

EXCELPellet

FACTORY BUILT PELLET CHIMNEY INSTALLATION AND MAINTENANCE INSTRUCTIONS

A MAJOR CAUSE OF VENT RELATED FIRES IS FAILURE TO MAINTAIN REQUIRED CLEARANCES (AIR SPACE) TO COMBUSTIBLE MATERIALS. IT IS OF UTMOST IMPORTANCE THAT THIS VENT BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS.

WARNING: THERE IS A MAJOR RISK OF FIRE IF LOOSE FILL INSULATION COMES IN CONTACT WITH THE CHIMNEY. IT IS PARTICULARLY IMPORTANT TO INSURE THAT THERE IS NEVER ANY INSULATION ABOVE THE RADIATION SHIELD IN THE ATTIC.

This vent is intended for use with the following:

- Automatic biomass (wood pellet, corn, agricultural products, etc.) fuel-burning appliances that exhaust low temperature flue gases (572°F / 300°C max.).
- Gas and liquid fuel-burning appliances that exhaust low temperature flue gases (572°F / 300°C max.) and that are approved for use with type L venting systems.
- Gas fuel-burning appliances that exhaust low temperature flue gases (473°F / 245°C max.) and that are approved for use with type B venting systems.

THE VENT SHOULD BE SIZED ACCORDING TO THE APPLIANCE MANUFACTURER'S INSTRUCTIONS.

Use only ICC model EXCELPellet components. Failure to do so will void the certification and warranty of the product.

Keep these installation and operating instructions in a safe location for future reference.

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

EXCELPellet has been tested by INTERTEK to the following:

- Conform to UL Std 641
 - Certified to CAN/ULC Std S609 and ULC/ORD Std C441-1992.
- ETL Listing # 4005717.



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TABLE OF CONTENTS

GENERAL	3
OPERATION AND MAINTENANCE	3
INSTALLATION NOTES.....	3
PLANNING YOUR INSTALLATION	5
GENERAL.....	5
RULES OF SAFETY.....	5
INSTALLATION INSTRUCTIONS	6
THROUGH-THE-WALL INSTALLATIONS	6
VERTICAL INSTALLATION	8
INSTALLATION INTO A MASONRY CHIMNEY	9
INSTALLATION INTO THE SIDE OF A MASONRY CHIMNEY	10
INSTALLATION INTO A MASONRY FIREPLACE.....	11
EXCELPellet CONNECTED TO TYPE A CHIMNEY	13
OFFSET TABLES.....	15
LIMITED LIFETIME WARRANTY.....	16
ICC EXCELPellet CHIMNEY	16

EXCELPellet TECHNICAL SPECIFICATIONS			
Materials:			
Exterior (casing):	.019" Galvalume Steel		
Interior Flue:	.016" Stainless Steel		
Insulation:	3/8" Air Space		
Gasket:	Silicone Rubber		
Inside Diameter	3 Inch		4 Inch
Outside Diameter	3 3/4"		4 3/4"
Weight/Foot (lb/ft.)	1.3		1.6
Rough Opening Required			
Ceiling Supports / Radiation Shield (PSA)	5 3/4" x 5 3/4"		6 3/4" x 6 3/4"
Square Support / Radiation Shield (PSS)	6 3/4" x 6 3/4"		6 3/4" x 6 3/4"
Insulated Wall Thimble (PWT)	6 1/2" x 6 1/2" or 6 1/2" round		7 1/2" x 7 1/2" or 7 1/2" round
Insulated Wall Thimble w/ Outside Air (PWTOI)	6 3/4" x 6 3/4"		7 3/4" x 7 3/4"
Insulated Wall Thimble w/ Air Channel (PWTOC)	6 3/4" x 6 3/4"		7 3/4" x 7 3/4"
Masonry Chimney Adapter (PAM)	6" to 8" dia.		6" to 8" dia.
Maximum Support capacity			
Ceiling Supports / Radiation Shield (PSA)	30 feet		25 feet
Square Support/Radiation Shield (PSS)	37 feet		30 feet
Adjustable Wall Support (PSW)	21 feet		17 feet
Clearances			
Clearance to combustibles	1"		1"

GENERAL

OPERATION AND MAINTENANCE

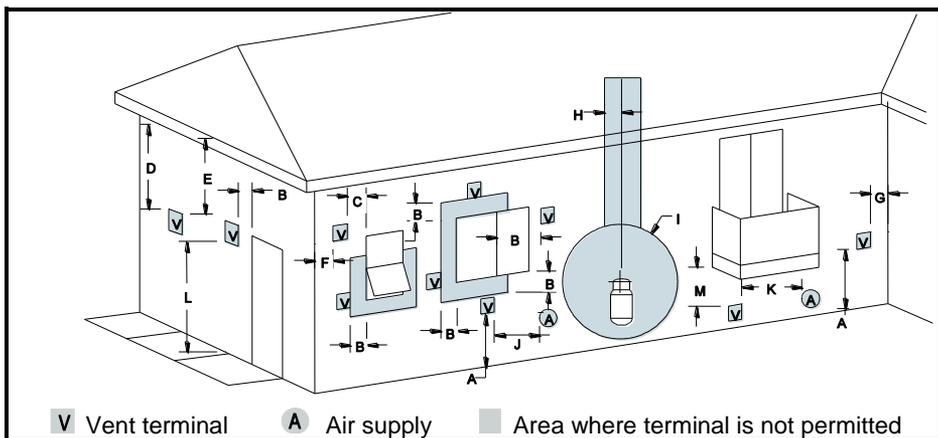
KEEP YOUR VENT CLEAN. When using a biomass fuel-burning appliance, we recommend that you:

1. Initially inspect the vent system weekly. From this you will learn if your appliance needs fine tuning.
2. THE VENT SHOULD BE INSPECTED AT LEAST ONCE EVERY TWO MONTHS DURING THE HEATING SEASON to determine if ash or soot has built up. When a maximum of 1/4" thickness of build-up has accumulated, it should be removed to reduce the risk of a chimney fire.
3. Have your vent cleaned by a qualified chimney sweep. If you want to clean your vent yourself, use a properly fitting brush. Do not use a brush that will scratch the stainless steel interior of the vent. Use of an oversize brush may damage the vent.

