



## **A** AVERTISSEMENT

Chaud! Ne pas toucher! Les vitres et surfaces de cet appareil seront chaudes durant l'utilisation et le resteront après l'avoir éteint. Peut causer des brûlures sévères.



- Surveiller les enfants qui se trouvent dans la même pièce que l'appareil.
- S'il y a de jeunes enfants dans la maison, il est recommandé d'utiliser un écran pare-feu devant cet appareil.

# Manuel d'installation et d'utilisation

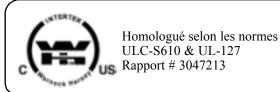
Ces instructions ont pour but de vous permettre d'effectuer une installation simple et sécuritaire du foyer et de la cheminée. S.V.P. lisez attentivement les informations contenues dans ce manuel avant de débuter l'installation de votre foyer.

Mise en garde: Toutes modifications au foyer ou à ses composantes peuvent entraîner des répercussions dangereuses, voire annuler l'homologation du foyer et sa garantie et dégager Cheminées Sécurité International Ltée de toutes responsabilités.

Respectez les instructions d'installation présentées dans ce manuel.

#### CONSERVEZ CES INSTRUCTIONS POUR RÉFÉRENCE FUTURE

<u>ATTENTION</u>: Le foyer ne peut fonctionner sans portes. Informez-vous auprès de votre détaillant pour connaître le modèle de portes approprié.







2125 rue Monterey, Laval, Québec, Canada, H7L 3T6

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## **25 YEAR LIMITED WARRANTY**

- Security Chimneys International Ltd. warrants to the owner of a Security Fireplace that the wood burning fireplace will be free
  from defects in material and workmanship, under normal use and service, for a period of twenty-five (25) years from the date of
  purchase. A proof of purchased date is required for claims to be processed. This warranty is conditional to the proper use,
  operation and maintenance of the fireplace. This 25-year warranty is limited to the residential use of the product only.
  - This warranty shall be void if the fireplace is not installed and operated in accordance with the installation instruction manual provided with the product and does not cover damage caused by misuse of the product.
- Security Chimneys International Ltd warrants the gold, nickel, brushed nickel plating on its doors and facades against material
  and manufacturing defects for the lifetime of the fireplace. This lifetime warranty contains limitations which are detailed below.
   Door and façade adjustments, as described in the installation manual, MUST be done at installation time
  otherwise this warranty is void.

#### **WARRANTY LIMITATIONS:**

- 1. During the first year of the limited warranty, Security Chimneys International Ltd. will provide replacement parts (as described in the document Details of the Limited 25 year Warranty) at no charge and will also pay for reasonable labour costs incurred for repair work. All repairs must be approved by an authorised company official before any work is done. Labour costs to be borne by Security Chimneys International Ltd. must not exceed the retail price of the parts replaced.
- 2. During the second through the fifth year of the limited warranty, Security Chimneys International Ltd. will provide replacement parts (as described in the document Details of the Limited 25 year Warranty) at no charge should they be found to be defective. Security Chimneys International Ltd. shall not be responsible for any labour costs.
- 2.1 During the second through the fifth year of the limited warranty, Security Chimneys International Ltd. will repair or replace at no charge, any plated door or façade that is found to be defective and will assume the necessary labour costs to replace this part.
- 3. During the sixth through the twenty-fifth year of the limited warranty, Security Chimneys International Ltd. will provide replacement parts (if available and as described in the document Details of the Limited 25 year Warranty) at 50% of the published List Price sheet. Security Chimneys International Ltd shall not be responsible for any labour costs.
- 3.1 After the sixth year of the limited warranty, Security Chimneys International Ltd. will repair or replace at no charge, any plated door or facade that is found to be defective and will not assume any labour costs to replace this part.
- 4. The following parts *are not covered* by any warranty: Brass accessories installed on the fireplace: trims, louvers, surround kits

This warranty may not be extended by our representatives in any manner whatsoever.

The warrantor makes no warranties express or implied, written or oral, other than those specifically stated in this 25 year limited warranty. The duration of any implied warranty including that of merchantability or fitness for any particular purpose shall be limited to 25 years from the date of purchase.

The remedy for damages as the result of any defect in this product that has been warranted herein is limited to the replacement of defective parts and does not include any incidental or consequential damages or expenses sustained in connection with the product, including damage to property.

<u>Security Chimneys International is not responsible for the inadequate performances of the fireplace caused by the environment such as trees, buildings, roofs, wind, hills, mountains near by, which may cause negative pressures inside the home or mechanical causes such furnaces, blowers or cloth dryers.</u>

#### The chimney is covered by a separate warranty.

NOTE: Dated proof of purchase is required for recognition of this warranty.

#### FOR UNITED STATES ONLY:

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

# Details Of The 25 Year Limited Fireplace Warranty

Year 1:

Parts and labour (no charge)

(see on page for exclusions and conditions)

Air control assembly

Plate, lever

Blower assembly

Blowers, wires, thermo disc

Ceramic glass

Glass (thermal breakage)

Catalytic combustor

Combustor (thermal degradation and disintegration),

retainer

Air register assembly

Plate, lever

Door assembly

Door, latch assembly, hinges, glass retainer, gaskets

Facade assembly

Facade, hardware

Fire box assembly

Fire box, tube supports, tubes, deflectors

Refractory

Refractory (thermal breakage)

Paint

Doors, louvers, fireplace facade

Accessories

Log retainers, fire screen

Years 2 to 5:

Parts (no charge)

(see on page for exclusions and conditions)

Air control assembly

Plate, lever

Catalytic combustor

Combustor (thermal degradation and disintegration),

retainei

Air register assembly

Plate, lever

Door assembly

Door, latch assembly, hinges, glass retainer, gaskets

Facade assembly

Facade, hardware

Fire box assembly

Fire box, tube supports, tubes, deflectors

**Years 6 to 25:** 

Parts at 50% of published list price

(see on page for exclusions and conditions)

Air control assembly

Plate, lever

Air register assembly

Plate, lever

Door assembly

Door, latch assembly, hinges, glass retainer, gaskets

Facade assembly

Facade, hardware

Fire box assembly

Fire box, tube supports, tubes, deflectors

**Exclusions:** Brass accessories installed on the fireplace: trims, louvers, surround kits.

#### Conditions:

- The 25-year warranty begins from the date of purchase of the fireplace and is valid as long as this fireplace remains installed in its original home. The fireplace must be installed, operated and maintained in accordance with the instructions described in the installation manual provided with it. Any alteration, modification, accident, neglect or abuse of the product will void this guarantee.
- A slight discoloration of painted parts, expansion, contraction or movement of certain parts, which cause light clicking noises, is normal and is not a manufacturing defect.
- Over firing of the fireplace (operation which causes metal parts to become red) can cause significant damage, create a fire hazard and voids the warranty.
- 4. Security Chimneys International is not responsible for the inadequate performances of the fireplace caused by the environment such as trees, buildings, roofs, wind, hills, mountains near by, which may cause negative pressures inside the home or mechanical causes such furnaces, blowers or cloth dryers.
- This warranty does not cover normal wear and tear like the discolouration or peeling of painted parts, worn or cut gaskets, chipped or cracked refractory.
- 6. Although your *BIS* fireplace is very efficient, it should not, in any case, replace the main heating system of the home in which it is installed. This fireplace is designed to supplement heat and comfort to the existing main heating system.

# TABLE OF CONTENTS

|             | TETY RULES  |       |
|-------------|---|-------|
| CEF         | RTIFICATION LABEL   | ••••• |
| THI         | E FIREPLACE   | ••••• |
| 3.1         | INTRODUCTION  |       |
|             | <ul><li>3.1.1 Parts Required</li><li>3.1.2 Additional Equipment (optional)</li></ul>  |       |
| 3.2         | OPERATING THE BIS TRADITION CE  |       |
|             | <ul> <li>3.2.1 Fuel</li> <li>3.2.2 First Fires</li> <li>3.2.3 Building a Fire</li> <li>3.2.4 Primary Air and Air Boost Controls</li> <li>3.2.5 Accelerated Combustion</li> <li>3.2.6 Medium Combustion</li> <li>3.2.7 Slow Combustion</li> <li>3.2.8 Refuelling For Best Performance</li> <li>3.2.9 Smoking – Causes And Troubleshooting</li> </ul>   |       |
| 3.3         | MAINTAINING YOUR BIS TRADITION CE   |       |
|             | <ul> <li>3.3.1 Creosote</li> <li>3.3.2 Chimney Maintenance</li> <li>3.3.3 Top Baffle Removal Prior to Cleaning The Chimney</li> <li>3.3.4 Dealing With a Chimney Fire</li> <li>3.3.5 Finish Door Casing Care</li> <li>3.3.6 Ashes</li> <li>3.3.7 Refractory Installation</li> <li>3.3.8 Door Installation</li> <li>3.3.9 Door Adjustment</li> <li>3.3.10 Glass Care – Replacement</li> <li>3.3.11 Glass Care – Cleaning</li> <li>3.3.12 Gasket Replacement</li> </ul> |       |
| 3.4         | FIREPLACE INSTALLATION  |       |
| 3.5         | HOT AIR DUCTING INSTALLATION  3.5.1 Gravity Kit  3.5.2 Central Forced Air Kit   |       |
| 3.6         | OUTSIDE AIR KIT   |       |
| тні         | E CHIMNEY   |       |
| 4.1         | CHIMNEY INSTALLATION NOTES  |       |
| 4.2         | CHIMNEY INSTALLATION INSTRUCTIONS   |       |
| 4.3         | OFFSET CHIMNEY INSTALLATION   |       |
| 4.4         | ANGLED WALL RADIATION SHIELD  |       |
| 4.5         | CHIMNEY SUPPORTS INSTALLATION   |       |
| 4.6         | MULTIPLE TERMINATIONS   |       |
| <b>4.</b> 7 | CHIMNEY ADAPTOR (S-2100+ / HT6000+)   |       |
| 4.8         | INSTALLATION INSTRUCTIONS FOR MASONRY APPLICATION   |       |
| PAF         | RTS AND COMPONENTS LIST   | ••••• |
| OPT         | TIONS   |       |
| APF         | PENDIX (Specifications, Clearances, Replacement Parts)  |       |

#### 1. SAFETY RULES FOR OPERATING YOUR FIREPLACE MODEL BIS TRADITION CE

- Use only a Security Fireplace glass door, specifically designed for the model BIS TRADITION CE fireplace.
- When cleaning the fireplace, the ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground outside the house, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

Warning:

The fireplace must be operated with the door fully opened or fully closed. If the door is left partly opened, smoke may be drawn into the room. If the unit is operated with the door fully opened, the optional firescreen must be used.

