Fire Protection Association (NFPA) by mail at:

NFPA, Batterymarch Park, Quincy, MA 02269

or visit the NFPA website:

<https://www.nfpa.org/>

CLEARANCE TO COMBUSTIBLES

The following stated clearances represent the minimum distances between the stove and any other object. No objects should encroach into this space. This includes but is not limited to carpet, furniture, children, pets, clothing, fuel, or any other object. These clearances may only be reduced by means approved by the regulatory authority having jurisdiction.

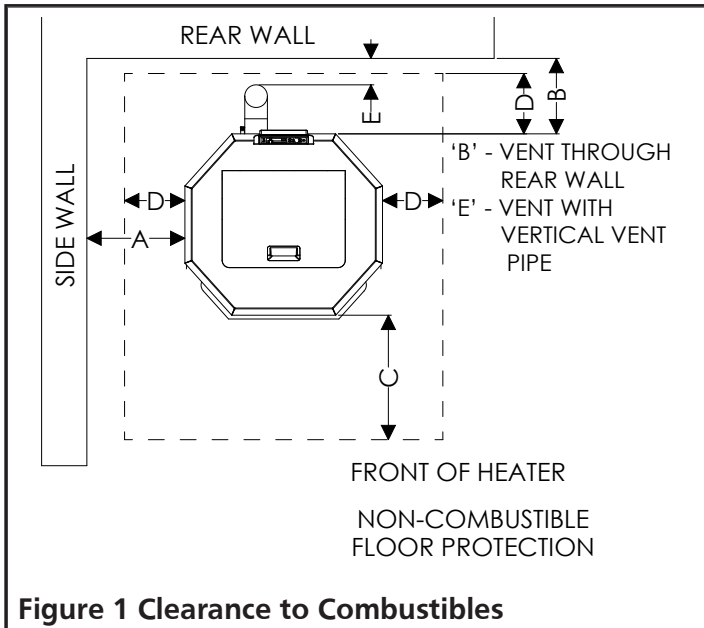


Figure 1 Clearance to Combustibles

| | USA | CANADA |
|---|--------------|--------------|
| A | 13" (330 mm) | 13" (330 mm) |
| B | 2" (51 mm) | 2" (51 mm) |
| C | 18" (457 mm) | 18" (457 mm) |
| D | 8" (203 mm) | 8" (203 mm) |
| E | 3" (76 mm) | 3" (76 mm) |

FLOORING SPACE & CLEARANCES

When installed on a combustible floor, non-combustible floor protection is required to:

- Cover the area beneath the stove and extend at least 18 inches (457 mm) to the front
- Cover the area at least 8 inches (203 mm) beyond each side of the room heater.
- Cover the area under the exhaust venting and 2 inches (50.8 mm) beyond each side.

Additionally, the wood pellet fire stove shall be positioned such that:

- It has at least 13" (330 mm) of clearance from the each side to the nearest body.

- It has at least 2" (51 mm) of clearance from the rear to the nearest body.
- Vertical runs of vent pipe must be at least 3" (76 mm) from any wall.

Finally, the area which the wood pellet fire stove is installed shall have a floor-to-ceiling distance of at least 84" (2134 mm).

FLOORING MATERIAL

Floor protection must be all of the following:

- Listed to UL 1618.
- At least 0.5" (13 mm) thick
- Constructed of non-combustible material.
- Have either:

Thermal resistance value R of $1.19 \frac{(\text{ft}^2)(\text{hr})(^\circ\text{F})}{\text{Btu}}$

Thermal conductivity value k of $0.84 \frac{(\text{Btu})(\text{inch})}{(\text{ft}^2)(\text{hr})(^\circ\text{F})}$

For assistance evaluating the suitability of substitute materials, the following equivalences of specifications and example below have been provided.

Thermal conductivity k = $\frac{\text{thickness}}{R} \left(\frac{(\text{Btu})(\text{inch})}{(\text{ft}^2)(\text{hr})(^\circ\text{F})} \text{ or } \frac{(\text{W})}{(\text{m}^2)(^\circ\text{K})} \right)$

Thermal conductance C = $\frac{1}{R} \left(\frac{(\text{Btu})}{(\text{ft}^2)(\text{hr})(^\circ\text{F})} \text{ or } \frac{(\text{W})}{(\text{m}^2)(^\circ\text{K})} \right)$

Example: Required to protect floor with R value of $1.19 \frac{(\text{ft}^2)(\text{hr})(^\circ\text{F})}{\text{Btu}}$.

Evaluating merit of 2 inch (57 mm) thick brick with thermal conductivity k = $4.16 \frac{(\text{Btu})(\text{inch})}{(\text{ft}^2)(\text{hr})(^\circ\text{F})}$ on top of inch (6.3 mm) thick mineral board that has C value of $2.3 \frac{(\text{Btu})}{(\text{ft}^2)(\text{hr})(^\circ\text{F})}$.

Step 1. Calculate the R value of each floor material

$$R_{\text{BRICK}} = \frac{\text{thickness}}{k} = \frac{2.25}{4.16} = 0.54$$

$$R_{\text{BOARD}} = \frac{1}{C} = \frac{1}{2.3} = 0.434$$

Step 2. Add the equivalent R values for each floor material

$$R_{\text{BRICK}} + R_{\text{BOARD}} = 0.54 + 0.434 = 0.974$$

Step 3. This combined R value is **insufficient** and so more protection must be provided. For example, by using 2 layers of bricks:

$$R_{\text{BRICK}} + R_{\text{BRICK}} + R_{\text{BOARD}} = 0.54 + 0.54 + 0.434 = 1.514$$

Step 4. Because this combined R value is larger than the specification, this is a sufficient method for protecting the floor area underneath the stove.

UNPACKING

1. Remove heater from carton.
2. Remove all protective packaging applied to heater for shipment.
3. Check heater for any shipping damage. If any damage is found immediately contact the manufacturer at 866-740-2497.

⚠ CAUTION: DAMAGED PARTS MAY COMPROMISE SAFE OPERATION.

- **DO NOT INSTALL INCOMPLETE COMPONENTS.**
- **DO NOT INSTALL SUBSTITUTE COMPONENTS.**
- **DO NOT INSTALL DAMAGED COMPONENTS.**

4. Some components are packaged unattached from the stove in order to ensure their safety during shipping. Please find the protective packaging, likely inside the stove door, to proceed with assembly.

ASSEMBLY

STEP 1 - Display Panel

Insert the display panel into the top and rear of the stove. Be sure that the display panel screen is facing towards the front of the stove. Secure the screen using two of the provided screws.

STEP 2 - Display Panel Power Cord

This cord should be wrapped up near the top of the stove. Insert free end into the back of the display panel (see figure 16 on page 15). This wire should already be connected to the stove's power board. This connection can be checked behind the access plate at the bottom and rear of stove.

STEP 3 - Main Power Cord

The main power cord attaches to the stove at the exposed socket in the rear of the stove. Once any necessary assembly of the display panel screen is complete, you may briefly plug your stove in and press red power button to ON to make sure that it functions properly before proceeding with installation. Turn OFF and unplug the stove once you confirm that the display panel works.

⚠ CAUTION: DO NOT LEAVE THE STOVE PLUGGED INTO ANY ELECTRICAL SUPPLY DURING ASSEMBLY OR INSTALLATION.

STEP 4 - Firepot

With the stove unplugged from any power supply, the firepot should be inserted into the stove so that it is securely positioned and also the hot surface igniter should be able to make physical contact with pellets that would be held in the firepot. See Figure 2 or 3.

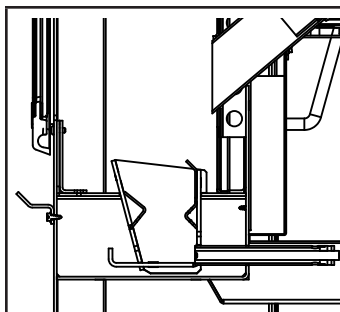


Figure 2 N60WTS and N130WTS firepot

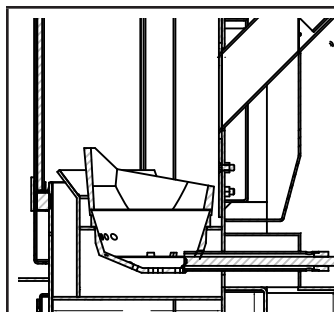


Figure 3 NBF66WTS firepot

A cleaning tool is also packaged which facilitates safely cleaning the firepot perforations of debris.

STEP 5 - Air Intake Kit

Locate the air intake kit packaged with the stove. See Figure 4. Take measurements of your space and plan for the installation of horizontal venting to the outside as may be required per recommendations in "FRESH AIR AND VENTILATION REQUIREMENTS 1" on page 8. Follow all ventilation requirements and guidelines specified in "INSTALLATION" on page 8.



Figure 4 Intake Kit

Additional Assembly N60WTS, N130WTS

- The door handle: open the door, and screw the plastic grip onto the thread of the handle.



Figure 5 Door Handle

INSTALLATION

CONTACT INFORMATION

If you have any questions regarding ventilation options of your stove, contact either:

The manufacturer Mr. Heater Company at 1-866-740-2497/1-800-251-0001 • Weekends/After Hours 423-488-6316 • grandtetoncollection.com. Our office hours are 8:00 AM – 5:00 PM, EST, Monday through Friday.

The National Fire Protection Association (NFPA) and request a copy of the latest editions of NFPA Standard 211. The mailing address of the NFPA is Batterymarch Park, Quincy, MA 02269.

⚠ WARNING: WHEN THIS STOVE IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

⚠ CAUTION: ANY DEVIATION OR ALTERATION FROM THESE INSTALLATION INSTRUCTIONS MAY RESULT IN DAMAGE TO YOU, THE STOVE, YOUR CHIMNEY, AND YOUR HOME. YOUR WARRANTY MAY BECOME VOID. READ AND FOLLOW ALL INSTRUCTIONS. Contact Mr. Heater with any comments, concerns, or questions.

⚠ CAUTION: CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

PLANNING

Make sure that you have selected the correct stove for your heating requirements by checking the specifications table on page 3.

Take measurements of your space and plan for your chimney system as detailed in the following instructions.

This stove may be installed for use in a mobile home. In addition to the following instructions, review and adhere to the mandatory requirements on page 11.

ELECTRICAL CONSIDERATIONS

The rear of the stove will need to be within power cord distance, which is roughly 80 inches (203 cm), of an electrical outlet. Lay the power cord out such that it will not come into contact with the stove's surface.

FRESH AIR AND VENTILATION REQUIREMENTS

When deciding the location of the stove ensure that the space will always have a source of fresh air available. Failure to do so may result in air starvation of other fuel burning appliances and the possible development of hazardous conditions.

Provision for outside combustion air may be necessary to ensure that fuel-burning appliances do not discharge products of combustion into the house. Guidelines to determine the need for additional combustion air may not be adequate for every situation. If in doubt, it is advisable to provide additional air. Outside combustion air may be required if these or other indications suggest that infiltration air is inadequate:

- The wood pellet fired stove does not draw steadily, experiences smoke roll-out, burns poorly, or back-drafts, whether or not there is combustion present.
- Existing fuel-fired equipment in the house, such as fireplaces or other heating appliances, smell, do not operate properly, suffer smoke roll-out when opened, or back-draft, whether or not there is combustion present.
- Any of the above symptoms are alleviated by opening a window slightly on a calm (windless) day.
- The house is equipped with a well-sealed vapor barrier and tight fitting windows and/or has any powered devices which exhaust house air.
- There is excessive condensation on windows in the winter.
- A ventilation system is installed in the house.

Additional combustion air may be directly provided from the outdoors to the wood pellet fired stove by using the included air intake kit to connect to the inlet at the bottom and rear of the stove. Any such installation must satisfy Clause 4 of CSA Standard B365.

⚠ CAUTION: NEVER DRAW OUTSIDE COMBUSTION AIR FROM:

- A WALL, FLOOR OR CEILING CAVITY.
- AN ENCLOSED SPACE SUCH AS AN ATTIC, GARAGE OR CRAWL SPACE.

⚠ CAUTION: IF USING AN AIR INTAKE CONNECTION THEN THE STOVE MUST BE INSTALLED SUCH THAT IT IS ATTACHED TO THE STRUCTURE.

CONNECTOR REQUIREMENTS AND ASSEMBLY

⚠ CAUTION: A CHIMNEY CONNECTOR SHALL NOT PASS THROUGH AN ATTIC OR ROOF SPACE, CLOSET OR SIMILAR CONCEALED SPACE, OR A FLOOR, OR CEILING. WHERE PASSAGE THROUGH A WALL, OR PARTITION OF COMBUSTIBLE CONSTRUCTION IS DESIRED, THE INSTALLATION SHALL CONFORM TO CAN/CSA-B365, INSTALLATION CODE FOR SOLID-FUEL-BURNING APPLIANCES AND EQUIPMENT

Any connector pipes or elbows should be installed with the crimped end on the stove end of the path (not the chimney cap end) and should be secured with three evenly spaced sheet metal screws.