INSTALLATION NOTES

1. When assembling components, there is no need to apply silicone caulking at the joints. The factory installed gasket on the flue will make a sealed connection. The only exception is the stove adapter which must be sealed in place with high temperature silicone.
2. Verify that the silicone gasket provided is properly installed in its groove before attempting to assemble the parts. When installed properly, only the lip of the gasket should protrude out of the groove. In the rare event that the gasket has been removed and needs to be re-inserted, ensure that the gasket and the groove are both clean and dry prior inserting the gasket.
3. Apply a small amount of lubricant such as liquid dish soap or silicone grease (or an equivalent, e.g. windex) on the lip of each gasket to make the lengths easier to assemble. Excessive lubricant can get between the gasket and the part itself, causing it to slip out during installation. Do not use a petroleum-based lubricant. Align the lengths and push firmly. Use the screws provided to secure the lengths together.
4. The EXCELPellet interior flue is made of Stainless Steel and is suitable for appliances that burn agricultural products which can be much more corrosive than standard wood pellets.
5. Choose an appliance that has the label of a recognized Testing Laboratory (such as WH, UL, ULC, CSA and OMNI).
6. Install the biomass fuel-burning appliance as described in the Installation Instructions accompanying the appliance. **BE CERTAIN TO MAINTAIN THE REQUIRED CLEARANCES TO COMBUSTIBLES.**
7. The maximum height of un-guyed vent above the roof is 5 feet. If you have more than 5 feet use the EXCEL Chimney Roof Brace (XM-ERB).
8. Portions of the vent which extend through accessible spaces shall be enclosed in all cases to avoid personal contact with the vent and damage to the vent.
9. **DO NOT FILL THE AIR SPACE** around the vent with insulation or any other material. Do not fill the factory built supports with insulation. Insulation placed in this area could cause adjacent combustibles to overheat.

10. Do not allow sawdust or construction debris to accumulate around the vent. Clean all areas surrounding the vent before closing up any enclosed areas.
11. In attics, it is important to extend the Ceiling Support / Radiation Shield (PSA with PSC) to the maximum height possible. This will prevent any contact between the insulation and the vent when loose fill insulation such as cellulose is used. This will also prevent contact with insulation added in the future.
12. The vent cap of a vertical installation through the roof must extend at least 12 inches above the roof line.
13. The following does not apply to installations in single and two-family dwellings:
Factory built vents which extend through any story above that on which the connected appliance is located are to be provided with enclosures having a fire resistance rating equal to or greater than that of the floor or roof assemblies through which they pass.
14. Rules for termination cap:



- A. The clearance above grade is 18" minimum.
- B. The clearance to a window or door that may be opened is 48" to the side, 48" below the window/door, and 12" above the window/door. See note 1.
- C. 12" clearance to a permanently closed window is recommended to prevent condensation on the window.
- D. The vertical clearance to a ventilated soffit that is above the termination and within 2 feet horizontally of the center-line of the termination is 18".
- E. The clearance to an unventilated soffit is 12".
- F. The clearance to an outside corner is 12" from center of pipe.
- G. The clearance to an inside corner is 12".
- H. A vent must not be installed within a 3 foot wide space above a gas meter/regulator assembly when measured from the horizontal center-line of the regulator. See note 1.
- I. The clearance to service regulator vent outlet is a minimum of 6 feet. See note 1.
- J. The clearance to a non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance is 48". See note 1.

- K. The clearance to a mechanical air supply inlet is 10 feet minimum. See note 1.
- L. The clearance above a paved sidewalk or a paved driveway located on public property is a minimum of 7 feet. A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings. See note 1.
- M. The clearance under a veranda, porch, deck or balcony is 12". This is only permitted if the veranda, porch, deck, or balcony is fully open on at least 2 sides beneath the floor. See note 1.

NOTE 1: *Certain local codes or regulations may require different clearances.*

PLANNING YOUR INSTALLATION

GENERAL

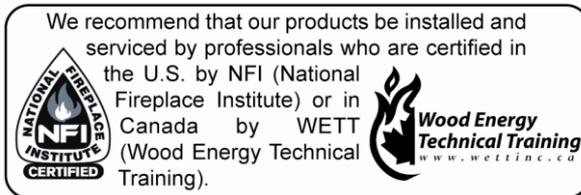
Prior to starting your installation, we suggest you take the following into consideration:

1. Contact your local building authority and/or fire officials for permits, restrictions and installation inspections. You may also wish to contact your home insurance representative.
2. Review all your options for the appliance location and venting configuration. Try to minimize the alteration and reframing of structural components of the building (wall studs, water pipes, electrical wiring, ceiling joists, roof rafters, etc.). It may be easier to change the location of your appliance than to modify the building structure.
3. Carefully read the appliance and the venting system instruction manuals. Good planning might save you time, work and money.
4. Use only authorized EXCELPellet listed components. Do not use damaged parts.

TOOL CHECKLIST

Tools and equipment you may need for your installation.

