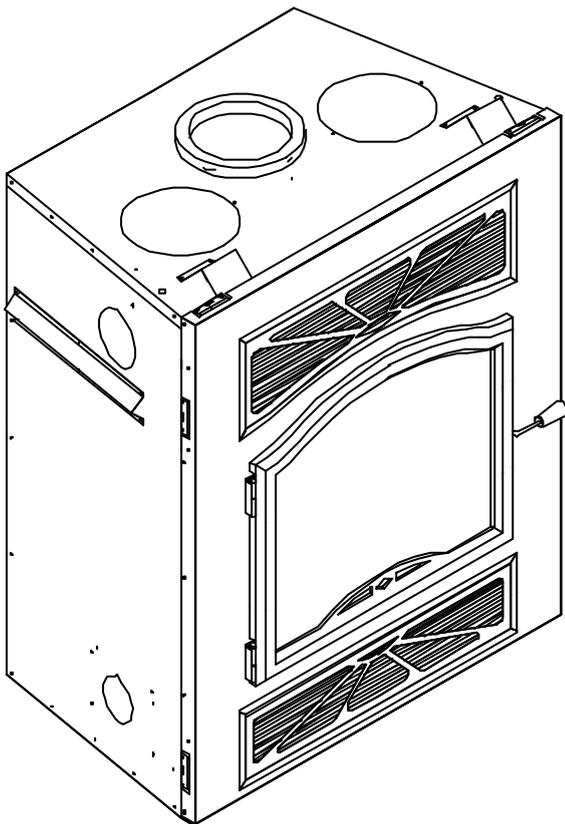




SECURITY CHIMNEYS
INTERNATIONAL


BIS
Panorama



Installation Instructions

This installation manual will help you obtain a safe, efficient, dependable installation for your fireplace and chimney system. Please read and understand these installation instructions before beginning your installation.

CAUTION: Do not attempt to modify or alter the construction of the fireplace or its components. Any modification or alteration of construction may void the warranty, listings and approvals of this system. In that case, Security Chimneys International Ltd will not be responsible for damages. Install the fireplace only as described in these instructions.

PLEASE RETAIN THIS MANUAL FOR
FUTURE REFERENCE

WARNING: The fireplace cannot be operated without a door. Consult your dealer to select the correct door model.



Listed to standards ULC-S610
UL-127

SECURITY CHIMNEYS INTERNATIONAL LTD

2125 Monterey St., Laval, Quebec, Canada, H7L 3T6 Tel.: (450) 973-9999

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PIBISPANA

25 YEAR LIMITED WARRANTY

Security Chimneys International Ltd. warrants to the original consumer-purchaser that the wood burning fireplace Model BIS PANORAMA 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.

This warranty shall be void if the fireplace is not installed in accordance with the installation instruction manual provided with the product and does not cover damage caused by misuse of the product. This 25 year warranty is limited to residential use of the product only.

WARRANTY LIMITATIONS:

1. During the first year of the limited warranty, Security Chimneys International Ltd. will provide replacement parts at no charge and will also pay for reasonable labour costs 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 years of the limited warranty, Security Chimneys International Ltd. will provide replacement parts (if available) at no charge, except for the parts listed below. ***Security Chimneys International Ltd. shall not be responsible for any labour costs.***

The following parts are guaranteed for ***one (1) year***: Blowers, ceramic glass.

The following parts are guaranteed for ***three (3) months***: Wood grate, refractories, firescreen, gaskets.

3. During the sixth through the twenty-fifth years of the limited warranty, Security Chimneys International Ltd. will provide replacement parts (if available) at 50% of the retail price, except the parts mentioned above. ***Security Chimneys International Ltd shall not be responsible for any labour costs.***
4. The following parts ***are not covered*** by the warranty: brass trims, panels, louvers.

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 which have been warranted herein is limited to 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.

Security Chimneys International Ltd. is not responsible for inadequate fireplace system draft caused by air conditioning, heating, mechanical system or general construction conditions which may generate negative pressure in the property.

The chimney is covered by a separate 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 which vary from state to state.

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

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SAFETY RULES FOR OPERATING YOUR FIREPLACE MODEL BIS PANORAMA

Warning: **An outside air kit must be installed** on the fireplace model BIS PANORAMA

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.

- Use only Security Chimneys International glass doors specifically designed for the model BIS PANORAMA 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.

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

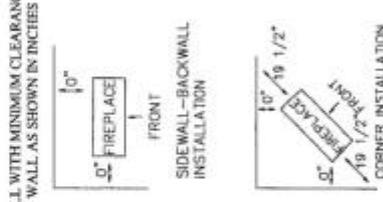
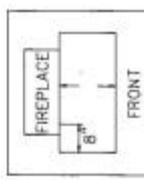
Caution: Burn untreated wood only. Other materials such as wood preservatives, metal foils, coal, plastic, garbage, sulphur or oil may damage the catalyst.

Caution: Do not operate without the catalytic combustor in place.

Caution: Never burn with the by-pass opened except for fire start-up and when reloading the stove.

WARNING: **THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED GAS LOG SET. TO REDUCE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET INTO THIS FIREPLACE.**

CERTIFICATION LABEL

| | | | |
|---|--|---|---|
| <p>Watlock Hersey CHIMNEYS</p> <p>TESTED TO ULC S610 / UL 127 TESTÉ SELON (October / Octobre 2000)</p> <p>CLEARANCES TO COMBUSTIBLES: SIDE WALL: 24" (610 mm) (FROM DOOR EDGE)</p> <p>MANTLE: 54" (1372 mm) ABOVE THE BASE OF THE FIREPLACE</p> <p>BACK WALL AND FIREPLACE SIDE: 0" (0 mm) (FROM SPACERS)</p> <p>ABOVE THE FIREPLACE: 6" (152 mm) (AU-DESSUS DE LA BASE DU FOYER)</p> <p>CHIMNEY: 2" (51 mm)</p> | <p>LISTED FACTORY BUILT FIREPLACE FOYER PRÉFABRIQUÉ HOMOLOGUÉ</p> <p>MODEL / MODÈLE: BIS PANORAMA</p> <p>PANO-</p> <p>DÉGAGEMENTS AUX COMBUSTIBLES: MUR LATÉRAL: 24" (610 mm) (DE L'OUVERTURE DE LA PORTE)</p> <p>LINTEAU: 54" (1372 mm) (AU-DESSUS DE LA BASE DU FOYER)</p> <p>MUR ARRÈRE ET CÔTÉ DU FOYER: 0" (0 mm) (DES ESPACES)</p> <p>AU-DESSUS DU FOYER: 6" (152 mm) (AU-DESSUS DE LA BASE DU FOYER)</p> <p>CHIMÈNÉE: 2" (51 mm)</p> | <p>FUEL: WOOD ONLY</p> <ul style="list-style-type: none"> NON COMBUSTIBLE HEARTH EXTENSION MUST BE INSTALLED AT FRONT OF UNIT EXTENDING 18 in (457 mm) AT FRONT AND 8 in (203 mm) TO SIDES OF DOOR OPENING. THIS FIREPLACE HAS NOT BEEN TESTED WITH UNVENTED GAS LOG SET. TO REDUCE RISK OF FIRE OR INJURY DO NOT INSTALL AN UNVENTED GAS LOG SET INTO THE FIREPLACE. ELECTRICAL RATING: 115 V, 60 Hz COMPONENTS USED WITH THE FIREPLACE MUST BE LISTED. SEE LIST IN THE INSTALLATION INSTRUCTIONS. REPLACE GLASS WITH CERAMIC GLASS 5 mm THICK. FOR SAFE OPERATION INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS CAUTION: COMBUSTION AIR OPENING MUST NOT BE OBSTRUCTED DO NOT OVERFIRE THE FIREPLACE OPERATE THE FIREPLACE WITH DOORS FULLY OPEN OR FULLY CLOSED ONLY. <p>CONTACT YOUR LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTIONS IN YOUR AREA.</p> | <p>COMBUSTIBLE: BOIS SEULEMENT</p> <p>UN TABLIER NON COMBUSTIBLE DOIT ÊTRE INSTALLÉ À L'AVANT DU FOYER EXCÉDANT DE 18 po (457 mm) À L'AVANT ET 8 po (203 mm) DES CÔTÉS DE L'OUVERTURE DES PORTES. MAINTENIR LES MEUBLES ET AUTRES OBJETS À UNE DISTANCE SÉCURITAIRE DU FOYER</p> <p>ALIMENTATION ÉLECTRIQUE: 115V, 60 Hz</p> <p>UTILISER SEULEMENT AVEC UNE CHIMÈNÉE 7 po (178 mm) DE DIAMÈTRE, MODÈLE ASHT*, S2100*, HT6000*, HT6100* OU AC HOMOLOGUÉE.</p> <p>LES COMPOSANTES UTILISÉES AVEC LE FOYER DOIVENT ÊTRE HOMOLOGUÉES. VOIR LA LISTE DANS LE MANUEL D'INSTALLATION.</p> <p>REMPLACER LA VITRE AVEC UN VERRRE CÉRAMIQUE DE 5mm D'ÉPAISSEUR.</p> <p>POUR UNE UTILISATION SÉCURITAIRE, INSTALLER CONFORMÉMENT AUX DIRECTIVES DU FABRICANT.</p> <p>ATTENTION: NE PAS OBSTRUER LES ARRIVÉES D'AIR COMBURANT.</p> <p>NE PAS FAIRE SURCHAUFFER LE FOYER.</p> <p>LES PORTES DU FOYER DOIVENT DEMURER TOTALEMENT OUVERTES OU TOTALEMENT FERMÉES LORSQUE LE FOYER FONCTIONNE.</p> |
| <p>INSTALL WITH MINIMUM CLEARANCES TO WALL AS SHOWN IN INCHES</p>  <p>FRONT: 10"</p> <p>SIDE WALL - BACK WALL INSTALLATION: 10"</p> <p>CORNER INSTALLATION: 10" FRONT, 19 1/2" SIDE, 1" BACK WALL</p> | <p>INSTALL AND USE ONLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LOCAL BUILDING CODES.</p> <p>CHEMNEY TYPE: USE ONLY LISTED CHEMNEY MODEL, ASHT*, S2100*, HT6000*, HT6100*, AC, 7 inches.</p> <p>SPECIAL METHODS ARE REQUIRED WHEN PASSING THROUGH A WALL OR CEILING. SEE INSTRUCTIONS AND BUILDING CODES.</p> <p>PREVENT CREOSOTE FIRE INSPECT CHIMNEY CONNECTOR AND CHIMNEY FLUE MONTHLY AND CLEAN IF NECESSARY. DO NOT OVERFIRE IF DOME OR CHIMNEY CONNECTOR GLOWS YOU ARE OVERFIRING.</p> <p>KEEP FURNISHINGS AND OTHER COMBUSTIBLE MATERIALS A MINIMUM CLEARANCE AWAY FROM APPLIANCE.</p> | <p>SECURITY CHIMNEYS INTERNATIONAL LTD</p>  <p>CHEMINÉES SÉCURITÉ INTERNATIONAL LTÉE</p> <p>LAVAL, QUÉBEC, CANADA.</p> | <p>FLOOR PROTECTOR MINIMUM DISTANCE FROM OPENING IN INCHES</p>  <p>FRONT: 8"</p> <p>HEARTH EXTENSION MATERIAL: - 3/8" THICKNESS NON COMBUSTIBLE MATERIAL - OR EQUIVALENTS</p> <p>NP241 Rev. 0</p> |
| <p>DATE OF MFG.</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 2000-01-02-03-04-05-06</p> | | | |