Connectors, elbows, and chimneys should be type 'L' or 'PL' and have a 80mm, or 3 inch diameter as the flue system is based on negative pressure in the combustion chamber and a slight overpressure on the flue gas outlet. It is therefore important that the flue gas connection is fitted correctly and is airtight. It is recommended that connectors, elbows, and chimneys be at least 24 gauge, double walled, type B ventilation.

Note that bends in the exhaust path restricts air flow, reducing performance and provides a collection point for ash deposits requiring more frequent cleaning.

⚠ CAUTION: THE JOINTS OF ANY AND ALL CONNECTIONS FOR ANY VENTILATION SYSTEMS (COMBUSTION EXHAUST AND OPTIONAL INLET AIR DUCT) MUST BE SEALED WITH HIGH TEMPERATURE SILICONE.

GENERAL VENTING REQUIREMENTS

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

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

⚠ CAUTION: DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS WOOD PELLET FIRED STOVE.

This wood pellet fire stove must be connected to either of the following:

- Class A listed chimney complying with the requirements for Type HT chimneys in the Standard for Chimneys, Factory-Built, Residential Type and Building Heating Appliance, UL 103.

- A International Conference of Building Officials (ICBO) standards for solid fuel Stoves code-approved masonry chimney.

VENT TERMINATION

- Install exhaust vent at clearances specified by the vent manufacturer.
- Install exhaust vent terminations at clearances specified by the vent manufacturer.
- If using the air intake kit, ensure that there is at least 12 inches clearance between the exhaust vent termination and the intake air inlet.
- It is recommended to keep at least 12" (30.5 cm) of clearance between any vent termination and windows, doors, or outside corners.
- Use silicone to create an effective vapor barrier at the location where the chimney or other component penetrates to the exterior of the structure.
- For additional requirements check local codes.

Any vertically terminated chimney systems must meet the following minimum requirements:

- Must be at least 15 feet (4.6 m) tall, measured from the top of the stove to the tip of the chimney cap.
- Must be at least 3 feet above the roof, measured from the highest point of contact with the roof and the tip of the chimney cap.
- Must be at least 2 feet (61 cm) above the highest point of the slope of the roof within 10 feet (305 cm) horizontally.

Any horizontally terminated chimney systems must meet the following minimum requirements:

- Must have at least 12" (30.5 cm) clearance above grade, veranda porch, deck or balcony (Including vegetation and mulch).

PASSING THROUGH A WALL

Where passage through a wall or partition of combustible construction is desired, the installation shall conform to chimney manufacturer's instructions.

NOTE: In Canada, installation must conform to CAN/CSA-B365 when passing through combustible construction, illustrated in figure 6 .

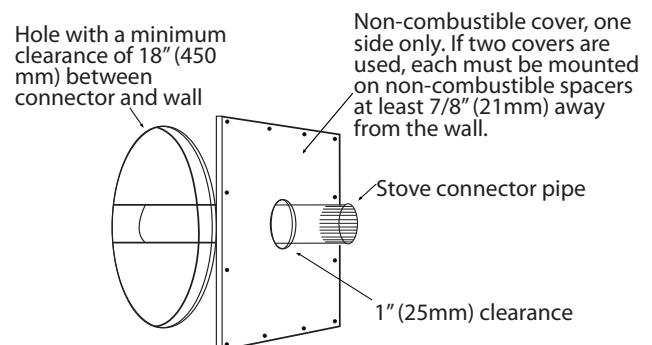


Figure 6
ONLY APPROVED CANADIAN WALL PASS THROUGH

NFPA 211 (US ONLY) APPROVED WALL PASS THROUGH TECHNIQUES

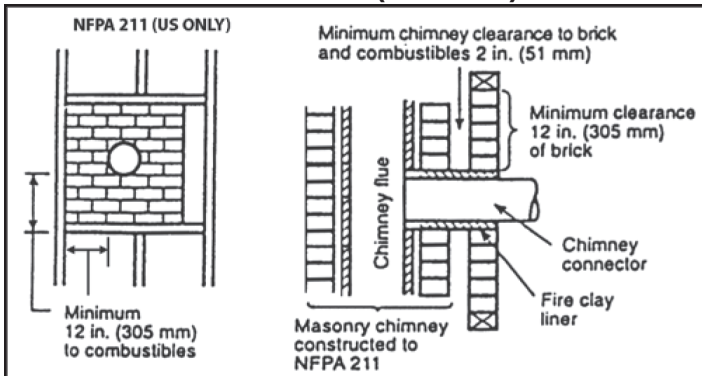


Figure 7 (US ONLY)

Brick Masonry: Minimum 3.5 inch (89 mm) thick brick masonry all framed into combustible wall with a minimum of 12 inch (305 mm) brick separation from clay liner to combustibles. The fireclay liner shall run from outer surface of brick wall to, but not beyond, the inner surface of chimney flue liner and shall be firmly cemented in place.

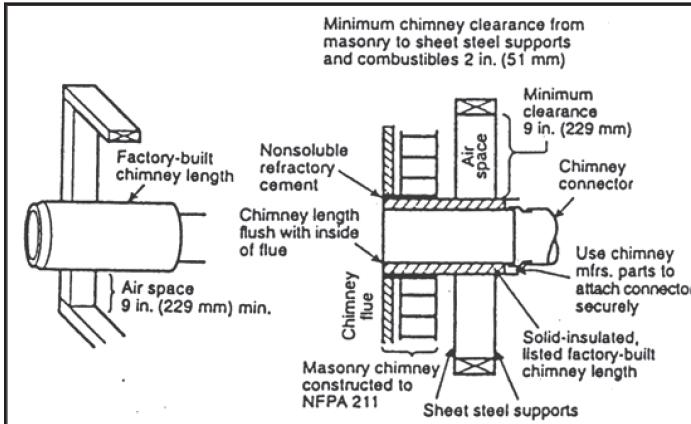


Figure 8 (US ONLY)

Insulated Sleeve: Solid-insulated, listed factory-built chimney length of the same inside diameter as the chimney connector and having 1 inch (25.4 mm) or more of insulation with a minimum 9 inch (229 mm) air space between the outer wall of the chimney length and combustibles.

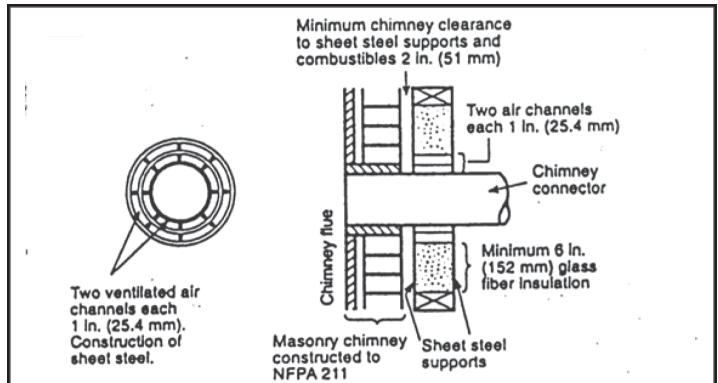


Figure 9 (US ONLY)

Ventilated Thimble: Sheet steel chimney connector, minimum 24 gauge in thickness, with a ventilated thimble, minimum 24 gauge in thickness, having two 1 inch (25.4 mm) air channels, separated from combustibles by a minimum of 6 inches (152 mm) of glass fiber insulation. Opening shall be covered, and thimble supported with a sheet steel support, minimum 24 gauge in thickness.

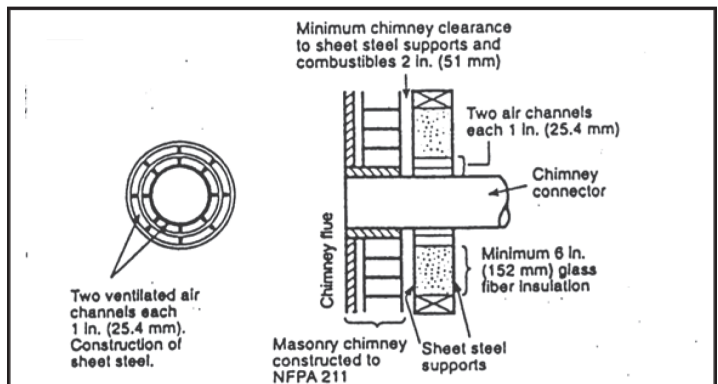


Figure 10 (US ONLY)

Chimney Section Pass-through: Solid insulated, listed factory-built chimney length with an inside diameter 2 inches (51 mm) larger than the chimney connector and having 1 inch (25.4 mm) or more of insulation, serving as a pass-through for a single wall sheet steel chimney connector of minimum 24 gauge thickness, with a minimum 2 inches (51 mm) of air space between the outer wall of chimney section and combustibles. Minimum length of chimney section shall be 12 inches (305 mm) chimney section spaced 1 inch (25.4 mm) away from connector using sheet steel support plates on both ends of chimney section. Opening shall be covered, and chimney section supported on both sides with sheet steel support securely fastened to wall surfaces of minimum 24 gauge thickness. Fasteners used to secure chimney section shall not penetrate chimney flue liner.

ADDITIONAL MOBILE HOME REQUIREMENTS

⚠ WARNING: DO NOT INSTALL IN SLEEPING ROOM.

PARTS & MATERIALS REQUIRED (NOT SUPPLIED)

- A 80mm diameter chimney which complies to UL 103, Standard for Factory-Built Chimneys for Residential Type and Building Heating Appliances.
- Ceiling thimble suitable for use in mobile home.
- Roof thimble suitable for use in mobile home.
- Spark arrestor suitable for use in mobile home.
- Roof flashing suitable for use in mobile home.

ADDITIONAL INSTALLATION REQUIREMENTS

- The chimney shall attach directly to the room heater and shall extend at least 3 feet (0.9 m) above the part of the roof through which it passes.
- The top of the chimney is to be at least 2 feet (0.6 m) above the highest required elevation of any part of the mobile home within 10 feet (3 m) of the chimney.
- All roof-chimney terminations shall be able to be readily removed at or below an elevation of 13½ feet (4.1 m) above ground level and reinstalled without the use of special tools or instructions.
- The chimney assembly shall be provided with a mechanical securement means to secure the chimney to the ceiling support box.
- Chimney Guard Requirements:
 - When the chimney exits the mobile home at a location other than through the roof, and exits at a point 7 feet (2.1 m) or less above the ground level on which the mobile home is positioned, a guard or method of enclosing the chimney shall be provided at the point of exit for a height up to 7 feet.
 - The chimney guard shall not have any openings large enough that a 3/4 inch diameter rod can enter.
 - The chimney guard shall not have any openings large enough that a 1/2 inch diameter rod can enter beyond 4 inches
- The stove must be on installed on a level surface which can support the weight of the stove.
- The stove must be bolted to the level surface so that it permanently secured and can not be moved, tipped, or have ventilation seals compromised.
- The stove must be provided a permanently ducted source of outside air to support combustion which meets the following requirements:
 - The duct must be made of metal exclusively, not other materials such as plastic.

- The end of this duct must be equipped with a screen which prevents rodents from infiltrating.
- The end of this duct must be kept free of leaves, snow, ice, or other debris that could restrict air supply when the appliance is in operation.
- The joints of any and all connections for both of ventilation systems (the inlet air and the combustion exhaust) must be sealed with high temperature silicone.
- The chimney must comply with all applicable codes and requirements of the authority having jurisdiction.
- The chimney must be removed for any mobile home transportation, and reinstalled abiding all requirements after transportation.

The flue system is based on negative pressure in the combustion chamber and a slight overpressure on the flue gas outlet. It is therefore important that the flue gas connection is fitted correctly and is airtight.

⚠ CAUTION: THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, CEILING, AND ROOF MUST BE MAINTAINED.