- | | | | | |
|------------------|----------------|----------------|---------------|-----------------------------|
| - Eye protection | - Nails | - Drill | - Hammer | - Level |
| - Gloves | - Stud sensor | - Drill bits | - Pliers | - Caulking gun |
| - Tape measure | - Square | - Screwdrivers | - Ladder | - Plumb Bob |
| - Extension cord | - Circular saw | - Screws | - Keyhole saw | - Hi temp. silicone sealant |
| - Marking pencil | - Hand saw | | | |



RULES OF SAFETY

1. Wear gloves when handling metal parts with sharp edges.
2. Wear safety glasses.
3. Electrical tools must be grounded.
4. If a ladder is required, it must be in good condition, installed on a firm surface, and levelled.

- When cutting a wall, floor or ceiling, be careful not to damage wiring, gas or water pipes. If these elements need to be relocated, it should be done by a qualified person.

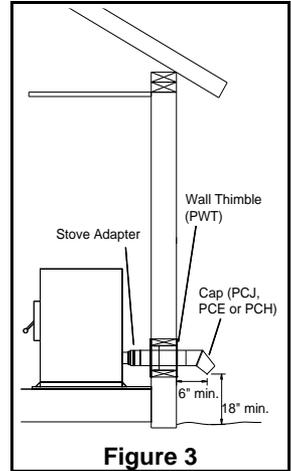
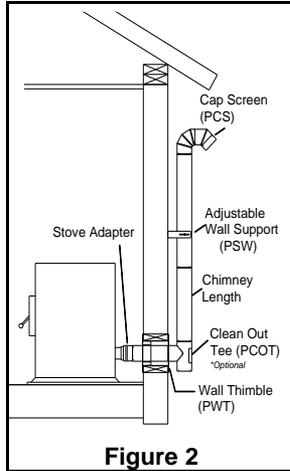
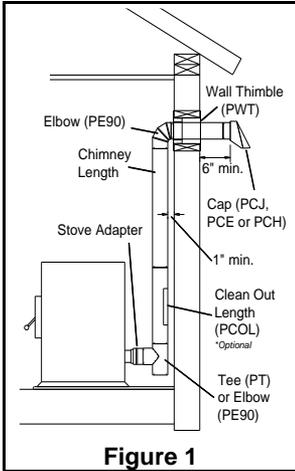
INSTALLATION INSTRUCTIONS

Typical installations are shown in these instructions. The clearance between the vent and combustible material must never be less than 1".

DO NOT FILL THIS AREA WITH INSULATION.

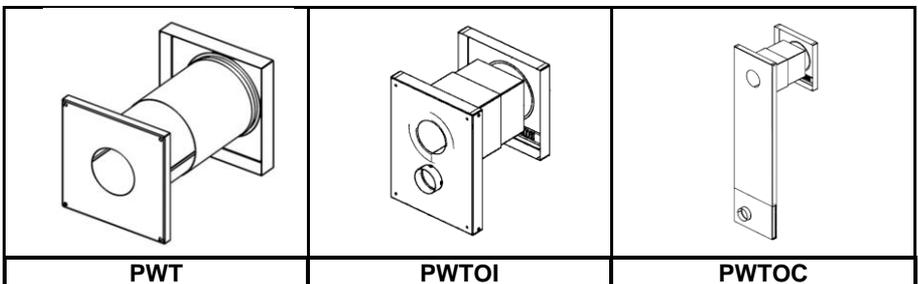
THROUGH-THE-WALL INSTALLATIONS

Figures 1 and 2 are considered preferred installations because they provide natural draft in the event of a power failure. Figure 3 is also an acceptable horizontal installation.



- Determine a location for the vent that is as near as possible to the appliance outlet. Cut and frame a hole in the wall where the vent will pass. Refer to the installation notes on page 4 to make sure the vent termination respects the guidelines for vent termination location. Refer to the technical specifications on page 2 to determine the rough opening required for the wall thimble selected.

There are three options for wall thimbles. The Insulated Wall Thimble (PWT) is the most common. The Insulated Wall Thimble With Outside Air (PWTIOI) incorporates an intake for outside air into the design of the thimble which is required by some appliance manufacturers. The Insulated Wall Thimble With Outside Air Channel (PWTIOC) also incorporates outside air into the design, but includes an adjustable channel which is ideal for hiding the outside air duct in basement installations.



- From inside, install the interior portion of the wall thimble (black square plate with insulation) into the framed opening. Screw the thimble in place with four #8 x 1 1/2" wood screws.
- From outside, if the insulation sticks out more than 2" past the outside wall, trim it flush with the wall. Slide the exterior portion of the wall thimble (the unpainted galvalume square plate) over the insulation and screw it to the wall with four #8 x 1 1/2" wood screws. Seal the joint between the plate and the wall with silicone caulking. Bend the small tabs on the wall thimble plate outwards. Fasten the tabs to the chimney length passing through the wall thimble with two #6 x 1/4" screws provided.

NOTE: It is permitted to have a joint between two chimney lengths located inside the Insulated Wall Thimble (PWT). For walls thicker than 10 1/2", use the Insulated Wall Thimble Extension (PWTE), which can accommodate walls up to 20 3/4" thick.

- At the stove, observe how the Stove Adapter (PAS) fits the appliance flue outlet. Apply high temperature caulking on the appliance flue collar or on the stove adapter to achieve an airtight seal. Fasten the stove adapter to the appliance flue collar using two #8 sheet metal screws. You may need to drill 1/8" diameter holes in the appliance flue collar if it is made of thick steel.

NOTE: Any EXCELPellet Stove Adapter component (3PASH, 3PAT4, 3PAT3 or 3PI4) may be used as an alternative to the PAS.

- Fasten the first length, tee or elbow to the Universal Stove Adapter using three #6 x 1/4" sheet metal screws provided. Refer to the Installation Notes on page 3 for tips.

NOTE: If the venting passes directly through the outside wall as shown as Figure 2, it is advised to install a Clean-Out Tee (PCOT) rather than a regular Tee (PT). The PCOT has an access panel to allow for horizontal cleaning through the back of the tee.