THE FIREPLACE

INTRODUCTION

The BIS PANORAMA fireplace is an energy efficient, heat circulating, close combustion fireplace using the catalytic technology. 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 PANORAMA 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.

Parts Required

- Fireplace model BIS PANORAMA
- Door set
- Louver set (Del Sol, Diamante, Fiori or Luna)
- 7" diameter chimney model ASHT+, S-2100+, HT6000+, HT6103+ or AC manufactured by Security Chimneys International only, including:
 - Chimney lengths
 - Elbows (where necessary)
 - Radiation shield, Attic radiation shield
 - Roof flashing
 - Rain cap
 - Supports (if necessary)
- 7" diameter TUBINOX (or PROJET SS) and masonry adaptor kit for masonry applications
- Outside air kit

Additional Equipment (optional)

- 5" flexible venting system (central forced air kit – Not EPA approved)
- Gravity venting system
- Cast iron ornaments
- Panel for clean face option (only with gravity venting system)
- Tiling flange kit
- Fireplace fan kit

OPERATING THE BIS PANORAMA

Fuel

The BIS PANORAMA 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. Excessively wet wood will be difficult to burn and will result in lower efficiency, increased creosoting and plugging of the catalytic combustor. 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 can shorten the life of the catalytic combustor. 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. Overheating the unit above 1000° C (1800° F) is harmful for the catalytic combustor, it can damage the catalyst coating and can cause cracking of the substrate. Looking through the upper louvers, if the top of the firebox is glowing, the unit is overheating,

First Fires

Before using the fireplace make sure to remove the plastic wrapping on the doors. 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. Ashes that will accumulate in the ashtray will protect it from intense heat. 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.

Catalytic Combustor

The BIS PANORAMA is equipped with a catalytic combustor. Unburned by-products of the wood fire are burned at lower temperatures as they pass through the combustor resulting in less pollution, reduced creosote and higher efficiency. In order to have the catalyst working, temperatures of the flue gases entering the combustor have to be higher than 260 °C (500 °F). That is why the unit is equipped with a by-pass damper that allows the draft air to by-pass the catalytic combustor. Opening the by-pass damper control increases the draft allowing the unit to achieve proper operating temperatures during a cold start-up. It also provides more draft to prevent smoke spillage when the door is opened. When the catalyst light-off conditions are achieved, the combustor will keep on going until it runs out of smoke. Note that the catalyst does not need to be glowing to be working, it can work very well at temperatures well below the 538 °C (1000 °F) level at which it will begin to glow. The best way to see if the catalyst is active is to take a look at what is coming out of the chimney. If the catalytic combustor is working you can will some white water vapour coming out, compared to a more brown/grey smoke when the by-pass is opened. Do not burn any chemical chimney cleaner; it can make the catalyst inactive.

Combustion Control

There is no flue damper in the BIS PANORAMA. As is common with air tight stoves, the combustion air damper controls the air entering the firebox. This allows for a more precise control of the fire. The combustion air damper knob is located on the left of the bottom louver. It is opened when moved completely to the left. This control should be in the closed position when the fireplace is not in use. This will minimise air leakage up the chimney. **The combustion air control and the by-pass damper control must be opened before opening the door to minimise the possibility of back draft coming into the room.**

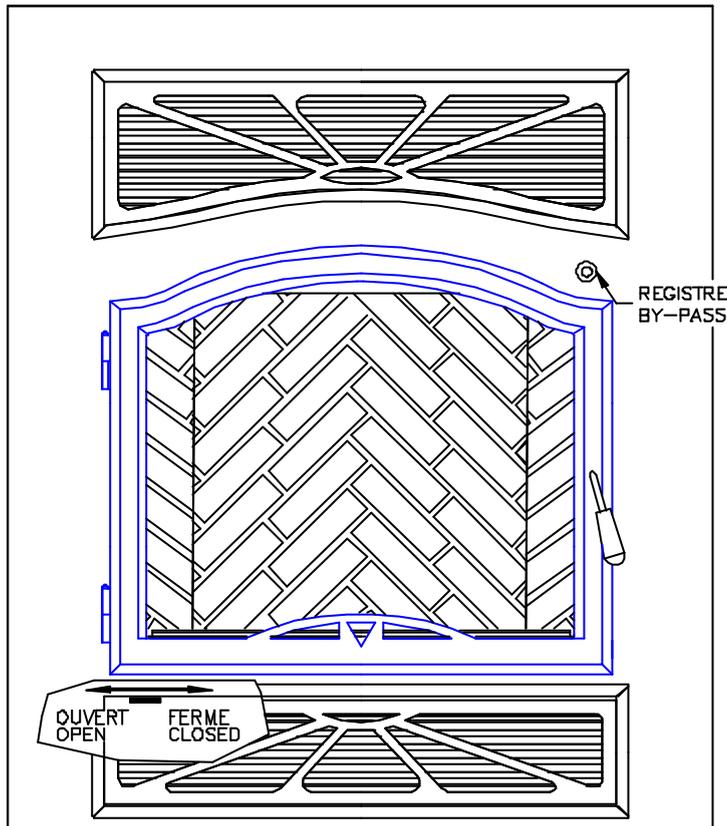
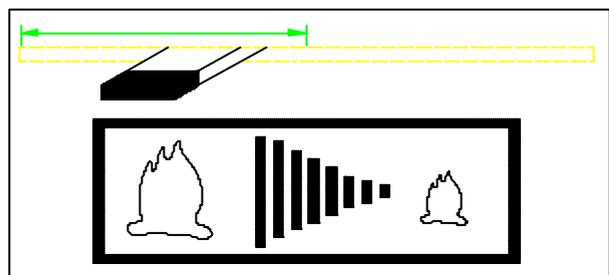


Figure 1

Accelerated Combustion

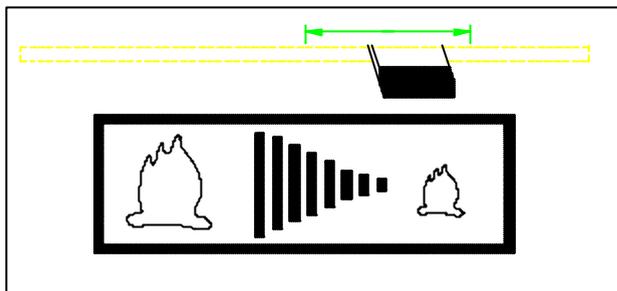
The maximum heat output for the BIS PANORAMA is achieved by burning with the combustion air damper opened. By this method, the BIS PANORAMA can produce up to 70,000 BTU of heat per hour. However, it will be necessary to reload with wood every one or two hours. This is the least efficient method of burning the BIS PANORAMA.