Never use gasoline, kerosene, charcoal lighter fluid or similar liquids to start **Caution:** 

or rekindle a fire in this fireplace. Keep all such liquids well away from the

fireplace at all times.

**Caution:** Keep combustible materials at least 48 inches away from the front of the

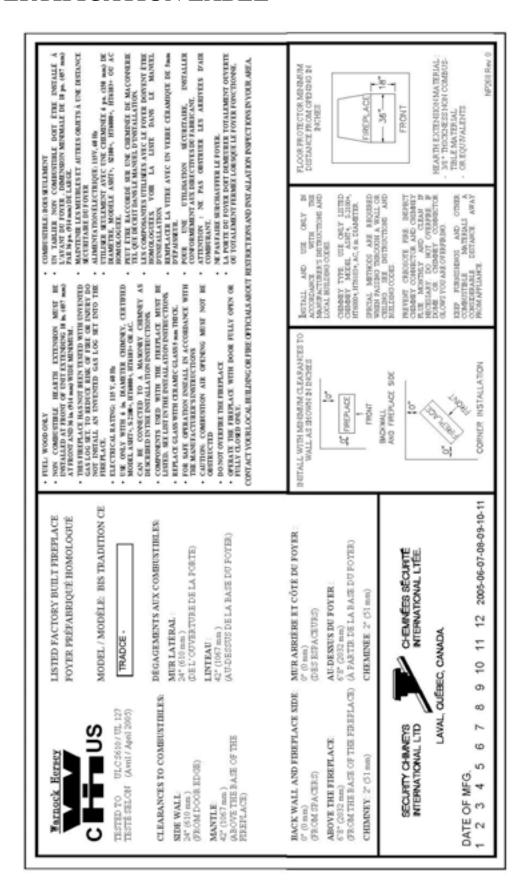
fireplace opening.

**Caution:** Never leave children unattended when there is a fire burning in the fireplace.

WARNING: THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED OR

VENTED GAS LOG SET. TO REDUCE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET INTO THIS FIREPLACE.

## 2. CERTIFICATION LABEL



## 3. THE FIREPLACE

#### 3.1 INTRODUCTION

The BIS TRADITION CE fireplace is an energy efficient, heat circulating, close combustion fireplace. You will receive a lifetime of comfort and enjoyment from your fireplace provided it is installed, maintained and operated properly.

- Please read these instructions and retain this manual for future reference.
- Before beginning the fireplace installation, consult the local authorities to obtain your building permit and check your local building codes. Install the fireplace only as described in these instructions and using only Security Chimneys International components.
- The BIS TRADITION CE is not intended for use with a gas log. Failure to follow these instructions will void the certification and the warranty of the fireplace and may result in an unsafe installation

## 3.1.1 Parts Required

- Fireplace model BIS TRADITION CE
- 6" diameter chimney model ASHT+, S-2100+, HT6000+, HT6103+ or AC manufactured by Security Chimneys International only, including:
  - Chimney lengths
  - Elbows (where necessary)
  - Associated components as per these installation instructions

## 3.1.2 Additional Equipment (optional)

- 5" flexible venting system (central forced air kit)
- Gravity venting system
- Rigid firescreen

#### 3.2 OPERATING THE BIS TRADITION CE

#### 3.2.1 Fuel

The BIS TRADITION CE is designed to work best when fuelled with seasoned cordwood. Hardwoods are preferred to softwoods since the energy content of wood is relative to its density. Hardwoods will result in a longer burning fire and less frequent refuelling. A moisture content of 15% to 20% (seasoned) is recommended. Wood that has been cut and split and let to dry under a cover for a period of one year will usually meet that criteria. Excessively wet wood will be difficult to burn and will result in lower efficiency, increased creosoting and deposits on the glass and in the chimney. Excessively dry wood will burn well but will also have higher emissions and shorter burning time.

Do not burn scrap or garbage, treated wood or wood such as driftwood from the ocean which has been exposed to salt or other chemicals. Salt or chemicals can corrode the firebox and chimney. Do not burn large amounts of paper, cardboard, Christmas tree branches or building construction materials. Intense firing with these materials may overheat the fireplace, causing damage to the unit, a fire or even possibly igniting a chimney fire if the chimney is creosoted.

#### 3.2.2 First Fires

Before using the fireplace make sure to remove the plastic wrapping on the door. Remove all remaining glue with mild soap.

The first 5 or 6 fires should be small fires of short duration (about 30 to 60 minutes). This will help cure the refractory bricks. The first fires may produce slight smoking due to drying of the paint and steel and any dust accumulated on the fireplace will burn off at this time. It may set off a smoke alarm located in the same room. For this reason the room should be well ventilated for the first few fires.

## 3.2.3 Building a Fire

To start a fire, place several crumpled up balls of newspaper in the firebox. Place small dry pieces of kindling on top of the paper, criss-crossing the kindling so that there are air spaces in between. Keep the fuel far back enough so that air can get underneath. Open the air controls fully and light the newspaper. Once the newspaper and the kindling is well ignited, close the door. Once the kindling fire is well established, cordwood can be added. (see Primary Air Combustion Control section for proper operation of the air controls)

The unit will burn best with 2-3 pieces of cordwood spaced 1 to 2 inches apart and <u>allowing</u> <u>air to get under the fuel</u>. Criss-crossing or arranging the fuel so that air can get underneath, will help the fire to get started easily. The unit should be operated with the air control fully open long enough to get the cordwood well ignited.

## 3.2.4 Primary Air and Air Boost Controls

There is no flue damper in the BIS TRADITION CE. As is common with air tight stoves, the combustion air control sets the flow of air entering the firebox. This allows for a more precise control of the fire. The combustion air control is located below the door on the left side. The main source of air (primary air) entering the firebox can be diminished by moving the air combustion control from left to right. The primary air is fully opened when the air control is completely moved to the left. The air control device can also be used to add an extra boost of air especially during fire start up and reloading of the unit. Pulling the air combustion control will induce an air boost at the base of the fire allowing an easier fire start up. When the fire is well established, the control can be pushed forward to shut down the air boost allowing for a longer burn time. The combustion air control should be in the closed position (primary air and air boost) when the fireplace is not in use. This will minimize air leakage up the chimney. The combustion air control should be opened before opening the door to minimize the possibility of back draft coming into the room.

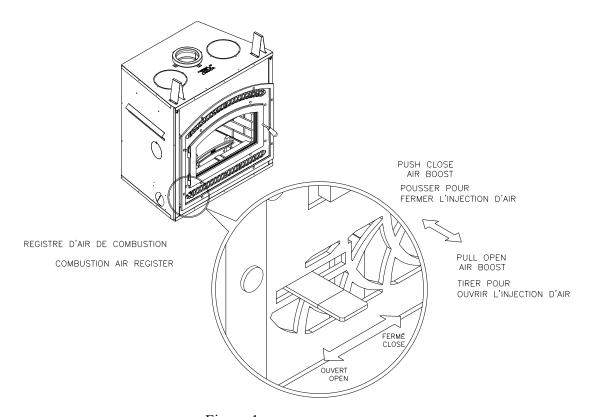


Figure 1

#### 3.2.5 Accelerated Combustion

The maximum heat output for the BIS TRADITION CE is achieved by burning with the door closed and the combustion air opened and pulled back. By this method, the BIS TRADITION CE can produce up to 55,000 BTU of heat per hour. However, it will be necessary to reload with wood every one or two hours. This is the least efficient method of burning the BIS TRADITION CE.

Use caution when firing with the combustion air control wide open. Only burn cordwood in this manner. Small dry pieces of softwood and construction scraps will burn very intensely using this method and may damage the firebox.

#### 3.2.6 Medium Combustion

This is the recommended mode of operating the BIS TRADITION CE and should be the one normally used since it will deposit the least amount of crossote on the glass and in the chimney. The combustion air control must be 3/4 closed and pushed forward to close the air boost. The precise setting will depend on many factors, including chimney length and the moisture content of the wood.

For instance, a long chimney will necessitate closing the damper more. To obtain the proper combustion, close the damper completely, then open it about 1/4" to 1/2". Three medium size pieces of wood should be burning on a bed of hot coals. The heat output will be approximately 30,000 BTU per hour and the loading time will be about every 3-4 hours. Softwoods may be burned using this method but the time will be substantially reduced.

#### 3.2.7 Slow Combustion

When the air combustion control is completely closed, the fireplace is in a slow combustion phase. If the hearth is hot enough, slow combustion will not stop the fire, but there will be a noticeable change in the flame pattern. The flames will be slow and may appear dirty if the wood is too wet (moisture content of 20% and more). Do not allow the wood to burn without flame, since this will produce excessive crossote in the unit.

Creosote may accumulate on the glass door. This method of burning should be used only after operating the BIS TRADITION CE with the air control opened to produce a hot fire for about an hour or at medium pace for at least 3 hres. Slow combustion can be used at night in order to reduce the heat output and to prolong the burn. The loading time will be between 6-8 hours.

## 3.2.8 Refuelling For Best Performance

The BIS fireplace will operate best if attention is given to operating the unit with the damper fully opened after refuelling in order to bring the firebox and the chimney system up to their optimum operating temperature. Combustion efficiency is relative to firebox temperature. A temperature of 500° C and up, with a visible flame, in the upper part of the firebox indicates a maximum efficiency. To obtain this temperature, the fireplace must be operated with the primary air and air boost controls fully opened during 10 to 20 minutes after reloading, depending on the heat and on the moisture content of the wood. Once you have reached the desired temperature, the air boost can be closed and the primary air set to a medium setting. You know you have reached the desired temperature when, closing the primary air control, you can see a flame at the top of the firebox. The benefit of this technique will be cleaner glass, less creosoting, greater efficiency and the most pleasing fire for your enjoyment. If your fireplace is equipped with a central forced air system, make sure the central blower is turned off during reloading to avoid smoking problems.

## 3.2.9 Smoking – Causes and Troubleshooting

To reduce the likelihood of smoking when opening the door, set the combustion air controls to the left before opening the door. Your fireplace has been designed and tested to provide smoke free operation. Occasionally, there may be a small amount of smoking upon lighting the fire, until the chimney heats up but this should not continue. If the fireplace continues to smoke it is probably for one of the following reasons:

#### A. Negative pressure in the house

As the fire burns, air goes up the chimney. This air must be replaced through leakage into the house or through the outside air duct. When operating the BIS TRADITION CE, open a nearby window temporarily to check if there is adequate air supply replacement.

#### B. Fans operating (e.g.: range hood)

These fans draw air out of the house and may actually cause a negative pressure in the house. Turn off all fans and open a nearby window to determine if this is the cause of the problem.

#### C. Wet wood

Wet or tarred wood will smoulder and smoke instead of burn properly.

#### D. Dirty or blocked chimney

Check to make sure the chimney is clear and clean.