- Fasten additional lengths and components as necessary. Refer to Figures 1, 2 or 3 for typical installations.

- If you are going up the outside wall (Figure 2), a Wall Support (PWS) is required. Pre-assemble the support as shown on Figure 4. The collar is adjustable for either 3" or 4" pellet vent. Install the wall support on the vent and tighten the band locking bolt just enough to hold the wall support in place.

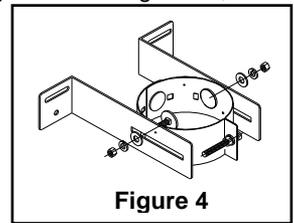


Figure 4

- Fasten the wall support brackets to the outside wall in a convenient location. First, drive two #8 x 1 1/2" or larger screws into the slotted holes. When you are certain of the brackets location, use two #8 x 1 1/2" or larger screws in the round holes to firmly attach the brackets in place. The wall support brackets are slotted where they contact the collar to allow for adjustment in wall clearance. Adjust the brackets so that the vent is at least 1" from the wall and parallel with it. Tighten the wall support collar around the vent and then secure it by fastening two #6 x 1/4" screws through the pre-punched holes in the collar.
- Install additional wall supports as required at maximum intervals specified on page 2. The wall support should be adjusted to ensure the vent is vertical and spaced 1" (or more) from combustibles.
- All horizontal terminations should face downwards. If your venting is vertical, first install a 90° elbow, then your choice of cap: Adjustable Jet Cap (PCJ), Horizontal Cap (PCH), Economy Cap (PCE) or simply a 45° elbow (PE45) facing down with a Spark Screen (PCS).

OPTIONAL: If the pellet vent system is in a tight space (Figure 1), it is beneficial to install a Clean Out Length (PCOL) or Clean Out Elbow (PCOE). Clean out parts have access doors drastically simplify the cleaning process.

VERTICAL INSTALLATION

Figures 5, 6 and 7 are typical installations with a vertical termination cap.

For installations similar to Figure 7, follow the instructions for a “Through the Wall” installation up to Step 9 and then continue from Step 11 below.

Determine the right support for you: The Ceiling Support/Firestop can be used in a standard ceiling that does not pass into an insulated attic. The Ceiling Support/Radiation Shield (PSA) is required when passing into an attic. The Square Support (PSS) is best suited for cathedral ceilings, but can be used in any situation.

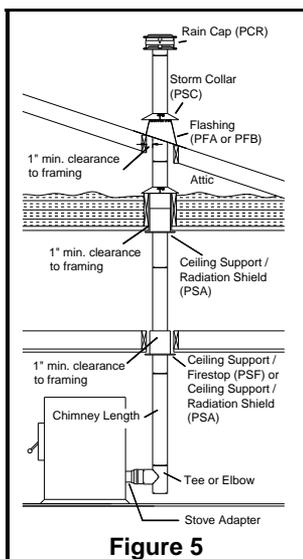


Figure 5

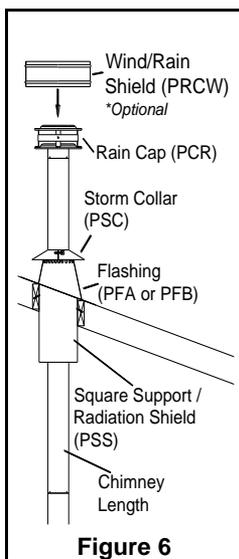


Figure 6

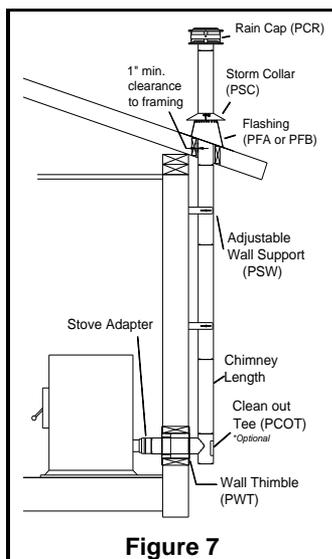


Figure 7

1. Determine a location for the vent that is as near as possible to the appliance flue collar. Using a plumb bob, determine where the venting will pass. Cut a hole in the ceiling and roof for the venting and frame the openings for supports. Refer to the technical specifications on page 2 to determine the rough opening required for the support model you are installing.
2. If Installing the Ceiling Support/Radiation Shield (PSA)): from below, screw the base plate to the framing through the holes provided with four #8 x 1 1/2" wood screws.

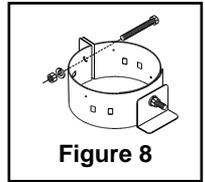
If installing the Square Support (PSS), like Figure 6, the support must project at least 1/4" below the ceiling once installed. From below, push the support into the framed hole and screw the support to the framing with four #8 x 1 1/2" wood screws. Alternatively, if space is limited, angle brackets are provided with the support which can be screwed to the outside of the support box and then screwed to the surrounding framing. Install the finishing trim around the support box with the screws provided.

3. At the stove, observe how the Stove Adapter (PAS) fits the appliance flue outlet. Apply high temperature caulking on the appliance flue collar or on the stove adapter to

achieve an airtight seal. Fasten the stove adapter to the appliance flue collar using two #8 sheet metal screws. You may need to drill 1/8" diameter holes in the appliance outlet if it is made of thick steel.

NOTE: Any EXCELPellet Stove Adapter component (3PASH, 3PAT4, 3PAT3 or 3PI4) may be used as an alternative to the PAS.