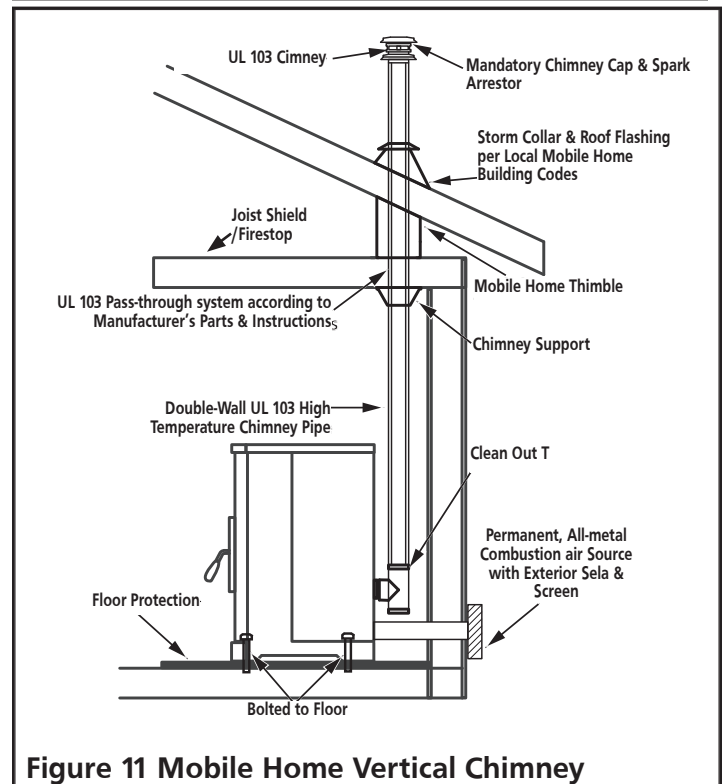
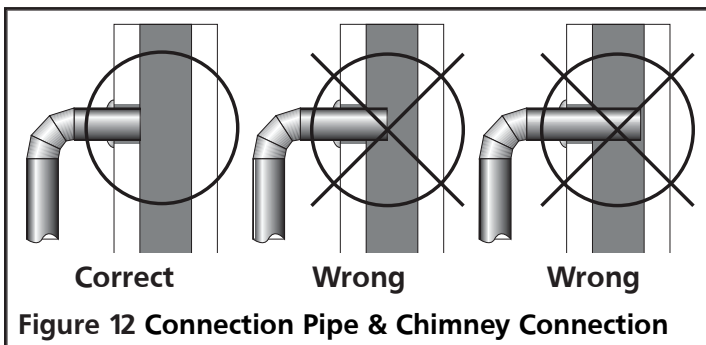


Figure 11 Mobile Home Vertical Chimney

LINED MASONRY CHIMNEY INSTRUCTIONS & DIAGRAM

This stove is designed to be vented through a masonry chimney which conforms to local building codes, fire codes, and latest edition of NFPA 211 US or CAN/CSA-B365.

1. If the connection piping from the stove to a masonry chimney is made through a combustible wall, consult a qualified mason or chimney dealer for consultation. To ensure safety, the installation should only be done by a qualified installer. The installation must conform to the regulations established by local fire codes and building codes
2. The chimney connection must not be obstructed by the chimney connector pipes, such as the figure 12 below illustrates.



3. If there is an opening at the base of the chimney it must be closed tightly.

MANUFACTURED CHIMNEY INSTRUCTIONS & DIAGRAM

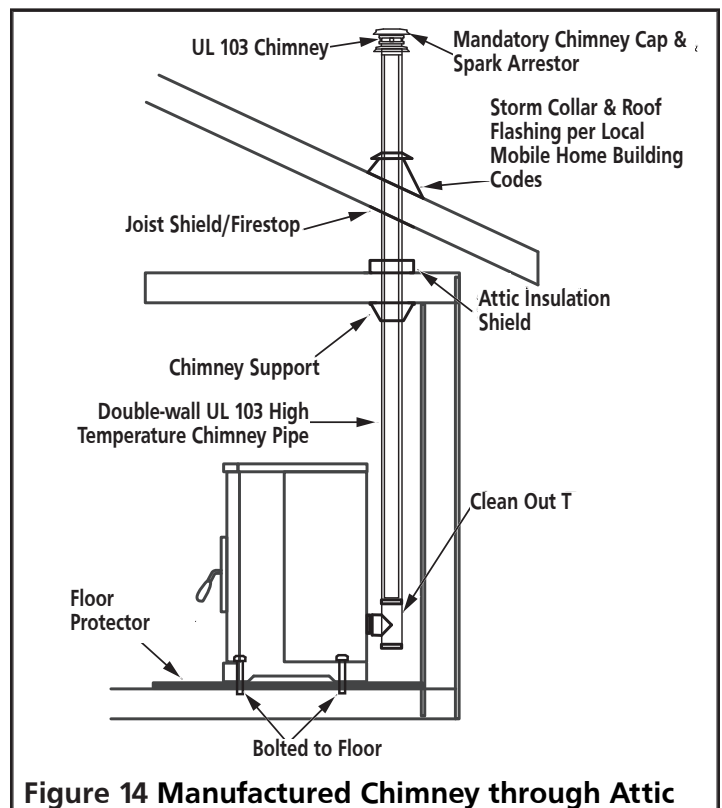
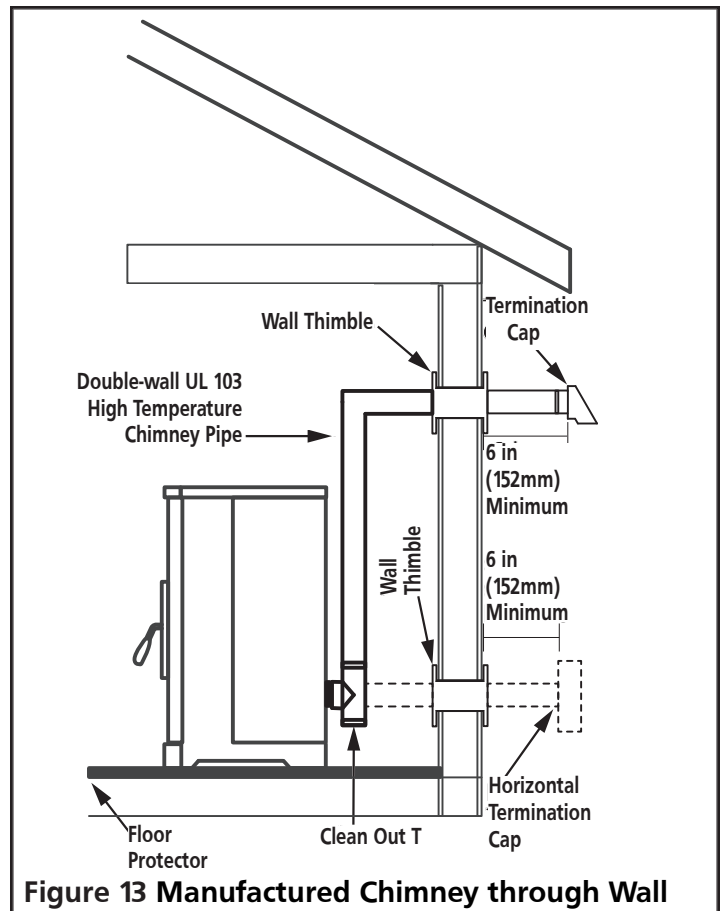
⚠ WARNING: DO NOT USE SINGLE-WALL CONNECTION PIPE AS A CHIMNEY.

This stove is designed to be used with either a UL 103HT (US)/ULC-S629 (CAN) listed manufactured chimney or an approved lined masonry chimney. Not all manufactured chimney are UL103 HT/ULC-S629 listed. Home centers, hardware stores, HVAC supply stores, and the Online websites of chimney manufacturers will be able to provide stove pipe that is rated to these standards.

This listing indicates that the Chimney is rated for high temperatures up to 2100 F (1149 C)

Only use components that all come from the same manufacturer. Do not mix brands of components for the same ventilation system.

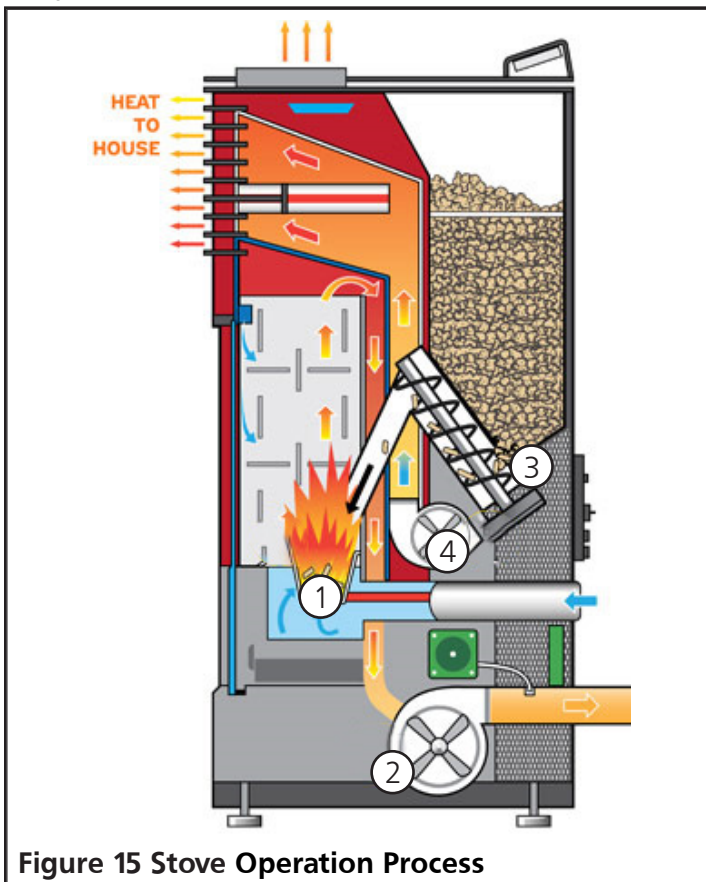
The following figures illustrate various methods and requirements of using a manufactured chimney and connection pipes to vent the stove.



OPERATION

THEORY OF OPERATION

1. Combustion occurs in the fire pot, supported by air introduced to and under the fire pot. Note that some air blows in from the top of the combustion chamber; this helps keep ash and debris from accumulating on the door.
2. The exhaust blower draws combustion products from the stove and directs it out user-installed venting.
3. The auger transfers pellets from the hopper to the fire pot to sustain the fire.
4. A convection blower propagates air along the outside of the fire box, circulating warm and clean air into the room.



APPROVED FUEL:

Do not use less than PFI premium-grade pellets. Use 100% natural hardwood pellets, untreated and without bonding agents added (max bark proportion of 5%) are the only fuel approved for use with this pellet stove. For best results see the specifications below:

- Calorific Value of 5.3 kWh/kg
- Density of 700 kg/m³
- The pellets should be low ash (less than 1 % ash)
- The pellets should be less than 30mm long, with a diameter between 5 and 6.5 mm.

- Do not use the pellet sediment & debris at the bottom of the pellet container.
- Store pellets in sacks, made of environmentally neutral or biologically degradable plastic or from paper (2-3 layers / similar to cement packaging).

Use of wood pellets that do not meet these specifications may result in ignition difficulty, accelerated creosote or flyash build up, incomplete combustion, low heat yield, and blackening of the glass in the door.

⚠ CAUTION: DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE.

⚠ CAUTION: DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.

⚠ CAUTION: NEVER ATTEMPT TO USE ANY OF THE FOLLOWING MATERIALS AS FUEL:

- Paper products, cardboard, or particleboard;
- Garbage;
- Animal remains or manure;
- Lawn clippings or yard waste;
- Waste petroleum products;
- Coal;
- Construction or demolition debris;
- Railroad ties or pressure-treated wood;
- Materials containing
 - asbestos
 - plastic
 - rubber (including tires)
- Petroleum products such as
 - paints
 - paint thinners
 - asphalt products

BURNING THESE MATERIALS MAY RESULT IN RELEASE OF TOXIC FUMES OR RENDER THE HEATER INEFFECTIVE AND CAUSE SMOKE

Do not store wood pellet fuel or other fire starting materials on floor protector, underneath stovepipe, or anywhere within minimum clearances from combustible surfaces specified on page 6.

Wood pellet fuel should be stored in a dry, well ventilated area.

⚠ CAUTION: DO NOT store unused pellets in the stove for future use as they may collect moisture. Using wet or damp pellets may result in ignition difficulty, incomplete combustion, and the potential for a hopper fire.

OPERATING PRECAUTIONS

⚠ WARNING: HOT WHILE IN OPERATION. DO NOT TOUCH THE STOVE. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

⚠ CAUTION: ENSURE THAT THE FIREPOT AND THE PAN UNDERNEATH ARE CLEAN AND IN THE PROPER OPERATING POSITION BEFORE USING THE STOVE.

⚠ WARNING: NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR 'FRESHEN UP' A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IT IS IN USE.

PAINT CURING

To allow the paint to bond durably to the stove, start by running the stove on P1 Maximum Power for at least 60 minutes. Provide cross ventilation to eliminate odors or smoke cause by this curing process.

OPERATING PROCEDURE: TURN ON STOVE

NOTE: If the display screen indicates that the stove is "Switching Off" the stove can not be interrupted. The Display Message will highlight to indicate that the state will not be changed. Only once the "Switching Off" cycle has finished and the exchanger has cooled can the stove be turned back on again.

1. Plug power cord into socket on the rear bottom of stove and press the red ON/OFF toggle switch above it to ON. See Figure 16.

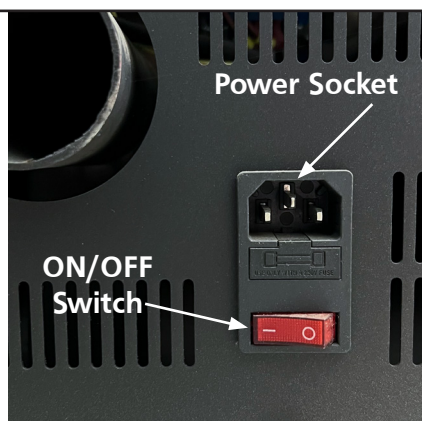


Figure 16 Power Socket/ON/OFF Switch

NOTE: TO PREVENT STOVE FROM BEING OPERATED, TURN OFF RED POWER SWITCH ON BOTTOM, REAR OF STOVE.