#### E. Chimney not long enough

The minimum chimney height is 12 ft. not including the fireplace height. The chimney must extend at least 3 feet (915 mm) above its point of contact with the roof and at least 2 feet (610 mm) higher than any roof or wall within 10 feet (3 m) of it. When installed with offsets, the minimum chimney height is 15 ft. Additional height will increase draught and will decrease the tendency to smoke.

#### F. Poor chimney draft

With no fire, there should be sufficient draught to exhaust cigarette smoke introduced under the baffle. Chimneys installed against an outside wall without protection may generate back draught problems which will cause start-up problems. To prevent this, open a nearby window, roll up a piece of paper and light it. Then, hold it in the upper part of the firebox to warm up the chimney. Wait until the draught is sufficient, then start the fire.

#### G. Blower for central forced air kit operating

Make sure that the blower is at the "off" position when you open the fireplace door for reloading.

#### **IMPORTANT NOTES**

- A. Do not block the hot air vents to the fireplace as this will cause the fireplace to overheat.
- B. Never start a fire using gasoline, kerosene, charcoal lighter fluid or any other combustible liquid.
- C. Do not burn coal. The sulphur in coal will corrode the firebox.
- D. Do not burn driftwood which has been in the ocean or salt water. The salt will corrode the firebox and chimney.
- E. Do not burn wood in the area in front of the grate.
- F. Do not abuse the unit by burning paper, or cardboard or construction material such as pressed wood, plywood or lumber.
- G. Do not allow the wood to smoulder or burn without flame, since this will produce excessive creosote in the unit.

## 3.3 MAINTAINING YOUR BIS TRADITION CE

#### 3.3.1 Creosote

When wood is burned slowly without a flame, it produces tar and other organic vapors which combine with expelled moisture to form a black deposit called creosote which accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. If the creosote accumulation is large, a creosote fire in the chimney can damage the chimney and overheat the surrounding wood framing. Creosote formation in a chimney can be minimized by making sure there is always visible flame burning, avoid smouldering fires and by proper refuelling techniques.

## 3.3.2 Chimney Maintenance

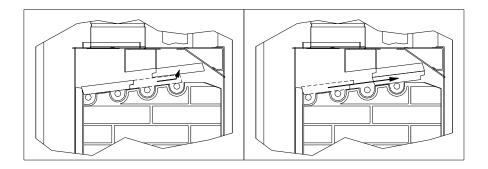
Regular chimney inspection and maintenance combined with proper operation will prevent chimney fires. Keep your chimney clean. Do not allow more than 1/16" creosote build up in your chimney. The amount of creosote will depend on variables such as frequency of use and type of fire. We recommend that you:

- A. Initially inspect the chimney system weekly. From this, you will learn how often it will be necessary to clean your chimney.
- B. Have your chimney cleaned by a qualified chimney sweep. If you wish to clean it yourself, we recommend using a stiff plastic or non-metallic brush. If a metal brush is used, its size should be slightly smaller than the flue to avoid damaging the chimney. Do not use a brush that will scratch the stainless steel interior of the chimney.
- C. Do not expect chemical cleaners to keep your chimney clean. The rain cap can be removed for inspection and/or cleaning of the chimney.

## 3.3.3 Top Baffle Removal Prior to Cleaning The Chimney

Before starting to clean your chimney, we recommend that you remove the top baffle to avoid creosote dust collection at the top of the baffle. Follow these steps to set the top baffle out of the way:

- 1. Remove the side refractory holder. They are located at the top of the refractory.
- 2 Lift the front baffle
- 3. Slide the back baffle under the front baffle. You now have access to the chimney.



## 3.3.4 Dealing With a Chimney Fire

Regular chimney maintenance and inspection can prevent chimney fires. If you have a chimney fire, follow these steps:

- 1. Close the fireplace door and the combustion air controls.
- 2. Alert your family of the possible danger.
- 3. If you require assistance, alert your fire department.
- 4. If possible, use a dry chemical fire extinguisher, baking soda or sand to control the fire. Do not use water as it may cause a dangerous steam explosion.
- 5. Check outside to ensure that sparks and hot embers coming out of the chimney are not igniting the roof.
- 6. Do not use the fireplace again until your chimney and fireplace have been inspected by a qualified chimney sweep or a Fire Department Inspector.

## 3.3.5 Finish Door Casing Care

Use a glass cleaner and a soft cloth to polish the casing. Do not use abrasives such as steel wool, steel pads or an abrasive polish for they may scratch the casing's finish.

#### 3.3.6 Ashes

Remove ashes only when the fire is out and the ashes are cold (24 to 48 hours after the fire is out).

## 3.3.7 Refractory Replacement

The intense heat of the fire will normally cause hairline cracks in the refractory. These cracks can be minimized by proper curing as described in "First fires". They will not normally diminish the effectiveness of the refractory. If large cracks develop, then the refractory should be replaced. To replace the refractory bricks, follow these steps:

- 1. Remove the front refractories
- 2. Remove the bottom refractory
- 3. Remove the left side refractory
- 4. Remove the right side refractory
- 5. Remove the back refractory
- 6. Remove the front ceramic baffle
- 7. Remove the rear ceramic baffle

To install the new refractories, follow the above steps in reverse.

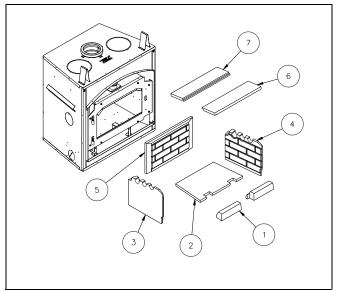


Figure 2

#### 3.3.8 Door Installation

The door must be installed only when the installation of the BIS TRADITION CE is completed. All you have to do is fit the male part of the hinge, already on the door, to the female part, which is on the fireplace.

To remove the door, simply pull the door up from the hinges.

The door adjustment has been set at the factory. If the fit is still not perfect, you can adjust the door using the hinge screws.

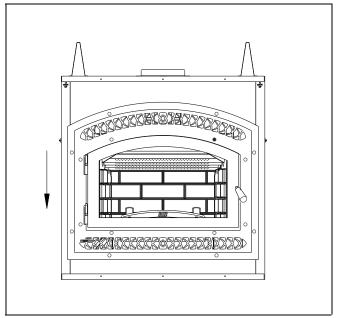


Figure 3

## 3.3.9 Door Adjustment

The door may need to be adjusted to be completely airtight. The gaskets' air-tightness can be adjusted using the adjustment screw located on the right side of the fireplace façade. (An Allen key #1/8 – not supplied - will be necessary for this adjustment)

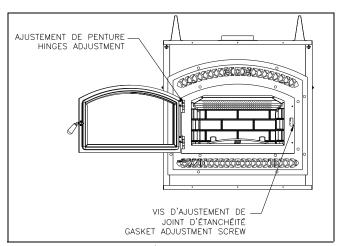


Figure 4

## 3.3.10 Glass Care - Replacement

The glass used for the BIS TRADITION CE is a high temperature ceramic glass (1400° F). If the glass breaks, it must be replaced with an identical ceramic glass. Tempered glass or ordinary glass will not withstand the high temperatures of the BIS TRADITION CE. Replacement glass should be purchased from a Security Chimneys International dealer (see "Replacement Parts", page 34). Do not operate the unit with cracked or broken glass.

## 3.3.11 Glass Care - Cleaning

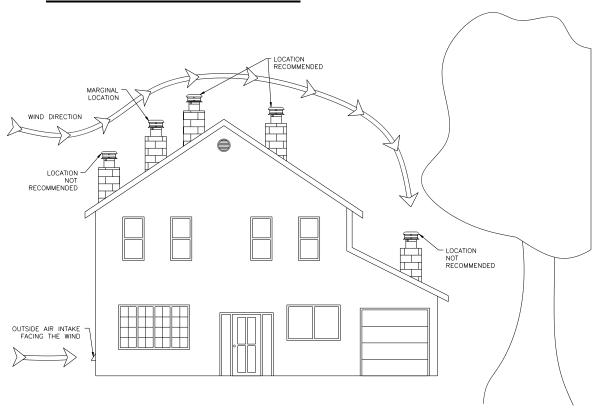
The BIS TRADITION CE is designed to keep the glass clean under normal operating conditions. If the BIS TRADITION CE is operated continuously with the combustion air controls closed, the glass will tend to get dirty unless the fuel, firebox and glass are maintained at hot temperatures (see "Refuelling for best performance"). To clean the glass, there are a number of specially designed cleaners. Your authorized Security dealer can recommend a suitable cleaner which is available in your area. Regular household glass cleaners will not clean creosote. Do not use abrasives such as steel pads, steel wool or oven cleaner as they will scratch the glass.

## 3.3.12 Gasket Replacement

Remove the door from the unit (see page 10) and lay them on a clean unabrasive surface. To replace the gasket, first remove all of the old gasket and gasket cement. Make sure that the surface is totally clean before applying new cement (a high temperature silicone caulking rated at 500°F, 260°C, is suitable) or adhesion problems may result. Apply gasket cement to the gasket channel and install the new gasket. This replacement part is available from your Security dealer in the following dimensions:

| <b>Gasket</b> | <b>Length</b> | <b>Dimensions</b>           | # Pièce |
|---------------|---------------|-----------------------------|---------|
| Around glass  | 69"           | $1 \times 3/16 \text{ po}.$ | SR1885D |
| On door frame | 73"           | 5/8" dia.                   | SR1823G |

#### 3.4 FIREPLACE INSTALLATION



## 3.4.1 Locating The BIS TRADITION CE

- A. The best location to install your fireplace is determined by considering the location of windows, doors, and the traffic flow in the room where the fireplace is located, allowing space in front of the unit for the hearth extension and the mantel, and taking into consideration the location of the hot air ducts (optional), outside air kit and chimney. If possible, you should choose a location where the chimney will pass through the house without cutting floor or roof joists (see fireplace dimensions page 13).
- B. Usually, no additional floor support is needed for the fireplace. The adequacy of the floor can be checked by first estimating the weight of the fireplace system. Weights are given in the appendix. Next, measure the area occupied by the fireplace which is normally 36" X 24 \_". Note the floor construction and consult your local building code to determine if additional support is needed.
- C. The BIS TRADITION CE may be installed directly on the floor or on a raised base (for proper guidelines, refer to "Hearth Extension Requirements") and a minimum of 6'8" measured from the base of the appliance to the ceiling is required.
- D. When selecting the location, the chimney outlet position and the direction of the wind are important factor affecting the chimney performance. To allow a maximum draft and to reduce wind turbulence, the chimney must:
- Penetrate the highest part of the roof.
- Be installed as far as possible of roof offsets, trees or any other obstructions that may cause wind turbulence and back drafts in the chimney.
- The least amount of offsets (elbows) possible.

