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PELLET STOVE

EF2 Classic

Freestanding, Fireplace Insert & Built-In Heater OWNER'S MANUAL



PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS PELLET BURNING ROOM HEATER. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.



Contact your building or fire officials about restrictions and installation inspection requirements in your area.

50-1732

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INTRODUCTION

* This manual is designed for the home owner in conjunction with the technical manual. *

PELLET QUALITY:

Pellet quality is important, please read the following:

Your Nature's Flame pellet stove has been designed to burn ¼" (6mm) dia wood pellets only. DO NOT use this appliance as an incinerator. DO NOT use unsuitable and non recommended fuels, including liquid fuels as this will void any warranties stated in this manual.

The performance of your pellet stove is greatly affected by the type and quality of wood pellets being burned. As the heat output of various quality wood pellets differs, so will the performance and heat output of the pellet stove.

CAUTION: It is important to select and use only pellets that are dry and free of dirt or any impurities such as high salt content. Dirty fuel will adversely affect the operation and performance of the unit and will void the warranty. The Pellet Fuel Industries (P.F.I.) has established standards for wood pellet manufacturers. We recommend the use of pellets that meet or exceed these standards. Ask your dealer for a recommended pellet type.

ASH: The ash content of the fuel and operation of your stove will directly determine the frequency of cleaning. The use of high ash fuels may result in the stove needing to be cleaned daily. A low ash fuel may allow longer intervals between cleaning.

CLINKERING: [clinkers are silica (sand) or other impurities in the fuel that will form a hard mass during the burning process]. This hard mass will block the air flow through the Burn Pot Liner and affect the performance of the stove. Any fuel, even approved types, may clinker. Check the Burn-Pot Liner daily to ensure that the holes are not blocked with clinkers. If they become blocked, remove the liner (when the unit is cold) and clean/scrape the clinkers out. Clean the holes with a small pointed object if required. Refer to the section Routine Cleaning and Maintenance.

PELLET FEED RATES: Due to different fuel densities and sizes, pellet feed rates may vary. This may require an adjustment to the slider damper setting or to the auger feed trim setting on low.

Since Sherwood Industries Ltd. has no control over the quality of pellets that you use, we assume no liability for your choice in wood pellets.

FILLING FUEL HOPPER: Open lid on top of unit, check hopper for foreign objects, empty the bag into the hopper, **DO NOT OVER FILL**, and ensure hopper lid closes completely.

Store pellets at least 36" (1 m) away from the pellet stove.

WARNING: Parts of the appliance, especially the external surfaces, will be hot to touch when in operation so use due care.

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

SAFETY WARNINGS & RECOMMENDATIONS

Please read this entire Owner's Manual before installing or operating your Nature's Flame Pellet Stove. Failure to follow these instructions may result in property damage, bodily injury or even death. Any unauthorized modification of the appliance or use of replacement parts not recommended by the manufacturer is prohibited. All national and local regulations and shall be complied with when operating this appliance.

Caution: Do not connect to any air distribution duct or system.

Warning: Never place wood, paper, furniture, drapes or other combustible materials within 80cm (31½") of the front of the unit, 20cm (7⅞") from each side, and 10cm (4") from the back of the unit. Do not let children or pets touch it when it is hot.

To prevent the possibility of a fire, ensure that the appliance is properly installed by adhering to the installation instructions. An Nature's Flame dealer will be happy to assist you in obtaining information with regards to your local building codes and installation restrictions.

FIRE EXTINGUISHER AND SMOKE DETECTION: All homes with a pellet burning stove should have at least one fire extinguisher in a central location known to all in the household. Smoke detectors should be installed and maintained in the room containing the stove. If it sounds the alarm, correct the cause but do not deactivate. You may choose to relocate the smoke detection device within the room; **DO NOT REMOVE THE SMOKE DETECTOR FROM THE ROOM.**

CHIMNEY OR RUN AWAY FIRE: Call local fire department (or dial 911). Close the draft fully. Extinguish the fire in the burn pot liner with a cup of water and close the door. Examine the flue pipes, chimney, attic, and roof of the house, to see if any part has become hot enough to catch fire. If necessary, spray with fire extinguisher or water from the garden hose. **IMPORTANT:** Do not operate the stove again until you are certain the chimney and its lining have not been damaged.

OPERATION: The door and ash drawer must be kept closed when the unit is in operation to prevent fume spillage and for proper and safe operation of the pellet stove. Also ensure all gaskets on the door are checked and replaced when necessary. **Unit hot while in operation. Keep children, clothing and furniture away. Contact may cause skin burns.**

CAUTION: When operating during adverse weather, if the unit exhibits dramatic changes in combustion stop using the unit immediately.

