St. Croix
PEPIN
Installation Manual

Table of Contents

General Information ...................................................................................................... 1
Installation Check List .................................................................................................. 2
Approved Installations ................................................................................................. 3
Exhaust Venting ............................................................................................................ 4
  Venting - Approved Materials ................................................................. 4
  Venting-Typical PL Vent Components .......................................................... 5
  Venting - Determining Materials .............................................................. 6
  Venting: Through Combustibles ................................................................. 8
  Venting: Into an Existing Chimney .............................................................. 10
  Venting: Termination Requirements ........................................................ 12
Combustion Air ........................................................................................................... 14
Electrical Connections ................................................................................................. 15
Floor Protection .......................................................................................................... 17
Clearances to Combustible Materials ........................................................................... 18
Mobile Home Installation ............................................................................................ 20
Thermostat Installation and Operation .......................................................................... 22
SAFETY NOTICE: The stove must be properly installed in order to prevent the possibility of a house fire! These installation instructions must be strictly observed! Failure to follow instructions may result in property damage, bodily injury or even death.

The stove’s exhaust system works with negative combustion chamber pressure and a slightly positive chimney pressure. Therefore, it is imperative that the air intake and exhaust system be airtight and installed correctly. Do not install a flue damper in the exhaust vent of this unit.

Do not connect this unit to a chimney flue serving another appliance or to any air distribution duct or system.

BUILDING PERMIT
Contact the local building officials to obtain a permit and information on any local installation restrictions and inspection requirements.

DEFINITION OF “STOVE”
The word “stove” as used in this manual is interpreted to mean a wood pellet burning freestanding stove, insert, or zero-clearance fireplace unless otherwise noted.

SAFETY TESTING
The stove has been independently tested and listed by Warnock Hersey Laboratories in accordance with the proposed ASTM Standards and the applicable portions of UL 1482 and ULC S627/B366.2, and Oregon Administrative Rules 814-23-901 through 814-23-909, stating requirements for installation as a stove, heater or hearth insert for masonry, metal and zero clearance fireplaces and for mobile home installations. The safety-listing label is located inside the right-side access panel.

DISCLAIMER OF WARRANTY
Since Even Temp Company has no control over the installation of a stove, Even Temp Company grants no warranty, implied or stated, for the installation of a stove and assumes no responsibility for any special, incidental or consequential damages.
INSTALLATION CHECK LIST

BEFORE INSTALLATION

Thoroughly read and understand this manual. SAVE THIS MANUAL.

Check with local authorities and obtain needed permits

3. It is strongly recommended that the stove receive a Dealer’s “Pre-delivery Check” prior to installation.

4. We recommend installation by a qualified professional.

BEFORE STARTING THE STOVE FOR THE FIRST TIME

1. Outside combustion air is recommended for all installations. Use only approved parts. Check that the outside air inlet is connected to draw fresh air from outside the building.

2. All joints of PL vent and single wall stainless steel pipe should be fastened by at least 3 screws and correctly installed. (Follow vent manufacturer’s instructions).

3. Any “plated” areas should be cleaned thoroughly with a glass cleaner such as Windex® and a soft cloth just before lighting the first fire. This will remove fingerprints and oils that may cause a permanent stain or mark on the gold plating the first time it is heated. Never use an abrasive cleaner or material on any plated or painted surfaces. Never clean the plated surfaces when stove is hot.

4. WARNING: The high temperature paint on this stove may take several hours of burning at a high fuel setting to cure fully. During this time, an odor that is not harmful may be evident. When odors are present, the area around the stove should be well ventilated.

5. Caution: The high temperature paint can be easily scratched prior to burning the stove.
APPROVED INSTALLATIONS

The Pepin is approved for CONVENTIONAL and MOBILE HOME installations as:

1. A FREESTANDING stove

2. A HEARTH MOUNT stove

WARNING: The stove must not be installed in a sleeping room when in a mobile home and must have a permanent source of outside air.
EXHAUST VENTING

VENTING: APPROVED MATERIALS

The stove requires a venting system, approved for pellet stoves by a certified testing lab. Approved pellet stove venting materials are: 1) PL vent, a double wall vent with a stainless steel liner; and 2) Single wall rigid or flexible stainless steel pipe. PL Vent and Single wall vent is available through manufacturers such as: James A. Ryder, Simpson DuraVent and Selkirk Metalbestos and is carried by many local pellet stove dealers. In this manual approved venting will be referred to a “PL vent” or “Single wall vent”. All single wall vent adaptors must be stainless steel.