4. Fasten the first length, tee or elbow to the Universal Stove Adapter using three #6 x 1/4" sheet metal screws provided. Refer to Installation Notes on page 3 for tips.
5. Continue adding lengths until the venting is approximately 6" to 12" below the ceiling support before proceeding to the next step
6. Measure the distance between the bottom of the support and the top of the length and add 1 3/4" to include the overlap. On a new length, make a mark at this measurement from the bottom of the length (using a slip length will make this easier).
7. Pre-assemble the support collar (for a 3" or 4" chimney) as shown in Figure 8. Install the collar on the recently marked length of chimney and tighten the band so that the bottom is flush with the previously made mark. Fasten the collar permanently to the length with two #6 x 1/4" screws provided. Install the length in the support and connect it to the length below with the screws provided.
8. Proceed the same way if you have to pass through other floors.



NOTE: A firestop is required at each floor, installed from below.

9. IF THE VENT IS NOT ENCLOSED IN THE ATTIC (Figure 5): install a Ceiling Support/Radiation Shield (PSA) and a Storm Collar (PSC). The Storm Collar (PSC) is used to cover the opening in the top of the shield in order to prevent loose fill insulation from contacting the pellet vent.
10. Continue adding chimney lengths and components until the required chimney height is reached. The vent cap should extend at least 12" above the roof line.
11. Install the Roof Flashing (PF, PFA or PFB for standard roofs or use a 6" EXCEL Metal Roof Flashing in combination with the MFA or MFB Metal Roof Flashing Adapters for EXCELPellet): seal the joint between the roof and the flashing with roofing tar or silicone. For sloped roofs, place the flashing under the upper shingles and on top of the lower shingles - approximately half of the flashing should be under the shingles. Secure the flashing to the roof using roofing nails or roofing screws. Place a bead of silicone on the pellet vent slightly above where the storm collar will be installed. Assemble the storm collar on the chimney above the silicone and pull it downwards through the silicone. Place another bead of silicone on the top side of the storm collar to ensure a watertight seal. Tighten the collar in place.
12. Fit the Vertical Rain Cap (PCR) to the top of the pellet vent. Fasten it with the three #6 x 1/4" screws provided. As an option, the Wind/Rain Shield (PRCW) may also be added to give extra protection against wind driven rain.

INSTALLATION INTO A MASONRY CHIMNEY

Figures 9, 10, 12, and 13 show typical installation configurations with an existing masonry chimney or masonry fireplace. Regulations are different in Canada and USA for this application. Check with the authority having jurisdiction in your area. These types of installation provide reliable venting for normal operation and natural draft in case of power

failure.

CANADA AND USA

In Canada and some places in USA, it is required that the masonry chimney be relined from the appliance to the top of the chimney with a listed rigid or flexible liner.

INSTALLATION INTO THE SIDE OF A MASONRY CHIMNEY

1. Have the masonry chimney inspected by a qualified chimney installer or chimney sweep to verify its structural condition.
2. Read the appliance instruction manual thoroughly.

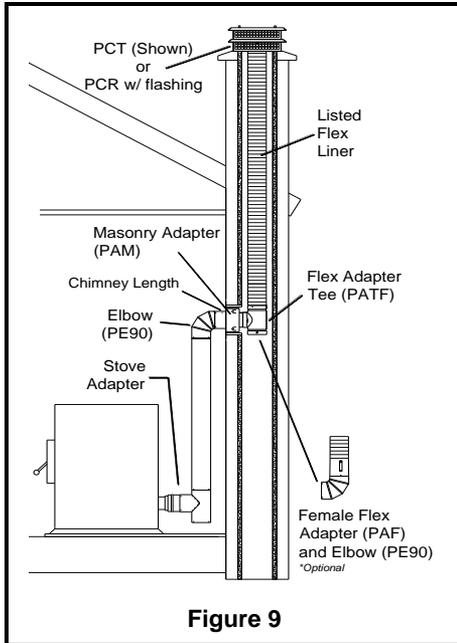


Figure 9

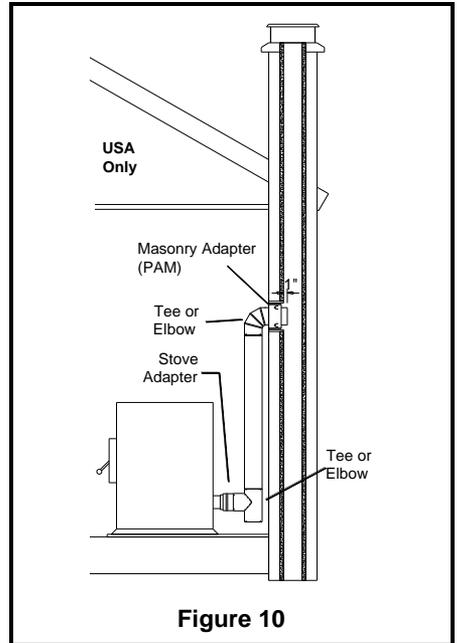


Figure 10

If your installation resembles Figure 10 (no chimney liner), proceed to step 6.

3. Measure and record the height from the top of the masonry chimney to the opening into the room. Add 12 inches to ensure the termination is above the roof line. Any listed rigid or flex liner can be used (CAN/ULC-S635 or UL 1777).
4. Cut the liner to length and connect the Flex Adapter Tee (PATF) to the bottom using the tabs built into the tee. Remove the snout (horizontal part) of the Flex Adapter Tee by rotating it counter clockwise. If the Flex Adapter Tee is unavailable, using a Flex Adapter (PAF) and a 90° Elbow (PE90) is acceptable.
5. Install the masonry liner as described in the instruction manual supplied with the liner system. Once the liner is installed in the masonry chimney, position the Flex Adapter Tee so that the opening faces into the room.

Reinstall the snout of the tee by inserting it and twisting clockwise to lock it in place.