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 and catalytic combustor.

Medium Combustion

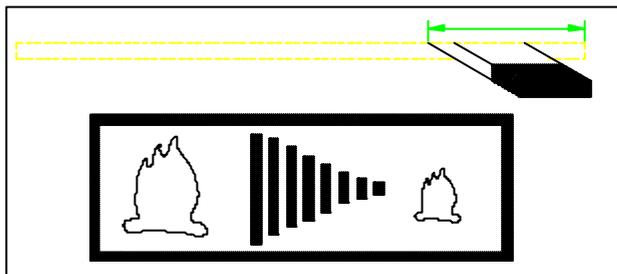
This is the recommended mode of operating the BIS PANORAMA and should be the one normally used since it will deposit the least amount of creosote on the glass and in the chimney. The combustion air damper must be $\frac{3}{4}$ closed. The precise setting will depend on many factors, including chimney 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 $\frac{1}{2}$ to $\frac{3}{4}$. Three medium size pieces of wood should be burning on a bed of hot coals. The heat output will be approximately 35,000 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.

Slow Combustion

When the air combustion damper is closed, the fireplace is in a slow combustion phase. 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).



Creosote may accumulate on the glass doors. This method of burning should be used only after operating the BIS PANORAMA with the air control opened to produce a hot fire for about an hour. Slow combustion can be used at night in order to reduce the heat output and prolong the burn. The loading time will be between 6-10 hours.

Starting And Maintaining a Fire

- Step 1 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.
- Step 2 Open the air control fully and pull the by-pass damper control towards you to put it in the OPEN position. Light the newspaper. Leave the door open until the fire is well established.
- Step 3 Once the kindling fire is well established, add increasingly larger pieces of cordwood until the fire is actively burning. Close the door and maintain an accelerated combustion air set up in order to achieve combustor light-off conditions.
- Step 4 When the fire is burning well, close the by-pass damper control by pushing the control rod in. It takes about 25 – 30 minutes with the by-pass opened to reach proper light-off temperatures for the catalytic combustor.

Step 5 Set the air control at the desired setting.

The unit will burn best with 2-3 pieces of cordwood spaced 1 to 2 inches apart and allowing air to get under the fuel. Criss-crossing or arranging the fuel so that air can get underneath, will help the fire get started easily.

Refuelling for Best Performance

To refuel the BIS PANORAMA at the end of a burn cycle only hot embers remain and flames are gone (not enough heat to maintain catalyst operating temperatures):

Step 1 Open the by-pass and air controls fully.

Step 2 Open the door approximately 1 inch and wait five seconds until the draft is stable. Then open the door completely, load the fuel and close the door.

Step 3 Keep the combustion air damper and the by-pass damper opened for 10 minutes before closing it. It will ensure sufficient temperatures for combustor light-off.

To refuel the BIS PANORAMA when the unit is still hot (Some burning fuel remaining or a glowing combustor)

Step 1 Open the by-pass and air controls fully.

Step 2 Open the door approximately 1 inch, wait five seconds until the draft is stable and then open it completely. Load the fuel, close the door and by-pass. (temperatures within the firebox should be enough to maintain catalytic operation)

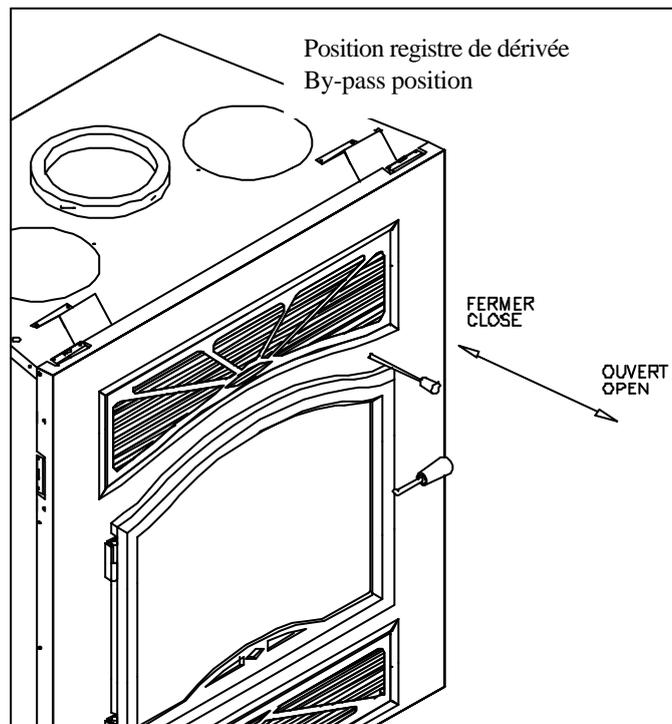


Figure 2

Smoking – Causes and Troubleshooting

To reduce the likelihood of smoking when opening the doors, set the air damper to the "accelerated combustion" position and open the by-pass damper before opening the doors. 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 does continue to smoke, it is probably for one of the following reasons:

1. The door is partly open

Open the door fully.

2. 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 PANORAMA, open a nearby window temporarily to check if the is adequate air replacement.

3. 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.

4. Wet wood

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

5. Dirty or blocked chimney

Check to make sure the chimney is clear and reasonably clean.

6. 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.

7. 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.

8. Blower for central forced air kit operating (Not EPA approved)

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

Important Notes

1. Do not block the hot air vents to the fireplace as this will cause the fireplace to overheat.
2. Never start a fire using gasoline, kerosene, charcoal lighter fluid or any other combustible liquid.
3. Do not burn coal. The sulphur in coal will corrode the firebox.
4. Do not burn driftwood which has been in the ocean or salt water. The salt will corrode the firebox and chimney.
5. Do not operate the unit with the door partly open since this may cause smoke to be drawn into the room.
6. Do not burn wood in the area in front of the log retainers.
7. Do not abuse the unit by burning paper, or cardboard or construction material such as pressed wood, plywood or lumber.
8. Do not allow the wood to smoulder or burn without flame, since this will produce excessive creosote in the unit.

MAINTAINING YOUR BIS PANORAMA

Creosote

When wood is burned slowly, it produces tar and other organic vapours 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 minimised by making small hot fires rather than slow burning, smouldering fires and by proper refuelling techniques.

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:

1. Initially inspect the chimney system weekly. From this, you will learn how often it will be necessary to clean your chimney.
2. 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.
3. Do not expect chemical cleaners to keep your chimney clean. The rain cap can be removed for inspection and/or cleaning of the chimney. Using gloves, firmly grip the lower portion of the rain cap. Turn the cap 1/8 of a turn counter-clockwise and lift it off the chimney.

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 doors and the combustion air damper.
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.

Catalytic Combustor

The BIS PANORAMA is designed with a catalytic combustor which will reduce pollution emissions and creosote build up while improving thermal efficiency. In order to optimise and maintain the combustor performance, it is important to visually check the combustor at least 3 times during the heating season to determine if physical degradation has occurred.

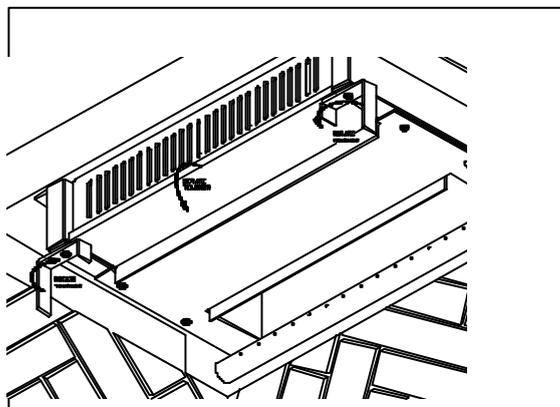
Catalytic combustors require little maintenance. Cleaning the combustor once a year, preferably when your flue system is serviced, is sufficient for most users.

Warning : To prevent damage to your combustor, **do not**

- Drop the combustor (which is fragile compared to the rest of the unit – so handle with care)
- Run water or compressed air through the combustor
- Try to clean the combustor with any sharp tool

Cleaning Procedure:

1. Rotate the retainers to release the combustor support plate while holding it to make sure it does not drop.
2. Rotate the support plate and remove the combustor.
3. Remove fly ashes on the combustor using a soft brush.
4. Put the combustor back in place.