NOTE: TYPE “B” GAS VENT MUST NOT BE USED IN ANY PELLET STOVE INSTALLATION.

Examples of venting system components follow:

High temperature ceramic roping reduces potential fly ash escaping through joints.

Stainless steel inner liners resist corrosive flue gas damage to the system.

Flex pipe is 430 stainless steel, 4 ply construction with a total thickness of approx. .07 inches.
TYPICAL PL VENT COMPONENTS

RAIN CAP
VERTICAL OR HORIZONTAL

WALL THIMBLE

CHIMNEY ADAPTER

SUPPORT BRACKET

ADJUSTABLE LENGTH PIPE

SINGLE TEE w/TEE CAP

SINGLE REDUCTION TEE w/TEE CAP

DOUBLE TEE w/TEE CAP

PIPE ADAPTER

INCREASE

45° ELBOW

90° ELBOW

Pepin installation manual
Page 5
VENTING: DETERMINING MATERIALS

TYPE OF MATERIALS:
1. PL Vent must be used for venting all Freestanding stoves.

2. Exception: Single wall stainless steel may be used inside a fireplace or fireplace chimney. (No clearances to combustibles are needed on single wall stainless steel adaptors, rigid or flex pipe installed within a fireplace or inside a chimney.)

3. A clean out “tee” (PL Vent or “Quick-Connect Exhaust”) must be installed directly to the stove and at the bottom of each vertical run of the exhaust system. These tees are to assist in periodically cleaning the pipe. Single or double clean-out tees may be used. The exhaust system must be installed so the entire system can be cleaned without disassembly.

NOTE: ADHERE TO THE PL VENT CLEARANCES TO COMBUSTIBLES AS REQUIRED. STRICTLY OBSERVE THE PL VENT MANUFACTURER’S SAFETY SPECIFICATIONS.

QUANTITY OF MATERIALS:

1. It is recommended that the vent system be installed with a minimum of three feet (3’) of vertical rise above the stove exhaust port.

FAILURE TO PROVIDE THE NATURAL DRAFT THAT RESULTS FROM A VERTICAL RISE MAY RESULT IN SMOKE BEING RELEASED INTO THE HOUSE WHEN ELECTRICITY TO THE UNIT IS INTERRUPTED WHILE BURNING OR SMOLDERING PELLETS REMAIN IN THE BURN GRATE.

2. Additional vertical exhaust venting should be provided when using:
   a. More than one (1) elbow or tee; and/or
   b. Horizontal runs of over three (3) feet.

3. For a venting system ending in a horizontal run, the exhaust pipe must be terminated by a listed end cap or a PL vent elbow (45 or 90 degrees). Note: End caps or elbows must vent exhaust gases away from the building.

4. For termination above the building roofline a rain cap is required.

5. The exhaust pipe on all stoves is 2.95” O.D. to accommodate a 3” pellet stove pipe adaptor. Your installation may require the use of 4” vent. (3” to 4” adapters are available for both PL Vent and Single Wall Vent.) Use the following guidelines:
<table>
<thead>
<tr>
<th>Type of Installation</th>
<th>Size: Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Less than 10’ horizontal:</td>
<td>3” Acceptable</td>
</tr>
<tr>
<td>B. 10’ to 12’ horizontal:</td>
<td>4” Recommended</td>
</tr>
<tr>
<td>C. Over 12’ horizontal:</td>
<td>4” Required</td>
</tr>
<tr>
<td><strong>(A horizontal installation over 12’ is NOT RECOMMENDED)</strong></td>
<td></td>
</tr>
<tr>
<td>D. Less than 15’ vertical:</td>
<td>3” Acceptable</td>
</tr>
<tr>
<td>E. Over 15’ vertical:</td>
<td>4” Required</td>
</tr>
<tr>
<td>F. Above 4000’ elevation:</td>
<td>4” Recommended</td>
</tr>
</tbody>
</table>

*Note: Four (4) inch vent may be used in all installations. If in doubt, use 4” vent.*

---

Figure 1. REAR VIEW

- **A** – Width of stove
- **B** – Height of stove
- **C** – Center of intake tube from floor
- **D** – Side of stove to center of intake tube
- **E** – Side of stove to center of exhaust
- **F** – Center of exhaust from floor
VENTING: THROUGH COMBUSTIBLES

Note A: Double wall PL vent requires a minimum of three inch (3”) clearance to combustibles and the use of a listed wall thimble, fire stop or roof flashing where applicable.