FUEL: This pellet stove is designed and approved to only burn wood pellet fuel with up to 3% ash content. Dirty fuel will adversely affect the operation and performance of the unit and may void the warranty. Check with your dealer for fuel recommendations. **THE USE OF CORDWOOD IS PROHIBITED BY LAW. Do not burn garbage or flammable fluids such as gasoline, naptha or engine oil.**

SOOT: Operation of the stove with insufficient combustion air will result in the formation of soot which will collect on the glass, the heat exchanger, the exhaust vent system, and may stain the outside of the house. This is a dangerous situation and is inefficient. Frequently check your stove and adjust the slider/damper as needed to ensure proper combustion. **See: "SLIDER/DAMPER SETTING".**

CLEANING: There will be some build up of fly ash and small amounts of creosote in the exhaust. This will vary due to the ash content of the fuel used and the operation of the stove. It is advisable to inspect and clean the exhaust vent semi-annually or every two tons of pellets.

The appliance, flue gas connector and the chimney flue require regular cleaning. Check them for blockage prior to re-lighting after a prolonged shut down period.

ASHES: Disposed ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be on a non-combustible surface, well away from all combustible materials pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispensed, they should be retained in the closed container until all cinders have thoroughly cooled.

SAFETY WARNINGS & RECOMMENDATIONS

ELECTRICAL: The use of a surge protected power bar is recommended. The unit must be grounded. The grounded electrical cord should be connected to a standard 220-240 volts (1.88-2.05 Amps), 50 hertz electrical outlet and also must be accessible. If this power cord should become damaged, a replacement power cord must be purchased from the manufacturer or a qualified Nature's Flame dealer. Be careful that the electrical cord is not trapped under the appliance and that it is clear of any hot surfaces or sharp edges. This unit's maximum power requirement is 450 watts.

When installing the stove in a mobile home, it must be electrically grounded to the steel chassis of the home and bolted to the floor.

GLASS: Do not abuse the glass by striking or slamming the door. Do not attempt to operate the stove with broken glass. The stove uses ceramic glass. Replacement glass must be purchased from an Nature's Flame dealer. Do not attempt to open the door and clean the glass while the unit is in operation or if glass is hot. To clean the glass, use a soft cotton cloth and mild window cleaner, gas or wood stove glass cleaner, or take a damp paper towel and dip into the fly ash. This is a very mild abrasive and will not damage the glass.

KEEP ASH PAN FREE OF RAW FUEL. DO NOT PLACE UNBURNED OR NEW PELLET FUEL IN ASH PAN. A fire in the ash pan may occur.

INSTALLATION: Contact your local building or fire official to obtain a permit and any information on installation restrictions and inspection requirements for your area.

Be sure to maintain the structural integrity of your home when passing a vent through walls, ceilings, or roofs, and all construction meets local building codes. It is recommended that the unit be secured into its position in order to avoid any displacement. This appliance must be installed on a floor with an adequate load bearing capacity, if existing construction doesn't meet load capacity, suitable measures (e.g. load distributing plate) must be taken to achieve it.

DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.
DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.

FRESH AIR: This unit uses large quantities of air for combustion; outside Fresh Air connection is **strongly** recommended. Fresh Air **must** be connected to all units installed in Mobile and "Air Tight Homes" (R2000) or where required by local codes.

Consider all large air moving devices when installing your unit and provide room air accordingly. NOTE: Extractor fans when operating in the same room or space as the appliance may cause problems. Limited air for combustion may result in poor performance, smoking and other side effects of poor combustion.

The stove's exhaust system works with negative combustion chamber pressure and a slightly positive chimney pressure. It is very important to ensure that the exhaust system be sealed and airtight. The ash pan and viewing door must be locked securely for proper and safe operation of the pellet stove.

Do not burn with insufficient combustion air. A periodic check is recommended to ensure proper combustion air is admitted to the combustion chamber. Setting the proper combustion air is achieved by adjusting the slider damper located on the left side of the stove.

Minor soot or creosote may accumulate when the stove is operated under incorrect conditions such as an extremely rich burn (black tipped, lazy orange flames).

If you have any questions with regards to your stove or the above-mentioned information, please feel free to contact your local dealer for further clarification and comments.

SINCE SHERWOOD INDUSTRIES LTD. HAS NO CONTROL OVER THE INSTALLATION OF YOUR STOVE, SHERWOOD INDUSTRIES LTD. GRANTS NO WARRANTY IMPLIED OR STATED FOR THE INSTALLATION OR MAINTENANCE OF YOUR STOVE. THEREFORE, SHERWOOD INDUSTRIES LTD. ASSUMES NO RESPONSIBILITY FOR ANY CONSEQUENTIAL DAMAGE(S).

SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE.

SPECIFICATIONS

RATING LABEL LOCATION:

Freestanding: The rating label is located on the inside of the hopper lid.

Fireplace Insert and Built-In Heater: The rating label is located on the hopper cover.

SPECIFICATIONS:

Table 1: EF2 Classic Specifications.

