

Table of Contents

1. Introduction-----	3
2. Installation-----	9
3. Operating Instructions -----	19
4. Caution-----	21
5. Safety instructions-----	21
6. Maintenance-----	22
7. Part List-----	25
8. Troubleshooting-----	28
9. Warranty-----	30

Introduction

PELLET QUALITY:

Pellet quality is important, please read the following:

Your pellet stove has been designed to burn wood pellets only. Do not use any other type of fuel, 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. Please use a recommended pellet type.

P.F.I. PELLET STANDARDS:

- Fines (fine particles).....1% maximum through a 1/8" screen
- Bulk Density.....40 pound per cubic foot minimum
- Size.....1/4" to 5/16" diameter 1/2 - 1 1/2" long maximum Ash
- Content.....1% maximum (Premium grade)
.....3% maximum (Standard grade)
- Moisture Content.....8% maximum
- Heat Content.....approximately 8200 Btu per pound minimum

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.

CLINKER CLEANING: [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 airflow through the Burn Pot Liner and affect the performance of the stove. Any fuel, even approved types, may tend to 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 stove supplier has no control over the quality of pellets that you use, we assume no liability for your choice in wood pellets.

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

Introduction

IMPORTANT SAFETY DATA:

Please read this Owner's Manual before installing or operating your Pellet Stove. Failure to follow these instructions may result in property damage, bodily injury or even death. Contact your local building or fire official to obtain a permit and any information on installation restrictions and inspection requirements for your area.

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

Be sure to maintain the structural integrity of the home when passing a vent through walls, ceilings, or roofs.

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.

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. Make sure that the structural integrity of the home is maintained and all construction meets local building codes.

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 regard to your stove or the above-mentioned information, please feel free to contact your local dealer for further clarification and comments.

SAFETY WARNINGS AND RECOMMENDATIONS:

Be sure to read the entire owner's manual prior to installing and operating this pellet fuel burning heater.

Failure to follow these instructions could result in property damage, bodily injury or even death.

This stove's exhaust system works with negative combustion chamber pressure and a slight positive chimney pressure, it is extremely important to ensure that the exhaust system be sealed and airtight. The ash pan and viewing door must be securely fastened in order for the unit to be airtight. This appliance will not operate using natural draft or without a power source for the blowers.

The use of grates or other methods of supporting the fuel is not permitted.

This unit is designed to burn pellet wood fuel only. Do not use any other type of fuel; this will void any warranties stated in this manual. **THE USE OF CORDWOOD IS PROHIBITED BY LAW.**

This appliance is designed for residential installation according to current national and local building codes. It is also approved as a mobile home heater which is designed for connection to an outside combustion air source.

It is recommended that the exhaust vent be cleaned bi-annually or after every two tons of pellets.

Soot or creosote may accumulate when the stove is operated under incorrect conditions such as an extremely rich burn (black tipped lazy orange flames). Do not operate the stove if the flame becomes dark or sooty or if the burn pot overfills with pellets. Turn the stove off and call your dealer.

The grounded electrical cord should be connected to a standard 120 volt, 60 hertz electrical outlet. Ensure that the electrical cord is not trapped under the appliance and that it is clear of any hot surfaces or sharp edges.

Be sure that the structural integrity of the home is maintained when passing venting through walls, ceilings or roofs.

The ash pan and viewing door must be locked securely for proper and safe operation of the pellet stove.

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

Do not abuse the glass by striking or slamming the door. Do not attempt to operate the unit with broken glass. Replacement glass must be purchased from a Hongsheng dealer. Do not attempt to clean the glass while unit is hot. To clean the glass, use soft cotton cloth and mild window cleaner, gas or woodstove cleaner.

Do not operate your stove if you smell smoke coming from it. Turn it off, monitor it and call your dealer.

Repair and servicing of your stove may only be done by a qualified technician. Disconnect the power cord before performing any maintenance or repair. NOTE: Turning the stove to "off" does not disconnect all power from the unit.

The stove will not operate during a power outage, if this happens check for smoke spillage and open a house window if necessary.

Keep foreign objects out of the hopper.

Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area. Notify your insurance company of your new stove.

Allow the stove to cool before performing any maintenance.

Ashes must be disposed of in a metal container with a tight lid and placed on a non-combustible surface well away from your home.

Check the venting system, at least twice a year, for creosote build up.

CAUTION:

DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

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.

HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY FROM THE HEATER. CONTACT MAY CAUSE SKIN BURNS. YOUNG CHILDREN SHOULD BE SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE STOVE.

Introduction

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

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 **115 volts (4.5 Amps), 60 hertz electrical outlet**. Be careful that the electrical cord is not trapped under the appliance and that it is clear of any hot surfaces or sharp edges and also must be accessible. If this power cord should become damaged, a replacement power cord must be purchased from the manufacture or a qualified dealer. **The stove's maximum power requirement is 300 watts.**

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 a qualified 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.

FLAMMABLE LIQUIDS: Never use Flammable Liquid such as 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.

SMOKE DETECTOR: Smoke detectors should be installed and maintained in the structure when installing and operating a pellet burning appliance.

OPERATION: The ash pan and door must be closed securely for proper and safe operation of the pellet stove. Also ensure all gaskets on the door are checked and replaced when necessary.

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: Be sure to maintain the structural integrity of your home when passing a vent through walls, ceilings, or roofs. It is recommended that the unit be secured into its position in order to avoid any displacement.

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: Outside Fresh Air connection is optional. 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. Limited air for combustion may result in poor performance; smoking and other side effects of poor combustion.

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

SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE!

AUTOMATIC SAFETY FEATURES:

Your pellet Stove has the following safety features:

- A. The stove will shut off when the fire goes out and the exhaust temperature drops below 120°F(52°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. 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. When the unit is working, if you open the window, the vacuum switch will stop the fuel feeding.
- D. If the power goes out, the unit will stop running. When the power comes back on, the stove will not restart unless the exhaust temperature is still above 120°F (52 °C).

Product performance introduction

Pellet stove is advanced designed and has individual fresh air input and venting system. Negative pressure burning technology causes high efficiency and little ash outlet during burning. It will be shut off automatically by wrong burning or out of fuel. Large BTU, quick heating and low fuel cost are its advantages.

1. Main performance

Model	HP22
Rating input BTU/h	42000BTU/H
Rating fuel consumption kg/h	2.2 + 5%
Heating area m ²	~150
Rating voltage V	115
Rating frequency Hz	60
Rating power W	<= 300
Hopper pound	55
Venting pipe diameter Inch	3
Air input pipe diameter Inch	2
Unit size (wide* depth*high) Inch	23*24*36

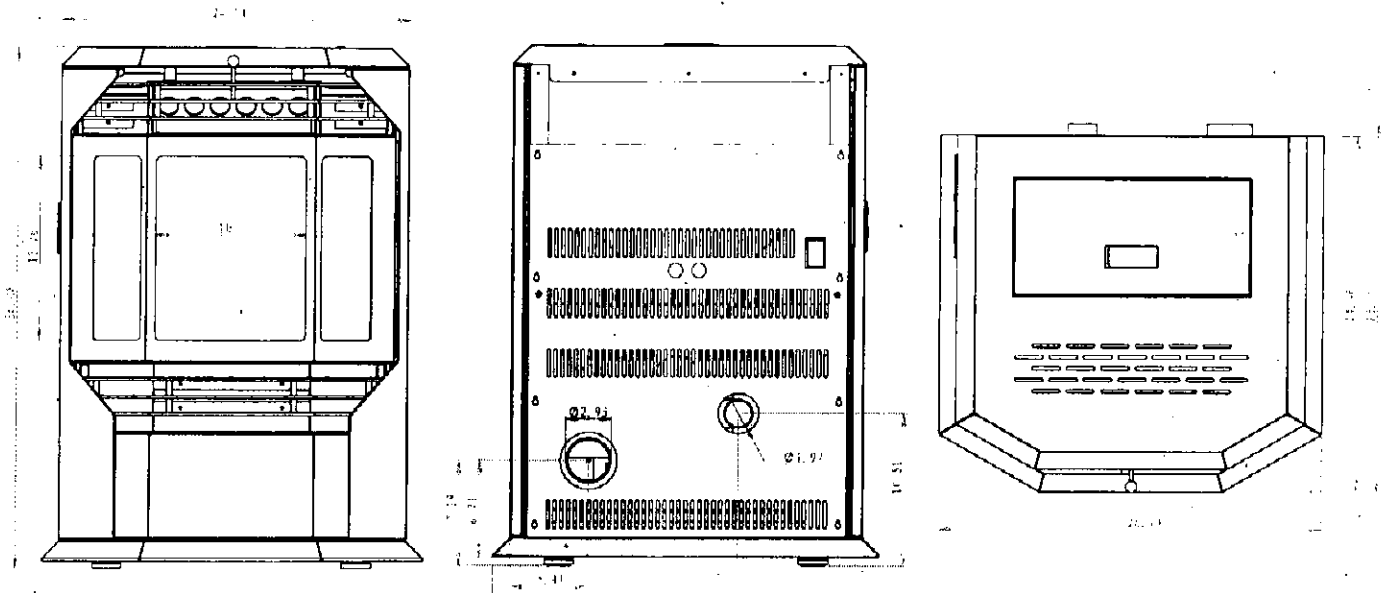
2. Wood pellet

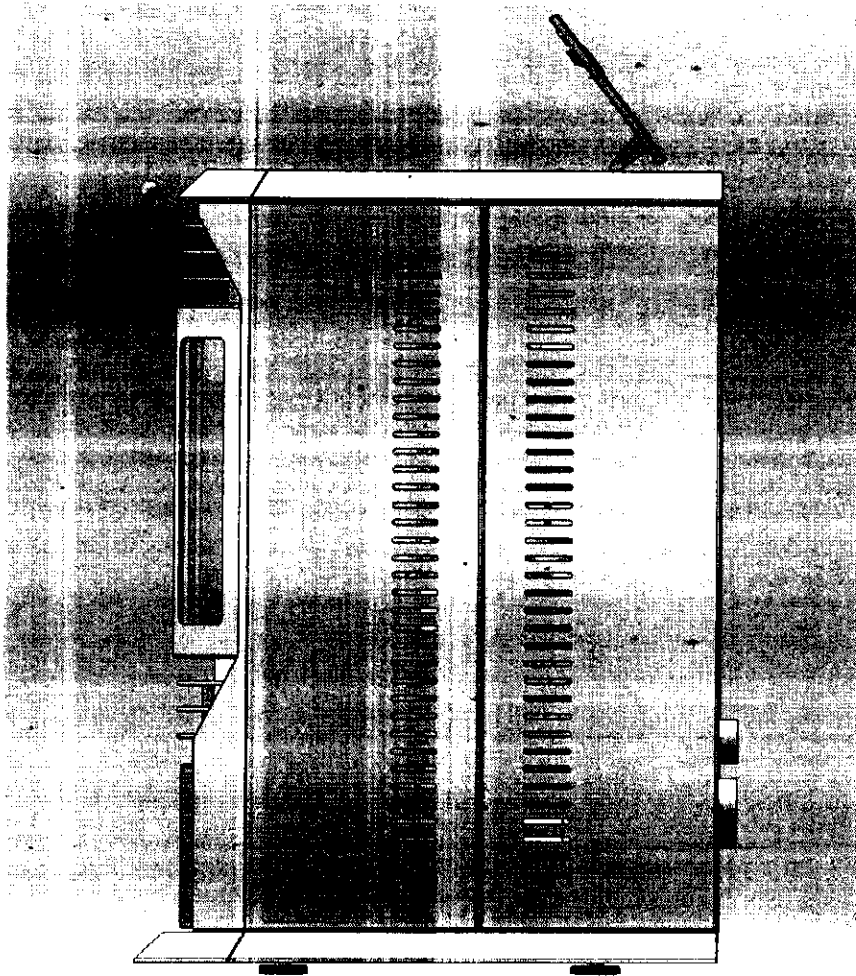
This stove uses wood pellet fuel. It is small column pellet with cleaning surface. The diameter is $\phi 0.2-0.3$ inch, the length is no more than 0.1inch, and its humidity is no more than 10%. Ash is no more than 1%.