## 3.4.2 Hearth Extension Requirements

The BIS TRADITION CE may be installed directly on a combustible floor; however, the combustible floor in front of the fireplace must be covered with a non-combustible material (tile, marble, stone, etc.).

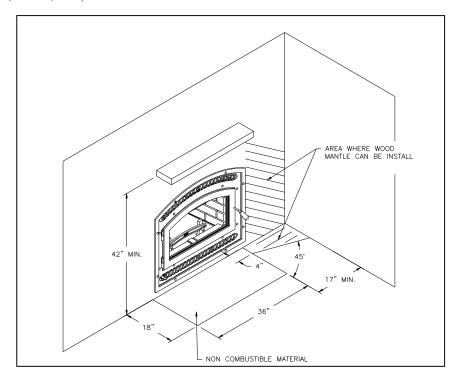


Figure 5

## 3.4.3 Framing, Facing And Mantel

The construction of the framing, facing, and mantel must be in accordance with the standards and the following illustrations (figures 7 to 11):

- A. Frame the fireplace using 2" x 3" or heavier lumber.
- B. <u>WARNING</u>: Combustible materials cannot be used in the space directly above the fireplace, except for the studs above the facade that support the facing and mantel. This area must remain empty for <u>a height of 6'8" (2032 mm)</u> measured from the base of the appliance.
- C. Frame the fireplace with vertical studs at the sides of the fireplace running from floor to ceiling (see figure 9). If combustible facing is to be used, position the studs back, from the front edge of the fireplace, a space the thickness of the facing material so that the facing can be installed flush with the fireplace facing. Frame headers between the vertical studs only as follows:
  - Place 2" x 3" or 2" x 4" headers, only along the upper part of the front, side and back faces. Do not put wood or any combustible material within the area above the fireplace except on the front facing.
  - Place headers only as required to support the facing and mantel.
- D. <u>WARNING</u>: The fireplace must not be in contact with any insulation or loose filling material. Cover the insulation with gyproc panels or any rigid material around the fireplace.

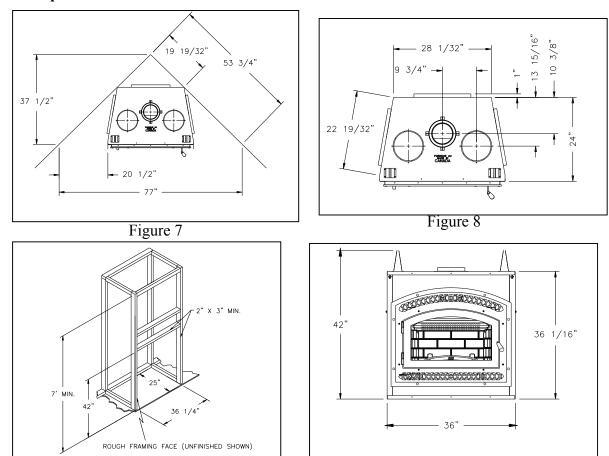


Figure 10

Figure 9

## INSULATED CHASE CONSTRUCTION

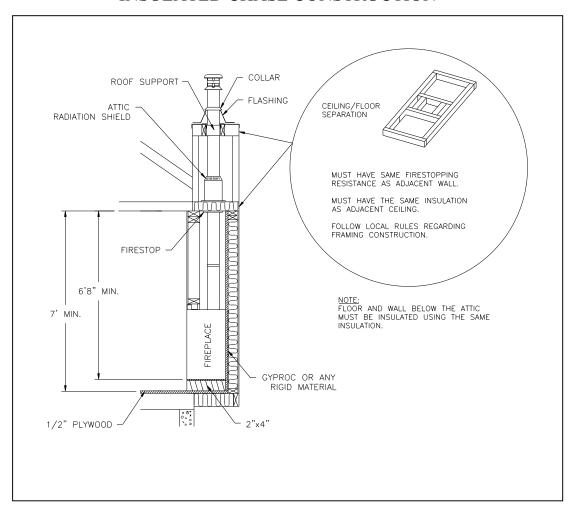
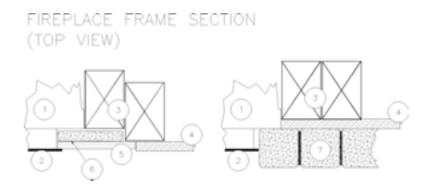


Figure 11

## **Facing**

Note: The facade must be removable once installed. The facade is designed to overlap any facing material installed on the front of the fireplace. If thicker material is installed, use the facade as a template and make sure it can be easily removed for servicing.

- 1. Combustible material must be installed flush with the fireplace. It may not project in front of and on the fireplace (i.e. the steel facade of the fireplace) (figure 13b).
- 2. Non-combustible materials such as brick, stone or ceramic tile may project in front of and onto the fireplace facing (figure 13c).
- 1. Fireplace
- 2. Front of fireplace
- 3. Wood frame (2" x 3" min)
- 4. Drywall
- 5. Tiles
- 6. Rock board or other
- 7. Brick



#### Mantel

The mantel must be installed at least 42" (1067 mm) above the base of the fireplace (figure 12).

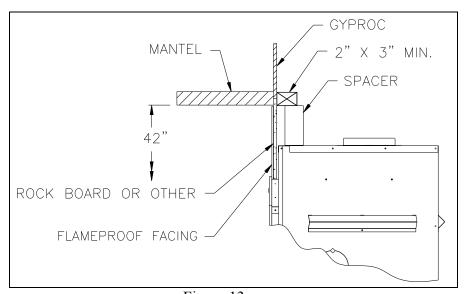


Figure 13a

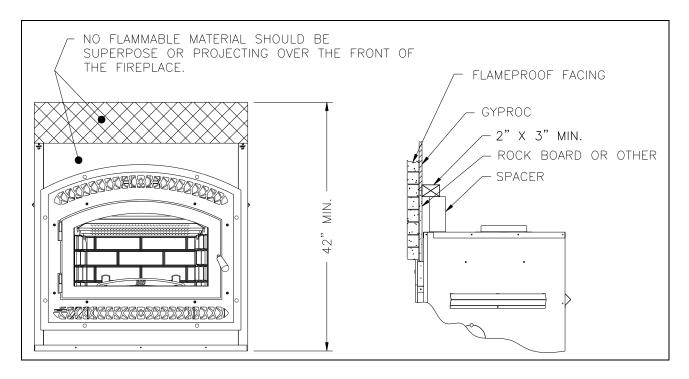


Figure 13b Figure 13c

## 3.4.4 Fireplace Blower

The fireplace comes equipped with a heat activated blower. It is located in the bottom of the fireplace, towards the back. It uses regular 120V and must be connected to the main electrical circuit by a qualified electrician. For connection, use the electrical box supplied with the unit located on the bottom right corner of the fireplace.

If you wish to adjust the blower speed, an optional variable speed control (VRUW) can be installed in line with the wiring. Again, use a qualified electrician for installation.

If the blower requires servicing,

- 1- Remove the doors and the decorative facade
- 2- Remove the screw located below the blower motor that holds it to the back of the fireplace
- 3- Pull the blower out of the unit through the square hole located in the front bottom right corner.

## 3.5 HOT AIR DUCTING INSTALLATION

Different hot air ducting systems can be installed with the BIS TRADITION CE:

- Gravity kit
- Forced air kit

## 3.5.1 Gravity Kit

Two kits are available:

- 1. Single hot air outlet including: (see Fig. 14)
  - 2 6" lengths 8" I.D.
  - 1 hot air outlet kit (box, louver and frame)
  - 2 adaptors

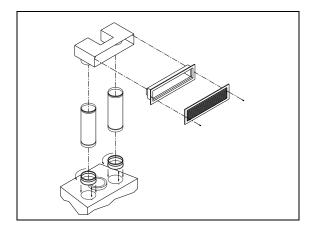
- 2. <u>Double hot air outlet including</u>: (See Fig. 15)
  - 2 telescopic lengths 8" I.D.
  - 2 90° elbows 8" I.D.
  - 2 hot air outlet kits (grill and frames)
  - 2 adaptors

NOTE: If the fireplace is vented using the AC chimney and the single hot air outlet is installed, the chimney must be offset towards the back using 2-30 deg. elbows back to back on the fireplace.

NOTE: For the double hot air outlet it is mandatory to install both outlet pipes. Any other installation can cause fire and void warranty.

See components list page 33.

The only fan that can be used with the gravity kit is the is the one sold with the fireplace.



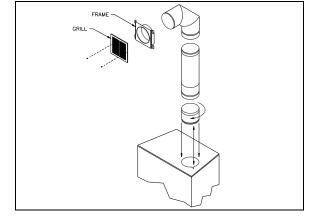


Figure 14

Figure 15

The safety rules for hot air ducting gravity kit installations are the following:

Minimum height\*

68" (1727 mm)

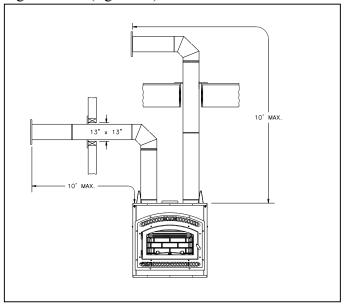
Maximum length

See figures 16 & 17

The height of the louver must be measured from the base of the BIS to the middle point of the louver.

The single outlet system is designed to be installed either flush with the front of the BIS TRADITION CE or extended out slightly from the face of the fireplace (if installing with a brick or thick facing for example). To extend the double outlet system, it will be necessary to purchase two adjustable lengths (7B26ZL2A). To extend the single outlet, it is necessary to install the insulation strip provided with the system. A maximum of 3 \_" (89 mm) of extension is provided by the single outlet system (see figure 17).

When installing the double outlet system, the hot air outlets can be installed in the same room as the fireplace, or one or both of the outlets can be installed in adjacent or upper rooms. Installing the ducts at different elevations will tend to exhaust more heat out of the higher outlet (figure 16).



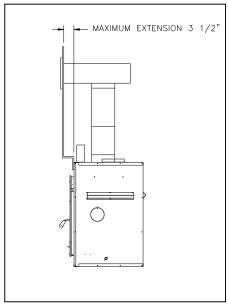
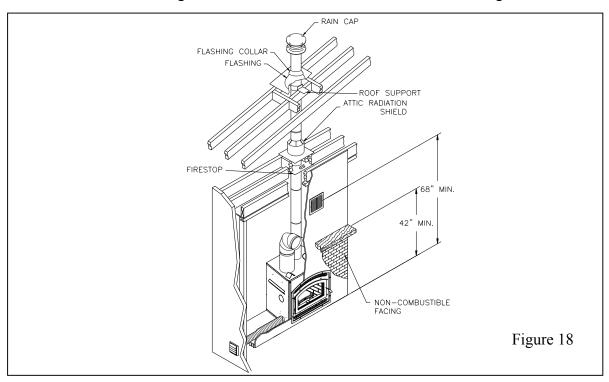


Figure 16

Figure 17



The duct system must be installed respecting the following:

- 1. Remove the top and bottom plates closing up the 8" dia. holes on top of the fireplace. Then, cut the insulation in order to obtain two 8" dia. free openings. Fix the adaptors on the fireplace openings by turning clockwise (figures 14 and 15).
- 2. Maintain at least a 2" (50 mm) clearance between the ducts and any combustible material; the required hole size is 13" x 13" (330 mm x 330 mm).