Door Frame Care

Use a glass cleaner and a soft cloth to polish the frame. Do not use abrasives such as steel wool or steel pads for they may scratch the door frame finish.

Ashes

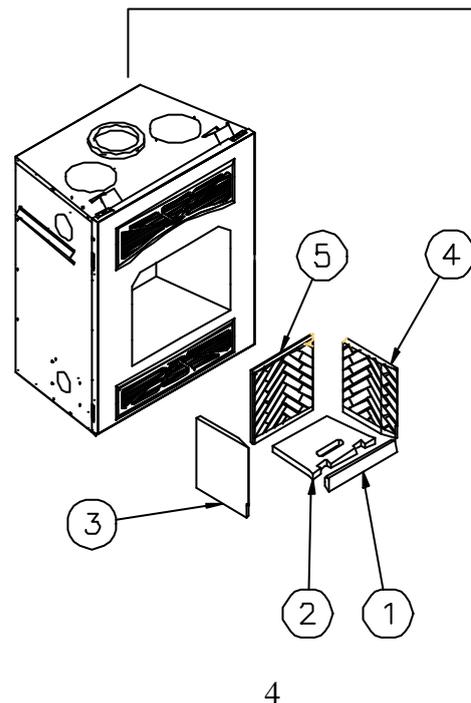
Remove ashes only when the fire is out and the ashes are cold (24 to 48 hours after the fire is out) Open the bottom louver and the doors, lift the door trap lever, remove the plug on the door trap of the ashtray using gloves or a poker. Sweep the ashes in the opening with a brush or any similar tool. Reinstall the plug on the door trap and pull down the lever.

Refractory Replacement

The intense heat of the fire will normally cause hairline cracks in the refractory. These cracks can be minimised 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 refractory
2. Remove the bottom refractory
3. Remove the left side refractory
4. Remove the right side refractory
5. Remove the back refractory

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



Figure

Door Installation

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

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

The adjustment of the door has been set at the factory. If the fit is still not perfect, you can adjust the door using the hinge screws (see fig.6).

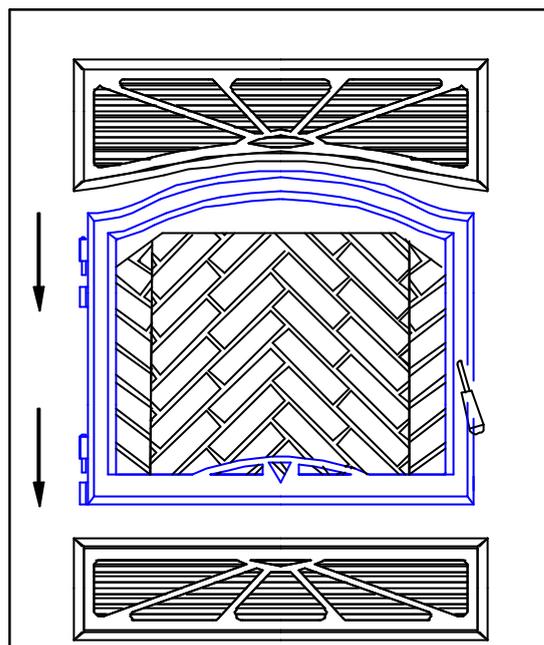


Figure 5

Door Adjustment

The door may need to be adjusted to be completely airtight. The gasket airtightness can be adjusted using the adjustment screw located on the fireplace façade at the bottom of the fireplace opening. (An Allen key # 1/8 will be necessary for adjustment).

Glass Care - Replacement

The glass used for the BIS PANORAMA is a high temperature ceramic glass. If the glass breaks, it must be replaced with a ceramic glass. Tempered glass or ordinary glass will not withstand the high temperatures of the BIS PANORAMA. Replacement ceramic glass should be purchased from a Security Chimneys International dealer. Do not operate the unit with cracked or broken glass.

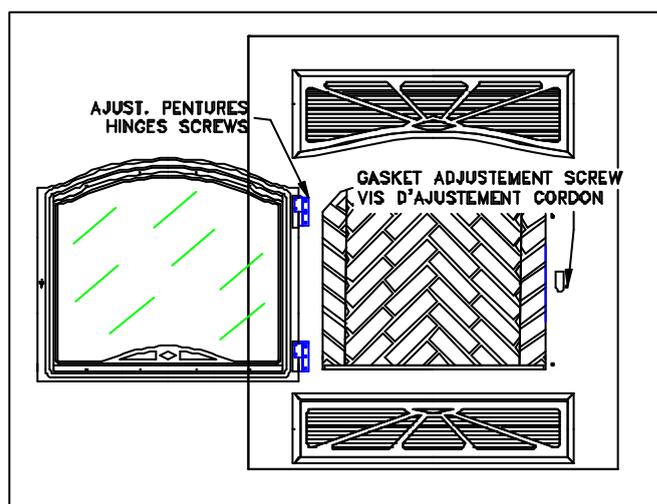


Figure 6

Glass Care - Cleaning

The BIS PANORAMA is designed to keep the glass clean under normal operating conditions. If the BIS PANORAMA is operated continuously with the combustion air damper 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 authorised Security Chimneys International 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.

Gasket Replacement

Remove the door from the unit (see page 14) and lay it 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 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 Chimneys International dealer in the following dimensions:

| <u>Gasket</u> | <u>Length</u> | <u>Dimensions</u> |
|----------------------|----------------------|--------------------------|
| Around glass | 83" | 5/16" dia. |
| On door frame | 92" | 5/8" dia. |
| Around ash trap | 8" | 2" wide x 1/4" thick |

FIREPLACE INSTALLATION

Locating the BIS PANORAMA

1. The best place to install your fireplace is determined by considering the location of windows, doors, and the traffic flow in the room where the fireplace is to be 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 17).
2. 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 38" X 24 ½". Note the floor construction and consult your local building code to determine if additional support is needed.
3. A minimum of 7' (2134 mm) measured from the floor to the ceiling is required to install the BIS PANORAMA. The appliance can be installed on a combustible floor or on a base of up to 4 inches (maximum), leaving at least 6'8" (2032 mm) from the base of the unit to the ceiling.

Hearth Extension Requirements

The fireplace can be installed directly on a combustible floor. Combustible floor in front of the fireplace must be covered with tile, marble, stone or any other non-combustible material (fig. 7).

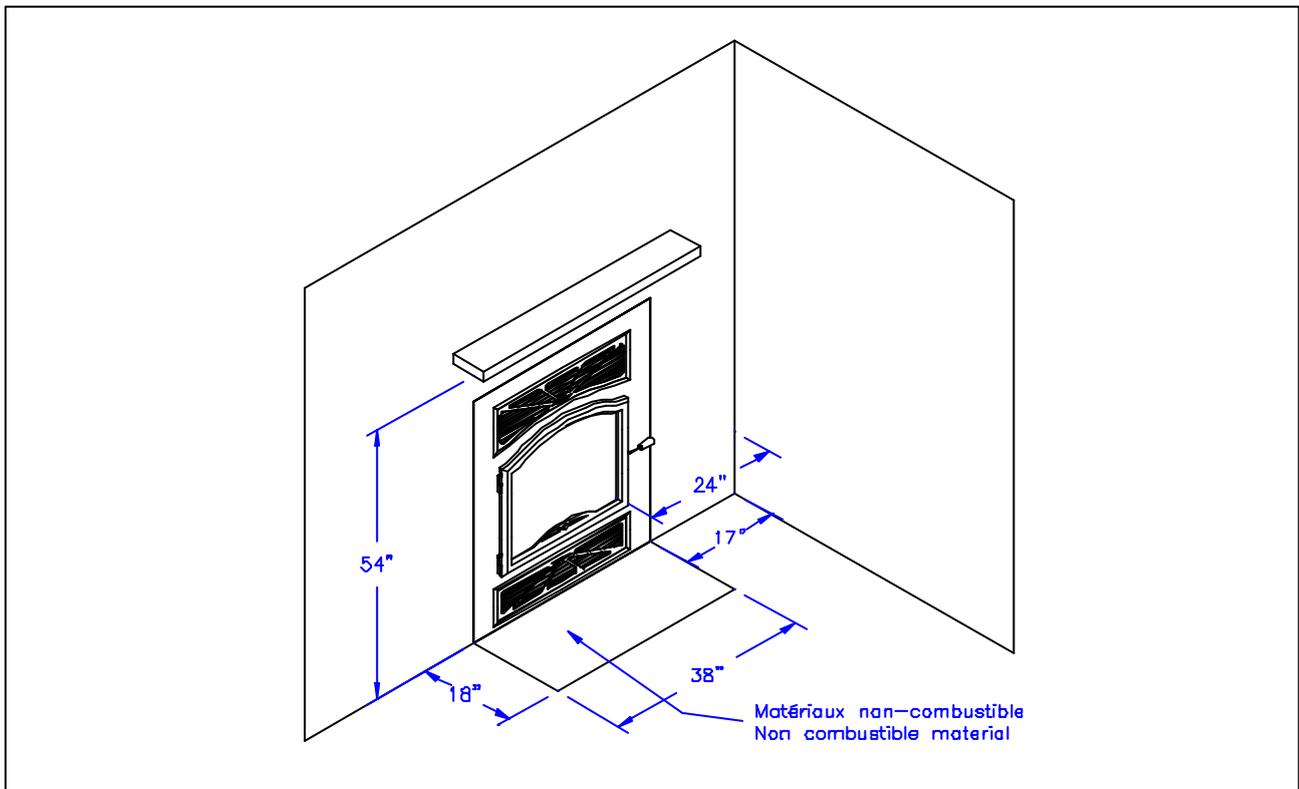


Figure 7

Framing, Facing and Mantel

The construction of the framing, facing, and mantel must be in accordance with the standards and the following illustrations (figures 8 to 12):