2. Make sure that seals on the ash drawer and door are in good condition. If the stove has never been run before, add a handful of pellets directly to the firepot. Close the ash drawer and doors securely, and check that all side panels are all properly installed.

NOTE: DO NOT USE GRATES, IRONS, OR ANY OTHER METHODS OF SUPPORTING WOOD PELLET FUEL. ONLY THE FIREPOT SPECIFIC TO YOUR MODEL OF STOVE MAY BE USED.

3. Open the hopper. Ensure that there are a sufficient number of pellets to satisfy your heating requirements. Close the hopper.
4. Press and hold the power icon for 3 seconds on the display panel. The stove will begin to automatically progress through the following stages:
 - Cleaning Cycle: The firepot draws dust, ash, & remnants out.
 - Feeding Cycle: Pellets will be transported from the Pellet Hopper into the fire pot by the auger. This can take 5 to 15 minutes depending on the model of stove.
 - Lighting Cycle: The electrically powered hot surface igniter will run the entire lighting cycle and for a couple minutes after the stove reaches stabilizing and also begin combustion of the pellets in the firepot. The heater will remain in the Lighting Cycle until the exhaust smoke reaches a designated temperature.
 - Stabilization Cycle: The heater adjusts to fine tune the stove output to the desired temperature. Stabilizing will continue until the stove reaches the thermostat desired temperature.
5. The stove has been successfully turned on.

OPERATING PROCEDURE: TURN OFF STOVE

NOTE: THE STOVE MAY BE TURNED OFF, REGARDLESS OF WHAT CYCLE THE DISPLAY SCREEN INDICATES THAT THE STOVE IS IN, BY DEPRESSING AND HOLDING THE POWER BUTTON FOR TWO SECONDS. ONCE THE DISPLAY SCREEN INDICATES THAT THE STOVE IS IN THE STABILIZATION CYCLE PRESS THE POWER BUTTON AGAIN. THE STOVE WILL ENTER THE COOLING CYCLE, STATED ON THE DISPLAY SCREEN.

⚠ CAUTION: AFTER THE COOLING CYCLE THE STOVE AUTOMATICALLY BEGINS THE PROCESS OF CYCLING ON.

1. Press the power icon on the display panel. The stove will begin to automatically progress through the following stages:

- Switching Off: Any remaining fuel in the firepot will continue to burn and produce heat and flame. After 5 to 8 minutes the firepot ought to be devoid of fuel. The heat exchanger may then begin to cool off.
- Goodbye: The final message from the display screen to designate that the stove has cooled.

2. The stove has been successfully turned off.

OPERATION WITH AN ELECTRICAL GENERATOR

This stove is designed to have the option of being powered by an electrical generator, though not all electrical generator's may be compatible with this stove. Consult the information regarding your generator's electrical regulator and make sure that it meets the electrical requirements of this stove, as stated on page 3.

MINIMIZING CREOSOTE FORMATION

See "MAINTENANCE" on page 18 for an explanation of Creosote formation and removal. To slow the build up of creosote within your chimney burn only the recommended fuel, see page 13.

DISPOSAL OF ASHES

⚠ CAUTION: EMBERS MAY BE OBSCURED BY ASH. HANDLE ASH WITH TOOLS SUFFICIENT FOR FIRE TENDING, NEVER DIRECTLY WITH YOUR HANDS. WEAR FIRE RETARDANT CLOTHING AND PROTECTIVE EYEWARE.

Ashes should be placed in a metal container with a tight fitting lid.

1. Other waste shall not be placed in ash containers.
2. 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.
3. Wood mineral residue (approximately 1-2%) remains in the ash and is an excellent natural fertilizer product for all garden plants. Before disposing ashes of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all any and all cinders have thoroughly cooled and should also be "quenched" with water.

SMART STOVE WIFI CONNECTION

This stove can be monitored, controlled, and programmed by using the smart stove app by NHHATC

which is available for iOS or android device through the app store.

Step 1. Download the Smart Stove app by NHHATC.

Step 2. Open the Smart Stove app. The app opens, by default, to the "Register" screen. Click on the "Register" button.

Step 3. Enter your email address in the "Email" field and click the "Get Verification Code" button.

Step 4. Enter the verification code that was emailed to you in the "Enter Verification Code" field.

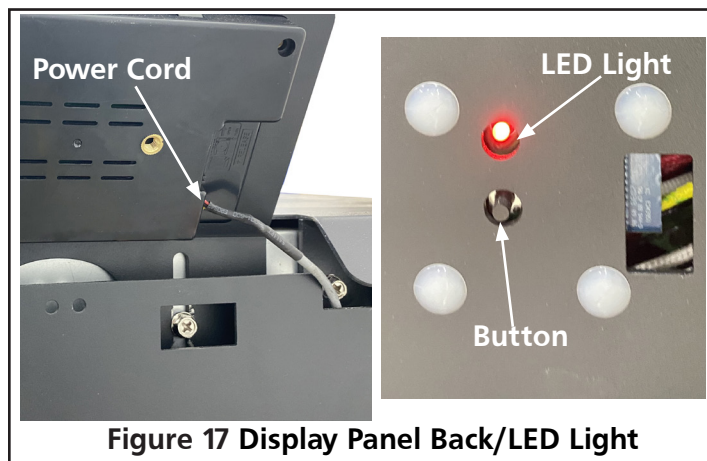
Step 5. Now you can set a unique password for your device in the "Set Password" field and hit the "Done" button.

Step 6. If you have no other wifi enabled devices already added to this app there will be a large "Add Device" button in the center of the screen which you can select. Otherwise, select the + symbol in the top right of the screen.

Step 7. Make sure that your device is connected to the wifi network which you want the stove to be connected to.

Step 8. Make sure that the wood pellet fire stove is plugged into an electrical outlet and can be powered on.

Step 9. Follow the directions on the screen by pressing and holding the connection button for 3 seconds on the back bottom of the stove as illustrated in the figure below. Once you observe the desired blinking pattern on the indicator light, press the confirmation button at the bottom of the screen.



Step 10. Enter the password for the wifi network so that the stove can connect to the wifi network.

Step 11. The stove will begin pairing with the device running the application through the wifi network. This process may take a few minutes.

Step 12. After the device and stove are paired, you will be able to see the pellet stove as a connection option on the “Devices” tab at the bottom of the app screen.

Step 13. On your device, go to your device’s wifi settings which will now include the stove as an option. Select the stove as your wifi connection.

Step 14. Open the Smart Stove phone app again.

Step 15. You may now select this stove from this added devices list in order to monitor, control, and program the stoves operation.

WIFI CONTROLS

Once connected to the stove (See step 13 of Wifi Connection) you can remotely monitor and adjust the operation of the stove. See below for explanation:

- **Device Name:** it is possible to rename the stove, so that if you have multiple stoves set up for operation you can more easily differentiate between while using the smart stove application.
- **Device Sharing:** it is possible to share connection to the stove with other devices via SMS or email.
- **Eco Mode:** There are two ECO settings which can be selected which will conserve wood pellets while maintaining the desired temperature. Pressing the ECO button will allow you to toggle whether a specific eco setting is enabled, or to turn off the feature entirely.
 - **ECO 1:** The stove shuts off when the desired temperature has been reached. The stove will turn back once the room cools to a factory set temperature.
 - **ECO 2:** The stove turns to minimum power preset P4 when the desired temperature has been reached. The stove will turn on to higher power settings once the room cools to a factory set temperature.
- **Preset configurations:** There are four selectable configurations which adjust the speeds of the combustion fan and the room air circulation fan. Pressing the preset configuration button will allow you to toggle whether a specific preset configuration is enabled, or to turn off the feature entirely.
 - P1 [Maximum Power] Settings
 - P2 [Medium Power] Settings
 - P3 [Low Power] Settings
 - P4 [Minimum Power] Settings

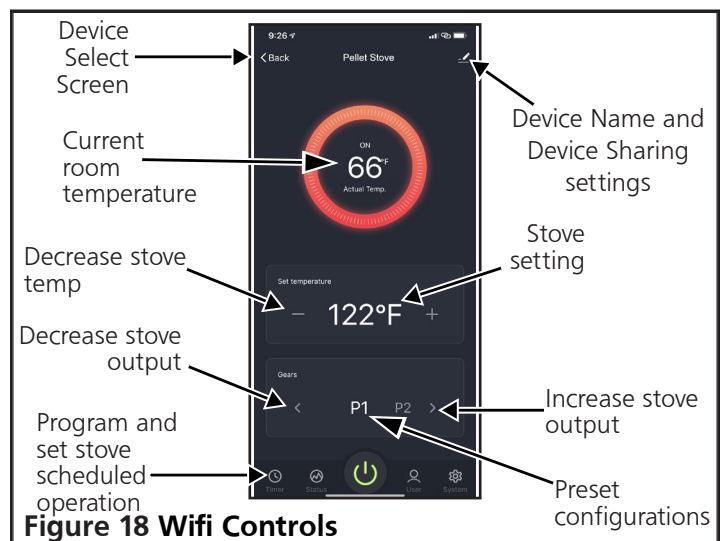
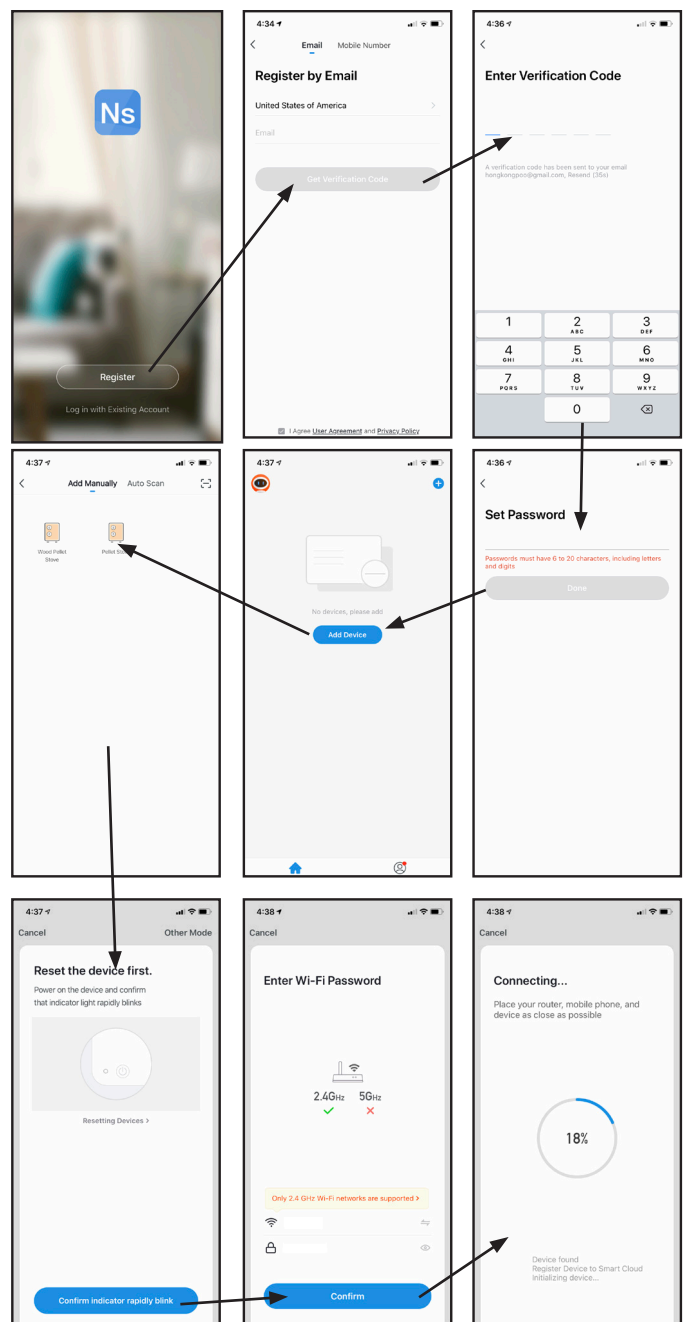


Figure 18 Wifi Controls

N60WTS, N130WTS, AND NBF66WTS MULTI FUNCTION CONTROLS

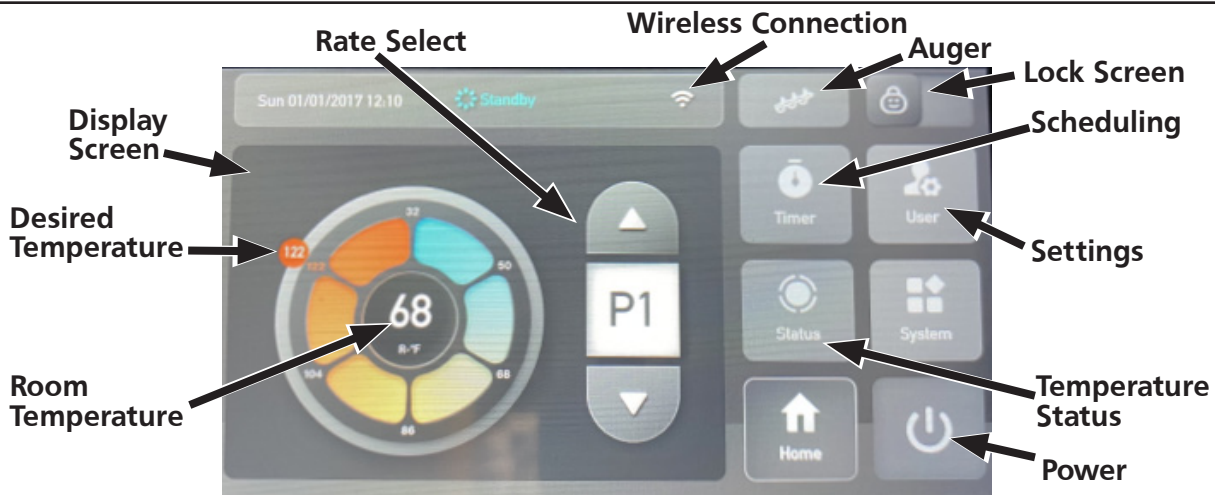


Figure 19a Mounted Multi Function Display Panel



Figure 19b User Menu

Mounted Button Functionality: Normal Operation

Power

- Press to begin stove heating if the stove was off.
- Press to begin stove shut off if the stove was on.