**Exception #1:** For the grills, the framing can be 10 \_" x 10 \_" (275 mm x 275 mm) to provide the clearance as required by the integral spacers on the double outlet duct system.

Exception #2: For the single outlet, the framing must be 8 \_" x 32 \_" (210 mm x 820 mm) or as required by the integrated spacers. At no time should any combustible facing material such as panelling cover over any part of the grill face.

- 3. The maximum number of elbows in a run of duct is two.
- 4. Maintain at least 6 \_" (160 mm) clearance from the outlet grill framing to a combustible ceiling, side wall or mantel.
- 5. When traversing a combustible wall or floor, a firestop must be installed at the wall or floor penetration. The hole size must be 13" X 13". (330 mm x 330 mm)
- 6. Do not connect the hot air ducts to a central heating system. Malfunction of the heating system's fan will cause the fireplace to overheat. A furnace duct is only single wall and not double wall as is required for the BIS TRADITION CE hot air exhaust.
- 7. Use only Security Chimneys International grills and components as described in this manual. Other grills or registers, for example, may be too restrictive and may overheat the fireplace or ceiling.
- 8. Do not use insulated flexible ducts as they will overheat.
- 9. Do not use tees or any other components than the ones specifically listed here.
- 10. All ducts must extend upwards or horizontally. Never route the ducting downwards.
- 11. The hot air outlet grills must be installed with the louvers pointing downwards in order to prevent overheating adjacent ceilings.

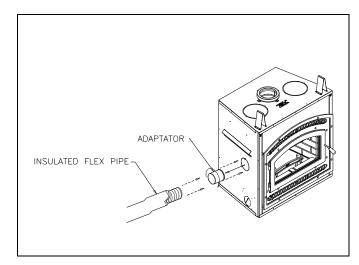
## 3.5.2 Central Forced Air Kit (Not tested under EPA certification)

The knock-outs provided on the back and on the sides of the BIS TRADITION CE allow the connection of insulated flexible pipe which enables you to heat adjacent rooms up to 50 feet from the fireplace.

The ducting system must be installed as described below:

- A) Fix the adaptor at the back and/or the side of the fireplace by twist-locking the adaptor to the fireplace. You can use more than one outlet on the fireplace (figure 19).
- B) Attach the 5" flexible pipe, using the collars provided. <u>Important</u>: Make sure that the plastic wrapping around the flexible pipe will not be in contact with the fireplace.
- C) Route the flexible pipe to the chosen location. The ducting system can be installed either in an upper room or in a lower room.
- D) Attach the flexible pipe to the fan, using the collars (figure 20).
- E) Fix the backdraft damper to the fan outlet.
- F) Attach a flexible pipe to the fan / flexible pipe adapter (square to round) and stretch it up to the location where the heat is required.
- G) At that point, the flexible pipe can be attached to any air distribution grill. It is possible to connect a flexible pipe to a central heating system. Make sure the pipe will be connected to the warm air supply duct, not to the return air duct (figure 21).
- H) Install the *blower heating and cooling thermostat* (HCTW) in that part of the house to be heated by the hot air duct. The thermostat can be switched to a cooling thermostat and installed in the same room as the unit. This thermostat will turn on the blower when the room where the fireplace is located becomes too hot.

This option requires electricity. Make sure that the connections to the fan have been made according to the local codes and comply with their requirements (see instruction provided with the thermostat).



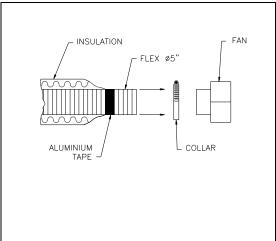


Figure 19 Figure 20

#### 3.6 **OUTSIDE AIR**

<u>It is mandatory</u> to install an outside air connection to the BIS Tradition CE. The following components are required and are included with the fireplace:

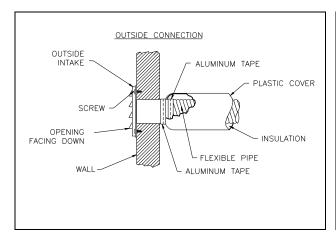
- Outside air kit
- 4" adapter for fireplace connection

The outside air assembly must be installed according to the following requirements:

- A) Duct length should be kept to a minimum. The maximum length of a 4" interior diameter (100 mm) insulated flexible duct is 20 ft. (6.1 m). The duct can be extended to a maximum of 40 ft. (12 m) using a 6" interior diameter (150 mm) insulated flexible duct (See note below).
- B) The air intake register must not be installed more than 10 ft. (3050 mm) above the base of the fireplace.
- C) The fresh air must come from outside the house. The air intake must not draw air from the attic, basement or garage.
- D) The air intake should be installed where it is not likely to be blocked by snow or exposed to extreme wind and away from automobile exhaust fumes, gas meters and other vents.
- E) The duct and register may be installed above or below floor level.

Make a 4 \_" (110 mm) hole in the outside wall of the house at the chosen location. From outside, place the outside air register in the hole (open side down) and fasten the register to the wall with screws as shown (see figure 24). Slip the pipe into the insulated sleeve. Place the insulated pipe over the register tube and over the fireplace's outside air connector (see figure 25). At each end, carefully pull back the insulation and plastic cover exposing the flexible pipe. Using the aluminium tape provided, wrap the tape around the joint between the flexible pipe and the air inlets. Carefully push the insulation and plastic cover back over the pipe. Using aluminium tape, fasten the plastic cover in place.

**NOTE**: We recommend not to exceed 20 feet of 4" flexible pipe. If you require a longer length we recommend that you use a 5" diameter flexible pipe for the complete run up to 30 feet and a 6" diameter pipe for a run of up to 40 feet.



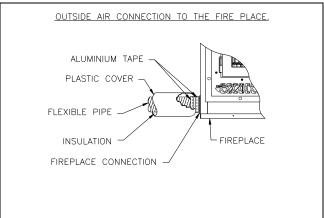


Figure 24 Figure 25

## 4. THE CHIMNEY

## 4.1 CHIMNEY INSTALLATION NOTES

- 1. If possible, install an interior chimney as it will provide better performance. In areas with continuous temperatures below -18° C (0° F), the use of an exterior chimney increases the likelihood of operating problems such as low draught, high rate of creosoting, and poor start-up characteristics. Exterior chimneys are also prone to down-drafting and flow reversal. Installations, which are located on lower floors in the house, such as in a basement, in combination with outside chimney, are especially prone to flow reversal.
- 2. The Security fireplace model BIS TRADITION CE is listed only with Security Chimneys International Ltd <u>6" diameter</u> chimney systems.
- 3. A chimney venting a fireplace shall not vent any other appliance.
- 4. The minimum chimney height is 12 ft. (3.7 m). In altitude, add 18"(450mm) to the chimney for every 2000 feet(600mm) above sea level.
- 5. All chimney installations must include at least one support. Reducing the amount of chimney weight on the fireplace will help avoid the noise created when the fireplace expands. This can be achieved by having the chimney supported by the supports. The maximum chimney length that can be supported by the fireplace is 9 ft. (2.75 m) for S-2100+/HT6000+, 12 ft. (3.7 m) for ASHT+ / HT6103+ and 26 ft. (8 m) for AC chimney.
- 6. The chimney must extend at least 3 ft. (915 mm) above its point of contact with the roof and at least 2 ft. (610 mm) higher than any wall, roof or building within 10 ft. (3m) of it (Figure 26).
- 7. If the chimney extends higher than 5 ft. (1500 mm) above its point of contact with the roof, it must be secured using a roof brace.
- 8. A rain cap must be installed on top of the chimney. Failure to install a rain cap may cause corrosion problems.
- 9. Cut and frame square holes in all floors, ceilings, and roof that the chimney will go through to provide a 2" (50 mm) clearance between the chimney and any combustible materials. Do not fill this 2" space with insulation or any other combustible material.
- 10. Portions of the chimney which may extend through accessible spaces must be enclosed to avoid contact with combustible materials or damage the chimney.

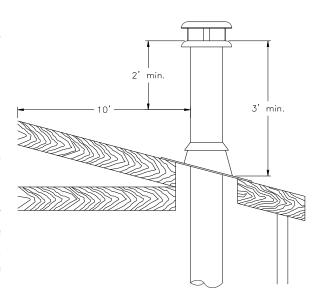


Figure 26

## 4.2 CHIMNEY INSTALLATION INSTRUCTIONS

1. Cut and frame the holes in the ceiling, floor and roof where the chimney will pass (see figure 27). Use a plumb bob to line up the center of the holes. The sizes are indicated in table 1 for the floor and ceiling holes and table 2 (page 24) for the roof holes.

| CHIMNEY<br>MODEL  | SQUARE HOLE SIZE<br>OPENING |
|-------------------|-----------------------------|
| ASHT+ / HT6103+   | 12 3/8" (314 mm)            |
| S-2100+ / HT6000+ | 14 1/8" (359 mm)            |
| AC                | 15 " (380 mm)               |

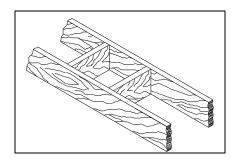
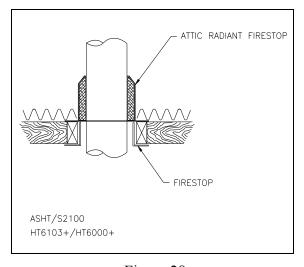


Table 1 Figure 27

- 2. From below, install a firestop in each ceiling/floor separation through which the chimney will pass. At the attic level, install an attic radiation shield from above (figures 28 & 29).
- 3. For ASHT+ / HT6103+ and S-2100+ / HT6000+ chimneys, place the first chimney length on the fireplace. To lock it in place, turn \_ of a turn clockwise. With the AC chimney, you must use a starter section before installing the first chimney length (figure 30). Continue installing chimney lengths making sure to lock each length in place.
- 4. Every time the chimney passes through a ceiling or a wall, install the appropriate firestop. When you reach the desired height, install the roof support. (Refer to instructions included with the support).
- 5. Then, put the roof flashing in place and seal the joint between the roof and the flashing with roofing pitch (see figures 31 & 32). For sloping roofs, place the flashing under the upper shingles and on top of the lower shingles. Nail the flashing to the roof, using roofing nails.
- 6. Place the storm collar over the flashing, and tighten it with the bolt supplied. Finally, seal the joint between the storm collar and the chimney, using silicone caulking.
- 7. Install the chimney cap.