6. Install the Masonry Adapter (PAM). Bend the tabs outwards and press the Masonry Adapter firmly into the existing thimble into the masonry chimney (Figure 11). The tabs will secure it in place.
7. At the pellet stove, observe how the Stove Adapter (PAS) fits the appliance flue outlet. Apply high temperature caulking on the appliance flue collar or on the stove adapter to achieve an airtight seal. Fasten the stove adapter to the appliance flue collar using two #8 sheet metal screws. You may need to drill 1/8" diameter holes in the appliance outlet if it is made of thick steel.

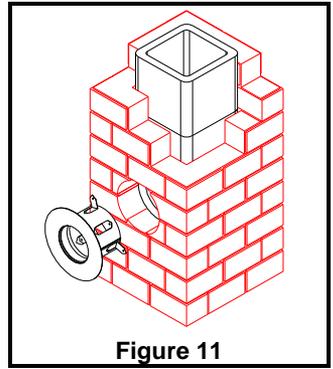


Figure 11

NOTE: Any EXCELPellet Stove Adapter component (3PASH, 3PAT4, 3PAT3 or 3PI4) may be used as an alternative to the Universal Stove Adapter (PAS).

8. Assemble the necessary components to reach the opening to the masonry chimney, use a slip length if necessary. Refer to the Installation Notes on page 3 for tips.
9. Insert a length of pellet vent into the opening of the masonry adapter. The length should pass all the way through the adapter and extend into the flue of the masonry chimney. If relining the chimney, it should extend long enough to connect to the Flex Adapter Tee or elbow. If not relining the chimney, it should extend 1" beyond the clay flue tile. Secure the length in place by screwing into the tabs on the masonry adapter.
10. Connect the length of pellet vent protruding from the masonry adapter to the lengths coming from the stove.
11. A cap must be present at the top of the masonry chimney to keep out rain. If relining the chimney, you can install the Coaxial Termination (PCT) for a traditional masonry look (Figure 14) or use the cap from the flex liner manufacturer. If you are not relining the chimney, the existing cap should be adequate if it is in good condition.

INSTALLATION INTO A MASONRY FIREPLACE

1. Have the masonry chimney inspected by a qualified chimney installer or chimney sweep to verify its structural condition.
2. Read the appliance instruction manual thoroughly.

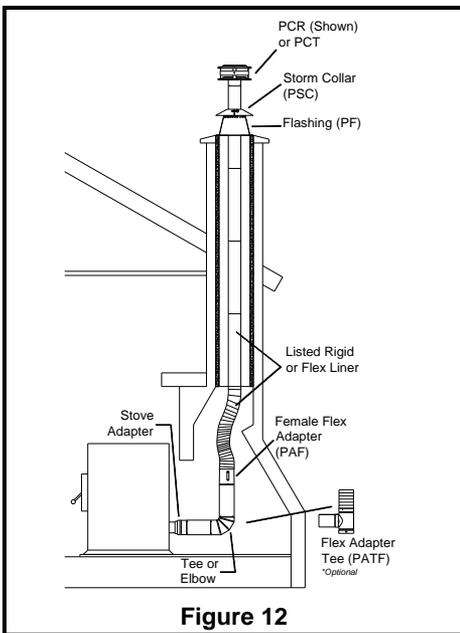


Figure 12

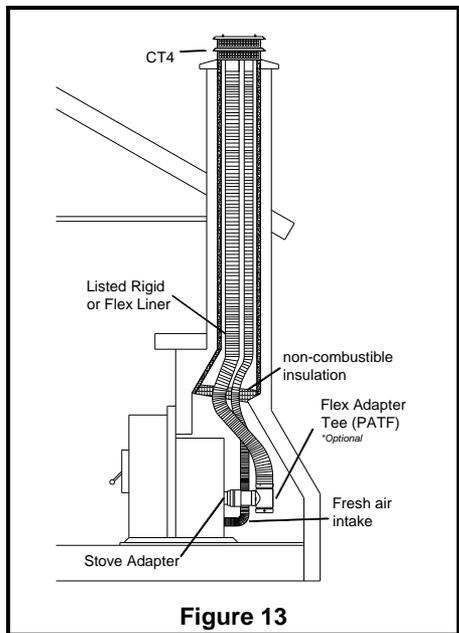


Figure 13

3. To prevent air penetration into the home, install a custom metal plate to block the area around the flexible liner that will be installed. Non-combustible insulation can also be used to fill in gaps around the liner.
4. Measure and record the height from the top of the masonry chimney to the stove or insert. Add 12 inches to ensure the termination is above the roof line. Any listed rigid or flex liner can be used (CAN/ULC-S635 or UL 1777).

If not fully relining the masonry chimney, a short length of liner must extend at least 18" above the air barrier described in Step 3.

OPTIONAL: If the appliance requires a fresh air intake, it can be taken from the top of the masonry chimney (Figure 13). This installation requires the Traditional Co-linear Termination (CT4). Simply install a second liner in the appropriate diameter for the air intake and connect it to the intake portion of the CT4.

5. Cut the liner to the length and install it in the masonry chimney as described in the instruction manual supplied with the liner system.

If a traditional style cap is desired, the Traditional Coaxial Chimney Cap (PCT) is available (Figure 14). A flashing must be ordered separately (CTF or CTFC). Connect the liner to the extension on the base of the traditional style cap. The flashing can be modified to fit the chimney top or flue tile. Secure the flashing and cap in place.