Take care of the pellet. Do not damp or crush it. Or, it will affect the efficiency and the dust will be collected on the door glass.

3. Stove

Dimensions



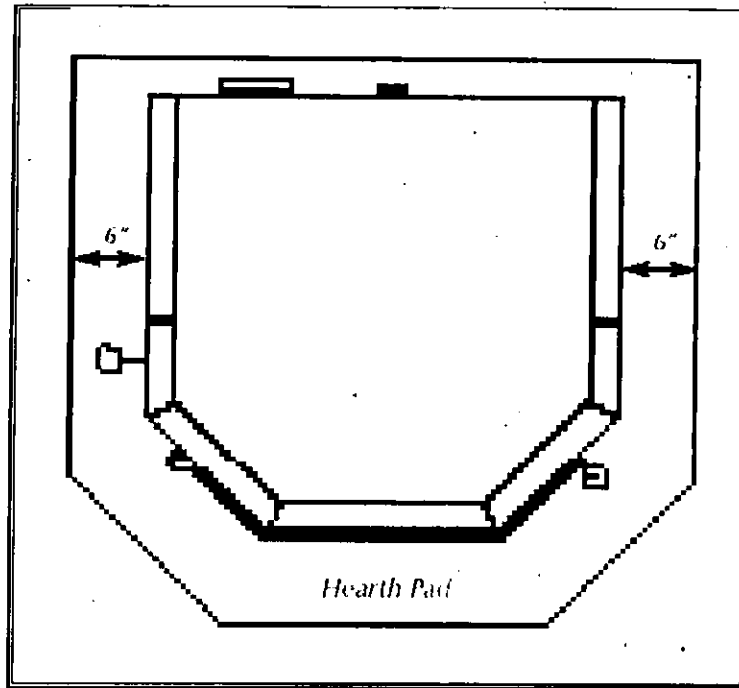


Before installation, you should add four legs to the bottom of the stove.

Installation

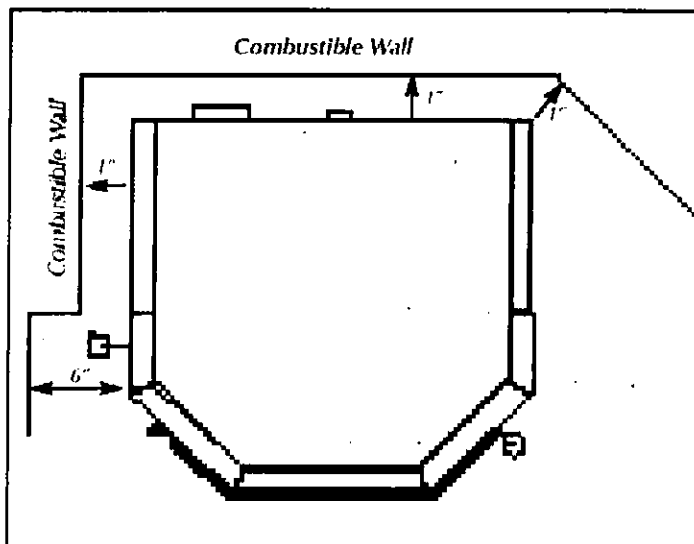
Floor Protection

Your pellet stove must be installed on a non-combustible protective floor pad of minimum 3/8" thickness material or a masonry hearth. The hearth or floor pad must extend a minimum of 6" in front of and from each side of the stove or to the nearest permitted combustible material if less than 6".



Floor/Hearth Pad

The clearance between the walls or to the top is no less than the size in the figure.



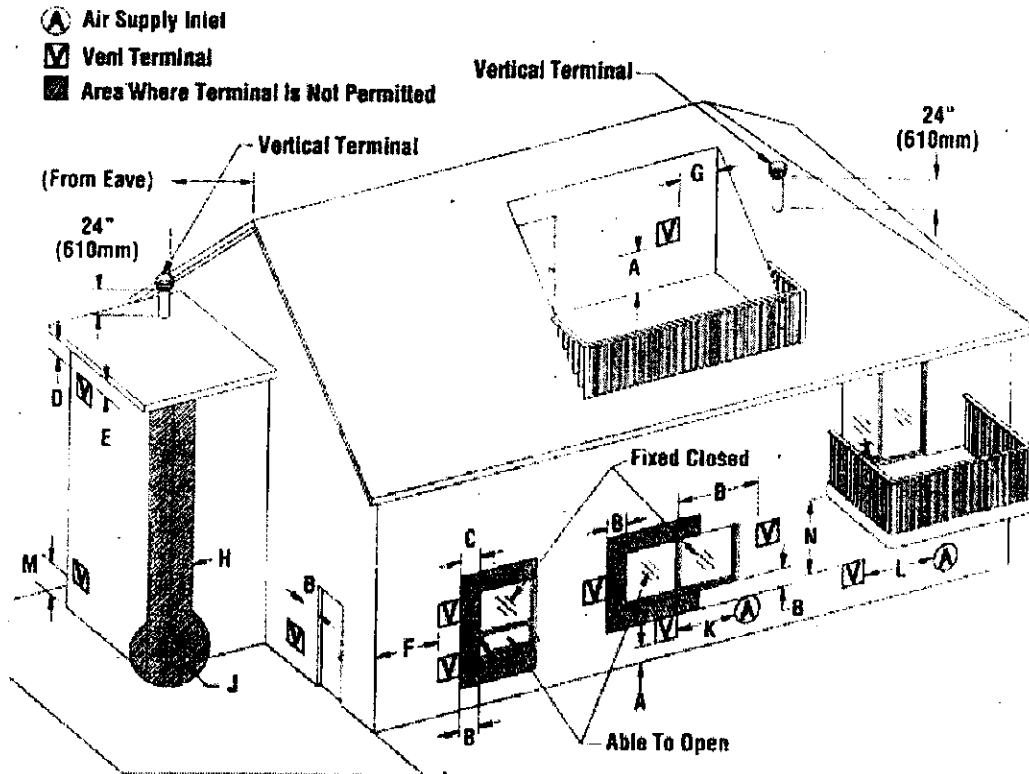
Min. installation clearance (mm) to Combustibles

The following minimum clearances to combustibles must be maintained. Keep all combustibles at least 18" (horizontally) away from the glass windows.

(ALCOVE CLEARANCES)

Maximum Alcove depth: 24" Minimum Alcove height: 47-1/2" Minimum Alcove Width: 37"

VENT TERMINATION LOCATIONS



- A = Clearance above grade, veranda, porch, deck, or balcony (min. 12"/30cm).
- B = Clearance to window or door that may be opened (min. 12"/30cm above - 48"/1.2m below and to the side).
- C = Clearance to permanently closed window * (min. 12"/30cm).
- D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of * (min. 24"/60cm) from the centerline of the terminal (min. 22"/55cm) check with local code.
- E = Clearance to unventilated soffit * (min. 12"/30cm).
- F = Clearance to outside corner * (min. 12"/30cm).
- G = Clearance to inside corner * (min. 12"/30cm).
- H = Not to be installed above a meter/regulator assembly within * (min. 36"/90cm) horizontally from the centerline of the regulator.
- J = Clearance to service regulator vent outlet * (min. 72"/1.8m).
- K = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance * (min. 48"/1.2m).

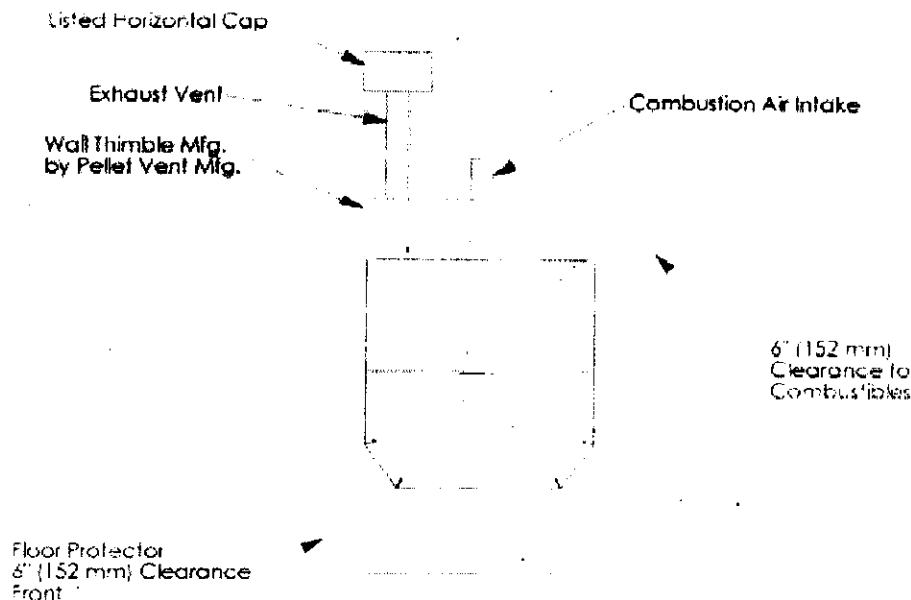
- L = Clearance to a mechanical air supply inlet * (min. 120"/3.1m).
- M = ** Clearance above paved sidewalk or a paved driveway located on public property * (min. 84"/2.1m).
- N = *** Clearance under veranda, porch, deck, or balcony (min. 12"/30cm).