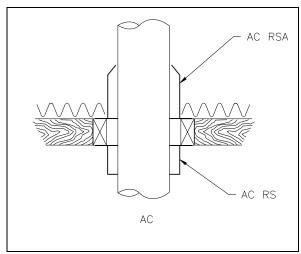


Figure 28 Figure 29

# AC CHIMNEY INSTALLATION (AIR COOLED GALVALUME CHIMNEY)

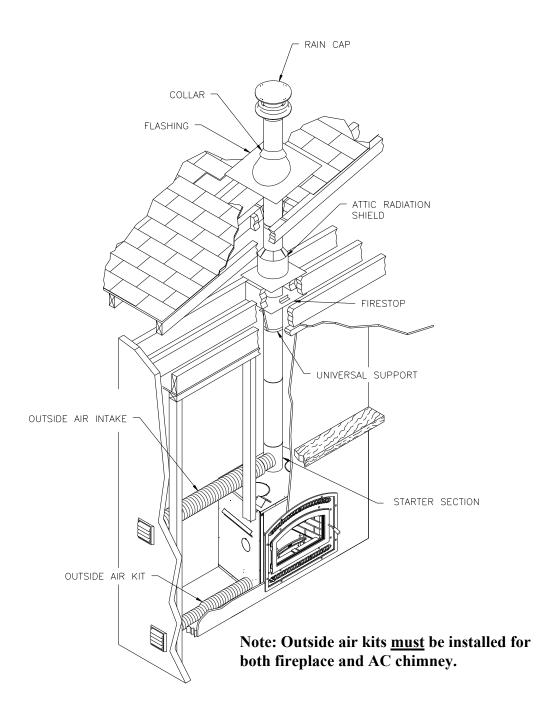


Figure 30

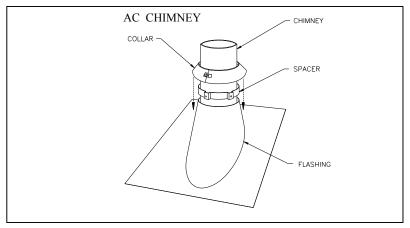


Figure 31

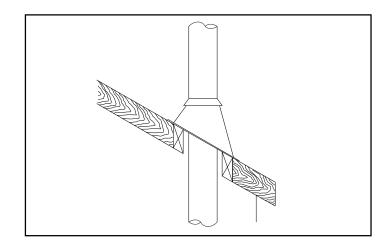


Figure 32

Table 2

| ROOF DOWN SLOPE HOLE SIZE |                   |                   |                  |  |  |  |  |  |
|---------------------------|-------------------|-------------------|------------------|--|--|--|--|--|
| SLOPE                     | ASHT+ / HT6103+   | S-2100+ / HT6000+ | AC               |  |  |  |  |  |
| Roof Pitch                | 6"                | 6"                | 6"               |  |  |  |  |  |
| 0 *                       | 12 3/8" (314 mm)  | 14 1/8" (359 mm)  | 15" (380 mm)     |  |  |  |  |  |
| 2/12                      | 12 9/16" (319 mm) | 14 3/8" (365 mm)  | 15 3/8" (390 mm) |  |  |  |  |  |
| 4/12                      | 13" (330 mm)      | 14 7/8" (378 mm)  | 16 1/8" (410 mm) |  |  |  |  |  |
| 6/12                      | 13 7/8" (352 mm)  | 15 _" (400 mm)    | 16 7/8" (430 mm) |  |  |  |  |  |
| 8/12                      | 14 7/8" (378 mm)  | 17" (432 mm)      | 18 1/4" (465 mm) |  |  |  |  |  |
| 10/12                     | 16 1/8" (410 mm)  | 18 3/8" (467 mm)  | 19 5/8" (500 mm) |  |  |  |  |  |
| 12/12                     | 17 1/2" (445 mm)  | 20" (508 mm)      | 21 3/8" (545 mm) |  |  |  |  |  |
| * CROSS SLOPE H           | OLE SIZE          |                   |                  |  |  |  |  |  |

## 4.3 OFFSET CHIMNEY INSTALLATON

The minimum chimney height when using elbows is:

| Fireplace model       | BIS TRADITION CE                         |
|-----------------------|--|
| Chimney model         | ASHT+ / HT6103+ / S-2100+ / HT6000+ / AC |
| Vertical installation | 12 ft. (3.66 m)                          |
| Two (2) elbows        | 15 ft. (4.57 m)                          |
| Four (4) elbows       | 17 ft. (5.18 m)                          |

Table 3

After reaching the location requiring the elbow, proceed as follows:

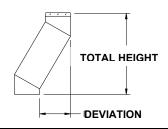
#### ASHT+ / HT6103+ / S-2100+ / HT6000+ Chimneys

- 1. Install the first elbow; turn it in the required direction. Fasten it to the chimney with the three (3) \_" (12 mm) metal screws provided with the elbow.
- 2. Install the necessary chimney lengths to achieve the required offset. Lock the chimney lengths together: it is recommended to use three (3) \_" (12 mm) screws. If the offset length is made of two (2) chimney lengths or more, use an offset or roof support halfway up the offset. If penetrating a wall, install a wall radiation shield (see figures 34 & 35).
- 3. Use another elbow to turn the chimney vertically. Secure the elbow, using three (3) \_" (12 mm) screws (provided with the elbow).
- 4. Use a plumb bob to line up the centre of the hole. Cut a hole for the chimney in the ceiling/floor. Frame this hole as described previously (refer to section 4.2).
- 5. From below, install a firestop (See figure 28).
- 6. A support (ST+ or SO+) must be used on the first 15' section (5 m.).
- 7. Continue with the regular installation.

#### **AC Chimney**

- 1. Install the first elbow. Turn it in the required direction. To lock it in place, turn 1/8 of a turn. Fasten the straps attached to the elbow to the surrounding frame, using nails or drywall screws (figure 32).
- 2. Install the necessary chimney lengths to achieve the required offset. Lock the chimney lengths together. If penetrating a wall, use a wall radiation shield.
- 3. Use another elbow to turn the chimney vertically. Lock it to the chimney. Fasten the straps attached to the elbow to the surrounding framing using nails or drywall screws.
- 4. Use a plumb bob to line up the centre of the hole. Cut a hole for the chimney in the ceiling. Frame this hole as described previously.
- 5. From below, install a firestop. (see figure 29).
- 6. Continue with the regular installation.

**N.B.**: An AC-SB starter section must be used before installing an elbow. When an offset is needed immediately off the top of the fireplace, a starter section allowing a 4" offset (AC-SBO) is available.