Temperature Status

- Press to see temperature readings of the stove.
- Displays the exhaust pipe temp, the hopper protection temp and number of run hours etc.

Settings

- Press to enter User Settings Menu (Figure 19b).
- On this menu, you may select °F or °C, ECO Mode (see Wi-Fi controls for explanation), Stir Time/Exhaust Fan/Blower settings, etc.

Scheduling

- Press to enter desired run times.

Lock Screen

- Lock screen will illuminate when screen is locked in a Programmed Mode.

Auger

- Allows user to use/engage the auger directly, prep/pre-feed the firepot, or get pellets into the auger/unit prior to lighting.

Rate Select

- Pressing the rate select arrows will toggle between four configurable heating presets (see Wi-Fi controls for explanation of P#’s). The currently set preset is displayed between the Up and Down arrows.

Desired Temperature

- Using your finger, press down and rotate around the wheel to desired temperature (only applicable when using Thermostat and ECO modes).

CAUTION: The manufacturer has programmed preset rates to ensure proper operation. It is not advised to reprogram rate settings.

MAINTENANCE

This wood heater needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.

⚠ CAUTION: TURN OFF AND UNPLUG THE STOVE FROM ANY SOURCE OF ELECTRICAL POWER TO UNIT BEFORE PERFORMING ANY MAINTENANCE OR SERVICE OPERATIONS.

⚠ CAUTION: ALLOW STOVE TO COOL DOWN BEFORE PERFORMING ANY MAINTENANCE OR SERVICE OPERATIONS.

⚠ CAUTION: DURING ANY ASSEMBLY OR DISASSEMBLY, BE WARY TO NOT DROP ANY ITEMS (SCREWS, ETC.) INTO THE PELLET HOPPER. DEBRIS CAN JAM THE AUGER AND DAMAGE THE STOVE.

The frequency which your stove's requires cleaning and maintenance depends on the fuel that you use. High moisture, ash, dust, and chips can more than double the necessary maintenance. Use only the tested and recommended wooden pellets fuel.

Clean the fire pot and fire pan every day, before using the stove and while the stove is cooled down, the stove is unplugged, and there are no embers. Use a vacuum cleaner to remove ash and debris from the fire pot, and then lift the fire pot to also clean the fire pan. It is important that ash or debris does not block any air openings.

A general cleaning schedule is as follows:

- Fire Pot: After 10 bags of wood pellets, or every day. Whichever is more frequent.
- Ash Drawer: After 50 bags of wood pellets
- Passageways: After 100 bags of wood pellets
- Blower: After 100 bags of wood pellets

CLEANING: FIRE POT & PAN

⚠ CAUTION: IF STOVE IS INTENDED TO OPERATE CONTINUOUSLY, IT MUST BE TURNED OFF TWICE WITHIN EACH 24 HOUR PERIOD IN ORDER TO CLEAN THE FIRE POT AND FIRE PAN. ALWAYS ALLOW THE STOVE TO COOL DOWN AND ANY EMBERS TO EXTINGUISH BEFORE CLEANING THE FIRE POT AND FIRE PAN.

Make sure that you put the fire pot back onto the fire pan in the correct orientation, so that pellets can be added to the pot and successfully ignited for the next operation of the stove.

CLEANING: GLASS

⚠ WARNING: DO NOT CLEAN GLASS WHEN HOT.

Though the circulation of air across the glass reduces acidic ash build up, cleaning the glass in the stove door is still required periodically. Cleaning is necessary to prevent glass from being weakened which may increase likelihood of cracks. It is not acceptable to operate the stove with cracked or broken glass.

The best way to clean the door glass is using a damp cloth that has a smear of cool ash on it. For extra stubborn dirt, consult your local hardware store or stove specialist for a suitable cleaner.

⚠ WARNING: DO NOT CLEAN GLASS WITH ABRASIVE CLEANERS OR BY ANY OTHER PROCESS WHICH MAY SCRATCH OR DAMAGE THE GLASS.

CLEANING: OUTLET PASSAGEWAY

The outlet passageway should be cleaned at least once a year. Burning high ash pellets may require that the passageway are cleaned more frequently.

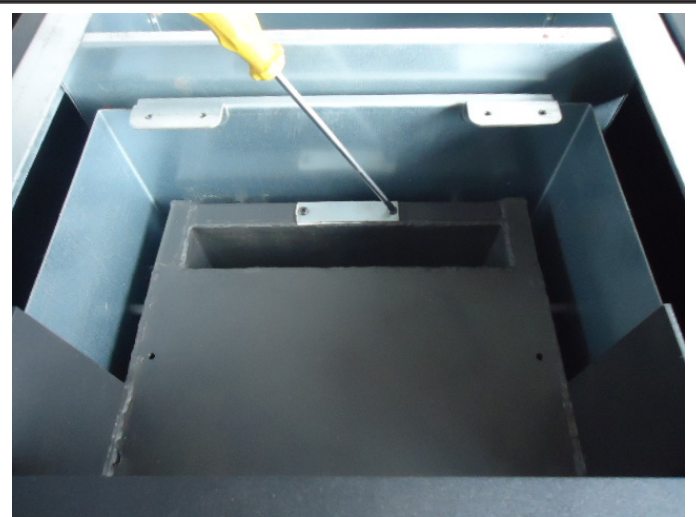


Figure 20 Outlet Duct

On each side of the stove there are two access covers that can be removed by removing the fastening screws. See Figures 21, 24 and 25. Turn off the stove, allow the stove to cool down, and unplug the stove before disassembly and cleaning. Insert a cleaning brush into the openings to loosen any ash build up and then use a vacuum cleaner to remove the loosened ash. Replace the covers and secure with the allen head screws.

There is one more opening to the outlet passageway which can be accessed by removing the ash drawer. Loosen the two 5/32" allen head screws shown in Figure 20. Rotate the cover to expose the opening. Use a cleaning brush to loosen any ash build up. Insert a cleaning brush into the openings to loosen any ash build up and then use a vacuum cleaner to remove the loosened ash. Rotate the cover back over the opening and secure with the allen screws.

CLEANING: CONVECTION BLOWER

When facing the heater, the blower motor responsible for introducing air for heating and circulation to the room is located on the right hand side. Remove or open the side panel to obtain access. Clean the convection blower as required, before using the stove and while the stove is cooled down, the stove is unplugged, and there are no embers. Take care to not damage the blower's blades during cleaning. Use a vacuum to remove any dust accumulation of the blower's blades or inside the blower duct.



N130WTS
N60WTS, NBF66WTS
Figure 21 Convection Blower Disassembly

CLEANING: EXHAUST VENT PIPE

Inspect the exhaust venting system at least once a year to determine if cleaning is necessary. During start up, shut down, and erroneous operation of the stove incomplete combustion can produce ash, soot, and

creosote. To clean the exhaust venting system insert an appropriate sized cleaning brush into the pipe to loosen and remove any ash or debris build up. Build up of debris and ash can restrict the flow of gases which will affect stove performance, and failure to remove creosote may result in a dangerous chimney fire.

FLYASH - FORMATION AND NEED FOR REMOVAL

The products of combustion will contain small particles of flyash. The flyash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as occurs during startup, shutdown, or incorrect operation of the room heater will lead to some soot formation which will collect in the exhaust venting system. The exhaust venting system should be inspected at least once every year to determine if cleaning is necessary. Use the appropriate sized chimney brush to remove ash and buildup from the venting.

CREOSOTE - FORMATION AND NEED FOR REMOVAL

Failure to remove creosote may result in a dangerous chimney fire.

When wood pellets burn at a low temperature they produce tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of allow-temperature fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire. The chimney connector and chimney should be inspected at least once every few months during the heating season to determine if a creosote buildup has occurred. If a significant layer of creosote has accumulated (eighth of an inch, 3 mm, or more) it should be removed to reduce the risk of a chimney fire. Use the appropriate sized chimney brush to remove ash and buildup from the venting.

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. Contact your local municipal or provincial fire authority for information on how to handle a chimney fire. Have a clearly understood plan to handle a chimney fire.

REPLACING: GLASS

Replacing the door glass is only permitted by replacing the entire door assembly provided by the manufacturer. See pages 7 through 29.

⚠ WARNING: SUBSTITUTING ALTERNATE MATERIAL MAY SHATTER GLASS AND CAUSE INJURY.

REPLACING: SEALING GASKETS

Over time the sealing gaskets along the glass, door, or ash drawer may lose their rigidity. These seals are essential for providing a seal which allows the stove to operate safely. Inspect the gaskets periodically, and if they become worn contact the manufacturer for information on original or equivalent gasket.

To replace the gasket:

1. Ensure that all pellets are extinguished and that the stove is cool to the touch.
2. Remove old gasket and clean the gasket gutter.
3. Apply a thin coat of high temperature gasket cement along the inside of the gasket gutter.
4. Press the beginning of the replacement gasket into the most up and most left position of the prepared gasket gutter.
5. Continue pressing the replacement gasket clockwise along the gasket gutter until it has wrapped back to where the gasket was pressed in initially.
6. Trim any excess replacement gasket away ,and press the remaining end into the gutter to complete the seal.

Close the door, drawer, or ash drawer and allow 3 to 4 hours for the cement to set before operating the stove.

REPLACING: HOT SURFACE IGNITER

Ensure that the stove is off and allow it time to become cool to the touch. After gaining access to the back, undo the screw located on the back inside of the main body. Pull the hot surface igniter free, and install replacement service part. See Figure 22 and 24.

NOTE: DEPENDING ON THE MODEL OF THE STOVE, IT MAY BE NECESSARY TO REMOVE THE AUGER MOTOR IN ORDER TO SLIDE THE IGNITER OUT OF ITS HOUSING.

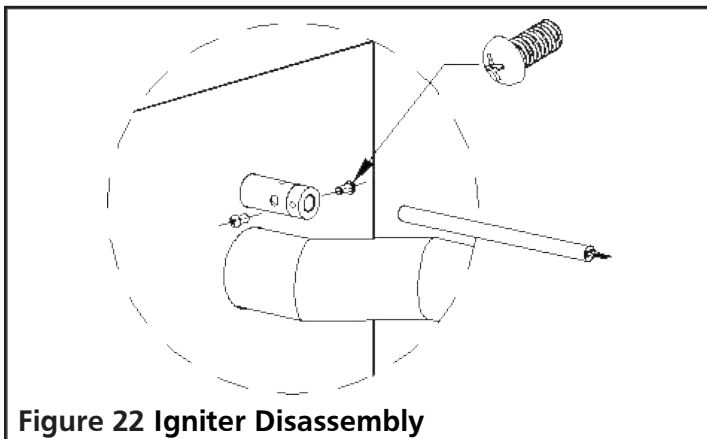


Figure 22 Igniter Disassembly

REPLACING: AUGER SYSTEM

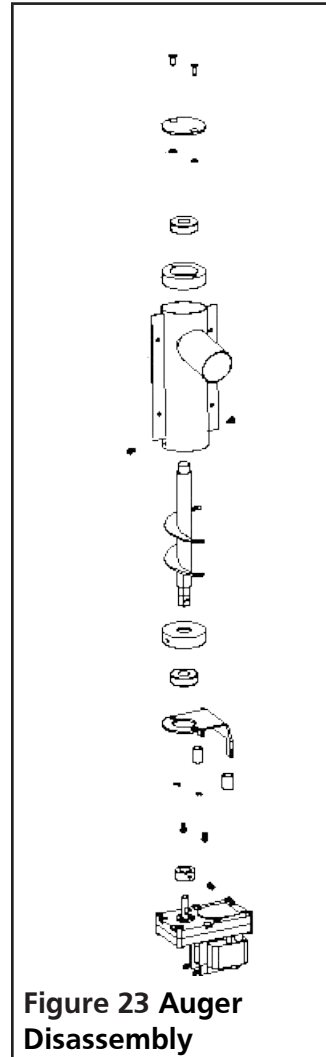


Figure 23 Auger Disassembly

Ensure that the stove is off and allow it time to become cool to the touch. After gaining access to the back, the auger can be disassembled part by part in the order indicated in Figure 23.