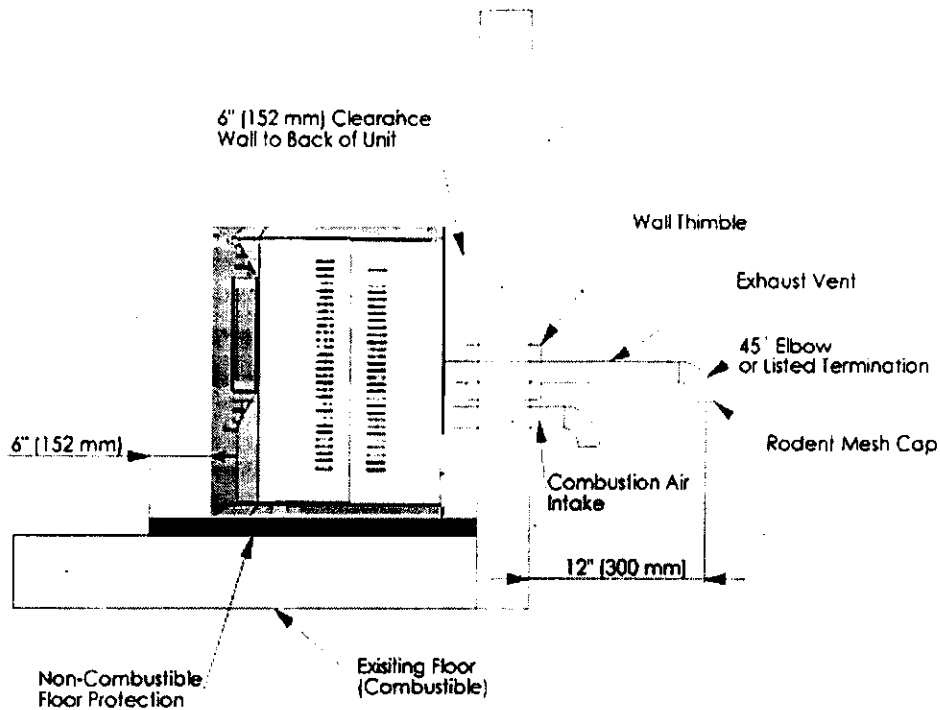
Notes:

- * Local codes or regulations may require different clearances.
- ** A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- *** Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

1. HORIZONTAL EXHAUST VENT INSTALLATION

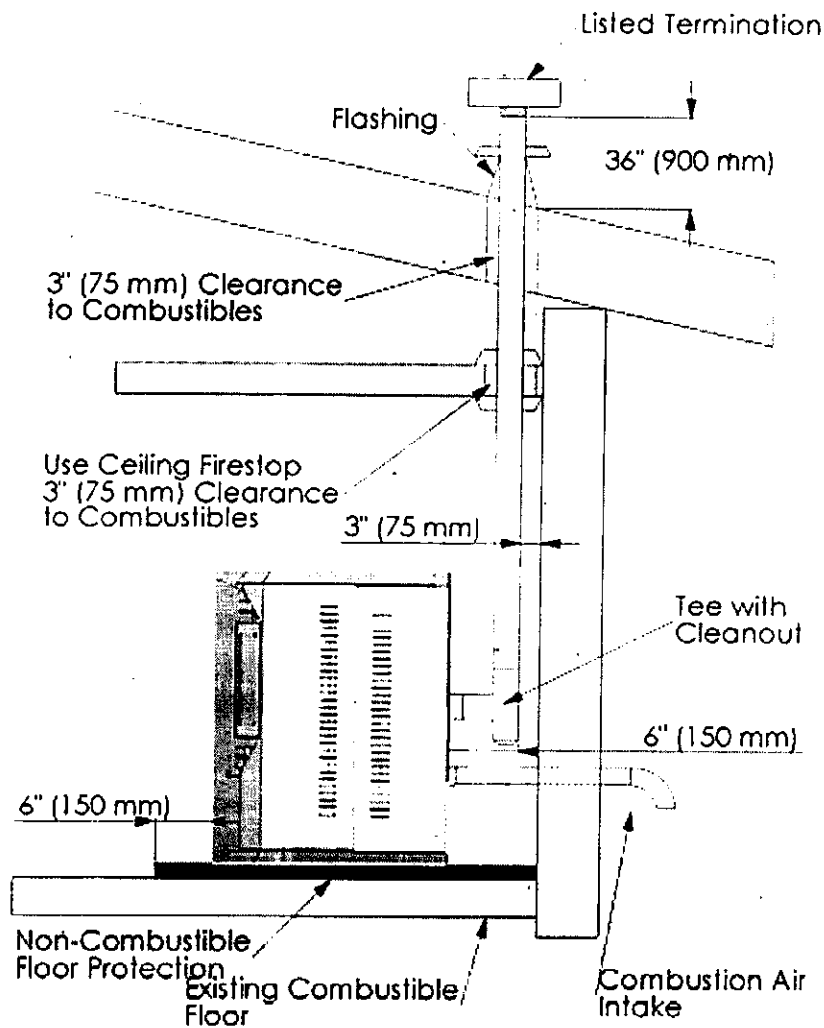
1. Locate your appliance in a location which meets the requirements of this manual and where it does not interfere with the house framing, wiring, etc.
2. Install a non-combustible hearth pad underneath the unit. This pad should extend at least 6" (152 mm) in front of the unit.
3. Place the stove approximately 15" (381 mm) away from the interior wall.
4. Locate the center of the exhaust pipe of your unit. This point should then be extended to the interior wall of your house. Once you have located the center point, on the interior wall, cut a 7" (175 mm) diameter hole through the wall.
5. The next step is to install the wall thimble, refer to the instructions which come with the wall thimble for this step.
6. Install the appropriate length of exhaust vent pipe into the wall thimble. See step 11 when determining the correct length of exhaust vent to use.
7. Install the optional combustion air intake pipe. The unit has an option to utilize outside air for combustion. Be sure that the outside air vent has a proper cap on it to prevent rodents from entering and also is installed where it won't become blocked with snow, etc..
8. Connect the exhaust vent pipe to the exhaust outlet of your appliance.
9. Secure all vent joint connections with 3 screws. Seal the exhaust vent joint connections with high temperature silicone sealant.
10. Push the unit straight back to the interior wall but be sure to maintain the minimum clearances to combustibles 6" (152 mm) to the back of the unit. Seal the annular space, of the wall thimble, around the vent pipe with high temperature silicone sealant.
11. The exhaust vent pipe must extend at least 12" (300 mm) out past the exterior wall. Seal the annular space, of the wall thimble, around the vent pipe with high temperature silicone sealant..
12. Install a listed horizontal termination cap or if necessary install a 90° elbow and appropriate length of vertical venting. A listed vertical vent cap is recommended however (if local codes allow) when the vent terminates several feet above ground level and there are no trees, plants, etc. within several feet a 45° elbow can be used as a termination. The elbow must be turned down to prevent rain from entering.





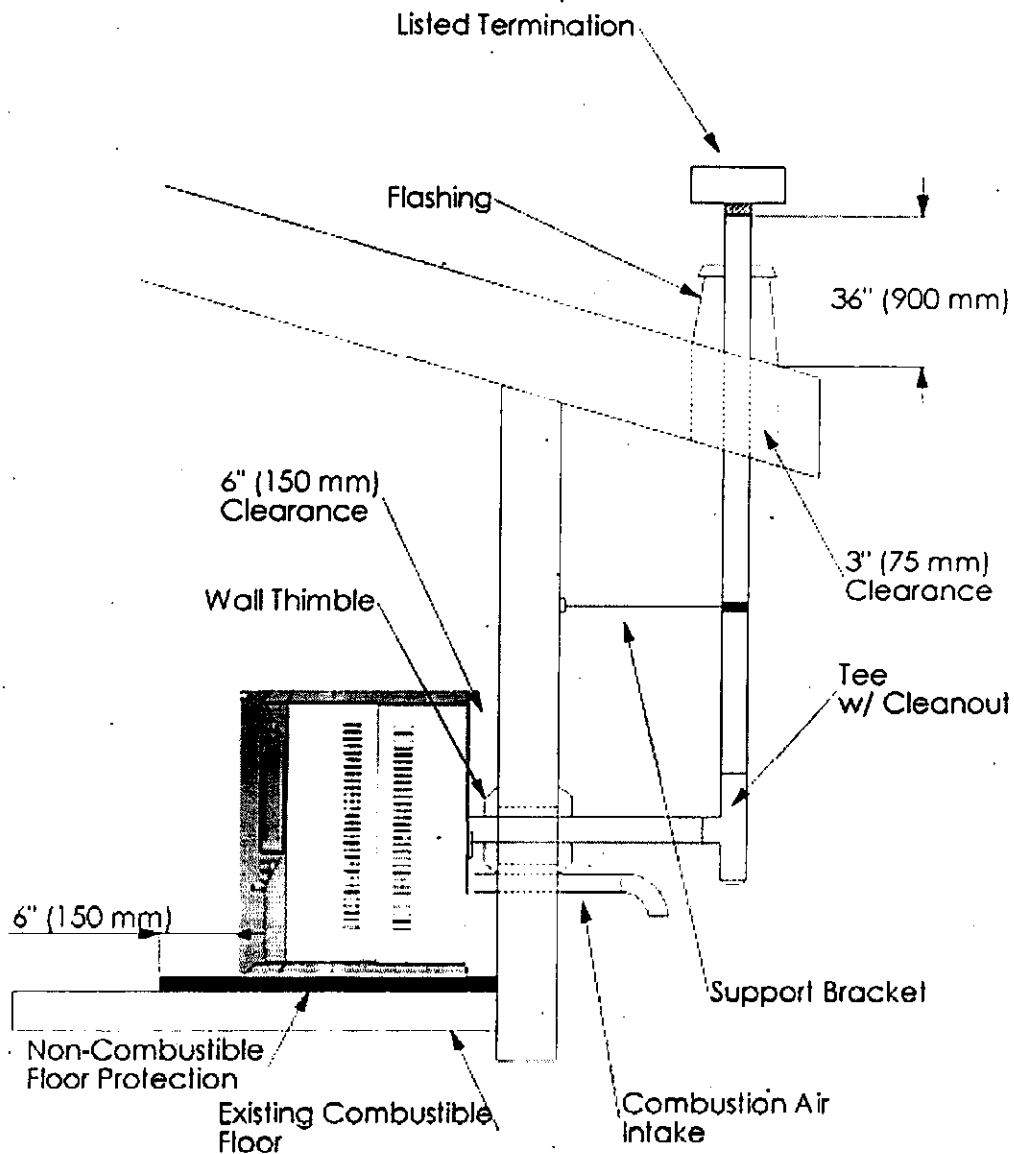
2. FREESTANDING INTERIOR VERTICAL INSTALLATION

1. Choose the location for your pellet stove, see item 1 of the Horizontal Exhaust Vent Installation (page 16) for help in determining the correct location:
2. Install the non-combustible hearth pad.
3. Place your pellet stove on the hearth pad and locate the unit in manner that will leave the exhaust vent with a minimum of 3" (75 mm) clearance to any combustible wall.
4. If installing the optional air intake, Locate the center of the combustion air intake pipe at the back of your unit. Line up the center with the same spot on your exterior wall and cut a hole 2-1/2" (64 mm) in diameter through the wall.
5. Secure all vent joint connections with 3 screws. Seal the exhaust vent joint connections with high temperature silicone sealant.
6. Install the combustion air intake pipe.
7. Install a tee, with a cleanout, on the exhaust pipe found at the rear of your unit.
8. Install listed vent upward through the ceiling. When you pass through the combustible framing ensure that the appropriate ceiling is used. You must maintain a minimum 3" (75 mm) clearance to combustibles and keep any insulation away from the exhaust vent.
9. Extend the exhaust vent through the roof flashing and ensure that the vertical cap is approximately 36" (900 mm) above the roof.