| CHIMNEY ELBOW                    |                 | DEVIATION        | ONE LENGTH BETWEEN ELBOWS |           |              |            | TWO LENGTHS BETWEEN ELBOWS |           |                            |           |              |            |           |           |
|----------------------------------|-----------------|------------------|---------------------------|-----------|--------------|------------|----------------------------|-----------|----------------------------|-----------|--------------|------------|-----------|-----------|
| 6" ELBOW                         | & HEIGHT        | 8"               | 12"                       | 18"       | 24"          | 36"        | 48"                        | 8" & 48"  | 12" & 48"                  | 18" & 48" | 24" & 48"    | 36" & 48"  | 48" & 48" |           |
| 45                               |                 |                  | 3 5/16"                   | 4 5/16"   | 5 7/8"       | 7 7/16"    | 10 1/2"                    | 13 5/8"   | 15 3/8"                    | 16 7/16"  | 18"          | 19 1/2"    | 22 5/8"   | 25 3/4"   |
|                                  | 15°             | DEVIATION        | (84mm)                    | (110mm)   | (149mm)      | (189mm)    | (267mm)                    | (346mm)   | (391mm)                    | (418mm)   | (457mm)      | (495mm)    | (575mm)   | (654mm)   |
|                                  | 13              | HEIGHT           | 15 11/16"                 | 19 9/16"  | 25 3/8"      | 31 3/16"   | 42 3/4"                    | 54 3/8"   | 60 15/16"                  | 64 13/16" | 70 9/16"     | 76 3/8"    | 87"       | 99 9/16"  |
| Secure                           |                 | HEIGHT           | (398mm)                   | (497mm)   | (645mm)      | (792mm)    | (1086mm)                   | (1381mm)  | (1548mm)                   | (1646mm)  | (1792mm)     | (1940mm)   | (2210mm)  | (2529mm)  |
| Temp <sup>ASHT+</sup>            |                 | DEVIATION        | 7 7/16"                   | 9 7/16"   | 12 7/16"     | 15 7/16"   | 21 7/16"                   | 27 7/16"  | 30 13/16"                  | 32 13/16" | 35 13/16"    | 38 13/16"  | 44 13/16" | 50 13/16" |
| Nova                             | 30°             |                  | (189mm)                   | (240mm)   | (316mm)      | (392mm)    | (545mm)                    | (697mm)   | (783mm)                    | (833mm)   | (910mm)      | (986mm)    | (1138mm)  | (1291mm)  |
| Nova<br>Temp <sup>HT6103+</sup>  |                 | HEIGHT           | 20"                       | 23 _"     | 28 11/16"    | 33 7/8"    | 44 1/4"                    | 54 11/16" | 60 9/16"                   | 64 "      | 69 1/4"      | 74 7/16"   | 84 13/16" | 95 1/4"   |
|                                  |                 | 11210111         | (508mm)                   | (597mm)   | (729mm)      | (860mm)    | (1124mm)                   | (1389mm)  | (1538mm)                   | (1627mm)  | (1759mm)     | (1891mm)   | (2154mm)  | (2419mm)  |
|                                  |                 | DEVIATION        | 10 5/16"                  | 13 3/16"  | 17 3/8"      | 21 5/8"    | 30 1/8"                    | 38 5/8"   | 43 7/16"                   | 46 1/4"   | 50 1/2"      | 54 3/4"    | 63 1/4"   | 71 11/16" |
|                                  | 45°             |                  | (262mm)                   | (335mm)   | (441mm)      | (549mm)    | (765mm)                    | (981mm)   | (113mm)                    | (1175mm)  | (1283mm)     | (1391mm)   | (1607mm)  | (1818mm)  |
|                                  |                 | HEIGHT           | 17 13/16"                 | 20 5/8"   | 24 7/8"      | 29 1/8"    | 37 5/8"                    | 46 1/8"   | 50 15/16"                  | 53 3/4"   | 58"          | 62 1/4"    | 70 3/4"   | 79 3/16"  |
|                                  |                 |                  | (452mm)                   | (524mm)   | (632mm)      | (740mm)    | (956mm)                    | (1172mm)  | (1294mm)                   | (1365mm)  | (1473mm)     | (1581mm)   | (1797mm)  | (2011mm)  |
|                                  |                 |                  |                           |           |              |            |                            |           |                            |           |              |            |           |           |
| CHIMNEY                          | ELBOW           | DEVIATION        |                           | ON        | IE LENGTH BE | TWEEN ELBO | ws                         |           | TWO LENGTHS BETWEEN ELBOWS |           |              |            |           |           |
| 6"                               | ELBOW           | & HEIGHT         | 8"                        | 12"       | 18"          | 24"        | 36"                        | 48"       | 8" & 48"                   | 12 & 48"  | 18 & 48"     | 24" & 48"  | 36" & 48" | 48" & 48" |
|                                  |                 | DEVIATION        | 3 5/16"                   | 4 5/16"   | 5 7/8"       | 7 7/16"    | 10 1/2"                    | 13 5/8"   | 15 1/2"                    | 16 1/2"   | 18 1/16"     | 19 5/8"    | 22 3/4"   | 25 13/16" |
|                                  | 15°             | DEVIATION        | (84mm)                    | (110mm)   | (149mm)      | (189mm)    | (267mm)                    | (346mm)   | (394mm)                    | (419mm)   | (459mm)      | (498mm)    | (578mm)   | (656mm)   |
| Secure<br>Temp <sup>S2100+</sup> | 15              | HEIGHT           | 16"                       | 19 7/8"   | 25 11/16"    | 31 1/2"    | 43 1/16"                   | 54 5/8"   | 61 7/16"                   | 65 1/4"   | 71 1/16"     | 76 7/8"    | 88 1/2"   | 100 1/16" |
| Temp <sup>S2100+</sup>           |                 | HEIGHT           | (406mm)                   | (505mm)   | (652mm)      | (800mm)    | (1094mm)                   | (1387mm)  | (1561mm)                   | (1657mm)  | (1805mm)     | (1953mm)   | (2248mm)  | (2542mm)  |
| Nova                             |                 | DEVIATION HEIGHT | 7 3/8"                    | 9 3/8"    | 12 3/8"      | 15 3/8"    | 21 3/8"                    | 27 3/8"   | 30 7/8"                    | 32 7/8"   | 35 7/8"      | 38 7/8"    | 44 7/8"   | 50 7/8"   |
| Temp <sup>HT6000+</sup>          | 30°             |                  | (187mm)                   | (238mm)   | (314mm)      | (391mm)    | (543mm)                    | (695mm)   | (784mm)                    | (835mm)   | (911mm)      | (987mm)    | (1140mm)  | (1292mm)  |
|                                  |                 |                  | 20 11/16"                 | 24 3/16"  | 29 3/8"      | 34 9/16"   | 44 15/16"                  | 55 5/16"  | 61 3/8"                    | 64 7/8"   | 70 1/16"     | 75 1/4"    | 35 5/8"   | 96"       |
|                                  |                 |                  | (525mm)                   | (614mm)   | (746mm)      | (878mm)    | (1141mm)                   | (1405mm)  | (1559mm)                   | (1648mm)  | (1780mm)     | (1911mm)   | (2175mm)  | (2438mm)  |
|                                  | ı               | , ,              |                           |           |              |            |                            |           |                            |           |              |            |           |           |
| CHIMNEY                          | ELBOW DEVIATION |                  |                           | ON        | E LENGTH BE  | TWEEN ELBO | ws                         |           |                            | TWO       | D LENGTHS BE | TWEEN ELBO | ows       |           |
| 6"                               |                 | & HEIGHT         |                           | 12"       | 18"          |            | 36"                        | 48"       |                            | 12" & 48" | 18" & 48"    |            | 36" & 48" | 48" & 48" |
|                                  |                 | DEVIATION        |                           | 4 13/16"  | 6 1/8"       |            | 11"                        | 14 1/8"   |                            | 16 7/8"   | 18 7/16"     |            | 23"       | 26 3/16"  |
|                                  |                 | DEVIATION        |                           | (122mm)   | (156mm)      |            | (280mm)                    | (359mm)   |                            | (429mm)   | (468mm)      |            | (584mm)   | (665mm)   |
| AC 6"                            | 15°             |                  |                           | 27 11/16" | 33 _"        |            | 50 7/8"                    | 65 _"     |                            | 72 5/8"   | 78 7/16"     |            | 95 _"     | 107 3/8"  |
|                                  |                 | HEIGHT           |                           | (703mm)   | (851mm)      |            | (1292mm)                   | (1588mm)  |                            | (1845mm)  | (1992mm)     |            | (2432mm)  | (2727mm)  |
|                                  |                 |                  |                           | 9 3/8"    | 12 3/8"      |            | 21 3/8"                    | 27 3/8"   |                            | 32 5/8"   | 35 5/8"      |            | 44 5/8"   | 50 5/8"   |
|                                  |                 | DEVIATION        |                           |           |              |            |                            |           |                            |           |              |            |           |           |
|                                  | 30°             |                  |                           | (238mm)   | (314mm)      |            | (543mm)                    | (695mm)   |                            | (829mm)   | (905mm)      |            | (1134mm)  | (1286mm)  |
|                                  | İ               | HEIGHT           |                           | 25 _"     | 31"          |            | 46 _"                      | 57"       | 1                          | 66"       | 71 _"        |            | 86 7/8"   | 97 _"     |
|                                  |                 | neigni i         |                           | (654mm)   | (878mm)      |            | (1181mm)                   | (1448mm)  |                            | (1676mm)  | (1810mm)     |            | (2207mm)  | (2470mm)  |

Table 4

\*\*\* NOTE : With the ACBI chimney, a starting length of 6" high must be used on top of the fireplace before installing \*\*\*

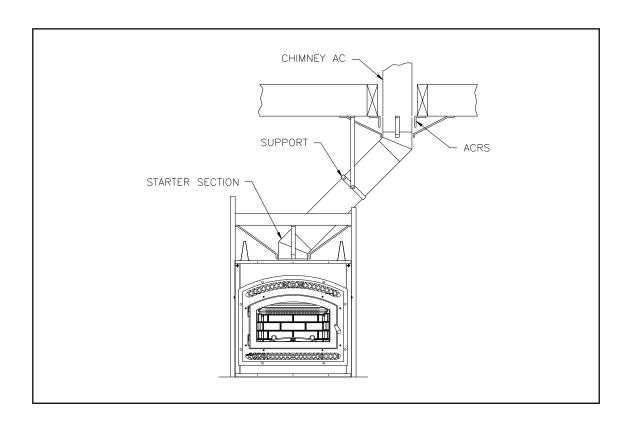


Figure 33

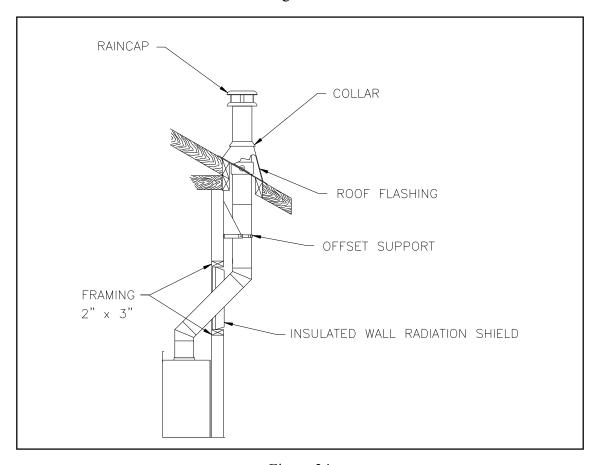


Figure 34

# 4.4 <u>ANGLED WALL RADIATION SHIELD</u> (RSM+, RSMI30, RSMI45)

When traversing a combustible wall with the chimney at a 30° or 45° angle, an angled firestop or wall radiation shield must be installed. Only one is required.

## Note: 45° angle for Canada only

In cold climate locations, we recommend that you use the insulated wall radiation shield since it will maintain the home's thermal barrier.

| RSM+ and RSMI30, RSMI45     |       |                                       |  |  |  |  |
|-----------------------------|-------|---------------------------------------|--|--|--|--|
| CHIMNEY MODEL               | ANGLE | HOLE SIZE                             |  |  |  |  |
| ASHT+ / HT6103+ (6" dia.)   | 30°   | 283 mm x 781 mm (11 1/8" x 30 _")     |  |  |  |  |
| Canada only                 | 45°   | 283 mm x 518 mm (11 1/8" x 20 3/8")   |  |  |  |  |
| S-2100+ / HT6000+ (6" dia.) | 30°   | 327 mm x 881 mm (12 7/8" x 34 11/16") |  |  |  |  |
| AC (6" dia.)                | 30°   | 380 mm x 972 mm (15" x 38 _")         |  |  |  |  |

Table 5

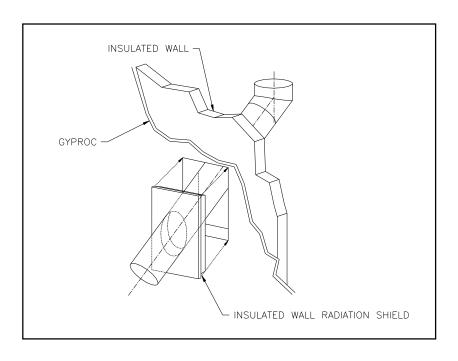


Figure 35

## 4.5 CHIMNEY SUPPORT INSTALLATION

## **Universal Roof Support**

This support has three possible uses:

- 1. For ASHT+ / HT6103+ and S-2100+ / HT6000+, it must be used on a roof to support the chimney.
- 2. It may be used on a floor, ceiling or roof above an offset to support the chimney above the offset.
- 3. It may be used on a floor, ceiling or roof as a supplementary support

#### Table 6 gives maximum height of supported chimney.

NOTE: For the AC chimney, a support section must be used every 40 ft. (12 m) instead of the universal roof support (ST).

For roof support installation, refer to the instructions provided with the support.