REMOVING BACK AND SIDE PANEL



Figure 24 N130WTS Back & side disassembly

- To remove the N130WTS side panels, remove the screws securing it on the rear of the heater. Then slide the panel along the side of the heater away from the front.
- To remove the N130WTS rear plate, remove the 8 screws securing it at the bottom and rear of the stove.
- To remove the N60WTS side panels, remove the screws securing it on the rear of the heater. Then pull the panel directly away from the heater.
- To open the side of the NBF66WTS model, simply swing the side panel free of the magnetic lock.

REPLACING: HEAT EXCHANGE BLOWER

Unplug the heater. Disconnect any wiring leading to the Heat Exchange Blower. Remove the screws holding the mounting plate to the heater. Slowly remove blower and replace with new one. Replace screws and wiring.

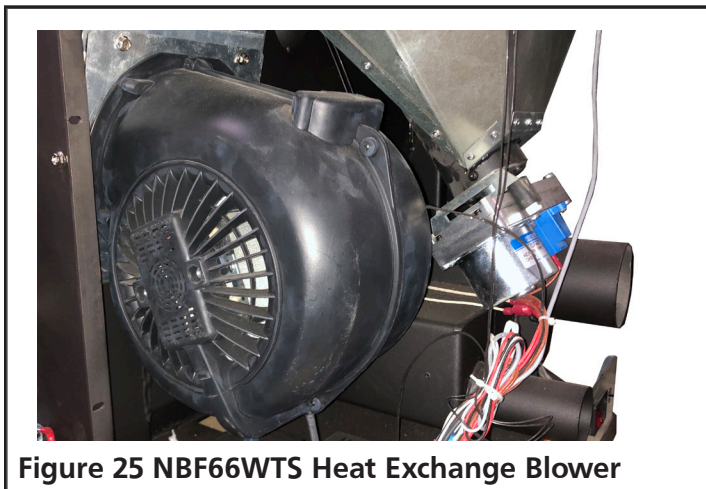


Figure 25 NBF66WTS Heat Exchange Blower

REPLACING: EXHAUST BLOWER

Unplug the heater. Disconnect any wiring leading to the Exhaust Blower. Remove the wing nuts holding the Exhaust Blower plate to the blower housing. Slowly remove blower and replace with new one. Replace wing nuts and wiring.

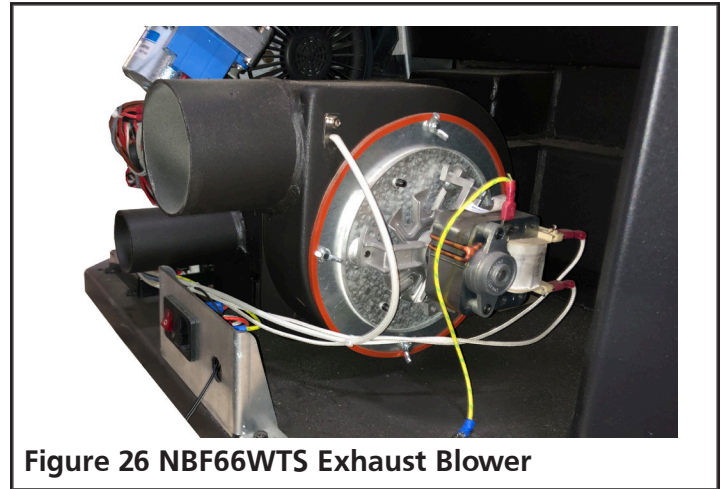


Figure 26 NBF66WTS Exhaust Blower

SAFETY COMPONENTS

1. Vacuum Pressure Switch: A safety vacuum switch is located behind the left door, fastened to the base. If a low pressure is created in the firebox by a leak, opening the door to the firebox, a blocked flue, or an unsealed ash drawer then the switch will shut the stove off as a precaution. Error code E5 will appear on the display panel.
2. High Limit Thermostat: A high temperature limiter is installed on the bottom of the hopper. If this sensor is exposed to temperatures higher than 185° F then the stove is shut off.
3. Vent Pipe High Temperature Thermostat: A high temperature limiter is installed on the vent pipe. If this sensor is exposed to temperatures higher than 104° F then the circulation fan blower is switched on.
4. Vent Pipe Low Temperature Thermostat: If the stove cools below a minimum temperature the stove will switch off. This may occur when the operating procedure fails to quickly and sufficiently heat the stove.
5. Fuse: A fuse on the rear of the device protects the stove from power surges. See Figure 27.




Figure 27 Fuse

ERROR CODES

NOTE: IN THE EVENT OF A POWER FAILURE (ERROR CODE E7), A SMALL AMOUNT OF SMOKE MAY BE EMITTED. THIS LASTS 3 TO 5 MINUTES AND DOES NOT REPRESENT A SAFETY RISK.

⚠ CAUTION: IF OVERHEATING HAS OCCURRED (ERROR CODES E5 AND E6), THEN AN INSPECTION, MAINTENANCE, AND/OR CLEANING MUST OCCUR BEFORE THE STOVE CAN SAFELY BE OPERATED AGAIN.

After following the suggested solution steps, press the confirm button  to clear the error code from the error code from the multi function display screen. Then go through the operation procedure specified on page 14 to restart the heater.

| ERROR CODE | CAUSE | SOLUTION |
|-------------|---|---|
| E1 | Exhaust temperature is below 40 - 45 °F Operation has been interrupted and the fire has been discontinued. | <ol style="list-style-type: none"> 1. Check that the pellet hopper has fuel. 2. Check that the auger motor is not damaged and is able to fill the firepot with fuel. |
| E2 | Failure to ignite the fuel in fire pot. | <ol style="list-style-type: none"> 1. Check that there are no "clinkers" (glass like lumps of various sizes formed by debris exposed to high heat, more common when using low quality fuel) in fire pot. 2. Check that the firepot is sitting in the holder correctly and that the igniter is not obstructed. 3. Check that the exhaust gas temperature sensor switch, beside the combustion fan, is not broken. 4. Check that the igniter is not broken. |
| E5 | Low pressure detected at the vacuum switch (located behind the left door, fastened to the base). | <ol style="list-style-type: none"> 1. Check that the door, and ash drawer if present, has been closed properly. 2. Check that there is nothing obstructing the exhaust duct nor that the duct is leaking. 3. Check that the combustion fan is not broken. |
| E6 | Failure at the high temperature sensor (located below the pellet hopper). | <ol style="list-style-type: none"> 1. Check that the switch is not broken. 2. The temperature of the sensor is too high. The stove is not running properly. Call customer service. |
| E7 | Power failure. | Press the Confirm button to clear the error code. Then restart the stove. You may chose to skip directly into the stabilization cycle by depressing and holding the rate selector button for 3 seconds. |
| E9 | Hopper sensor. Hopper low on pellets. | <ol style="list-style-type: none"> 1. Replenish pellets in hopper. |
| ESC1 | Short circuit at temperature sensor #1. | <ol style="list-style-type: none"> 1. Check wires and connection points. 2. Contact Tech Support for assistance. |
| ESO1 | Open circuit at temperature sensor #1. | <ol style="list-style-type: none"> 1. Check wires and connection points. 2. Contact Tech Support for assistance. |

ERROR CODES CONTINUED

| | | |
|-------------|---|--|
| ESC2 | Short circuit at temperature sensor #2. | 1. Check wires and connection points. 2. Contact Tech Support for assistance. |
| ESO2 | Open circuit at temperature sensor #2 | 1. Check wires and connection points. 2. Contact Tech Support for assistance. |
| ESC3 | Short circuit at temperature sensor #3 | 1. Check wires and connection points. 2. Contact Tech Support for assistance. |
| ESO3 | Open circuit at temperature sensor #3 | 1. Check wires and connection points. 2. Contact Tech Support for assistance. |

TROUBLESHOOTING

| SYMPTOM | CAUSE | SOLUTION |
|--|--|--|
| Heater does not turn on. | Power Switch turned off. | Turn on power switch. |
| | Power Cord disconnected. | 1. Press power cord tightly into the heater 2. Ensure that the wall socket is delivering 120 Volts. |
| | Fuse is blown. | Replace the fuse. |
| The blower does not turn on during Cleaning Cycle, Feeding Cycle, or Lighting Cycle. | This is normal. | There is no problem, the blower does not turn on until the stabilization cycle. |
| The blower does not turn on during Stabilization Cycle. | No power in stove or in control panel. | Check the power and wires. |
| | Mother board disconnected. | Make sure all terminals to mother board are connected. |
| | Low Temperature sensor is broken. | Replace the low temperature sensor. |
| During operation, including the Lighting phase, the auger is not filling the firepot with pellets. | No fuel in Pellet Hopper. | Add Fuel to Pellet Hopper. |
| | Auger is blocked, jammed, or disconnected. | 1. Unplug the unit so that it will not start suddenly and then unblock the auger. 2. Check that the auger is not blocked. If it is blocked, remove the cause of the jamming. 3. Check that the auger screw fastening the auger to the motor is secure. |

TROUBLESHOOTING CONTINUED

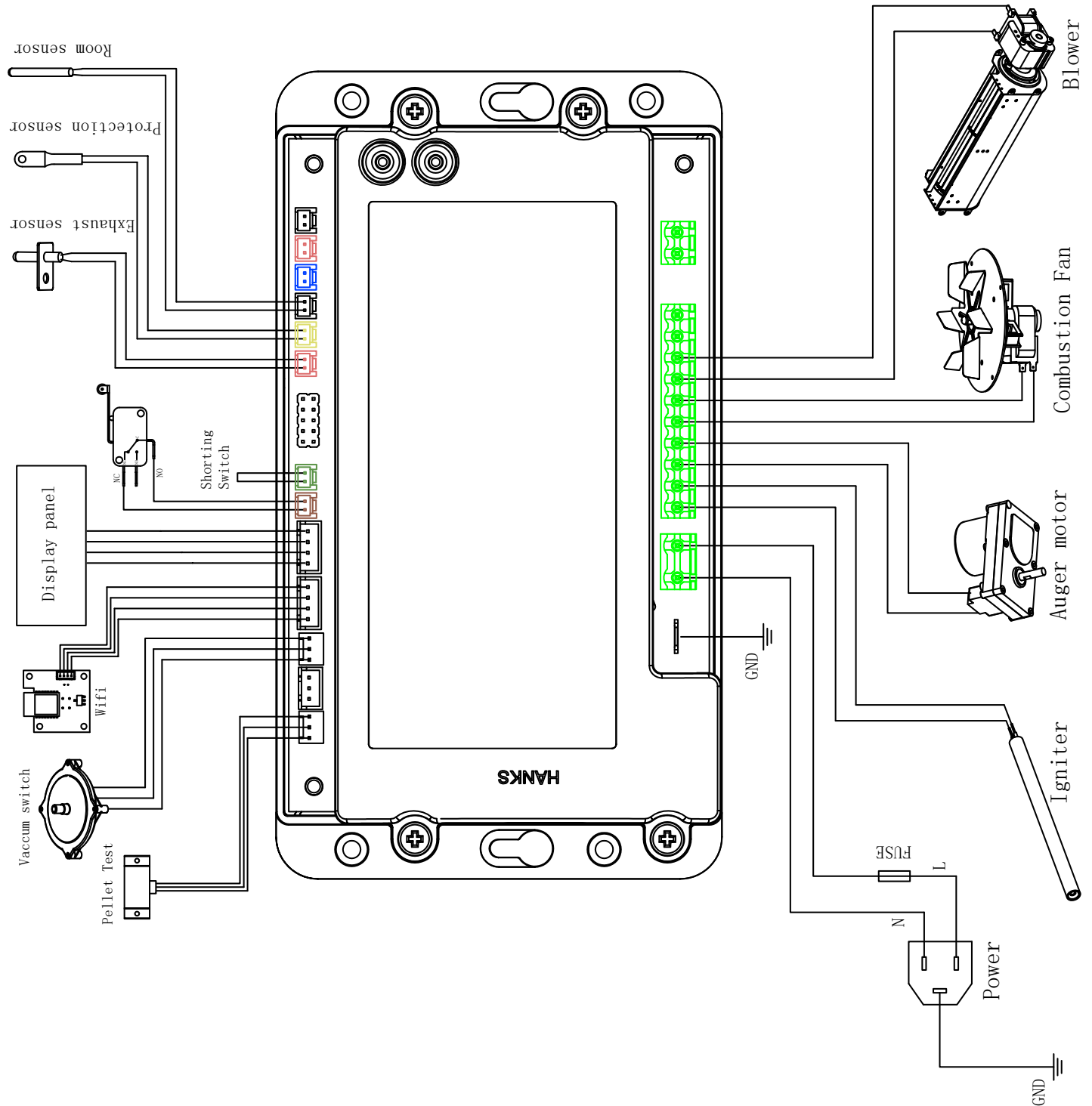
| SYMPTOM | CAUSE | SOLUTION |
|---|---|--|
| Too much fuel in the firepot. The fuel can not be completely and thoroughly burned. | The feeding speed is faster than what combustion can support. | 1. Increase the fan's speed to increase the rate of combustion. |
| Not enough fuel in the firepot. | The feeding speed is too low to support the rate of combustion. | 1. Decrease the fan's speed to decrease the rate of combustion. |
| After the fire has started, the stove turns off 15 minutes later. | The pellet hopper is low on fuel. | Check that the pellet hopper has a sufficient amount of fuel. |
| | The auger is not operating. | 1. Unplug the unit so that it will not start suddenly and then unblock the auger. 2. Check that the auger is not blocked. If it is blocked, remove the cause of the jamming. 3. Check that the auger screw fastening the auger to the motor is secure. |
| | The 30 ° C temperature switch has triggered. | 1. Check that wires to the switch are sufficiently connected. 2. Replace the 30 ° C temperature switch. |
| | The pressure switch inside the stove is broken. | Replace the pressure switch. |
| Orange flame, pellets piling up in firepot, carbon residue forming on glass. | Insufficient air for sufficient combustion. | 1. Check that the air inlet vent in the front is open. 2. Check that the door and window gaskets are intact. 3. Check if the air inlet ducting and the combustion exhaust ducting are blocked. 4. Increase the cross sectional area of the ducting. 5. Increase the fan's speed to increase the rate of combustion. 6. Contact the manufacturer for assistance. |