3. FREESTANDING EXTERIOR VERTICAL INSTALLATION

1. Follow steps 1 – 5 from previous page.
2. Locate the center of the exhaust pipe, at the back of the unit. Line up the center with the same spot on the exterior wall a cut a 7" (175 mm) diameter hole through the wall.
3. Install the wall thimble; refer to the instructions which come with the wall thimble for this step.
4. Install a listed exhaust vent through the wall, be sure to make sure that 3" (75mm) clearances to combustibles are maintained.
5. Secure all vent joint connections with 3 screws. Seal the exhaust vent joint connections with high temperature silicone sealant.
6. Install a Tee with a cleanout on the end of the exhaust pipe, and then install listed venting upward from there. Be sure to install support brackets every 5' (1500 mm) to keep the venting straight and secure.
7. Extend the exhaust vent through the roof flashing and ensure that the vertical cap is approximately 36" (900 mm) above the roof.



4. MOBILE HOME INSTALLATION

Mobile home installation should be done in accordance with the Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.

In order for this unit to be installed in a mobile home the following criteria must be met:

- The unit must be secured to the floor using lag bolts in the holes provided in the pedestal base.
- Ensure that the unit is permanently electrically grounded to the chassis of your home.

IT IS MANDATORY TO TAKE THE COMBUSTION AIR FROM THE OUTSIDE WHEN INSTALLING THIS UNIT IN AIR TIGHT OR MANUFACTURED/MOBILE HOMES.

CAUTION:

THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.

WARNING:

DO NOT INSTALL IN SLEEPING ROOM.

Determining Equivalent Pipe Length

Sample Installation Chart

Type of Pipe	# of Elbows or Feet of pipe		Equivalent Feet	Total Equivalent Feet
90	Elbows	X	5(1.5m)	
45	Elbows	X	3(1m)	
Horizontal	Pipe	X	1(.3m)	
Vertical	Pipe	X	5(1.5m)	

A- 90 Deg. Elbow

B- 1' Horizontal Pipe

C- 45 Degree Elbow

D- Standoff Braces

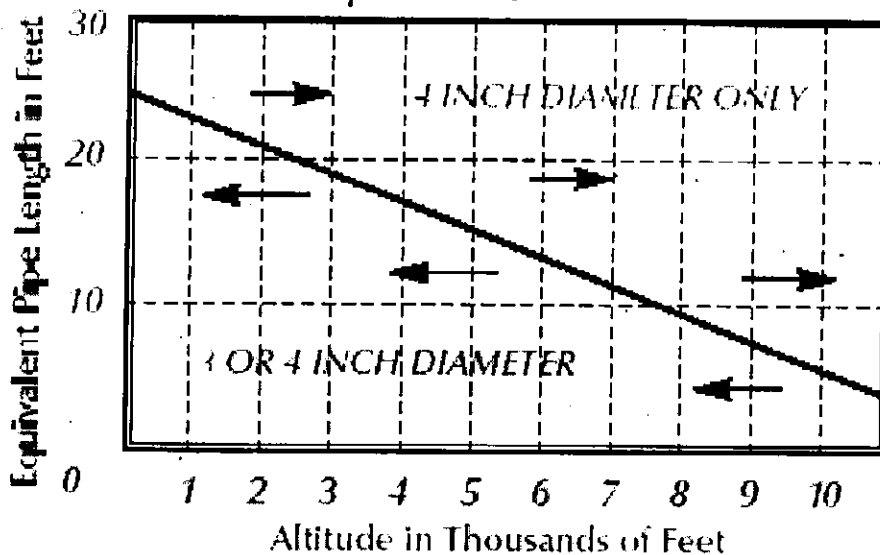
E- 8' Vertical Pipe

F- 2' Horizontal Pipe

G- 90 Degree Tee

H- Wall Thimble

Pipe Selection Chart



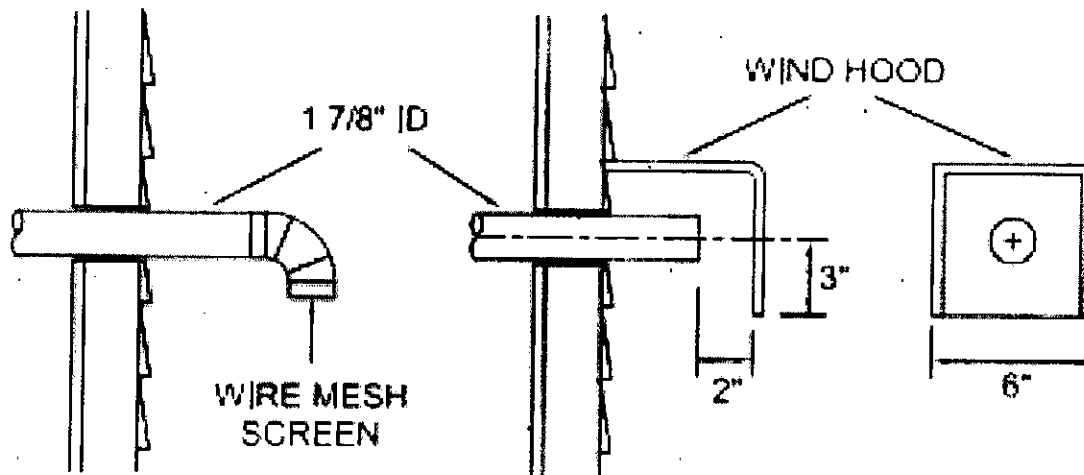
OUTSIDE AIR SUPPLY (optional, unless installing in a mobile home)

Depending on your location and home construction, outside air may be necessary for optimal performance.

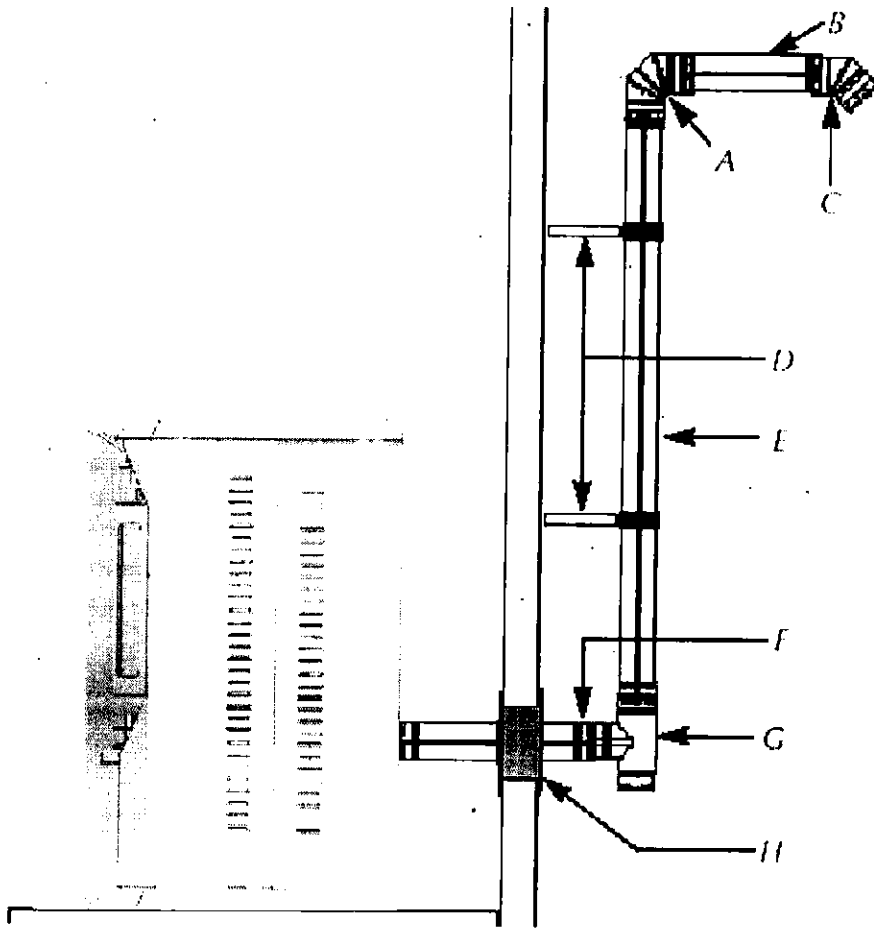
Metal pipe (solid or flexible) must be used for the outside air installation. PVC pipe is NOT approved and should NEVER be used.

A wind shield over the termination of the outside air pipe or a 90-degree elbow or bend away from the prevailing winds MUST be used when an outside air pipe is installed through the side of a building. The outside air termination MUST be at least 1-foot away from the exhaust system termination.