Classification	Testing Standard	Description
Class 1 IP-20	AS/NZS 4012:1999, 4013:1999	Residential Wood Pellet Heater
Voltage	Current	Frequency
220 - 240 V	2.3 - 2.5 Amps	50 Hz
Maximum Power Requirement	Unit with Full Hopper	Hopper Capacity
550W (1878 BTU/hr)	~ 134kg (295lb)	~ 25kg (55lb)
Mean Flue Gas Temperature - High	Mean Flue Gas Temperature - Medium	Mean Flue Gas Temperature - Low
FS: 197°C (387°F) FPI: 222°C (432°F)	FS: 146°C (295°F) FPI: 175°C (347°F)	FS: 104°C (219°F) FPI: 122°C (252°F)
Fuel Consumption - High	Fuel Consumption - Medium	Fuel Consumption - Low
FS: 2.1 kg/hr (4.63 lb/hr)* FPI: 2.3 kg/hr (5.07 lb/hr)*	FS: 1.3 kg/hr (2.87 lb/hr)* FPI: 1.4 kg/hr (3.09 lb/hr)*	FS: 0.7 kg/hr (1.54 lb/hr)* FPI: 0.8 kg/hr (1.76 lb/hr)*
Heat/Power Output - High	Heat/Power Output - Medium	Heat/Power Output - Low
FS: 9.5 kW (32444 BTU/hr) FPI: 9.4 kW (32103 BTU/hr)	FS: 5.3 kW (18100 BTU/hr) FPI: 6.3 kW (21516 BTU/hr)	FS: 3.2 kW (10929 BTU/hr) FPI: 3.1 kW (10587 BTU/hr)
Average Particular Emissions (dry weight)	Average Emissions Rate	Average Efficiency
FS: 0.4g/kg FPI: 0.4g/kg	FS: 21mg/MJ FPI: 24mg/MJ	FS: 82% FPI: 79%
Gross Calorific value of Pellets (dry weight)	Fuel type	
20.2 MJ/kg (8.68 BTU/lb)	wood pellets - 6mm dia. - complying with draft standard AS/NZS 4014.6	

*Note: Consumption will vary with the type of fuel used.

IMPORTANT: The above values were found during testing and may vary with the fuel type, climate, and installation style

SPECIFICATIONS

DIMENSIONS - FREESTANDING:

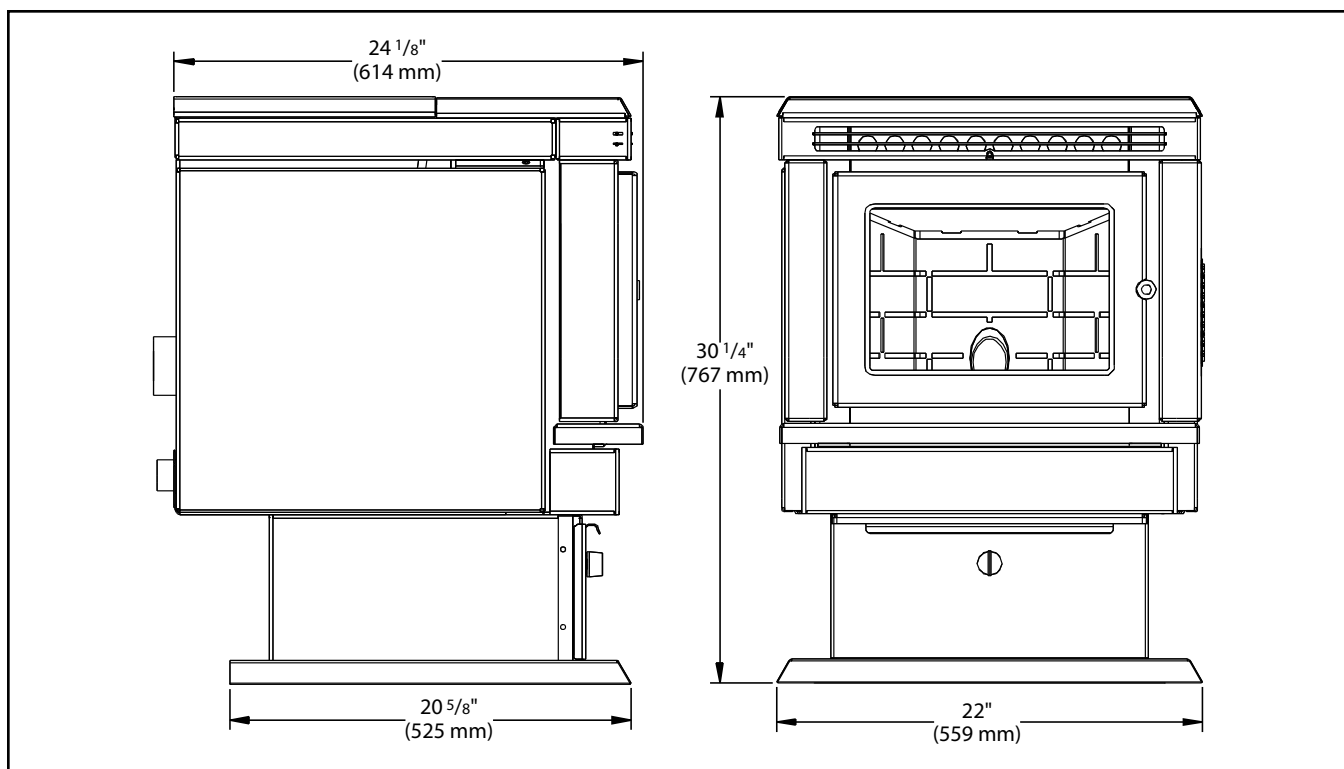


Figure 1: Dimensions of EF2 Classic Freestanding.

DIMENSIONS - FIREPLACE INSERT AND BUILT-IN HEATER:

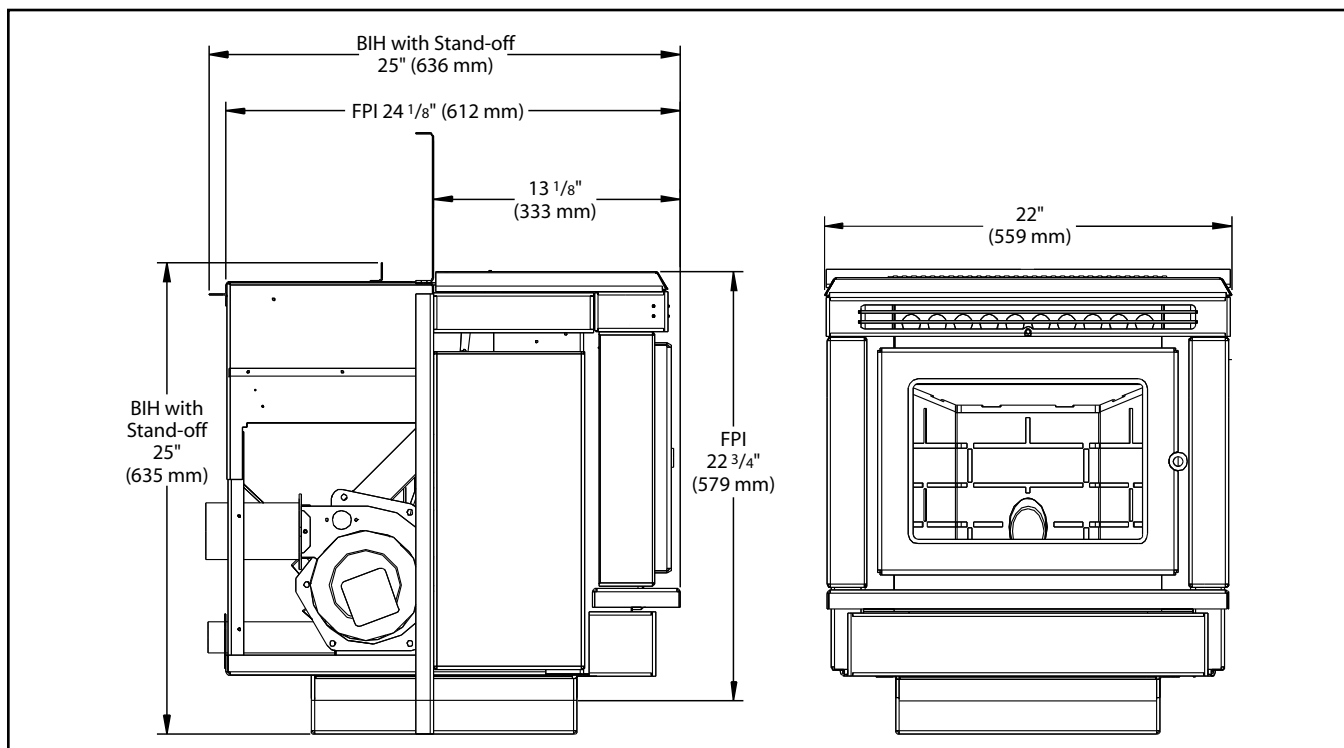


Figure 2: Dimensions of EF2 Classic Fireplace Insert and Built-In Heater.