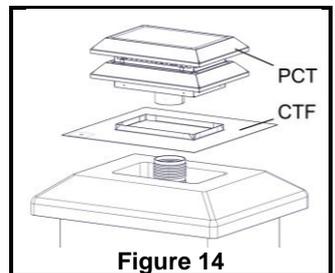


Figure 14

6. At the pellet stove or insert, if a Stove Adapter (PAS) is required, observe how it fits the appliance flue outlet. Apply high temperature caulking on the appliance flue collar or on the stove adapter to achieve an airtight seal. Fasten the stove adapter to the appliance flue collar using two #8 sheet metal screws. You may need to drill 1/8" diameter holes in the appliance outlet if it is made of thick steel.

NOTE: Any EXCELPellet Stove Adapter component (3PASH, 3PAT4, 3PAT3 or 3PI4) may be used as an alternative to the Universal Stove Adapter (PAS).

7. Connect the liner to the Flex Adapter Tee (PATF) at the bottom of the system. If one is unavailable, simply use a Flex Adapter (PAF) and a 90° elbow or tee.
8. Using the required lengths, attach the stove to the flex adapter tee or elbow.

EXCELPellet CONNECTED TO TYPE A CHIMNEY

Two options exist for connecting to a type A chimney. The Type A Chimney Reline Adapter (PAX) permits re-lining of the chimney with EXCELPellet or an approved flex liner and connects to the Chimney Adapter Cap (PCA) at the top. The more basic, Type A Chimney Adapter (PAA) connects to the base of the chimney and relies on chimney draft to vent products of combustion.

Relining the type A chimney is optional. However, appliances always function better when the chimney is relined. Also, relining prevents dust buildup within the chimney, making it easier to clean. We recommend using the PAX to fully reline the system.

Figure 15 shows an installation of the Chimney Reline Adapter (PAX).

Figure 16 shows the connection using the Chimney Adapter (PAA).

NOTE: Burning agricultural products in a biomass appliance may void the warranty of some brands of type A chimney.

1. Remove the existing connector pipe (black smoke pipe), leaving the type A chimney and stove pipe adapter in place. If a stove pipe adapter is not present, it is necessary to install one from the type A chimney manufacturer.
2. The interior of the existing chimney needs to be completely cleaned of soot and creosote. It should also be inspected by a qualified technician (such as a certified sweep) for structural integrity.
3. Determine the inner diameter of your Type A chimney and use the correct diameter of chimney adapter for your application. The adapter should fit on the outside of the type A chimney's stove pipe adapter. Secure it in place with the three #8 x 1/2" screws provided.
4. At the stove, observe how the Stove Adapter fits the appliance flue outlet. Apply high temperature caulking on the appliance flue collar or on the stove adapter to achieve an airtight seal. Fasten the stove adapter to the appliance flue collar using two #8 sheet metal screws. You may need to drill 1/8" diameter holes in the stove outlet if it is made of thick steel.

NOTE: Any EXCELPellet Stove Adapter component (3PASH, 3PAT4, 3PAT3 or 3PI4) may be used as an alternative to the PAS.

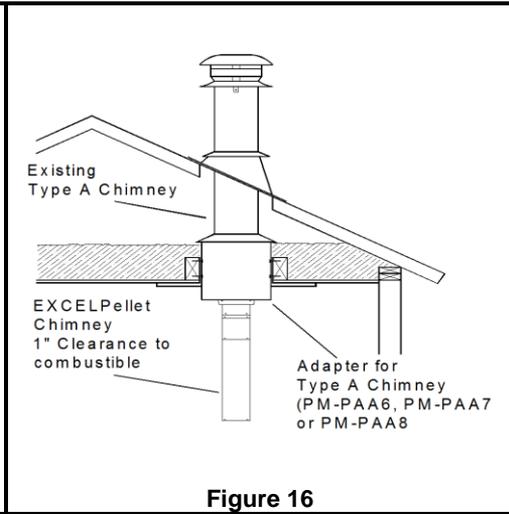
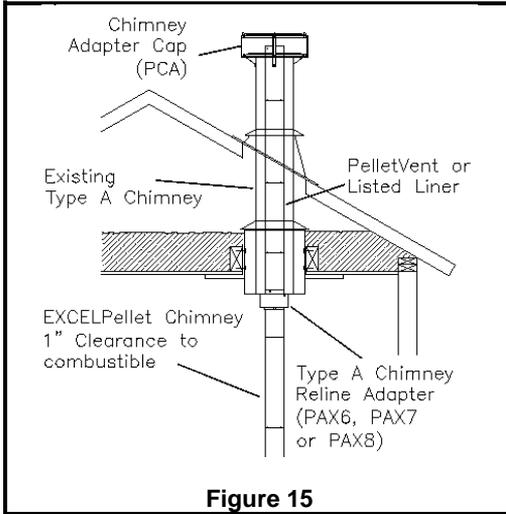
Installation of Reline Adapter (PAX) for PAA installation skip to step 8

5. If relining with flex, install a Female Flex Adapter (PAF) on the top length and connect the flex to the adapter before proceeding.
6. Install enough lengths of EXCELPellet to pass through the adapter and into the type A chimney. If relining with EXCELPellet, continue assembling lengths of pellet vent from below and push them up through the chimney.

- At the top of the chimney, install the Chimney Adapter Cap (PCA). The Chimney Adapter Cap is designed to connect directly to the flex liner or pellet vent and will fit any style or size of type A chimney.