TROUBLESHOOTING CONTINUED

| SYMPTOM | CAUSE | SOLUTION |
|--|---|--|
| The fire extinguishes and the power shuts off. | No fuel in Pellet Hopper. | Add Fuel to Pellet Hopper. |
| | Auger is blocked or jammed or disconnected. | <ol style="list-style-type: none"> 1. Unplug the unit so that it will not start suddenly and then unblock the auger. 2. Check that the auger is not blocked. If it is blocked, remove the cause of the jamming. 3. Check that the auger screw fastening the auger to the motor is secure. |
| | The feeding speed is too low to support the rate of combustion. | <ol style="list-style-type: none"> 1. Decrease the fan's speed to decrease the rate of combustion. |
| | The 30 ° C temperature switch has triggered. | <ol style="list-style-type: none"> 1. Check that wires to the switch are sufficiently connected. 2. Replace the 30 ° C temperature switch. |
| The fire extinguishes and the power shuts off (continued). | Requested temperature has been reached. | This is normal "ECO" mode behavior. The stove will automatically switch on once the ambient room temperature drops below the temperature that the stove is set to maintain. |
| The circulation blower continues to operate after the stove is cool and the fuel consumption has ceased. | The 30 ° C temperature switch has triggered. | <ol style="list-style-type: none"> 1. Check that wires to the switch are sufficiently connected. 2. Replace the 30 ° C temperature switch. |
| The stove is not circulating a sufficient volume of sufficiently hot air. | The fuel is inadequate. | Use pellet fuel specified by this manual. |
| | The circulating blower is set too slow or is compromised. | <ol style="list-style-type: none"> 1. If the blower is broken, change out the blower 2. If the mother board which connects to the blower is broken, change out the mother board. |
| | Heat exchange tubes or flue pass is dirty. | Clean the heat exchanger tubes or flue pass. |

WIRING DIAGRAM

NOTE: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105 °C AND RATED FOR 600V

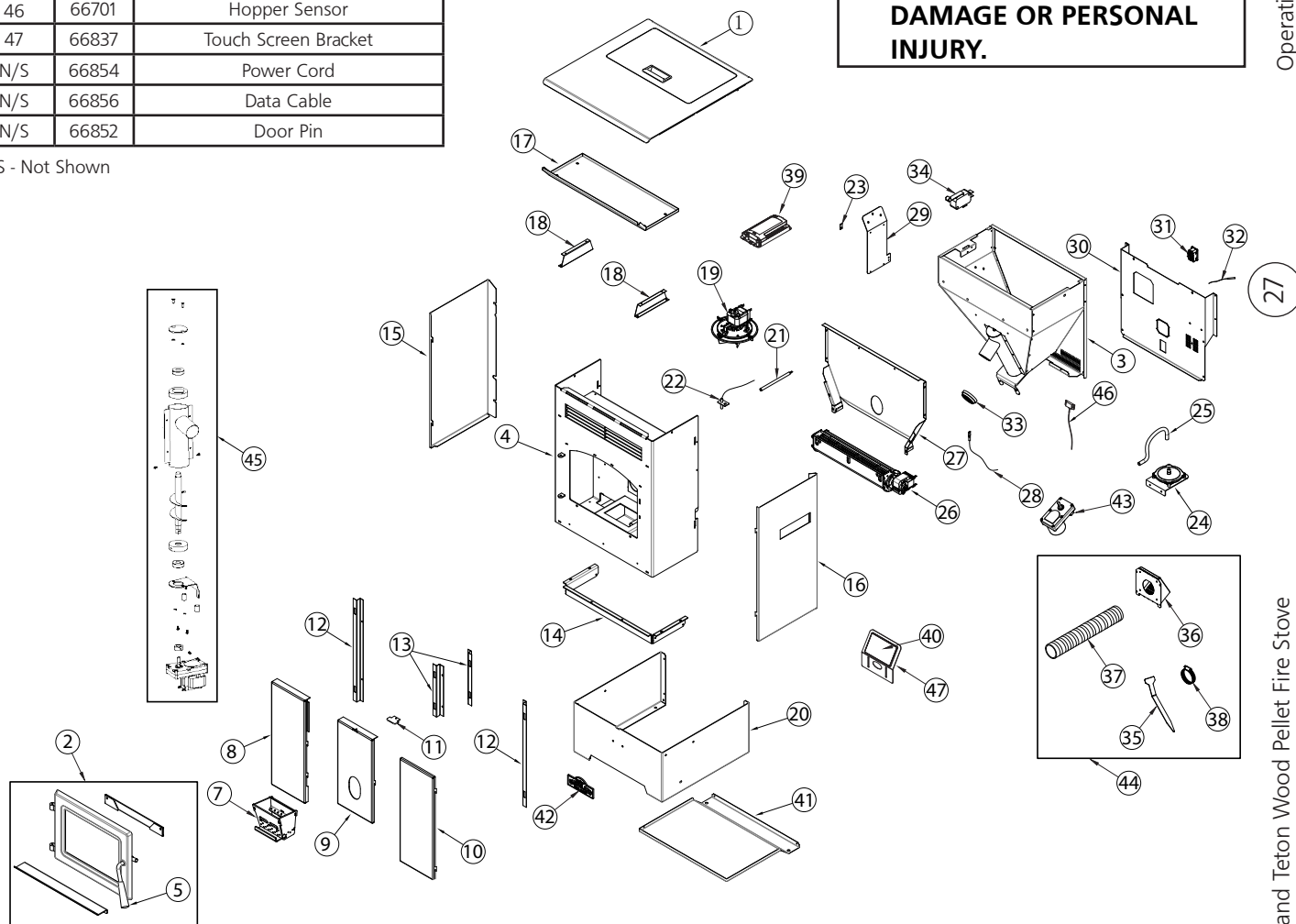


SERVICE PARTS MODEL N60WTS

| NO. | P/N | DESCRIPTION |
|-----|-----------------------|----------------------------------|
| 1 | 66623 | Top Cover |
| 2 | 66624 | Door Assembly |
| 3 | n/a | Hopper |
| 4 | n/a | Main Body |
| 5 | 66603 | Door Handle |
| 7 | 66625 | Fire Pot |
| 8 | n/a | Flue Board-Left |
| 9 | n/a | Flue Board-Middle |
| 10 | n/a | Flue Board-Right |
| 11 | n/a | Upper Flue Plate |
| 12 | n/a | Flue Fixed Plate-Long |
| 13 | n/a | Flue Fixed Plate-Short |
| 14 | n/a | Pedestal Fixed Plate |
| 15 | 66626 | Left Side panel |
| 16 | 66627 | Right Side panel |
| 17 | n/a | Thermal Insulation Plate |
| 18 | n/a | Insulation Support Plate |
| 19 | 66607 | Combustion Blower |
| 20 | n/a | Pedestal Plate |
| 21 | 66608 | Igniter |
| 22 | 66609 | Exhaust Sensor |
| 23 | n/a | Grounding Screw |
| 24 | 66628 | Vacuum Switch |
| 25 | 66629 | Vacuum Switch Silicone Tube |
| 26 | 66630 | Circulation Blower |
| 27 | n/a | Chamber Insulation Cover |
| 28 | 66613 | Hopper Safety Sensor |
| 29 | n/a | Motherboard Fixed Plate |
| 30 | 66631 | Rear Cover |
| 31 | 66615 | Power Socket |
| 32 | 66616 | Room Sensor |
| 33 | 66622 | Silicone Rubber Sealing Ring |
| 34 | 66617 | Hopper Lid Switch |
| 35 | 66855 | Cleaning Tool (see # 44) |
| 36 | n/a | Fresh Air Intake Vent (see # 45) |

| NO. | P/N | DESCRIPTION |
|-----|-----------------------|------------------------------------|
| 37 | n/a | Aluminum Expansion Tube (see # 45) |
| 38 | n/a | Clamp (see # 45) |
| 39 | 66661 | Motherboard |
| 40 | 66702 | Touch Screen |
| 41 | n/a | Inner Pedestal Plate |
| 42 | n/a | Nameplate |
| 43 | 66621 | Auger Motor |
| 44 | 66659 | Accessory Kit |
| 45 | 66660 | Auger Assembly |
| 46 | 66701 | Hopper Sensor |
| 47 | 66837 | Touch Screen Bracket |
| N/S | 66854 | Power Cord |
| N/S | 66856 | Data Cable |
| N/S | 66852 | Door Pin |

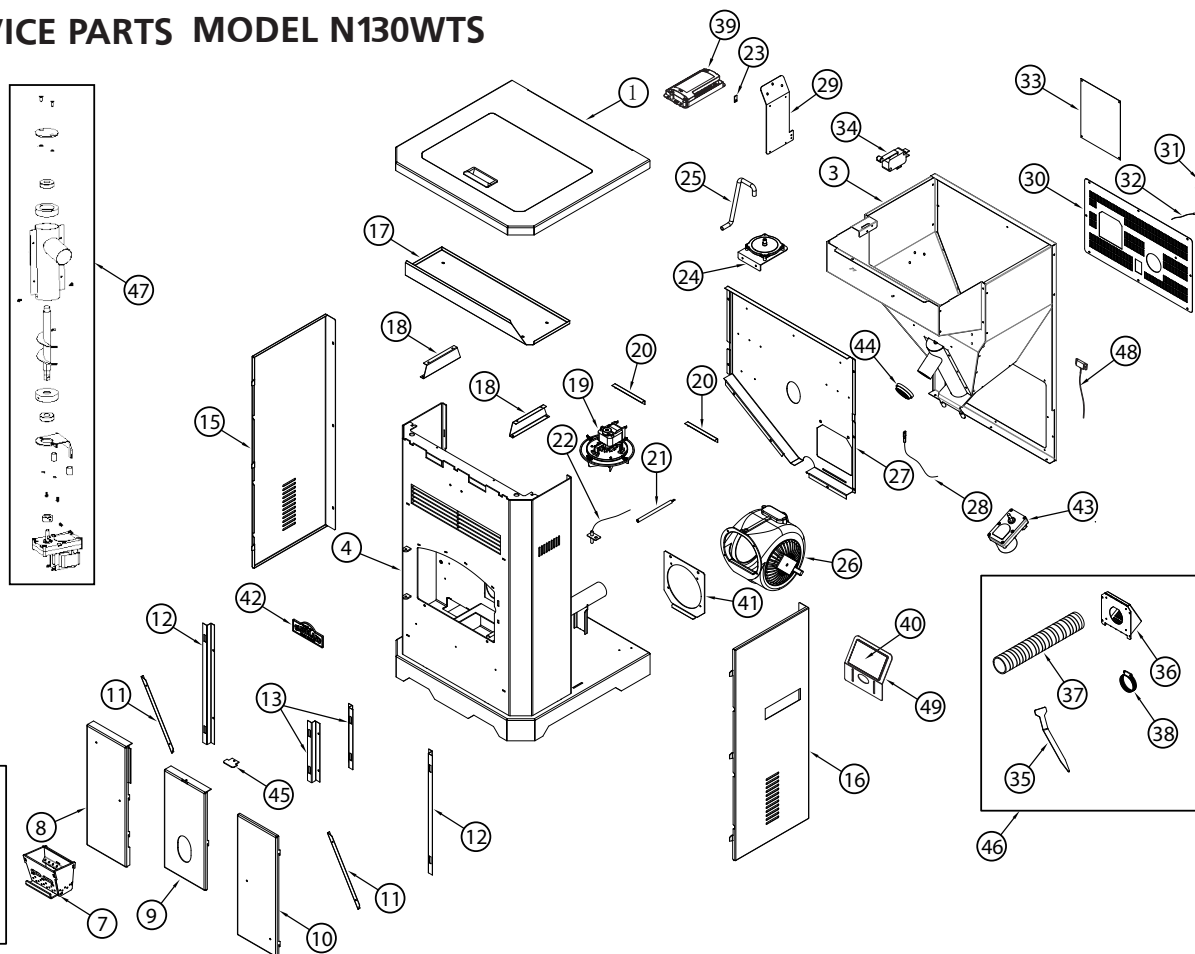
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NOTE: NOT ALL PARTS AVAILABLE. FOR QUESTIONS CONTACT MANUFACTURER.