OPERATING INSTRUCTIONS

CONTROL BOARD FUNCTIONS:

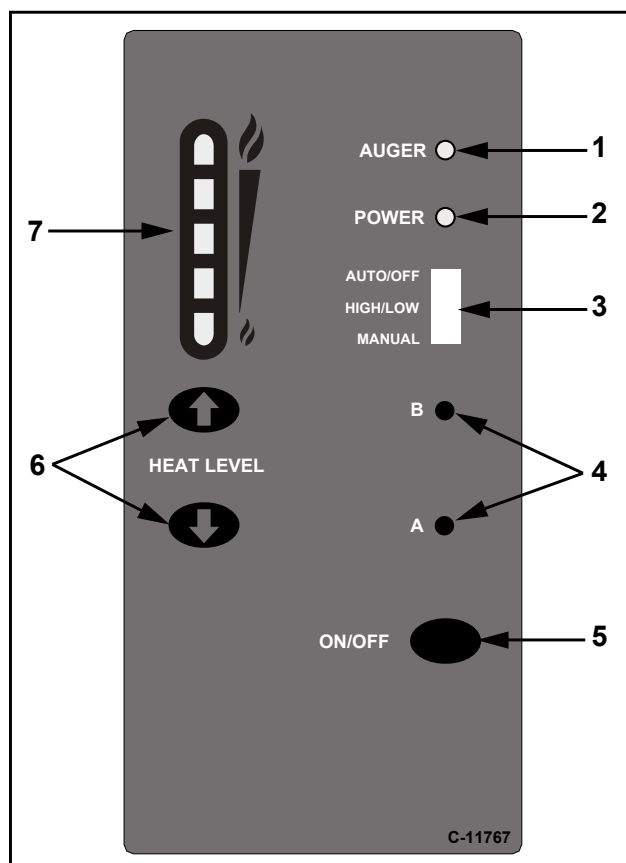


Figure 2: Circuit Board Control Panel Decal.

1. **AUGER LIGHT:** This green light will flash in conjunction with the auger pulse.
2. **POWER LIGHT:** Responsible for signaling the state of the control board. When the light is flashing the stove is in an automatic start mode or the thermostat has control of the unit. When the light is solid, the Heat Level Setting can be altered.
3. **THERMOSTAT SWITCH:** Used to set the unit's controls to one of three mode settings; manual, high/low, or auto/off.
4. **A & B BUTTONS:** To be used by Pellet Stove Technicians only, not to be used by home owner.
5. **ON/OFF BUTTON:** Used to turn the unit ON and OFF.
6. **HEAT LEVEL ADJUSTMENT BUTTONS:** When pressed, will change the heat level setting of the unit up or down.
7. **HEAT OUTPUT INDICATOR:** Shows the present heat output setting.

AUTOMATIC SAFETY FEATURES OF YOUR PELLET STOVE:

- A. The stove will shut off when the fire goes out and the exhaust temperature drops below 120°F (49°C).
- B. The stove has a high temperature safety switch. If the temperature on the hopper reaches 200°F (93°C), the auger will automatically stop and the stove will shut down when the exhaust temperature cools #4 light flashes. Dealer will have to reset the sensor. If this happens, call your local dealer to reset the 200°F (93°C) high limit switch. **ALSO FIND THE REASONS WHY THE UNIT OVERHEATED.**
- C) The unit is equipped with a vacuum switch to monitor the venting; if it becomes blocked the vacuum switch will turn off the auger and the #2 light on the control board will flash.

OPERATING INSTRUCTIONS

OPERATING YOUR PELLET STOVE:

DO NOT OPERATE THE UNIT WITH THE DOOR OR ASH PAN OPEN. Keep hopper lid closed except during re-fuelling.

CAUTION: When operating during adverse weather, such as high winds or freezing rain, if the unit exhibits dramatic changes in combustion stop using the unit immediately. Watch for blocked exhaust outlet.

PRE-BURN CHECK: The burn pot liner holes must be clear and the liner installed properly against the ignitor tube. Check the hopper for enough pellets to start the unit.

Note: The thermostat mode can be changed during normal operation.

MANUAL MODE:

All control of circuit board function is adjusted at the circuit board.

To START: Press the ON / OFF button. The stove will turn on. The system light will flash. The Auger Light will flash with each pulse of the auger (the Auger Feed Rate is pre-programmed during start-up). The Heat Level Indicator will show the Heat Level that the stove will run at after start-up.

If this is the first time the unit has been started or the unit has run out of fuel, the auger will need to be primed. Press the Manual Auger Feed button until fuel starts to drop into the Burn Pot Liner (see "OPERATING INSTRUCTIONS; CONTROL BOARD FUNCTIONS").

When a fire has been established, the System Light will turn solid and the convection blower will turn on (after approximately 10 - 15 minutes), and the Auger Light will continue to flash to the corresponding Heat Level setting.

To OPERATE: Press the Heat Level button to change the desired Heat Level Output setting.

The speed of the convection blower is controlled by the setting of the heat level. The convection blower is OFF on Level One.

When operating on LOW HEAT LEVEL, the feed rate can be adjusted, using the auger trim, for different quality fuels. These settings can be used if the fire keeps going out on low (poor quality fuel) or if the low setting is too hot for the room (see "OPERATING INSTRUCTIONS; CONTROL BOARD FUNCTIONS").

HIGH/LOW MODE: (Requires a Thermostat or Timer)

INITIAL START-UP: See MANUAL MODE above.