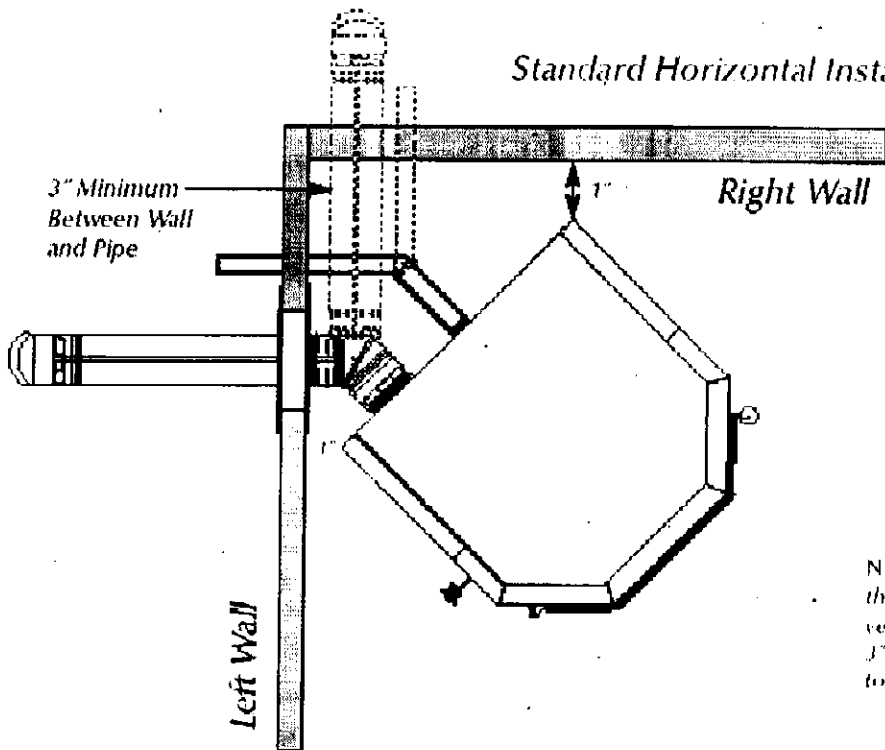
The outside air pipe on your stove is 2" OD. The outside air connecting pipe must be at least 2" ID. The outside air connection used MUST NOT restrict the amount of air available to your stove. The outside air connecting pipe must be as short and free of bends as possible, and it must fit over, not inside, the outside air connection to the stove.



TYPICAL FRESH AIR TERMINATION



Configurations

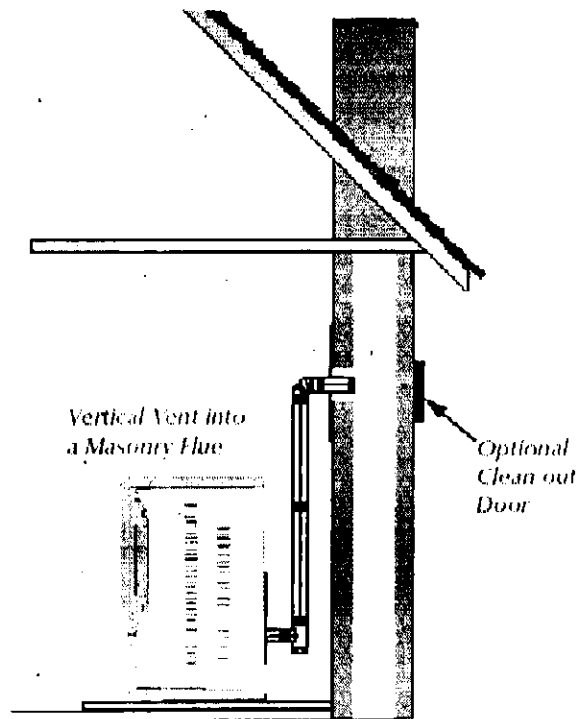
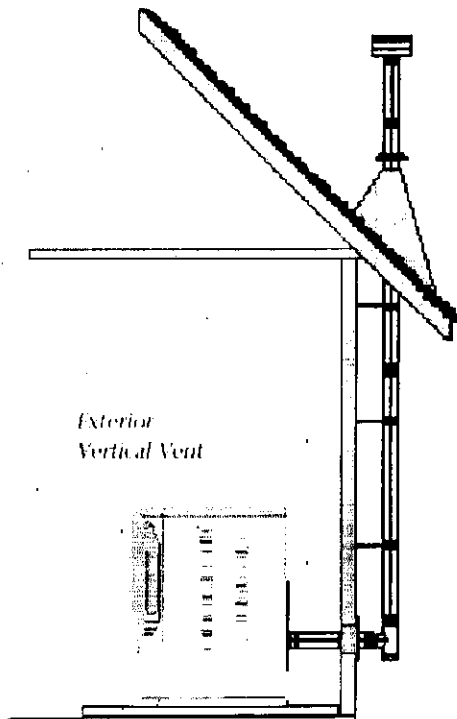
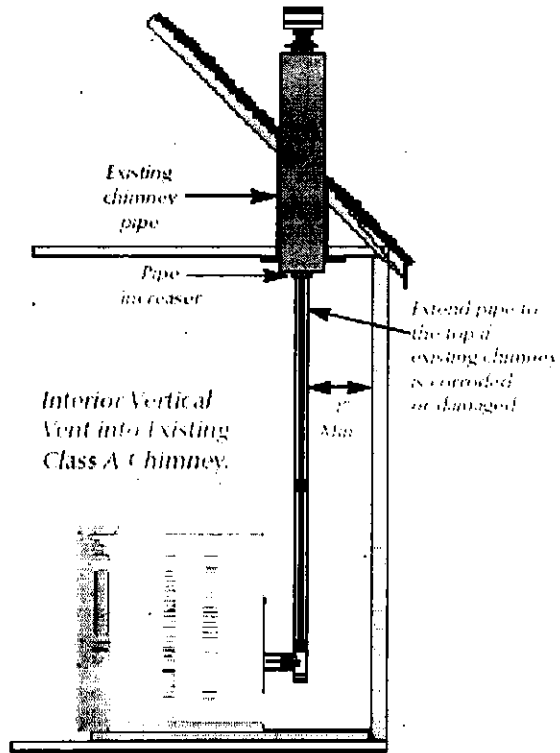
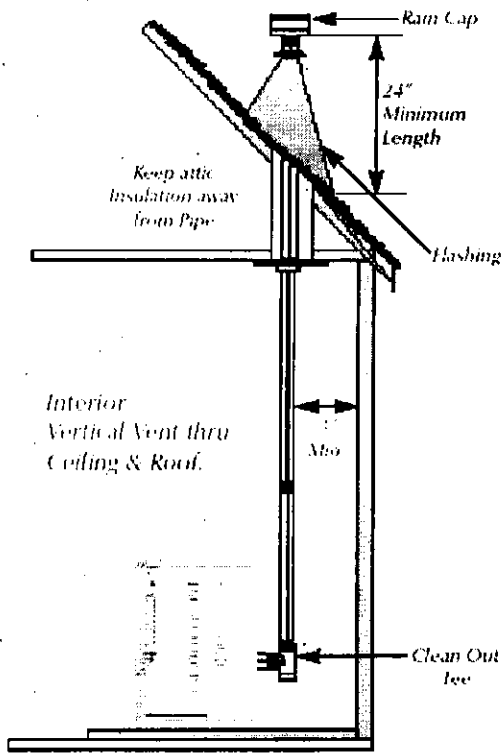


NOTE: If you vent to the Right Wall, the vent pipe must maintain a 1" clearance parallel to the left wall.

INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.

1. Venting Options

The Advantage Plus may be connected to an existing flue or by installing listed type "L" vent pipe. If a Liner is run all the way to the top of the existing chimney, the existing flue should be sealed with a steel plate. Start a vertical run with a Tee at the back of the stove. Other options are illustrated below.

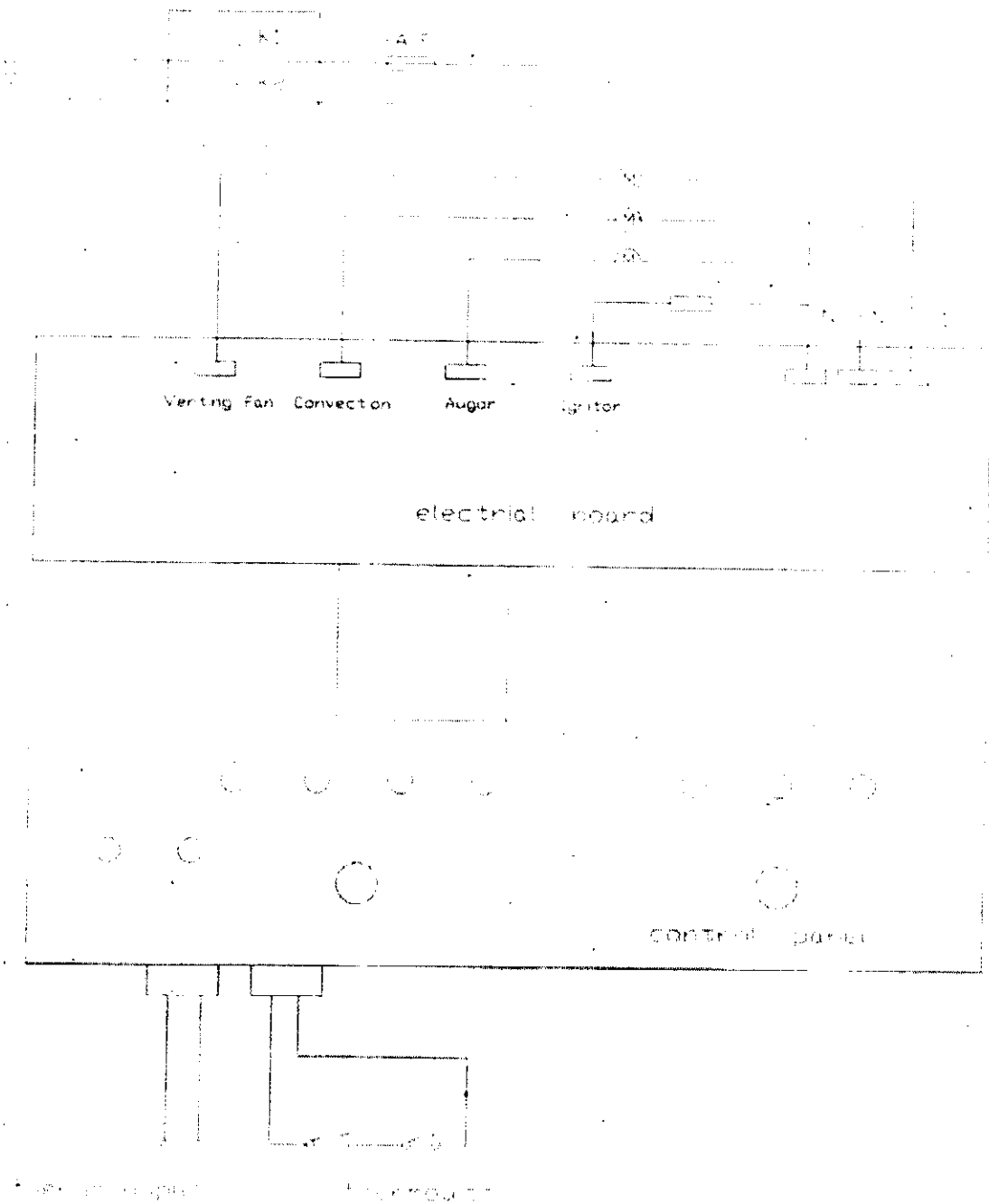


Soot and Flyash: Formation and Need for Removal-The products of combustion will contain small particles of flyash. The flyash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as occurs during startup, shutdown, or incorrect operation of the 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.