1. Frame the fireplace using 2" x 3" or heavier lumber.
2. **WARNING:** Combustible materials cannot be used in the space directly above the fireplace (except for framing on the front facing). This area must remain empty for **a height of 6'8" (2032 mm) measured from the base of the appliance.**
3. Frame the fireplace with vertical studs at the sides of the fireplace running from floor to ceiling (see figure 8). 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.
4. **The fireplace cannot be in contact with the house insulation material. Cover the insulation with Gyproc panels around the fireplace.**

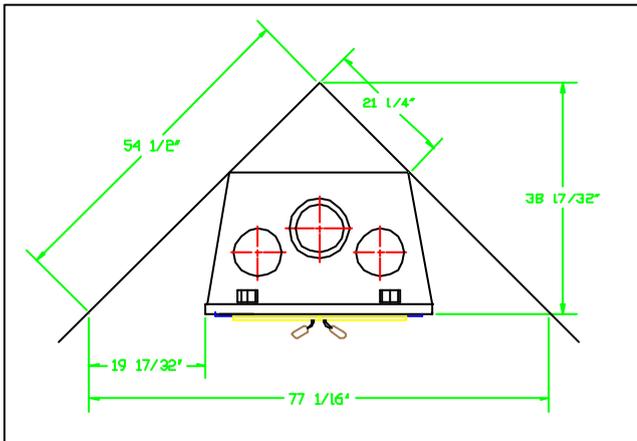


Figure 8

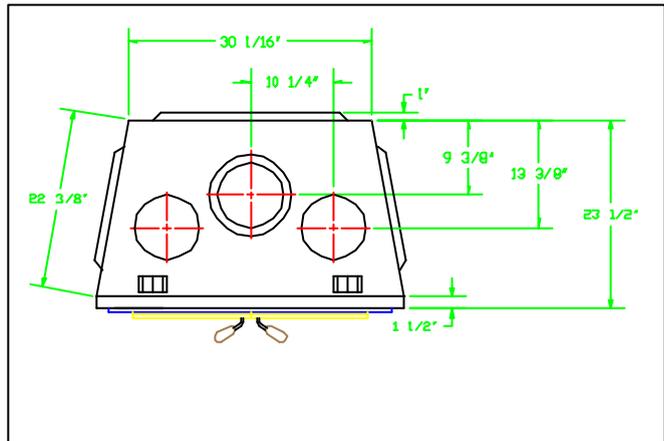


Figure 9

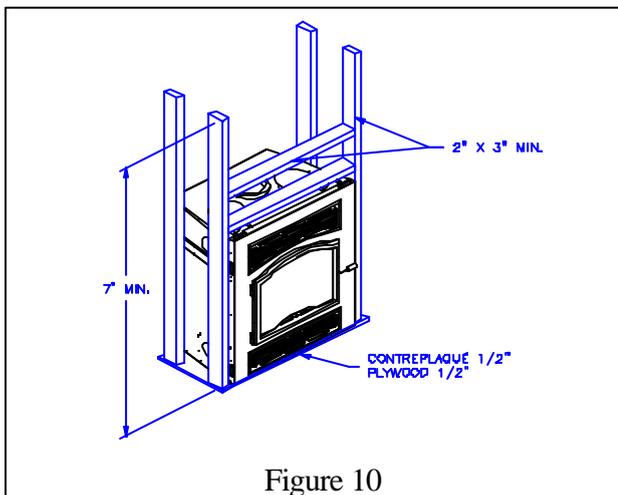


Figure 10

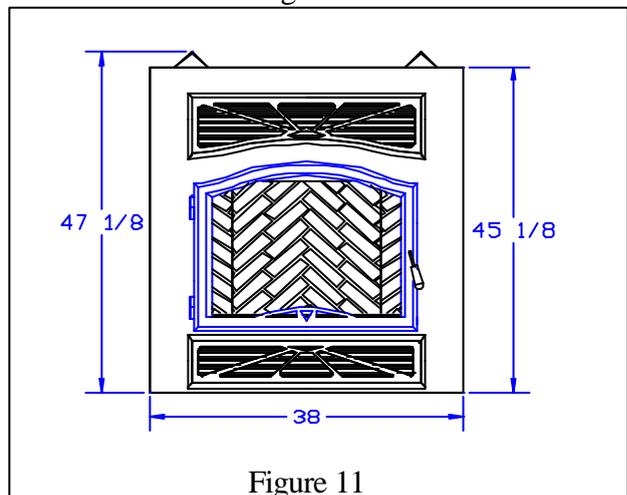


Figure 11

INSULATED CHASE CONSTRUCTION

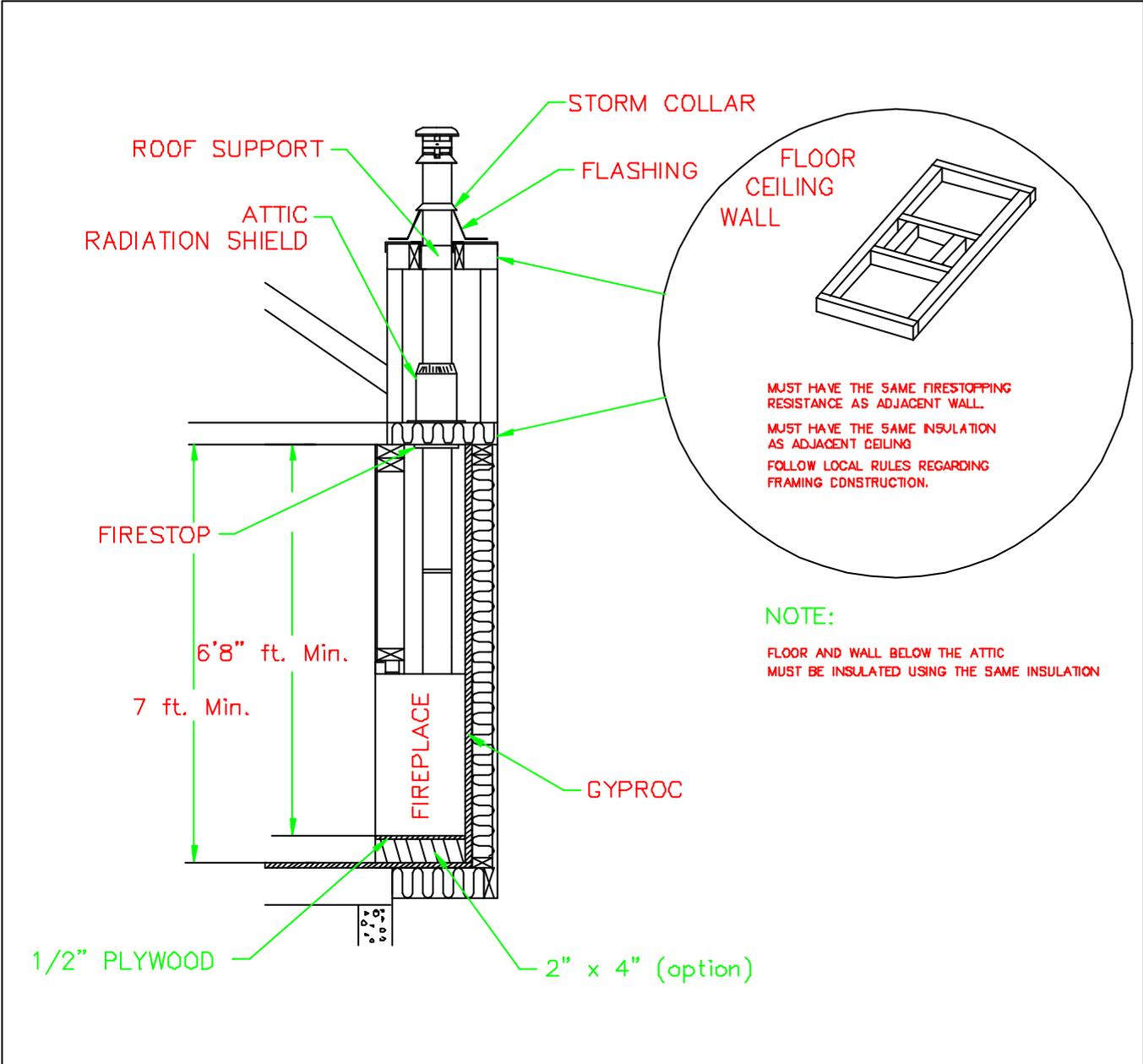


Figure 12

Facing

1. Combustible wall (such as Gyproc) must be installed flush with the fireplace. It may not project in front of and on the fireplace (i.e. the steel façade of the fireplace) (figure 15).
2. Decorative frame made of combustible material cannot project in front of and on the fireplace steel front, in the space delimited by the width of the unit (38") and a height of 54" from the base of the appliance. (figure 15).
3. Non-combustible materials such as brick, stone or ceramic tile may project in front of and onto the fireplace facing (figure 14).