OPERATION: When the thermostat calls for heat (contacts are closed) the stove settings are adjustable as per Manual Mode. When the thermostat contacts open, the HEAT LEVEL and Fans will drop down to the LOW setting until the thermostat contacts close again.

*The LOW heat setting can be adjusted for different fuel qualities (see "OPERATING INSTRUCTIONS - CONTROL BOARD FUNCTIONS"). The stove will come back to the previous HEAT LEVEL setting when the thermostat contacts close again.

AUTO/OFF MODE: (Requires a Thermostat or Timer)

INITIAL START-UP: See MANUAL MODE above.

OPERATION: When the thermostat contacts close, the unit will light automatically. Once up to temperature, the stove operates the same as in MANUAL. When the thermostat contacts open, the stove's

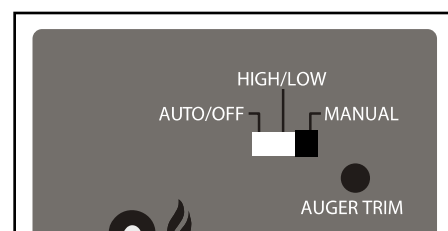


Figure 4: Thermostat Switch in MANUAL position.

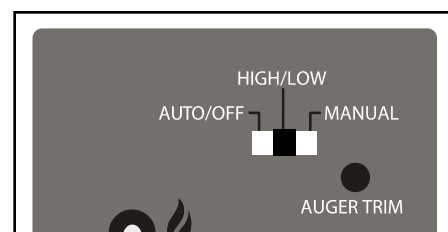


Figure 5: Thermostat Switch in HIGH/LOW position.

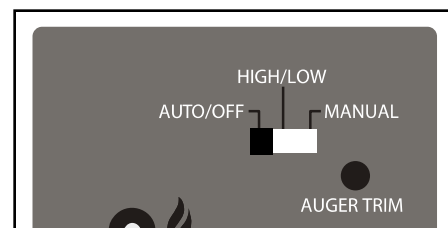


Figure 6: Thermostat Switch in AUTO/OFF position.

OPERATING INSTRUCTIONS

HEAT LEVEL and Fans will drop down to the LOW setting for 30 minutes. If the thermostat contacts close within the 30 minutes, the HEAT LEVEL will return to the previous MANUAL setting. If the thermostat contacts remain open, the stove automatically begins its shutdown routine. The stove will re-light when the thermostat contacts close again.

TURNING YOUR PELLET STOVE OFF:

- **MANUAL and HI / LOW mode:** To turn the unit OFF, simply press the ON / OFF button. This will stop the feed of pellets. The blowers will continue to operate and cool the stove down. When cool enough, the stove will turn off.
- **AUTO / OFF mode:** To turn the unit OFF, turn the Thermostat down or Timer off.

DO NOT turn unit off during start-up or unplug unit while operating; this may lead to smoke escaping from the stove.

SLIDER/DAMPER SETTING:

THE SLIDER / DAMPER MUST BE SET AT TIME OF INSTALLATION. A Qualified Service Technician or Installer must set the Slider Damper. The slider damper plate is located to the left behind firebox; the left cabinet panel must be removed to set it.

If the fire should happen to go out and the heat output indicator has been set on the lowest setting, the Slider Damper should be pushed in slightly, decreasing the air in the firebox.

If, after long periods of burning, the fire builds up and overflows the burn pot or there is a build up of clinkers, this would be a sign that the pellet quality is poor, this requires more primary air, the slider damper must be pulled out to compensate. Pulling the slider damper out gives the fire more air.

The easiest way to make sure that an efficient flame is achieved is to understand the characteristics of the fire.

- A tall, lazy flame with dark orange tips requires more air – Open slider (pull out) slightly.
- A short, brisk flame, like a blowtorch, has too much air – Close slider (push in) slightly.
- If the flame is in the middle of these two characteristics with a bright yellow/orange, active flame with no black tips then the air is set for proper operation, refer to Figure 7.

The combustion exhaust blower is a variable speed blower controlled by the heat output button. This blower will decrease the vacuum pressure inside the stove and as the heat output button is turned down.



Figure 7: Efficient Flame.

SPECIAL NOTES:

Pellet quality is a major factor in how the Pellet stove will operate. If the pellets have a high moisture content or ash content the fire will be less efficient and has a higher possibility of the fire building up and creating clinkers (hard ash build-up).

ROUTINE CLEANING AND MAINTENANCE

NOTE: Do not use abrasive cleaners to clean the surface or any part of the stove.

The following list of components should be inspected and maintained routinely to ensure that the appliance is operating at its optimum and giving you excellent heat value.