2. Electrical:

The unit **must** be grounded. The grounded electrical cord should be connected to a standard **115V, 60Hz (4.5 Amps)** electrical outlet. Be careful that the electrical cord is not trapped under the appliance and that it is clear of any hot surfaces or sharp edges 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 dealer.

Figure:



Electrical figure

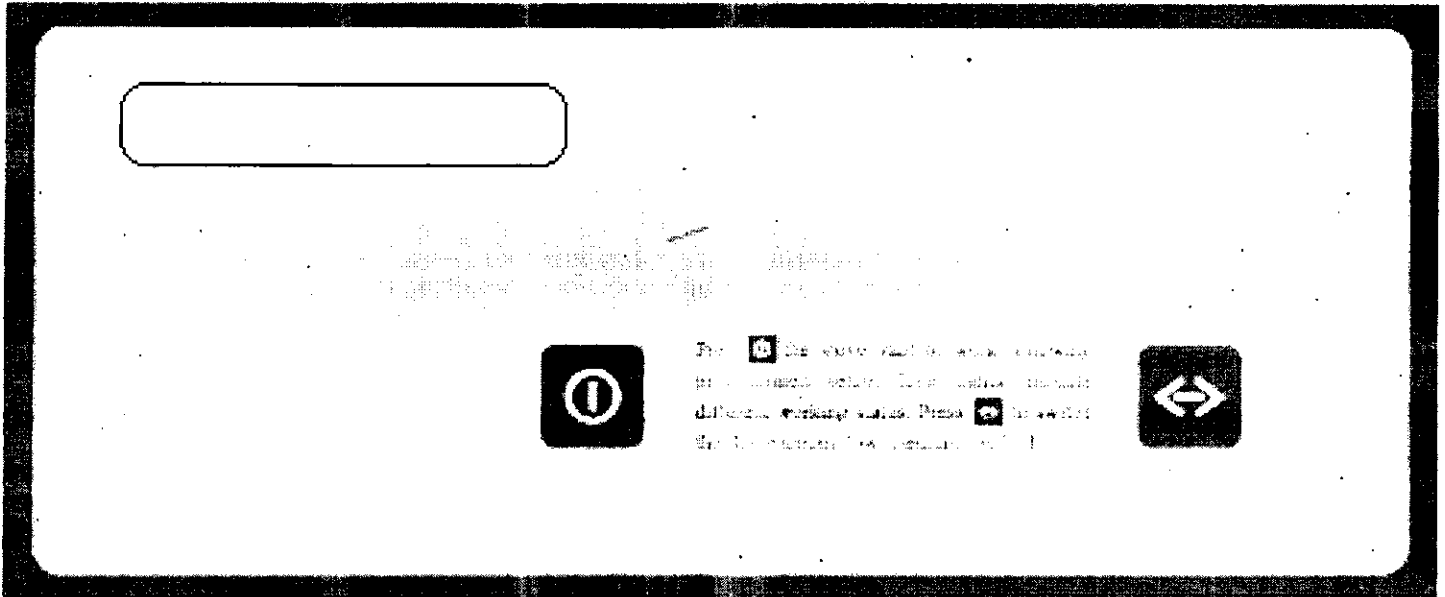
Operation Instructions

1. The first ignition



Please open the window and door when igniting first. The paint smell can be get rid of by burning.

Please connect the power and put wood pellet fuel(max. 50 pound) into the hopper ,then operate as the instruction on section 2"start and operation"

2. Start and operation



Please operate the stove as following (refer to stove structure figure and electrical control figure):


- Check the box, pellet grate bar, air mate board and ash pan then adjust to proper position.
- Fill the hopper with pellet.
- Switch on , the power light is on. Igniter heats the pellet automatically.
- The pellet will automatically fall in pot, then the auto-ignition burns it after about 3 minutes, it forms the stable flame.
- At the same time
___auger motor starts and feeds fuel
___convection blower starts up
- Depending on the heating desire, fuel intake quantity can be adjusted from few to large by the fuel control switch . At the same time, the hot winds switch to blow the hot wind to the room to reach the best combustion synchronously.

Please follow the instruction of the operation panel to fire your pellet stove correctly.

Note: if the ignition is failure, the thermal control will shut off the stove automatically. Then, follow the above process to ignite and start again.

3. TURNING YOUR PELLETT STOVE OFF

Please turn off the stove as the following:

- Put switch  again ;
- The power and the light are off.

- c. The stove will power off and the fire will be put out within 25min by the thermo disc (T0, T1).

DO NOT TURN OFF THE UNIT BY DISCONNECTING THE ELECTRICAL POWER TO THE UNIT. THIS WILL CAUSE THE UNIT TO MISS THE PROPER SHUTDOWN CYCLE, CAUSING THE RELEASE OF SMOKE INTO THE HOUSE AND OVERHEATING OF THE STOVE.

4. Safety

- a. The stove will power off and the fire will be put out within 25min when the auger motor stops.
- b. The stove will power off and the fire will be put out within 30min when the convection blower stops.
- c. Auger motor stops feeding when thermo disc $T3 \geq 93^{\circ}\text{C}$. When the $T3 < 93^{\circ}\text{C}$, the auger motor feeds again, the stove will keep working.

Caution

1. 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.

2. Please keep the door closing and sealing during burning for good effect and preventing hot ash flying out.

3. The burning features ---bright yellow flame, the pellet burning with a little jumping in the grate bar. No pile pellet and no smoke venting. If it becomes a little dark glow and lazy flame, smoke appears from the venting terminal, speed up the convection blower to add the air input.

4. For reducing the heat output, its better to reduce the pellet feed. At the same time turn down the speed of Convection blower and exhaust blower till it reaches the best effect.

5. This stove can work economically by the regular fuel input; try best to avoid long time operation under the Overload for long life use.

6. Venting pipe and air input pipe should keep unblocked.

Safety Instructions

1. The power jack must be grounded.

2. No combustion or explosive things around the stove when it is operating.

3. When installing this unit on a combustible floor (for example linoleum, hardwood flooring) a non-combustible hearth pad (15mm thickness) must be under the unit.

4. Do not open the stove door to prevent smoke and fire flow out when the stove is operating.

5. Do not touch the surface when the stove is operating. The high temperature of the stove glass door and venting pipe will scald you.

6. Use the solid combustion-supporting to ignite. For safety, do not use gasoline or other combustion or explosive things to ignite

Maintenance

Maintenance must be handled only when the stove is cold and out of power.

1. Using a metal scraper, remove material that has accumulated or is clogging the grate bar's holes. Then dispose of the scrapped ashes from the grate bar and from inside the burn box to ensure proper air flow through the grate bar.

2. Clean the door glass and doorframe with wet soft cloth and cleanser daily. Check the gasket complete and well in position or not.
3. Clean the dust in box weekly. Take out the box, put the dust out, and then sweep the dust with brush into the ash drawer.
4. Clean the dust on the heat exchange pipe fortnightly. Close the door first. Heat exchange tube cleaner rod is to be pulled back and forth a few times in order to clean away any fly ash that may have collected on the heat exchanger tubes.
5. Put the ash in the ash drawer out monthly.
6. When stop using it for a long time, it should be cleaned completely. Especially clean the air mate board, convection blower and venting pipe.
 - a. Move the air mate board, clean the surface with the brush, and then recover it.
 - b. Screw out the bolts from the connection of input and output on the convection blower, clean the dust deposited inside the blower with the brush.
 - c. Take off the venting pipe, clean the dust inside the pipes and elbows. Then install them again and ensure the joint is sealed.

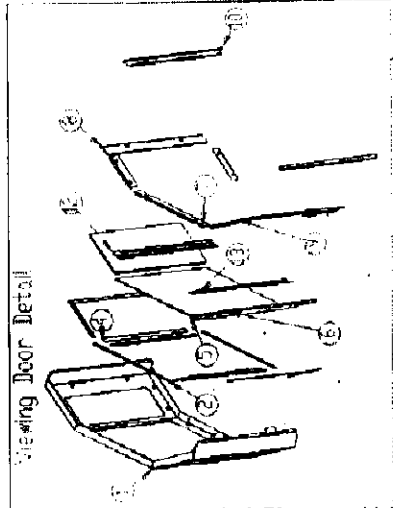
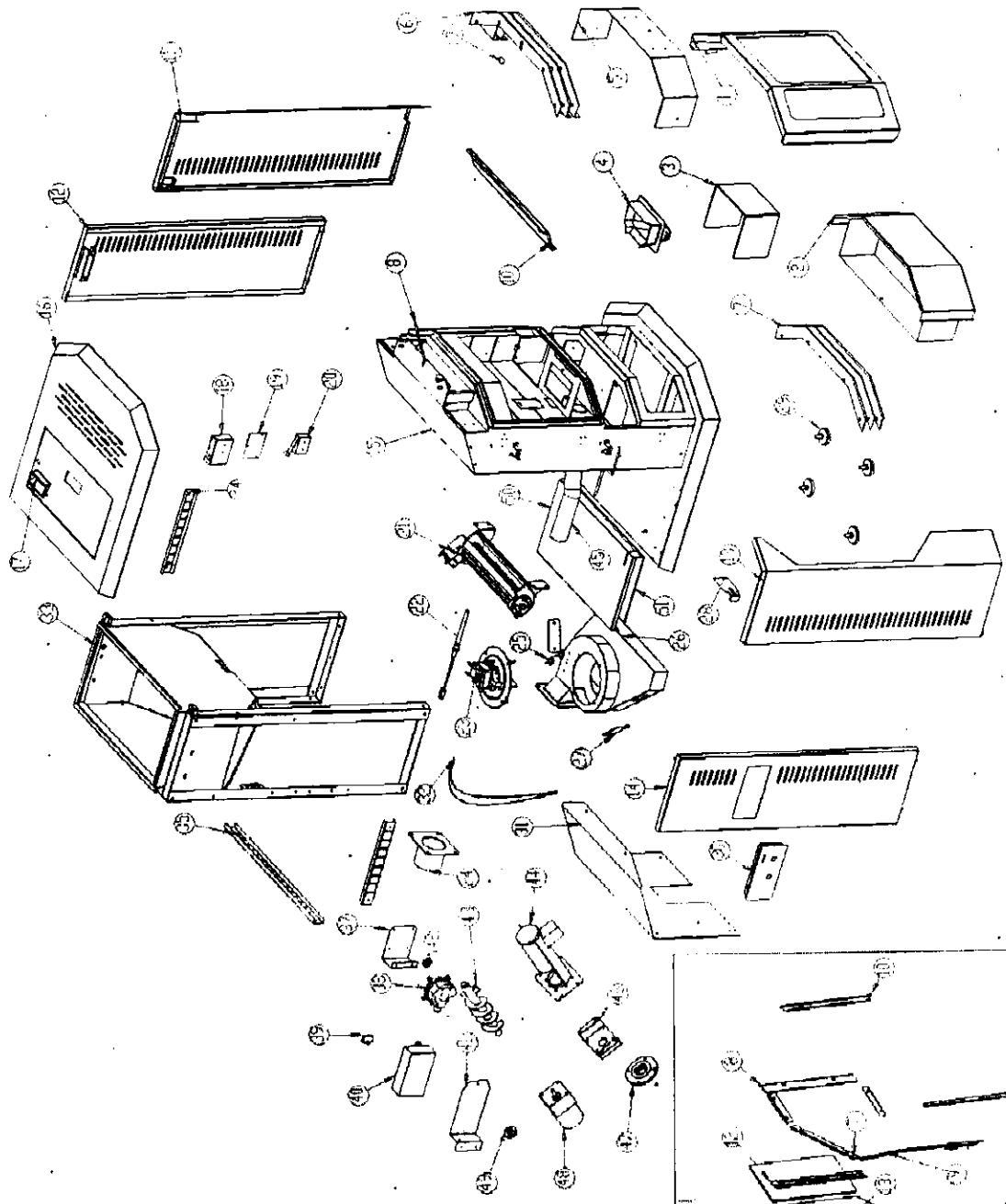
Part list PARTS LIST