Mantel

The mantel must be installed at least 54" (1372 mm) above the base of the fireplace (figure 13).

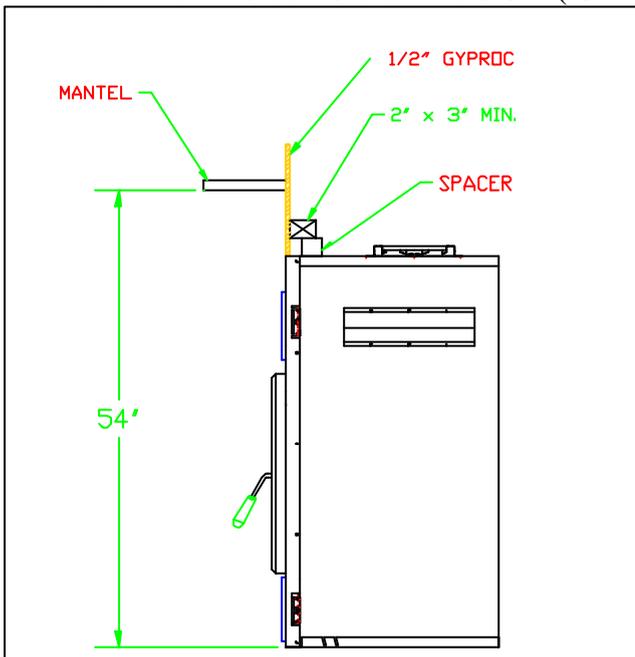


Figure 13

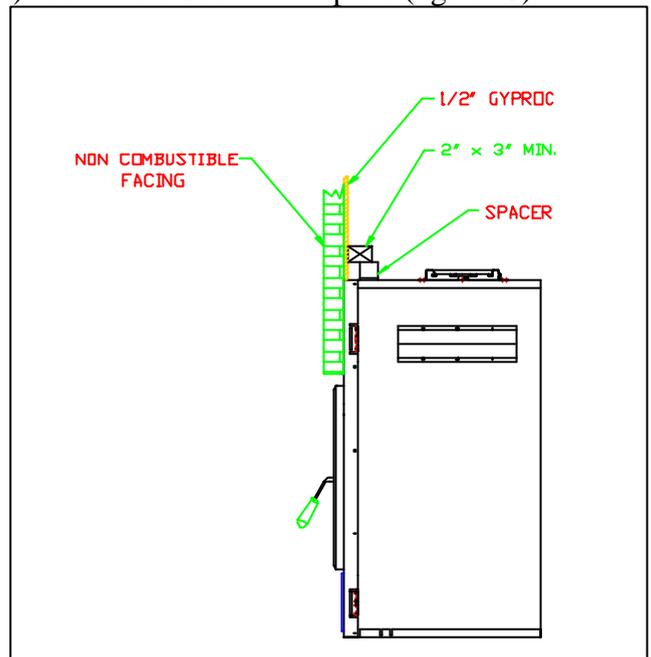


Figure 14

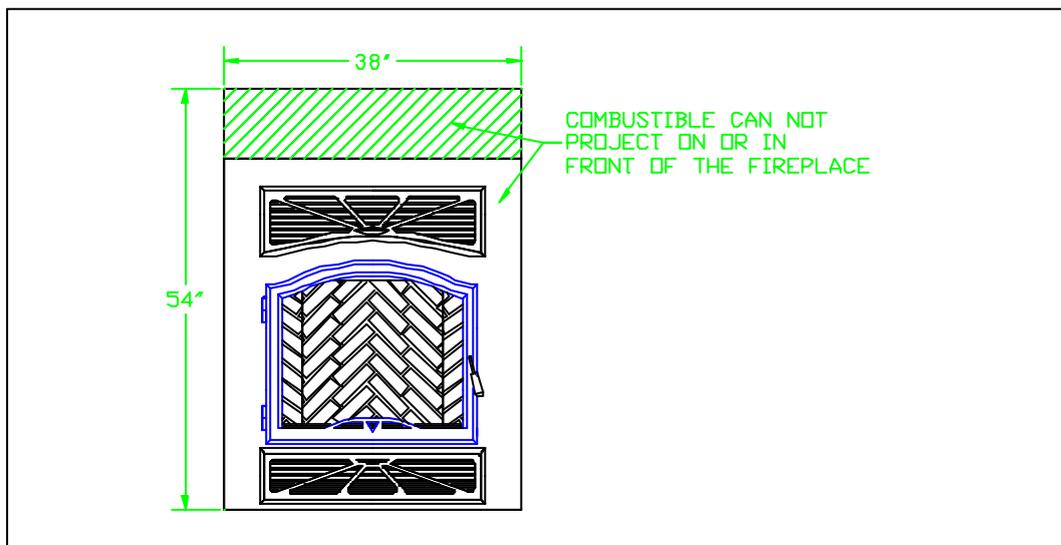


Figure 15

HOT AIR DUCTING INSTALLATION

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

- Gravity kit
- Forced air kit (Not EPA approved) (p. 23)

Gravity Kit

Two kits are available :

1. Single hot air outlet including: (see Fig.16)
 - 2 6" lengths 8" I.D.
 - 1 hot air outlet kit (box, louver and frame)
 - 2 adaptors
2. Double hot air outlet including: (See Fig.17)
 - 2 telescopic lengths 8" I.D.
 - 2 90° elbows 8" I.D.
 - 2 hot air outlet kits (louvers and frames)
 - 2 adaptors

See components list page 37.

The only fan that can be used with the gravity kit is the UZY3.

The gravity kit allows you to block the upper grill of the fireplace. To do so, follow the steps below:

- a) Remove the upper grill and its frame from the fireplace.
- b) Install the black panel (BPCF) making sure that the insulation strip is installed inside.
- c) The fireplace façade can be covered with non-combustible material (fig. 20).

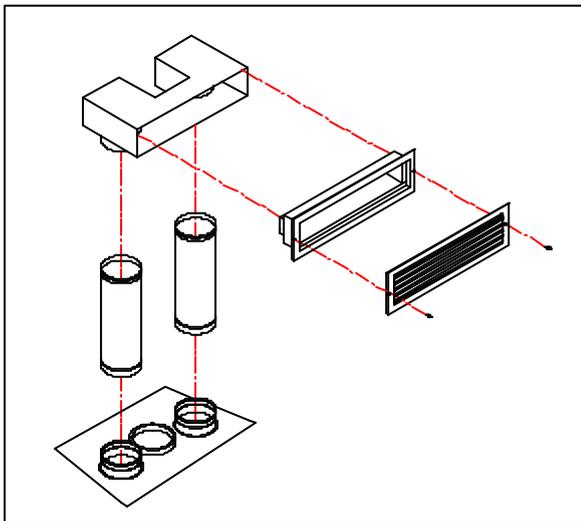


figure 16

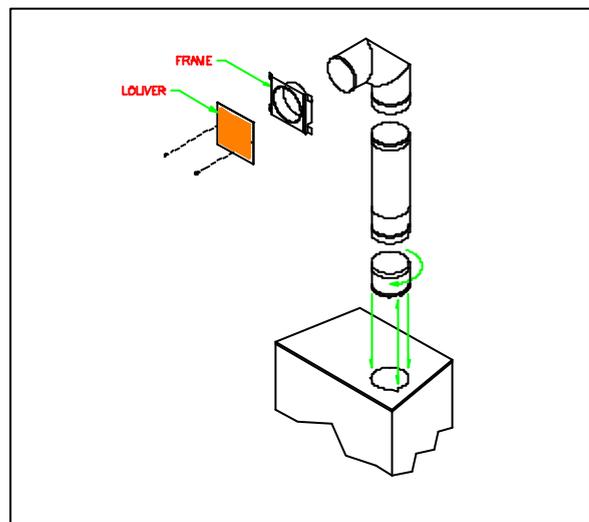


figure 17

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 PANORAMA 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 1/2 (89 mm) of extension is provided by the single outlet system (see figure 19).