## **Universal Offset Support**

This support is used to support the chimney above an offset. When the chimney offset is used to traverse a wall this support may be used on the wall to support the chimney. The maximum heights are given in Table 6. For offset support installation, refer to the instructions provided with the support.

| CHIMNEY MODEL               | MAXIMUM HEIGHT OF SUPPORTED CHIMNEY |                  |  |  |
|-----------------------------|-------------------------------------|------------------|--|--|
|                             | OFFSET SUPPORT                      | ROOF SUPPORT     |  |  |
| ASHT+ / HT6103+ (6" dia.)   | 28 ft. (8.54m)                      | 29 ft. (8.84 m)  |  |  |
| S-2100+ / HT6000+ (6" dia.) | 18 ft. (5.49 m)                     | 20 ft. (6.1 m)   |  |  |
| AC (6" dia.)                | 40 ft. (12.19 m)                    | 50 ft. (15.20 m) |  |  |

Table 6

## 4.6 CHIMNEY CHASE AND MULTIPLE TERMINATIONS

For the purpose of this manual, a chimney chase is considered a part of the chimney system rather than part of a building. The termination must be placed a minimum of 18" (460 mm) above the chase.

For installations where more than one chimney is located in the same chase or within the same area, we suggest that their terminations be separated by at least 16" (410 mm) horizontally, and 18" (460 mm) vertically. This separation is to prevent smoke migrating from one chimney to another (see figure 36).

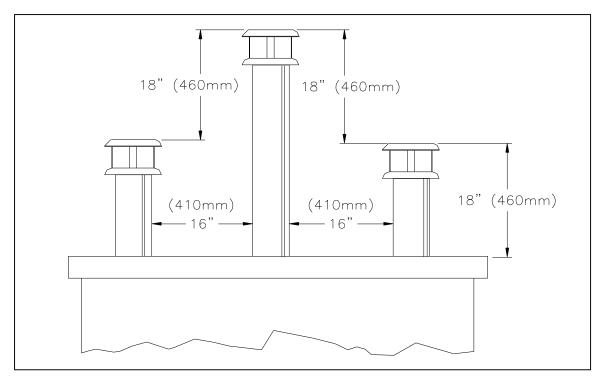


Figure 36

## 4.7 <u>CHIMNEY ADAPTOR</u> (S-2100+ / HT6000+)

The fireplace is normally supplied with a chimney adaptor suitable for the ASHT+ / HT6103+ chimney. If you want to install a S-2100+ / HT6000+ chimney, an adaptor is available (6UCA) (figure 37). A separate starter section will also be required if AC chimney is installed.

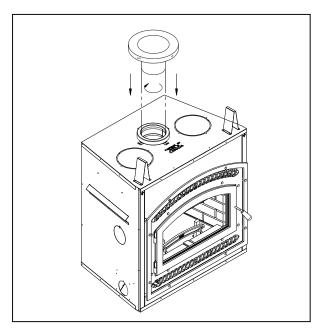


Figure 37

#### 4.8 INSTALLATION INSTRUCTIONS FOR MASONRY APPLICATION

# <u>WARNING</u>: Before starting the installation, the masonry chimney must be inspected by a qualified sweep.

The following requirements must be respected:

- The chimney must be absolutely clear of any soot residue or creosote. Check for cracks, loose or missing bricks that could inhibit correct installation of the liner.
- 2. The clearance to combustible must be a minimum of 1" between the outside of the masonry and any wood framing or loose insulation.
- 3. The chimney must be built in accordance with the current building code.
- 4. No other appliance can be connected to the same chimney.
- 5. The clearances to combustible for the BISUMA or BISPMA and BISUMA30 or BISPMA30 connectors are 2" on the side and bottom and 16" at the top.
- 6. The connector parts are not necessary if the connection between the insulated length and the stainless steel liner is done within the masonry chimney.

#### **Installation:**

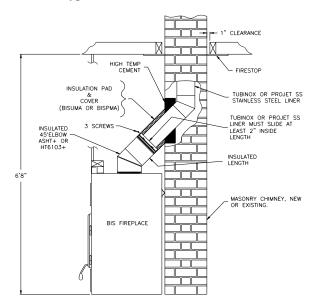
The chimney must be relined with a stainless steel liner model Tubinox or Projet SS of the same diameter as the outlet of the fireplace.

For connection at 45° angle, a special connector (BISUMA for the BIS Ultra and BIS Tradition CE fireplaces or BISPMA for the BIS Panorama fireplace) must be used to connect the liner to the insulated chimney. For connection at 30°, use the BISUMA30 or BISPMA30 connectors.

#### Follow these steps:

- 1- Position the fireplace in its location. Temporarily install the ASHT+ elbow on the top of the fireplace and, using a level, mark with an oval the location where the flue liner will enter the masonry chimney.
- 2- In the middle of the oval, drill a hole in the masonry chimney at 45° or 30°.
- 3- Increase the size of the hole until a 45° or 30° Tubinox liner elbow can be easily slipped through.
- 4- Slide the liner down from the top of the masonry chimney until you reach the hole level.
- 5- Slip through the hole a 45° or 30° liner elbow and connect it to the liner.
- 6- Add a small liner section to the liner elbow which will allow the liner to extend at least 12" (measured at the top of the liner) from the masonry chimney.
- 7- Seal the opening around the liner with high temperature refractory cement.
- 8- The next steps must be done in the following order:

#### See typical installation illustrated below.



- A. Select the ASHT + length that will fit between the elbow and the liner so that it will slide at least 2" over the liner section. (You may need to cut the liner for a better fit).
- B. Take that section and the BISUMA or BISPMA (BISUMA30 or BISPMA30) cover and slide it over the liner. Make sure you have enough opening to be able to install the ASHT+ elbow without difficulty.
- C. Install the 45° or 30° elbow on the fireplace.
- D. Slide the length section back down on the elbow and twist lock the two together.
- E. Pull the cover down over the length and install the insulation pad over the liner; be careful to cover the liner completely.
- F. Slide back the cover over the insulation and fix it in place using the 3 metal screws supplied.

# 5. PARTS AND COMPONENTS LIST (AC Chimney)

| Description   | Part No.   |
|---|--|
| Lengths   | 6" dia.  |
| 12" length<br>18" length<br>36" length<br>48" length  | AC 6L12<br>AC 6L18<br>AC 6L36<br>AC 6L48                                   |
| 15° elbow<br>30° elbow  | AC 6E15<br>AC 6E30   |
| Rain cap<br>Spark arrester screen   | AC 6CPR<br>PE+   |
| Supports Offset support Support section Roof support Starter section Roof brace Wall band   | XSO+<br>AC 6SL<br>XST+<br>AC 6SB<br>XBS2+<br>XBM+                          |
| Firestop Firestop Radiation shield Attic radiation shield Wall radiation shield 30° Insulated wall radiation shield 30° Wall radiation shield 45° Insulated wall radiation shield 45° | AC BF<br>AC RS<br>AC RSA<br>AC RSM30<br>AC RSMI30<br>AC RSM45<br>AC RSMI45 |
| Outside air kit (chimney) (flex, insulation, outside register and coupling)   | AC ZI  |
| Flat roof flashing  | ACF  |
| Adjustable roof flashings  1/12 - 7/12 (5° - 30°)  8/12 - 12/12 (30° - 45°)  12/12 - 21/12 (45° - 60°)  Storm collar  | AC FA<br>AC FB<br>AC FBB<br>ACFC   |
|   |  |

## 6. OPTIONS

| Gravity kit:   | Part No.:  |
|--|------------|
| Complete double ducting system including: 2 elbows 90°, 2 telescopic lengths, 2 grill supports and 2 black grills  | 7B30ZK-1   |
| Complete single ducting system including: 2 x 6" lengths, 1 decorative black frame and 1 black louver  | 7B26ZKS-1  |
| Complete single ducting system including: 2 x 6" lengths, 1 decorative brass frame and 1 brass louver  | 7B26ZKSB-1 |
| Black grill with support   | 7B30ZO     |
| Brass grill for 7B30ZK   | 7B30ZGB    |
| 1 brass louver & 1 decorative brass frame  | 7B26ZKSLB  |
| Elbow 90°, 8" dia.   | 7B26ZE90   |
| Elbow 45°, 8" dia.   | 7B26ZE45   |
| Telescopic length, 8" dia.   | 7B26ZLA    |
| Adjustable length 8" dia. (2" - 5")  | 7B26ZL2A   |
| Radiation shield   | 7B26ZR     |
| Central forced air kit:  |            |
| Central forced air kit including: blower (BisZY), flex adaptor (BISAF), 2 clamps, variable speed control (VRUW), thermo-disk (VTU), fan to flexible pipe adapter(BISAVF), backdraft damper (BISBD), aluminium tape | BISFWK-1   |
| Fireplace to Flex adaptor and 2 clamps   | BISAF      |
| Flexible pipe 5" I.D. x 15 ft. Long  | 5FLEX15    |
| Flexible pipe 5" I.D. x 30 ft. Long  | 5FLEX25    |
| Blower 250 CFM for central forced air kit  | BISZY      |
| Blower variable speed control with decorative wall plate for (BISZY)   | VRUW       |
| Thermo-disk, on/off blower control for (BISZY)   | VTU        |
| Fan to Flexible pipe adaptor   | BISAVF     |
| Heating and cooling thermostat  Fireplace:   | HCTW       |
| Rigid firescreen   | BUCEBWZN   |
| Masonry chimney adaptor  | BISUMA     |

#### 7. APPENDIX

#### **SPECIFICATIONS**

 Weight
 300 lbs

 Height
 36"

 Width
 36"

 Depth
 24 1/2"

 Chimney weight ASHT+ (6" dia.) :
 6.25 lb/ft.

 Chimney weight S-2100+ (6" dia.) :
 10.8 lb/ft.

#### CLEARANCE TO COMBUSTIBLES

The following clearances meet the minimum requirements for a safe installation Side wall: 17" (324 mm) measured from the fireplace side

Ceiling: 6' 8" (2032 mm) measured from the base of the fireplace

Fireplace enclosure: Bottom: 0" Side: 0"Back: 0"

Top: Do not fill the space above the fireplace with any material (Except

the wood framing. See page 14, Figure 8)

Chimney: 2" (50 mm)

Mantel: 42" (1067 mm) measured from the base of the fireplace

#### REPLACEMENT PARTS

PR-ISO2205 Baffle refractory (2 pieces) Back refractory PR-SR2618 Right side refractory PR-SR2619D Left side refractory PR-SR2619G Bottom refractory PR-SR2201 Front refractory, right side PR-SR2202D Front refractory, left side PR-SR2202G Secondary air tube PR-SR2271 Secondary air tube lock PR-SR2214 Cast-iron log supports (2) PR-SR2324 Log retainer bar PR-SR2620 Fireplace top PR-SR2591 Fireplace left side PR-SR2575 Fireplace right side PR-SR2576 Fireplace back PR-SR2589 Touch up spray paint black SBMB6309 Touch up spray paint charcoal PR-P6201

(for hammered façade)

Door handle

Door rod and lock

Door rod and lockPR-SR2118Ceramic glass panelPR-SR2222-1Door gasketPR-SR1823GGlass gasketPR-SR1685DHinges (door & fireplace)PR-SR2395TCE

PR-SR1787