HP22 Part List			
Item	Title	Part No.	Qty.
1	Door Frame Assy.	5822-05-01-00	1
2	Ash Box	5822-01-01-13	1

3	Burning Room Assy.	5822-01-15	1
4	Burning Pot	5822-01-16	1
5	Burning Room Support	5822-08	1
6	Air-Out Grid	5822-01-02-00	1
7	lower Grid	5822-01-01-04	1
8	Ash cleaner	5822-07-00	1
9	scoop Part.	5822-01-10-00	1
10	heat Shield Mat	5822-01-03	1
11	Right Wall Panel 1	5822-03-00	1
12	Right Wall Panel 2	5822-03-01-03-02	1
13	Left Wall Panel 1	5822-03-01-03-01	1
14	Left Wall Panel 2	5822-06-00	1
15	Burning Room Weldment	5822-01-06	1
16	Top Panel Assy.	5822-01-05	1
17	Hopper Handle	5822-01-07	1
18	Micro-sw Hsg-1	5822-01-17	1
19	Micro-sw Hsg-2	5822-01-11-01	1
20	Microswitch	5822-01-11-02	1
21	Distribution Motor Assy	5822-01-13	1
22	Ignitor Assembly	5822-01-14	1
23	Exhaust Motor Assy	5822-01-12	1
24	Smoke Weldment	5822-01-01-00	1
25	125° F(52° C) Sensor	5822-11-00	2
26	Exhaust Hsg Wld	5822-01-18	1
27	Exhast Maint. Cover	5822-02-12	2
28	Vent Slides	5822-01-01-11-00	1
29	pedestal	5822-01-09-00	4
30	Circuit Board	5822-01-08	1
31	Insulation Panel.	5822-02-06	1
32	198° F(92° C) Sensor	5822-01-04-01	1
33	Hopper Frame	5822-02-01-00	1
34	L/R Wiring Guide Rail	5822-10	2
35	Back Wiring Guide Rail	5822-12-00	1
36	Back Panel.	5822-02-02-01-05	1
37	Pressure Switch Hsg	5822-13-00	1
38	Pressure Switch	5822-14-00	1
39	Capacitance	5822-02-02-01-04	1
40	Electric supplier	5822-02-02-01-09	1
41	Electric supplier Hsg	5822-15-00	1
42	Exhaust Pipe Weldment	5822-02-02-01-00	1
43	Auger Weldment	5822-16 00	1
44	Feed System Weldment	5822-02-05	1
45	Fresh Air Inlet Pipe	5822-17-00	1
46	Motor Hsg	5822-18-00	1

47	Feed System Assy.	5822-09	1
48	Auger Motor	5822-02-03	2
49	Big Bearing	5822-02-01	1
50	Bottom Heat-Shield		1
51	Heat Shield Mat		1

Front Door Detail			
Item	Title	Part No	数量
1	Door Frame Wldmt	5822-05-01-01	1
3	Glass Gasket 1	5822-05-01-05-01	2
4	Glass Gasket 2	5822-05-01-05-02	4
5	Glass Gasket3	5822-05-01-08	6
6	Glass 1		1
7	Glass 2	5822-06-01	2
8	Glass Retainer1	5822-05-04	2
9	Glass Retainer2	5822-07-01	2
10	Glass Retainer3	5822-05-03	4
11	Glass Gasket1	5822-08-01	2
12	Glass Gasket2	5822-05-02-02	2
13	Glass Retainer Wldmt	5822-05-02-01	2



Troubleshooting

The control panel of the stove has trouble examine lights kit which are red, green and blue by 115V. Three lights are bright and flash when the stove is on normal work. When the sensor detect the abnormal work temperature (below 50°C or over 93°C), the auto-control temperature switches will shut off the fuel feed system automatically to prevent the pellet pile or overheat. When temperature is below 50°C, the safety control system will stop the stove automatically.

The general trouble, the possible reason and the solution are as following, after solving problems, start the stove again:

problems	reason	solution
1. The blower doesn't work after pressing the start bottom.	No power in stove or in the control panel.	Check the power and wires.
4. No feed after igniting. A. Three lights are bright and flash.	Feed unit is blocked. Auger motor doesn't work.	Check the auger is blocked or not. Check auger motor is blocked or not. And the wires break or not. Check the fasten screw between auger and motor loose or not.
B. Three lights are bright but no flash.	No fuel in the hopper. The clock unit breaks.	Fill the fuel into the hopper. Change the clock unit.
C. The red light is bright and flash but other lights aren't bright.	The high temperature switch disconnects. The high temperature switch breaks.	Tight the high temperature switches connection. Change the high temperature switch
D. Three lights aren't bright.	No 115V power. Pellet feeder is power off. The wires of start and clock unit loose or break.	Check the 115V power. Turn on the auger motor switch. Check the wires of start and clock unit or change the unit.
3. After ignition the power is off 15min late.	Pellet feeder unit is off or pellet is too little. 50°C temperature switch breaks or the connection wires of switch loose.	Check the pellet feeder unit and restart. Check the connection wires or change the 50°C temperature switch.
4. orange and lazy fire, piled pellet, carbon on the glass	Lack of air intake for burning.	Clean the block in gate bar. Adjust the knob of convection blower and increase the air intake. Check the door, and window glass gasket sealed or not. Check the air intake pipe and venting pipe blocked or not, and clean it. Change to the big diameter pipes if pipes are too long to affect combustion.

5. The fire put out and power is off automatically.	The hopper is empty. No fuel feed. The fuel feed is too little. High temperature switch (93°C) is wrong.	Put fuel into the hopper. refer to (2) Increase the fuel feed. Cool the stove at least 1 hour then operate again or change the high temperature switch (93°C).
6. The blower still works after the stove is cool and fuel feed stops.	The low temperature switch (50°C) is broken.	Change this switch.
7. no enough heat wind	Unqualified fuel Blower speed is too high. Heat exchange tubes are dirty.	Use the standard specially pellet. Turn down the blower. Clean the heat exchange tubes.
8. Ash and smoke fly out.	Leak between the connection of convection motor and venting pipe. The clean method is wrong.	Use silicon rubber to seal. Clean the dust in the stove with brush to ash drawer.

Warranty

1. Our products are designed with superior components and materials, assembled by trained craftsmen who take great pride in their work. Once assembled the complete fireplace is thoroughly inspected by a qualified technician, before packaging, to ensure that you, the customer, receives the quality product that you expect from Hongsheng Fireplace LTD.

Your fireplace is guaranteed to be free of defects in materials and workmanship for a period of 2 years from the date of purchase. This covers: combustion chambers, heat exchangers and burners as well as stainless steel parts against tarnishing. Electrical components and wearable parts such as blowers, thermal switches, switches, wiring, remote controls, igniters, gaskets, and glass (thermal damage only) are covered. Hongsheng will provide replacement parts free of charge during the first year of the limited warranty.

2. Hongsheng warrants its products against manufacturing defects to the original purchaser only – i.e. the individual or legal entity (registered customer) whose name appears on the original invoice – provided that the purchase was made through an authorized Hongsheng dealer and is subject to the following conditions and limitations:

This factory warranty is nontransferable and may not be extended whatsoever by any of our representatives.

A licensed, authorized service technician or contractor must have installed the fireplace. Installation must be done in accordance with the installation instructions included with the product and all local and national building and fire codes.

This limited warranty does not cover damages caused by misuse, lack of maintenance, accident, alterations, abuse or neglect. Parts installed from other manufacturers will nullify this warranty.

This limited warranty further does not cover any scratches, dents, corrosion or discoloring caused by excessive

heat, abrasives, chemical cleaners nor any venting components used in the installation of the fireplace.

This warranty does not cover any problems caused to installation used venting or vent terminations which are not certified for use with this product.

Any installation, labor, construction, transportation or other related costs or expenses arising from defective part(s), repair or replacement or otherwise of same, will not be covered by this warranty nor shall Hongsheng assume responsibility for same. Further, Hongsheng will not be responsible for any incidental, indirect or consequent damages, except as provided by law, and in no event shall they exceed the original purchase price.

3. In the first year only, this warranty extends to the repair or replacement of warranted parts, which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions.

After the first year, Hongsheng may, at its discretion, fully discharge all obligations with respect to this warranty by refunding to the original warranted purchaser the wholesale price of any warranted but defective part(s).

Notwithstanding any provisions contained in this warranty, Hongsheng's responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

This warranty defines the obligations and liability of Hongsheng with respect to the Hongsheng fireplace and any other warranties expressed or implied with respect to this product, its components or accessories are excluded.