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 18).

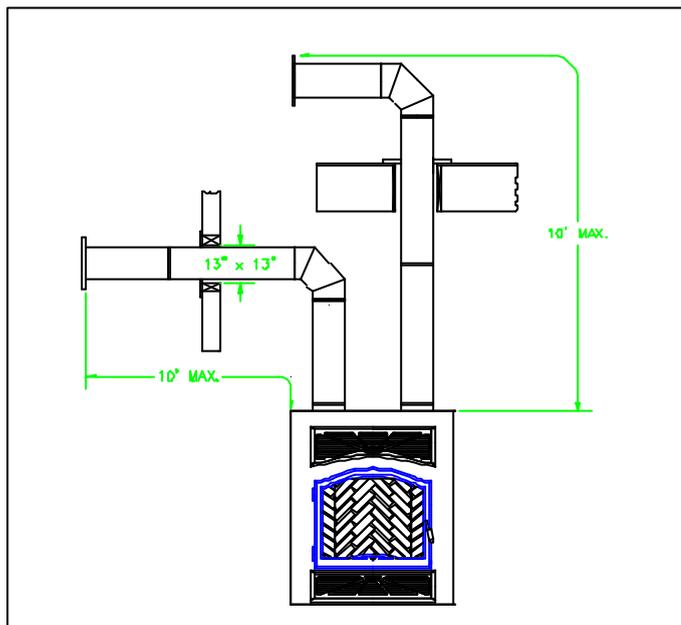


Figure 18

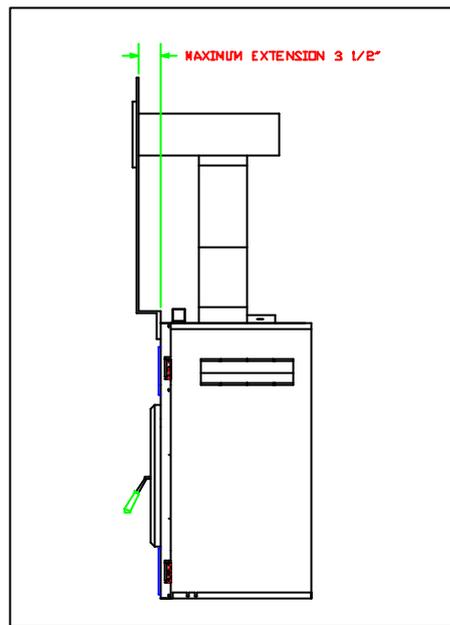


Figure 19

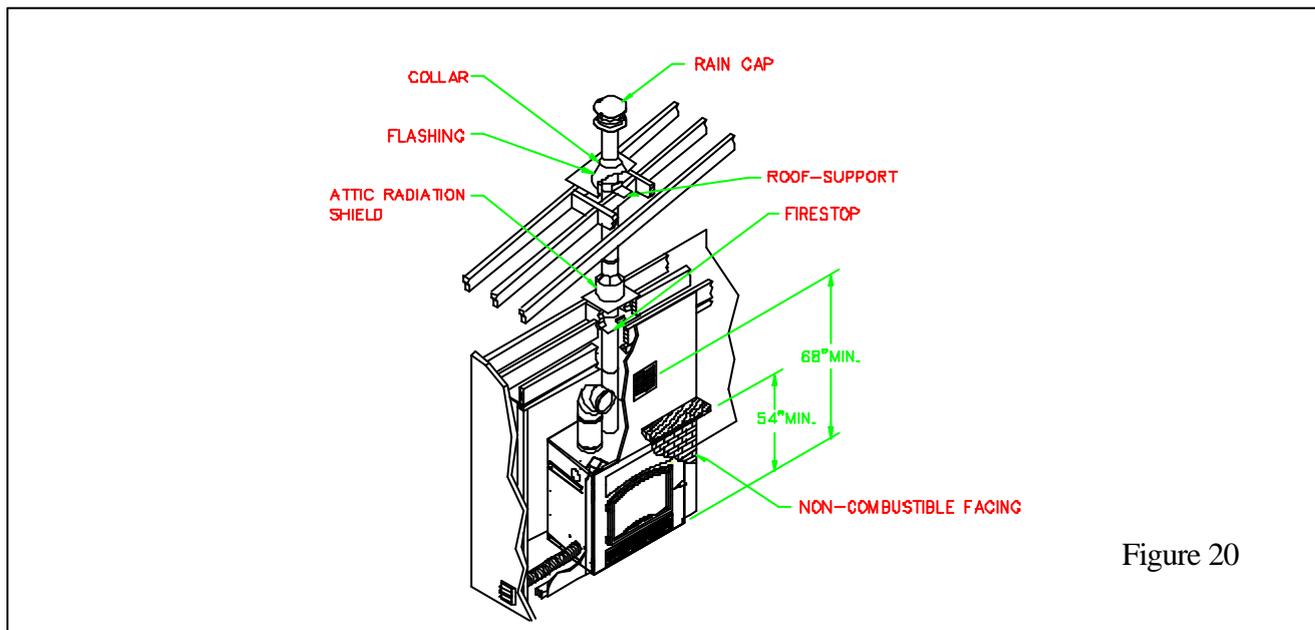


Figure 20

The duct system must be installed respecting the following:

1. Remove the plates closing up the 8" dia. holes on top of the fireplace. Then, cut the insulation in order to obtain two 8" dia. openings. Fix the adaptors on the fireplace openings by turning clockwise (figures 16 and 17).
2. Maintain at least a 2" (50mm) 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 ³/₄ x 10 ³/₄ (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 ¹/₄" x 32 ¹/₄" (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 ¹/₂ (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 PANORAMA hot air exhaust. For this type of installation refer to '**Central Forced Air Kit**' on the next page.
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 try to 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.

Central Forced Air Kit (Not EPA approved)

The knock-outs provided on the back and on the sides of the BIS PANORAMA 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:

1. 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 21).
2. Attach the 5" flexible pipe, using the collars provided. Important: Make sure that the plastic wrapping around the flexible pipe will not be in contact with the fireplace.
3. Route the flexible pipe to the chosen location. The ducting system can be installed either in an upper room or in a lower room.
4. Attach the flexible pipe to the fan, using the collars (figure 22).
5. Fix the decorative grill fan adaptor to the fan.
6. Attach a standard 3" x 10" grill to the adaptor.
7. Install the *blower thermostat* in that part of the house to be heated by the hot air duct. Do not install the blower thermostat in the room where the fireplace is located. A *cooling thermostat* can be 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.

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 23).