ATTENTION: We strongly recommend using a battery backup system if the pellet stove is installed using horizontal venting only. This prevents any smoke from entering your home in the event of a power failure.

Legend for Figures 2 through 5

- A. 45 degree elbow
- B. Thimble
- C. PL Vent Section
- D. Stove Exhaust Pipe
- E. Air Intake Damper
- F. Air Vent Damper
- G. 90 degree elbow
- H. 45 degree elbow
- I. PL Vent Fire Stop
- J. Roof Flashing
- K. Storm Collar
- L. Rain Cap
- M. Outside Air Pipe
- N. PL Vent Section
- O. Wall Band
- P. Outside Air Inlet Cover

1. PL vent may be installed directly through a combustible wall, ceiling or roof according to PL vent manufacturer’s instructions. (See Figures 2 and 3).

2. The PL vent system must be properly sealed and secured as per PL vent manufacturer’s specifications. An airtight seal is necessary in connecting the vent to the stove. Using a PL Vent pipe adapter, secure the PL vent with at least three sheet metal screws and high temperature silicone adhesive, (RTV), or metal tape at each joint.
Note A: Double wall PL vent requires a minimum of three inch (3”) clearance to combustibles and the use of listed wall thimble, fire stop or roof flashing where applicable.

1. When terminating the exhaust system under the house eaves, (Figure 4) the end of the vent pipe system must be at least twelve inches (12”) from the wall and 24” below the eave, a 90 degree (G) and a 45 degree elbow may be used (H).

2. When extending through the roof, (Figure 5) install a PL vent fire stop (I) in the ceiling or in the eaves if the eaves are boxed in. Install roof flashing (J) and a storm collar (K). Extend the PL vent at least twenty-four inches (24”) above the roof and terminate with a PL listed rain cap (L).
VENTING: INTO AN EXISTING CHIMNEY

The stove may be connected to an existing Class A chimney or a masonry chimney which meets the minimum requirements of NFPA 211.

1. If the stove’s exhaust is connected to a masonry chimney, the masonry chimney must be free of cracks that could leak exhaust gases or fly ash. A relining of the chimney with either PL vent or single wall stainless steel pipe may be necessary to bring the chimney into compliance.

2. When chimneys are relined, a chimney chase cap that reduces the outlet of the chimney to the size of the reliner is required. Extend the exhaust vent above the chimney chase cap and finish it off with a rain cap. A single wall reliner must be insulated to maintain adequate exhaust temperatures when outside temperatures drop below freezing.

3. Venting into the side of an existing masonry chimney must be done through a masonry thimble. When wall penetration is necessary to access a masonry chimney, use a listed PL vent wall thimble. (Figure 6).

4. When venting into a Class A steel chimney, (Figure 7), use an appropriate PL Vent adapter.

Figure 6. Venting into Masonry Chimney

Figure 7. Venting into Class A Chimney
Legends

P. Positive connect plate
Q. Stainless Flex or PL Vent
R. Existing Chimney Damper
S. PL Vent or Single Wall Vent
T. PL Tee or Single Wall Tee
U. Chimney Case Cover
V. Combustion Air Pipe
W. Combustion Air Shield

Figure 8. Venting to the Top of Chimney

1. When installing as a hearth mount stove into a fireplace the unit must be relined and must terminate above the chimney chase top. An approved flex liner of PL vent must be used.
VENTING: TERMINATION REQUIREMENTS

In determining optimum vent termination, carefully evaluate external conditions especially when venting directly through a wall. Since you must deal with odors, gases, and fly ash, consider aesthetics, prevailing winds, distances from air inlets and combustibles, location of adjacent structures and any code requirements.

1. Exhaust must terminate above combustion air inlet elevation.
2. Do not terminate vent in any enclosed or semi-enclosed area, (i.e. Carports, garage, attic crawl space, etc.) or any location that can build up a concentration of fumes.
3. Vent surfaces can get hot enough to cause burns if touched by children. Non-combustible shielding or guards may be required.

Figure 9. Venting: Termination requirements
Plain View
(All dimensions show Minimum distances.)

4’ (1.2 m) BELOW a door, window (see note below), cavity, or air vent
4’ (1.2 m) HORIZONTALLY FROM a door, window (see note below), cavity, or air vent
1’ (305 mm) ABOVE a door, window (see note below), cavity, or air vent
THE EXHAUST TERMINATION LOCATION MUST BE AT LEAST: (FIGURE 10)

1' (305 mm) ABOVE the ground level
7' (2.1 m) FROM a public walkway
1'(305 mm) FROM The wall penetration point
2' (610 mm) FROM any adjacent combustibles such as:
Adjacent buildings, fences, protruding parts of the structure, roof eaves or overhangs,
plants, shrubs, etc.