⚠ WARNING: FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS STOVE MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

SERVICE PARTS MODEL N130WTS



| NO. | P/N | DESCRIPTION |
|-----|-----------------------|--------------------------|
| 1 | 66601 | Top Cover |
| 2 | 66602 | Door Assembly |
| 3 | n/a | Hopper |
| 4 | n/a | Main Body |
| 5 | 66603 | Door Handle |
| 7 | 66604 | Fire Pot |
| 8 | n/a | Flue Plate-Left |
| 9 | n/a | Flue Plate-Middle |
| 10 | n/a | Flue Plate-Right |
| 11 | n/a | Flue Plate Reinforcement |
| 12 | n/a | Flue Fixed Plate-Long |
| 13 | n/a | Flue Fixed Plate-Short |
| 15 | 66605 | Left Side Panel |
| 16 | 66606 | Right Side Panel |
| 17 | n/a | Thermal Insulation Board |
| 18 | n/a | Insulation Support Plate |
| 19 | 66607 | Combustion Blower |
| 20 | n/a | Reinforcing Plate |
| 21 | 66608 | Igniter |
| 22 | 66609 | Exhaust Sensor |
| 23 | n/a | Ground Screw |
| 24 | 66610 | Vacuum Switch |
| 25 | 66611 | Silicone Tube |
| 26 | 66612 | Circulation Blower |
| 27 | n/a | Chamber Insulation Cover |
| 28 | 66613 | Hopper Safety Sensor |

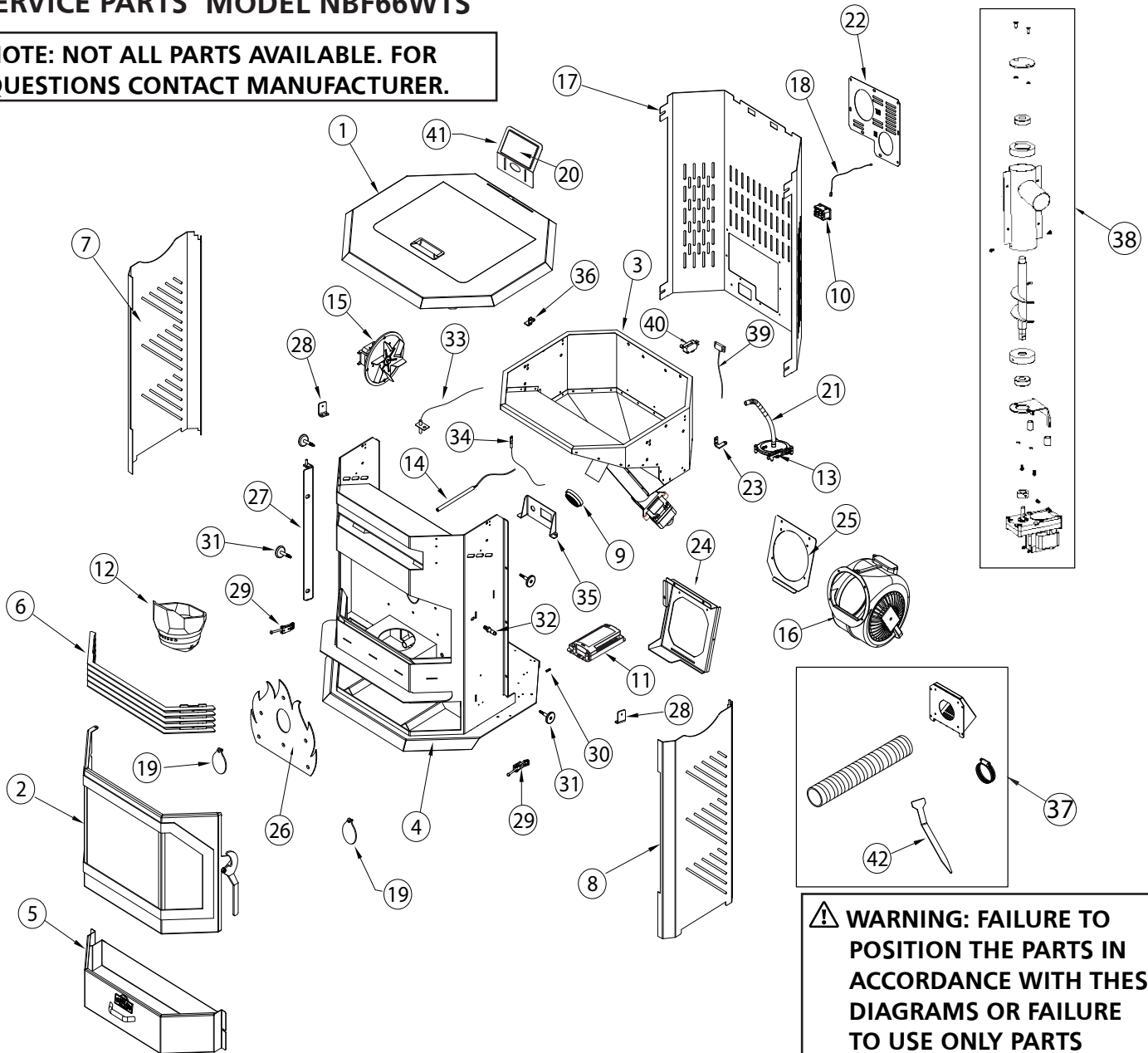
| NO. | P/N | DESCRIPTION |
|-----|-----------------------|------------------------------------|
| 29 | n/a | Motherboard Fixed Plate |
| 30 | 66614 | Rear Cover |
| 31 | 66615 | Power Socket |
| 32 | 66616 | Room Sensor |
| 33 | n/a | Rating Label |
| 34 | 66617 | Hopper Lid Switch |
| 35 | 66855 | Cleaning Tool (see # 46) |
| 36 | n/a | Fresh Air Intake Vent (see # 47) |
| 37 | n/a | Aluminum Expansion Tube (see # 47) |
| 38 | n/a | Clamp (see # 47) |
| 39 | 66662 | Motherboard |
| 40 | 66702 | Touch Screen |

| NO. | P/N | DESCRIPTION |
|-----|-----------------------|------------------------------|
| 41 | 66620 | Blower Fixed Plate |
| 42 | n/a | Nameplate |
| 43 | 66621 | Auger Motor |
| 44 | 66622 | Silicone Rubber Sealing Ring |
| 45 | n/a | Upper Flue Plate |
| 46 | 66659 | Accessory Kit |
| 47 | 66660 | Auger Assembly |
| 48 | 66701 | Hopper Sensor |
| 49 | 66837 | Touch Screen Bracket |
| N/S | 66854 | Power Cord |
| N/S | 66856 | Data Cable |
| N/S | 66852 | Door Pin |

N/S - Not Shown

SERVICE PARTS MODEL NBF66WTS

NOTE: NOT ALL PARTS AVAILABLE. FOR QUESTIONS CONTACT MANUFACTURER.



| NO. | P/N | DESCRIPTION |
|-----|-----------------------|------------------------------|
| 1 | 66632 | Top Cover |
| 2 | 66633 | Door |
| 3 | n/a | Hopper |
| 4 | n/a | Main Body |
| 5 | 66634 | Ash Pan |
| 6 | n/a | Decorative Plate |
| 7 | 66635 | Left Side Panel |
| 8 | 66636 | Right Side Panel |
| 9 | 66622 | Silicone Rubber Sealing Ring |
| 10 | 66615 | Power Socket |
| 11 | 66663 | Motherboard |
| 12 | 66638 | Fire Pot |
| 13 | 66639 | Vacuum Switch |
| 14 | 66640 | Igniter |
| 15 | 66641 | Combustion Blower |
| 16 | 66612 | Circulation Blower |
| 17 | 66642 | Rear Cover |

| NO. | P/N | DESCRIPTION |
|-----|-----------------------|-------------------------------|
| 18 | 66643 | Room Sensor |
| 19 | n/a | Flue Sealing Plate |
| 20 | 66702 | Touch Screen |
| 21 | 66645 | Pressure Device Silicone Tube |
| 22 | 66646 | Rear Sealing Plate |
| 23 | 66647 | Right Side Panel Hinge |
| 24 | 66648 | Blower Bracket |
| 25 | 66620 | Blower Fixed Plate |
| 26 | n/a | Fireproof Plate |
| 27 | 66649 | Door Hinge |
| 28 | 66650 | Rear Cover Fixed Plate |
| 29 | 66651 | Ash Pan Lock Parts |
| 30 | n/a | Ground Screw |
| 31 | 66652 | Magnet |
| 32 | 66653 | Door, Latch |
| 33 | 66654 | Exhaust Sensor |
| 34 | 66655 | Hopper Safety Sensor |

⚠ WARNING: FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS STOVE MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

| NO. | P/N | DESCRIPTION |
|-----|-----------------------|--------------------------|
| 35 | 66656 | Socket Fixed Plate |
| 36 | 66657 | Left Side Panel Hinge |
| 37 | 66659 | Accessory Kit |
| 38 | 66660 | Auger Assembly |
| 39 | 66701 | Hopper Sensor |
| 40 | 66617 | Hopper Lid Switch |
| 41 | 66837 | Touch Screen Bracket |
| 42 | 66855 | Cleaning Tool (See # 37) |
| N/S | 66854 | Power Cord |
| N/S | 66856 | Data Cable |
| N/S | 66859 | Door Pin |

N/S - Not Shown



OPERATING INSTRUCTIONS AND OWNER'S MANUAL

Model #
N60WTS
N130WTS
NBF66WTS

READ INSTRUCTIONS CAREFULLY: Please read this entire manual before installation and use of this pellet fuel-burning room heater. Failure to follow these instructions could result in property damage, bodily injury or even death. Do not allow anyone who has not read these instructions to assemble, light, adjust or operate the stove. Place instructions in a safe place for future reference.

WARNING:

USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH. REPLACEMENT PARTS ARE ONLY AVAILABLE DIRECT FROM THE FACTORY AND MUST BE INSTALLED BY A QUALIFIED SERVICE AGENCY.

PARTS ORDERING INFORMATION:

PURCHASING: ACCESSORIES MAY BE PURCHASED AT ANY GRAND TETON LOCAL DEALER OR DIRECT FROM THE FACTORY

FOR INFORMATION REGARDING SERVICE:

Please call Toll-Free 1-866-740-2497/1-800-251-0001 • Weekends/After Hours 423-488-6316 •
grandtetoncollection.com

Our office hours are 8:00 AM – 5:00 PM, EST, Monday through Friday.

Please include the model number, date of purchase, and description of problem in all communication.

LIMITED WARRANTY:

Enerco Group, Inc. (EGI) warrants Grand Teton Wood Pellet Fire Stoves to be free from imperfections in workmanship or material, at the date of manufacture. After installation, If covered components are found to be defective in workmanship or material during the applicable warranty period then the company, at its option, will repair or replace products returned by the buyer to the factory, transportation prepaid within applicable warranty period and found by the company to have imperfections in material or workmanship. The warranty period of the covered components is defined in the table below:

| Components Covered | Warranty Period (Parts only, Labor not included) |
|----------------------------------|--|
| Electrical | 1 years |
| Steel parts (excluding fire pot) | 5 years |

If a part is damaged or missing, call our Technical Support Department at 1-866-740-2497/1-800-251-0001.

Address any Warranty Claims to the Service Department, Mr. Heater, Inc., 4560 W. 160TH ST., CLEVELAND, OHIO 44135. Include your name, address and telephone number, the model and serial number of your product, and include details concerning the claim. Also, supply us with the purchase date and the name and address of the dealer from whom you purchased our product.

The foregoing is the full extent of the responsibility of the Company. There are no other warranties, express or implied. Specifically there is no warranty of fitness for a particular purpose and there is no warranty of merchantability. In no event shall the Company be liable for delay caused by imperfections, for consequential damages, or for any charges of the expense of any nature incurred without its written consent. The cost of repair or replacement shall be the exclusive remedy for any breach of warranty. There is no warranty against infringement of the like and no implied warranty arising from course of dealing or usage of trade. This warranty will not apply to any product which has been repaired or altered outside of the factory in any respect which in our judgment affects its condition or operation. This warranty does not cover damage or breakage due to misuse, abuse or modifications. There is no warranty on any paint, glass, gasket or fire brick. There is no warranty on the fire pot. There is no warranty against damage caused by corrosion.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Mr. Heater Inc. reserves the right to make changes at any time, without notice or obligation, in colors, specifications, accessories, materials and models.

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US Patent Pending

ASTM E1509-2012 (R2017)
ULC S627-2000 (R2020)
ASTM E2779-2017
ASTM E2515-2017
CSA B415.1-2010 (R2020)