2-3 Days / Weekly	Biannually or 2 Tons of Fuel
Burn Pot and Liner	Exhaust Vent
Ash Pan	Fresh air Intake Tube
Inside Firebox	Blower Mechanisms
Door Glass	Heat exchanger tubes
Heat exchanger tubes	Behind firebox liners
Ash pan & Door gaskets	All Hinges
Door Latch	Post Season Clean-up

TOOLS REQUIRED TO CLEAN UNIT

Torx T-20 Screwdriver, 1/4", 5/16" 3/8", & 7/16" wrench and/or socket, Ash Pan Tool, Brush, Soft Cloth, and Vacuum with fine filter bag

BURN POT AND LINER (2-3 days)

This is the 'pot' where the pellets are burned. The burn pot and liner should be inspected every two to three days (when the unit is cold), to ensure proper air flow through the liner. **Failure to keep the liner clean may cause a build up of fuel past the burn pot liner and up the drop tube. This will cause the auger to jam and may result in pellets burning in the drop tube and hopper.**

To remove the burn pot and burn pot liner, open the door using the door handle provided (located on the right-hand side of the stove). Swing the door open. Lift the liner from the burn pot. Lift the burn pot from the firebox by gently lifting up the front of the burn pot, then sliding the assembly from the air intake tube and the ignitor cartridge.

When the unit is cold, remove the burn-pot liner from the stove. Using a metal scrapper, remove material that has accumulated or is clogging the liner's holes. Then dispose of the scrapped ashes from the liner and from inside the burn-pot. Place the burn-pot back into the stove, making sure that the pipes are properly inserted into the burn pot. Place the liner back into the burn-pot, making sure that the ignitor hole in the liner is aligned with the ignitor tube; push the liner up against the ignitor tube.

If, after long periods of burning, the fire continually builds up and overflows the burn pot or there is a build up of clinkers, this is an indication that the pellet fuel quality is poor or the stove may need cleaning. Check the stove for ash build up (clean if required) and adjust the slider / damper to produce the proper clean combustion.

INSIDE FIREBOX (2-3 days)

For bi-weekly clean out, ash may be removed from behind the steel plates by rotating the circular cover to allow vacuuming behind the plates.

ASH PAN AND DOOR GASKETS (weekly)

After extended use the gasket may come loose. To repair or replace this, glue the gasket on, using high-temperature fiberglass gasket glue available from your local Nature's Flame dealer. This is important to maintain an airtight assembly.

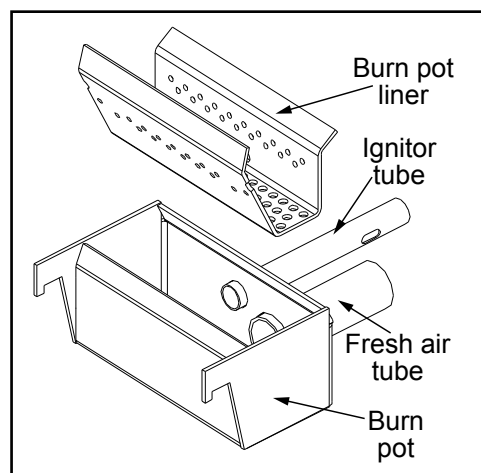


Figure 8: Burn pot with liner.

ROUTINE CLEANING AND MAINTENANCE

ASH PAN (2-3 days)

Monitor the ash level every week. Remember that different pellet fuels will have different ash contents. Ash content is a good indication of fuel efficiency and quality. Dump the ashes into a metal container stored away from combustibles. Refer to "Warnings and Recommendations" for disposal of ashes. **DO NOT PLACE UNBURNED OR RAW PELLET FUEL IN ASH PAN.**

Vacuum the ash pan and inside the pedestal. CAUTION: BECAUSE THE FLY ASH IS VERY FINE, THE USE OF A FINE FILTER VACUUM BAG WILL BE REQUIRED TO PREVENT ASH FROM BEING BLOWN BACK INTO THE ROOM. Please pay special attention that there are no hot ashes in the firebox or there could be a possibility of a fire hazard inside the vacuum cleaner. Place all hot ashes into a non-combustible container.

FREESTANDING ASH PAN:

The EF2 Classic pellet stove freestanding's ash pan is located under the burner, in the pedestal, and has a latching mechanism to secure it. To remove the ash pan, unlock the latch on the ash pan and then pull the pan out.

FIREPLACE INSERT AND BUILT-IN HEATER ASH PAN:

The EF2 Classic pellet stove insert's ash pan is located behind the lower grill.

HEAT EXCHANGER TUBES (2-3 days)

The handle for the heat exchanger cleaning rod is pointed out in Figure 5. This handle is to be pulled back and forth a few times **(ONLY WHEN THE UNIT IS COLD)** in order to clean away any fly ash that may have collected on the heat exchanger tubes. As different types of pellets produce different amounts of ash, cleaning of the tubes should be done on a regular basis to enable the unit to run efficiently.

FRESH AIR INTAKE (season)

Inspect periodically to be sure that it is not clogged with any foreign materials.