Installation of Type A Adapter (PAA)

- Install the required lengths of EXCELPellet to connect to the Type A Adapter connected to the chimney. A slip length is recommended at the adapter to achieve a perfect fit. Screw the length to the adapter with the screws provided.
-



OFFSET TABLES

All measures are in inches

USE THIS TABLE IF YOU ARE NOT INSTALLING AN ADJUSTABLE LENGTH BETWEEN THE ELBOWS		
LENGTH BETWEEN OFFSETS	45° ELBOWS	
	RISE	OFFSET
3" INCH		
NO LENGTH	7	2 3/4
6" LENGTH	9 3/4	5 3/4
12" LENGTH	14	10
24" LENGTH	23 1/4	19 1/4
36" LENGTH	31	27
48" LENGTH	39 1/2	35 1/2
48"+6" LENGTH	42 1/2	38 1/2
48"+12" LENGTH	46 3/4	42 3/4
48"+24" LENGTH	55 3/4	51 3/4
48"+36" LENGTH	63 3/4	59 1/2
48"+48" LENGTH	72	68
48"+48"+12" LENGTH	79 1/4	75 1/4
48"+48"+24" LENGTH	88 1/2	84 1/2
4" INCH		
NO LENGTH	7 1/4	3
6" LENGTH	10	6
12" LENGTH	14 1/4	10 1/4
24" LENGTH	23 1/2	19 1/4
36" LENGTH	31 1/4	27
48" LENGTH	39 3/4	35 1/2
48"+6" LENGTH	42 3/4	38 1/2
48"+12" LENGTH	47	42 3/4
48"+24" LENGTH	56 1/4	52
48"+36" LENGTH	64	59 3/4
48"+48" LENGTH	72 1/2	68 1/4
48"+48"+12" LENGTH	79 1/2	75 1/4
48"+48"+24" LENGTH	88 3/4	84 1/2

USE THIS TABLE IF YOU ARE INSTALLING A 16" ADJUSTABLE LENGTH BETWEEN THE ELBOW		
LENGTH BETWEEN OFFSETS	45° ELBOWS	
	RISE	OFFSET
3" INCH		
6" LENGTH *	13 1/2 - 21 1/2	9 1/2 - 17 1/2
12" LENGTH	15 1/2 - 23 1/2	11 1/2 - 19 1/2
12"+6" LENGTH *	18 1/2 - 26 1/4	14 1/4 - 22 1/4
24" LENGTH	24 3/4 - 32 1/2	20 1/2 - 28 1/2
36" LENGTH	32 1/2 - 40 1/2	28 1/2 - 36 1/4
48" LENGTH	41 - 48 3/4	37 - 44 3/4
48"+6" LENGTH	43 3/4 - 51 3/4	39 3/4 - 47 3/4
48"+12" LENGTH	48 - 56	44 - 52
48"+24" LENGTH	57 1/4 - 65 1/4	53 1/4 - 61 1/4
48"+36" LENGTH	65 - 73	61 - 69
48"+48" LENGTH	41 - 48 3/4	69 1/2 - 77 1/2
48"+48"+12" LENGTH	80 3/4 - 88 3/4	76 3/4 - 84 1/2
48"+48"+24" LENGTH	90 - 97 3/4	85 3/4 - 93 3/4
4" INCH		
6" LENGTH *	13 3/4 - 21 3/4	9 1/2 - 17 1/2
12" LENGTH	15 3/4 - 23 3/4	11 1/2 - 19 1/2
12"+6" LENGTH *	18 3/4 - 26 3/4	14 1/2 - 22 1/2
24" LENGTH	25 - 33	20 3/4 - 28 3/4
36" LENGTH	32 3/4 - 40 3/4	28 1/2 - 36 1/2
48" LENGTH	41 1/4 - 49 1/4	37 - 45
48"+6" LENGTH	44 1/4 - 52	40 - 48
48"+12" LENGTH	48 1/2 - 56 1/4	44 1/4 - 52
48"+24" LENGTH	57 1/2 - 65 1/2	53 1/4 - 61 1/4
48"+36" LENGTH	65 1/4 - 73 1/4	61 1/4 - 69
48"+48" LENGTH	73 3/4 - 81 3/4	69 1/2 - 77 1/2
48"+48"+12" LENGTH	81 - 89	76 3/4 - 84 3/4
48"+48"+24" LENGTH	90 1/4 - 98 1/4	86 - 94

* USE A 6" ADJUSTABLE LENGTH INSTEAD OF THE 16" ADJUSTABLE LENGTH

LIMITED LIFETIME WARRANTY ICC EXCELPellet CHIMNEY

ICC warrants its EXCELPellet chimney components to be free from functional failure due to defects in material or workmanship for as long as the original consumer owns the chimney system. This warranty provides for replacement of any chimney components, including the gasket which fails as a result of normal use on a residential appliance. This warranty does not cover smoke damage or damage caused to the building by chimney fires or misuse of the product.

No claims under this warranty will be honored unless ICC is notified of the potential claim and is given the opportunity to have one of its agents examine the chimney prior to replacement.

ICC will only be responsible for repair or replacement of any chimney found to be defective under this warranty. In no event shall ICC be responsible for any incidental or consequential damage caused by defects in the EXCELPellet chimney system.

During the first five years of the warranty ICC will provide replacement chimney lengths at no charge. During the balance of the warranty ICC will provide replacement chimney lengths at 50% of the current retail price at the time of the warranty claim. The silicone gasket has a lifetime full replacement warranty.

ICC will not be responsible for labor of any kind required in the removal or replacement of an EXCELPellet system replaced under this warranty.

This chimney is designed to vent residential automatic biomass fuel-burning appliances (wood pellet and agricultural products appliances), natural gas, propane and liquid fuel-burning appliances. It is designed to operate at a continuous temperature of 572°F (300°C) or less. EXCELPellet is not designed to vent condensing oil or gas appliances. This warranty is void if the chimney is used in an application for which it is not designed.

The EXCELPellet system must be installed according to the Installation Instructions included with every system at the time of purchase. If you do not have a set of installation instructions they are available free upon request. This warranty is void if the chimney is not installed according to the installation instructions.

This warranty may not be extended or modified by our agents or representatives. This warranty is in lieu of all other express warranties or guarantees, of any kind.

Notes