FIGURE 10. VENTING: TERMINATION CLEARANCE REQUIREMENTS SIDE VIEW

(All dimensions show MINIMUM distances)
COMBUSTION AIR

WARNING: USE THE AIR INTAKE DAMPER FOR ADJUSTING COMBUSTION INLET AIR ONLY! OTHER METHODS OF RESTRICTING OR BLOCKING COMBUSTION INLET AIR ARE STRICTLY PROHIBITED!

(See Figure 1)

Figure 11A
Stove Air Inlet Connection

1. It is recommended that the stove be connected to an outside source of combustion air to improve stove performance. Flexible metal hose, such as ClevFlex, or rigid metal pipe, (conduit), must be connected around (NOT INSIDE) the combustion air inlet tube (Figure 11A). Be careful not to pinch or bend the outside air pipe with too small a radius which may terminate flush with the outside wall but should be protected from wind and weather by a hood. Note: The outside air pipe must terminate above the maximum snow line.

2. Outside air may be drawn from a semi-enclosed attic or crawl space or any semi-enclosed space. Take care not to draw cold air past water pipes that may freeze.

3. Increase the outside air pipe diameter to 3” for runs over ten (10) feet and elevation over 4,000 feet. Note: Long runs should be avoided.

4. Terminate the outside air pipe below the exhaust vent outlet.

5. An open mesh screen should be placed over the outside air pipe opening to prevent birds or rodents from nesting in the opening. Use an elbow or shield to prevent prevailing winds from blowing directly into the outside air intake pipe. NOTE: Mesh screen should be no smaller than one-fourth inch (1/4”) by one-fourth inch (1/4”).

6. In the case of a sealed fireplace insert shroud, an outside air inlet to the fireplace cavity is necessary to ensure adequate airflow for combustion.

WARNING: OUTSIDE COMBUSTION AIR IS REQUIRED FOR ALL MOBILE HOME INSTALLATIONS!
ELECTRICAL CONNECTIONS

1. The Pepin is provided with a grounded electrical power cord that can extend from the rear of side. This should be connected to a standard 120 volt AC electrical outlet. The current requirement is approximately 3 amps. (5 amps with igniter running)

2. The power cord must be carefully routed to avoid contact with any hot or sharp exterior surface areas of the stove. (Figure 11B) Any stove installed in a mobile home must be electrically grounded to the steel chassis of the home and bolted to the floor in Model compliance with, and according to building code requirements.

3. In Canada, the electrical installation must meet the applicable requirements for CSA C22.2.
Wiring schematic

CAUTION: MOVING PARTS MAY CAUSE INJURY.
DO NOT OPERATE WITH PANEL OPEN!

WARNING: HOT PARTS – DO NOT OPERATE
WITH PANEL OPEN!

DANGER: RISK OF ELECTRIC SHOCK!
DISCONNECT POWER BEFORE SERVICING!

NO SERVICEABLE
PARTS INSIDE

CONTROL BOX
1 2 3 4 5 6
1 2 3 4 5 6

THERMOSTAT
EXTERNAL WIRING
TERMINALS
(PHILLIP'S HEAD)

AUGER MOTOR
RED
TB1

AIR SWITCH
YELLOW
TB1

250° H.L.
WHITE
YELLOW
TB2

THERMOSTAT
EXTERNAL WIRING
TERMINALS
(PHILLIP'S HEAD)

ROOM FAN
BLACK
TB3

HIGH FAN DISC
BLUE
TB2

FUSE
BLACK
TB2

EXHST FAN
BLACK
TB1

GRATE MOTOR
BLACK
TB2

110° AUGER L.L.
RED
TB1

L.L. 120° F
BLACK
TB2

110 VAC
WHITE
TB3

POWER CORD

WHITE-RED STRIPE

TERMINALS FOR IGNITOR
WHITE-RED STRIPE

CART- RIDGE
HEATER

MOLEX
RECEPTACLE
MOLEX PLUG

COMPONENT LEAD WIRES

LOCATION OF LUG CONNECTION

L.L. 120° LOW LIMIT SWITCH (120° F) N.O.
L.L. 110° LOW LIMIT SWITCH (110° F) N.O.
H.L. HIGH LIMIT SWITCH (250° F) N.C.