EXHAUST PASSAGES (season)

For bi-weekly clean out, ash may be removed from behind the steel plates by rotating the circular covers located behind the right and left side panels. Loosen the screw on the disks and open, this will allow vacuuming behind the firebox liner's plates.

Removal of the firebox backing for bi-annual cleaning:

- Remove the top baffle.
- Lubricate and then remove the seven (7) screws that hold the brick liner in place. Tilt the top of the brick panel towards the firebox opening and remove from the firebox
- Remove the top rod by first removing the screw that holds it in place, then slide the rod sideways
- Pull the side panels into the center of the firebox, then out
- Pull the center panel out.
- Clean and vacuum all passages thoroughly.

Installation of firebox backing:

- Install the side panels in place. Insert center panel, hold the panels in place
- Install the top rod by sliding it into one side panel then across into the other panel. Screw rod in place.

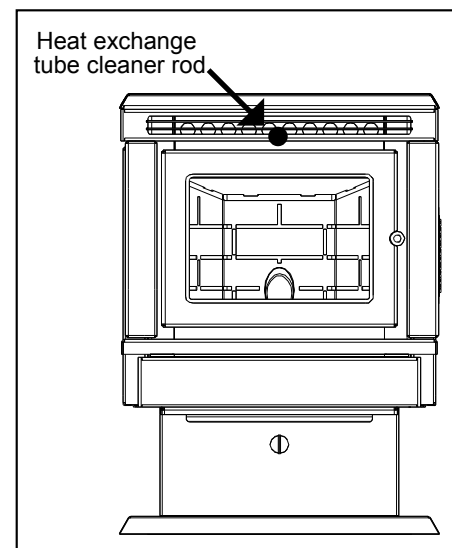


Figure 10: EF2 Classic Heat exchanger rod.

ROUTINE CLEANING AND MAINTENANCE

- Re-install steel brick liner and screw in place.
- Replace top baffle

EXHAUST VENT (season)

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 or after two tons of pellets to determine if cleaning is necessary. We recommend contacting your dealer for professional cleaning. To remove dust from the vent pipe, tap lightly on the pipe to dislodge any loose ash. Open the bottom of the "T" to dump the ash, then vacuum as much of the ash out of the vent pipe as possible.

BLOWER MECHANISMS (season)

Unplug the stove then open the right and left side panels to access the two blowers. Vacuum all dust from motors. Only the convection blower motor (on the right side of the stove) will require lubrication. The convection motor has two lubrication holes on it. Use two drops of SAE 20 light oil to lubricate every six (6) months. Excess oil may damage the motor. The exhaust blower's motor has sealed bearings, DO NOT lubricate this motor.

DOOR GLASS (It is recommended that your dealer replace the glass if broken.)

The door glass is made of 5 mm thick, high temperature PYROCERAMIC. To replace the glass, unscrew and remove the four glass retainers. Remove the glass and any broken pieces. High temperature fiberglass tape should be used around the glass. Replace the glass, center the glass assembly in the frame, then screw the glass retainers back to the frame. The use of substitute materials is prohibited use only part EF-061.

POST SEASON CLEAN-UP

Once you are finished using the pellet appliance for the season, unplug the stove for added electrical protection. It is very important that the stove be cleaned and serviced as stated above.

CLEANING PLATED SURFACES

Please clean all fingerprints off of all plated parts, with denatured alcohol on a soft cloth, before firing the unit each time. Fingerprints, etc. can become permanently etched into the plating if not removed before operating the pellet heater.

BRICK PANEL

The paint on the steel brick panel may peel. This is due to extreme conditions applied to the paint and is in no way covered by warranty.

CONTROL BOARD ERROR MESSAGES

- 1. Light # 2 on Heat output bar flashing** - The Vacuum Switch contacts have opened for more than 15 seconds. Check vent for blockages and combustion blower for operation.
- 2. Light # 3 on Heat output bar flashing** - The exhaust temperature switch has opened (fire has gone out). Check for fuel in hopper, damper setting, and heat output level; adjust as necessary. Check high limit switch.

To reset control board, press ON/OFF button after problem has been solved.

INSTALLATION DATA SHEET

The following information must be recorded by the installer for warranty purposes and future reference.

NAME OF OWNER:

ADDRESS:

PHONE: _____

NAME OF DEALER:

ADDRESS:

PHONE: _____

MODEL: _____
SERIAL NUMBER: _____
DATE OF PURCHASE: _____ (dd/mm/yyyy)
DATE OF INSTALLATION: _____ (dd/mm/yyyy)
MAGNEHELIC AT INSTALL: _____
INSTALLER'S SIGNATURE:

NAME OF INSTALLER:

ADDRESS:

PHONE: _____

WARRANTY: If you have any concerns with your unit please contact the dealer where you purchased the stove.

MANUFACTURED BY:
SHERWOOD INDUSTRIES LTD.
6782 OLDFIELD RD. SAANICHTON, BC, CANADA V8M 2A3
June 17, 2010
C-11440