Hongsheng neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this product. Hongsheng will not be responsible for: over firing, downdrafts, spillage caused by environmental conditions such as rooftops, buildings, nearby trees, hills, mountains, inadequate vents, excessive venting configurations, insufficient make up air, or negative air pressures which may or may not be caused by mechanical systems such as exhaust fans, furnaces, clothes dryers, etc.

Any damages to fireplace, combustion chamber, brass or chrome trim or other component due to water, weather damage, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of Hongsheng Fireplace Ltd.

The bill of sale or copy will be required together with a serial number and a model number when making any warranty claims from your authorized dealer. The warranty registration card must be returned within 14 days to register this warranty.

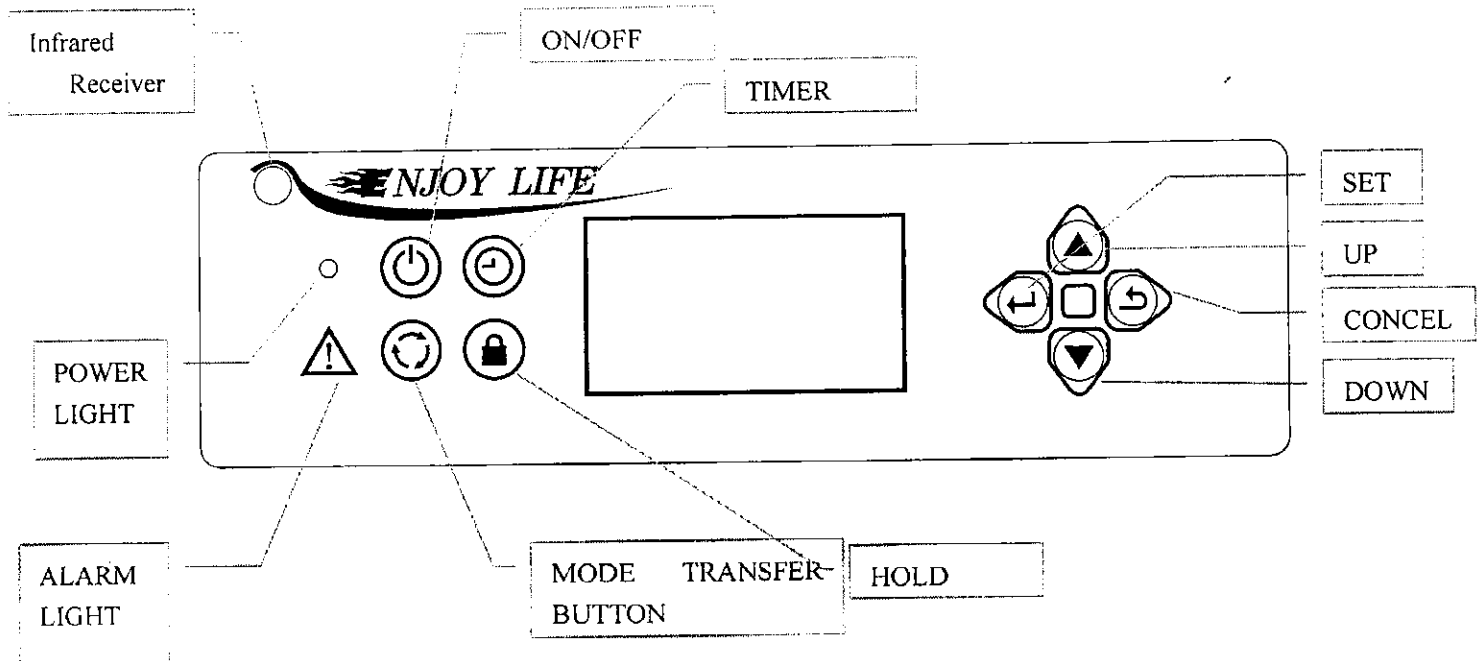
Hongsheng reserves the right to have its representative inspect any product or part thereof prior to honoring any warranty claim.

Ningbo Hongsheng Fireplace CO, .LTD
Hudi, Linshan Town, Yuyao City, Zhejiang Province, China
P.C.: 315461
Tel: 86-574-62061778

Manual (New Control System)

CONTROL BOARD

I : BUTTON AND INDICATOR LIGHT:



1. POWER LIGHT
2. ALARM LIGHT
3. ON/OFF BUTTON
4. MODE TRANSFER BUTTON:

Set the unit's to one of three main modes settings: Manual, Temp, and Weekly.

5. TIMER BUTTON:

Order the start time or shutdown time of the unit: Press Timer, then set the period of time you needed, attention: the maximum is 7 hours. Minimum is 1 hour. After setting 5 seconds later, the stove will be inactive; it will follow your set time.

6. HOLD BUTTON:

In weekly mode, if you want to prolong current running stage, you can simply press the "hold" button and it will hold that state of the stage until the hold button is pressed again.

7. SET BUTTON:

Press set button to adjust some pre-established data, including CURRENT DATE AND TIME, WEEKLY PROGRAMMER, Temperature Units, Blower Voltage and Exhaust Voltage. Restore default setting and use Diagnostic platform are also access.

8. CONCEL BUTTON

9. UP AND DOWN BUTTON

II . Three status's description:

a: Manual:

Under this mode, you can set the heating phase.

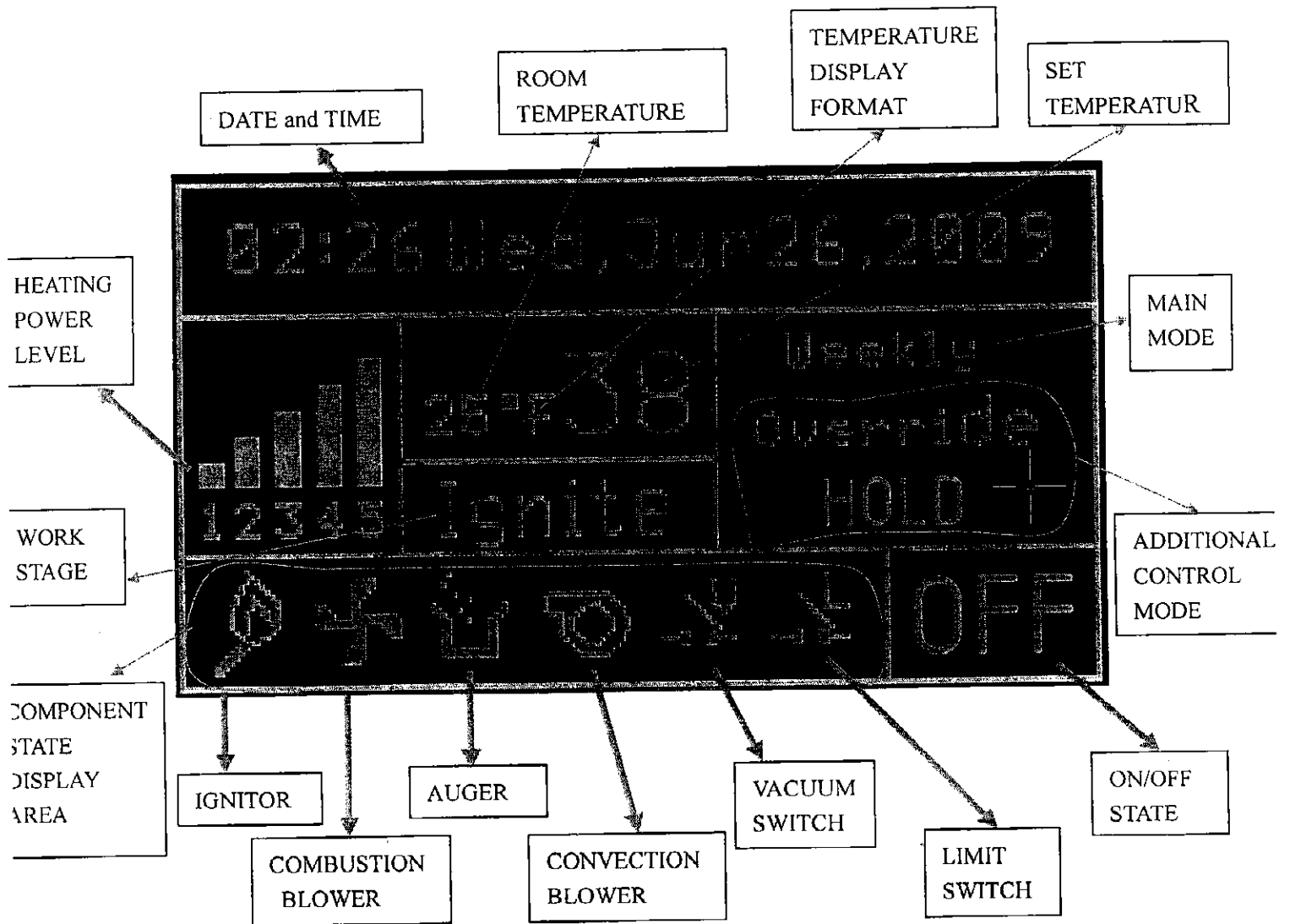
b: Temperature Control:

Under this mode, you can set the room temperature you wanted.

c: Weekly:

Under this mode, the stove will working automatically under your setting.
You can have program in 7day a week, and 4 period of time a day.

III: DISPLAY



1. DATE and TIME
2. ROOM TEMPERATURE
3. TEMPERATURE DISPLAY FORMAT
4. SET TEMPERATURE
5. MAIN MODE
6. ADDITIONAL CONTROL MODE
7. ON/OFF STATE

8. COMPONENT STATE DISPLAY AREA:

As showed in the photo, there are six components indicator in the component state display area, including IGNITOR, COMBUSTION BLOWER, AUGER, CONVECTION BLOWER, VACUUM SWITCH and LIMIT SWITCH. Once the component starts running or its contact close, the corresponding indicator appears.

9. WORK STAGE:

Ignition, heating, fire off

10. HEATING POWER LEVEL:

From 1 to 5, the heating output goes up.

PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

Ningbo Hongsheng Fireplace CO, .LTD

Hudi, Linshan Town, Yuyao City, Zhejiang Province, China

P.C.: 315461

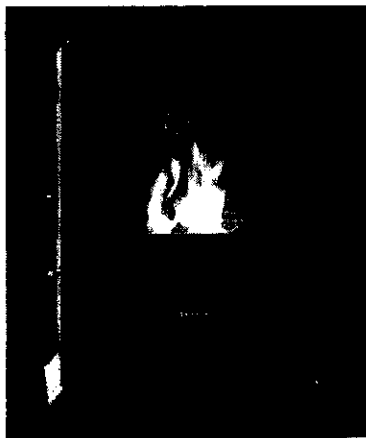
Tel: 86-574-62061778



HP-22

PELLET STOVE

OWNER'S MANUAL



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

**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.**