TB TERMINAL BLOCK CONNECTION
ON THE TERMINAL BLOCK
THERE ARE 3 TERMINAL STRIPS
TB1, TB2, and TB3

NOT IN USE
WHITE
TB3

Pepin installation manual
Page 16
FLOOR PROTECTION

The stove must be installed on a non-combustible protective pad.

Hearth models may be placed directly on the noncombustible hearth of a fireplace.

Floor protection is required for the area directly under the stove and extending 6” beyond the front of the stove as shown.

Figure 12
Floor protection (Top View)
MINIMUM CLEARANCES (INCHES) TO COMBUSTIBLE MATERIAL

Figure(s): From:
14, 16B Sides of stove 4”
14, 16A, B Back of stove 4”
13 Corner of stove 1”
13 Vent pipe 3”
15 Stove to mantel 12”
15 Floor protection: Front (from faceplate) 6”
12 Floor protection: Sides & back of stove 0”
16A Alcove: Vertical to Combustibles 16”
16B Alcove: Sides 4”
16A, 16B Alcove: Back 4”

Figure 13 (Top View) Clearances: corners of stove
Figure 14 (Top View) Clearances Sides and Back
Mobile Home Installation

Unit must be installed in accordance with the:
Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24

![Diagram of a mobile home installation with labels for floor protection, floor, metal chassis, and X and Y points.]

Figure 17.

The stove and insert has been tested and listed for mobile home installations. In addition to all previously detailed requirements, mobile home installations must observe the following: (Figure 17).

1. **WARNING: DO NOT INSTALL IN A SLEEPING ROOM.**

2. **WARNING: COMBUSTION AIR MUST COME FROM THE OUTSIDE OF THE MOBILE HOME! FAILURE TO DO SO MAY CREATE NEGATIVE PRESSURE WITHIN THE MOBILE HOME AND COULD DISRUPT PROPER VENTING AND OPERATION OF THE PELLET STOVE.**

3. **CAUTION: THE STRUCTURAL INTEGRITY OF THE FLOORS, WALLS, CEILING AND ROOF MUST BE MAINTAINED.**

Pepin installation manual
Page 20
4. Permanently bolt the stove to the floor, (X).

5. Electrically ground the stove and pedestal to the metal chassis of the home. Use a number eight, (8), gauge or larger copper wire, (Y).

6. Maintain an effective vapor barrier at location where PL vent exits the structure.

7. Check any other local building codes or other codes that may apply.

8. Do no use components other than those specified for use with this unit, (Refer to pages 4, 5, 6 and 7).

9. Floor protection requirement must be followed precisely.

10. PL Vent must be used for exhaust venting. (Single wall vent is not allowed). Follow PL Vent manufacturer’s installation directions and observe all listed clearances to combustibles.
INSTRUCTION FOR THERMOSTAT HOOK-UP

St. Croix wood pellet stove offers our customers the optional feature of thermostatically controlling your new stove. By using a thermostat to control the operation of your wood pellet stove, you can benefit two ways. First of all, after setting the thermostat to your desired heating needs the stove will operate accordingly to uniformly maintain your desired temperature setting. Secondly, the pellet fuel consumption is being optimized, which ultimately results in lowering your seasonal heating costs.

While the room temperature remains cooler than your desired thermostat setting, the stove will operate at any of the six HEAT ADJUST selector positions. When the room temperature rises above the thermostat setting, the stove will automatically operate at position 1 (low burn) setting.

1. Once you have successfully lit your stove, set the thermostat to your desired heating needs.

2. Set the HEAT ADJUST selector to a position that will effectively create a rise in room temperature above your thermostat setting. The recommended heat adjust settings while using a thermostat are (position 2 through 6).

Thermostat Hook-up

To hook up a thermostat, connect the wires from the thermostat to the wire terminal on the back of the control board (figure 19).

For Heating larger areas:
By placing the jumper (A in figure 19) on one pin only it operates through all 6 settings.

For heating smaller areas:
By placing the jumper (A in figure 19) on the bottom 2 pins, the control board will only run on settings 1 through 4. (Settings 4, 5 and 6 basically operate in the same manner).

NOTE: Installers must determine a neutral location of where to mount the thermostat panel in order for accurate room temperature measurements.
Notes:

Serial Number:
Date of Purchase:
Dealer Information:

Even Temp, Inc.
P.O. Box 127
Waco, NE 68460
PHONE: 402-728-5255
FAX: 402-728-5379
EMAIL: support@eventempinc.com
WEB ADDRESS: www.eventempinc.com