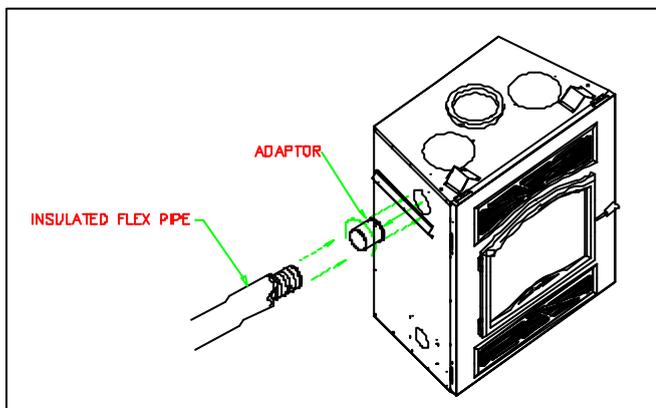


Figure 21

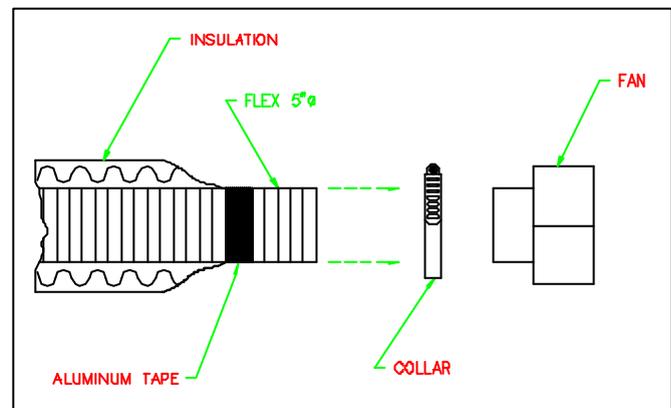


Figure 22

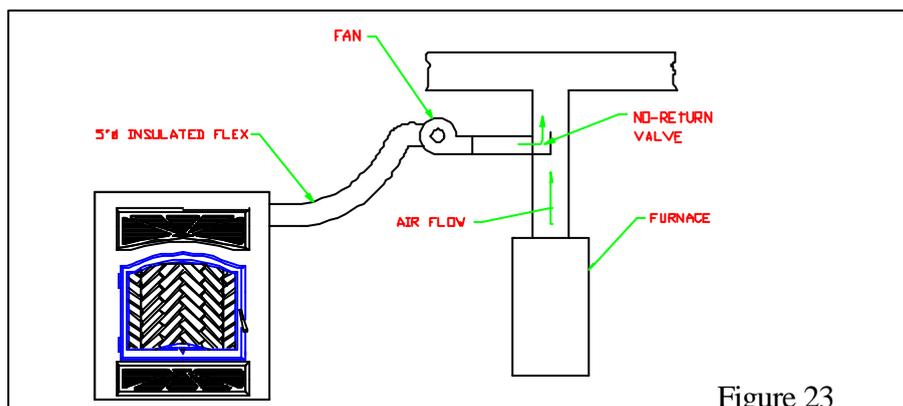


Figure 23

OUTSIDE AIR KIT

During operation, the fireplace requires fresh air for combustion and draws air from outside the house. It may starve other fuel burning appliances such as gas or oil furnaces. As well, exhaust fans may compete for air, causing negative pressure in the house, resulting in smoke entering the house from the fireplace. This situation is aggravated in modern airtight houses. To overcome this potential problem, we **require the installation of an outside air assembly.**

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

1. Duct length should be kept to a minimum. The maximum length of duct is 20 ft. (6.1 m).
2. The air intake register must not be installed more than 7 ft. (2135 mm) above the base of the fireplace.
3. The fresh air must come from outside the house. The air intake must not draw air from the attic, from the basement or garage.
4. The air intake register should be installed where it is not likely to be blocked by snow or exposed to extreme wind and well away from automobile exhaust fumes, gas meters and other vents.
5. The duct and register may be installed above or below floor level.

Outside Air Installation

Make a 4 ¼" (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.

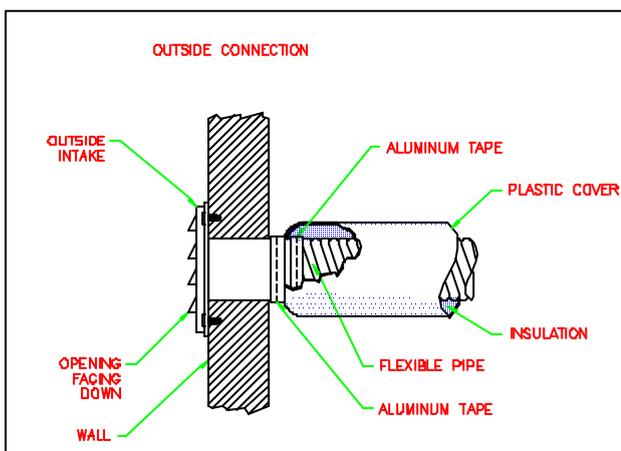


Figure 24

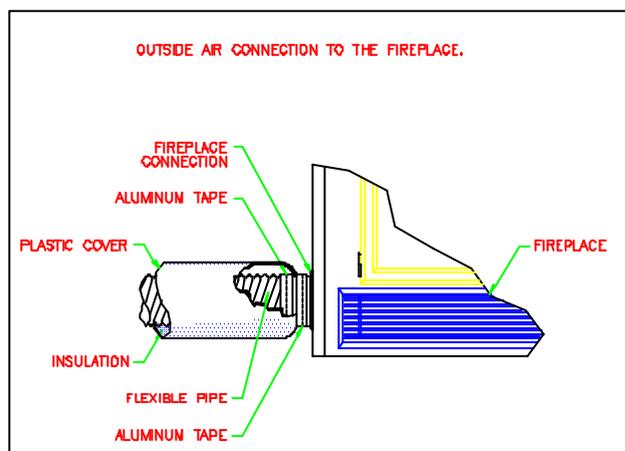


Figure 25

THE CHIMNEY

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 draft, 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 PANORAMA is listed only with Security Chimneys International Ltd 7" dia. 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).
5. All chimney installations must include at least one support. The maximum chimney length that can be supported by the fireplace is 9 ft. (2.75 m) for S2100+ / HT6000+, 12 ft. (3.7 m) for ASHT+ / HT6103+ and 26 ft. (8m) for AC chimney. In altitude, add 18" (450 mm) to the chimney for every 2000 feet (600 m) above sea level.

Note: In areas where winter temperatures are normally below freezing, the air cooled chimney may produce condensation. This condensation may corrode the top of the fireplace and is not covered under warranty. For optimum performance of your fireplace, Security Chimneys International recommends the use of an ASHT+ / HT6103+ or S2100+ / HT6000+ 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.

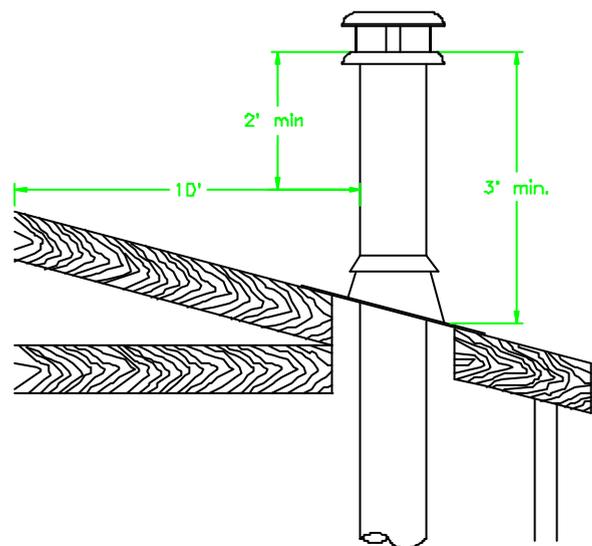


Figure 26

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 centre of the holes. The sizes are indicated in table 1 for the floor and ceiling holes and table 2 (page 28) for the roof holes.

| CHIMNEY MODEL | SQUARE HOLE SIZE OPENING |
|----------------|--------------------------|
| ASHT+/HT6103+ | 13 3/8" (314 mm) |
| S2100+/HT6000+ | 15 1/8" (359 mm) |
| AC | 15 " (380 mm) |

Table 1

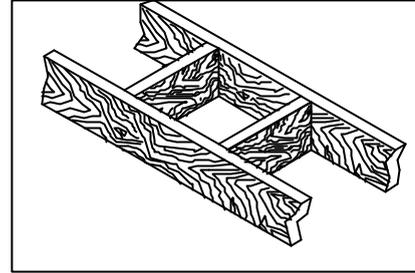


Figure 27

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 S2100+ / HT6000+ chimneys, place the first chimney length on the fireplace. To lock it in place, turn ¼ 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.

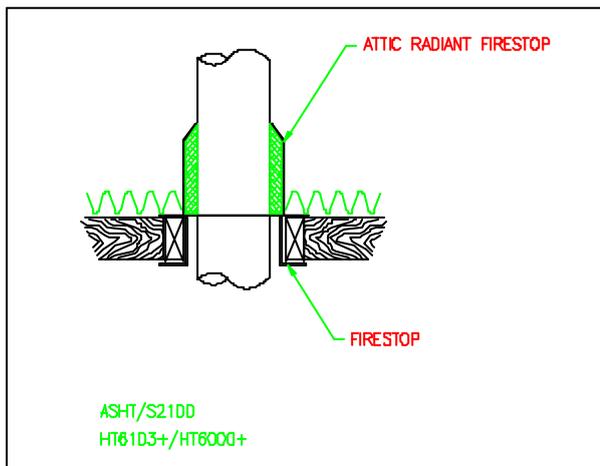


Figure 28

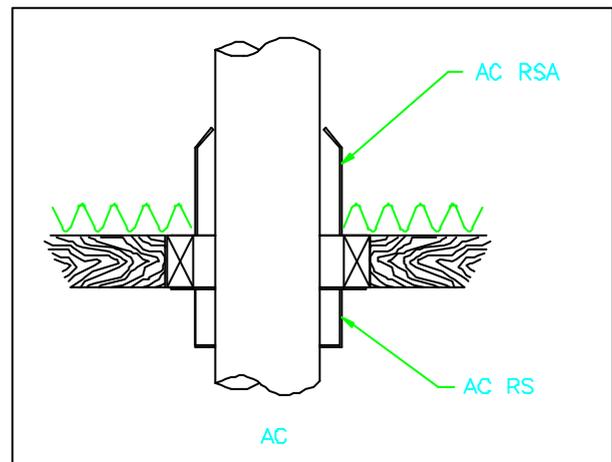


Figure 29

AC CHIMNEY INSTALLATION (AIR COOLED GALVALUME CHIMNEY)

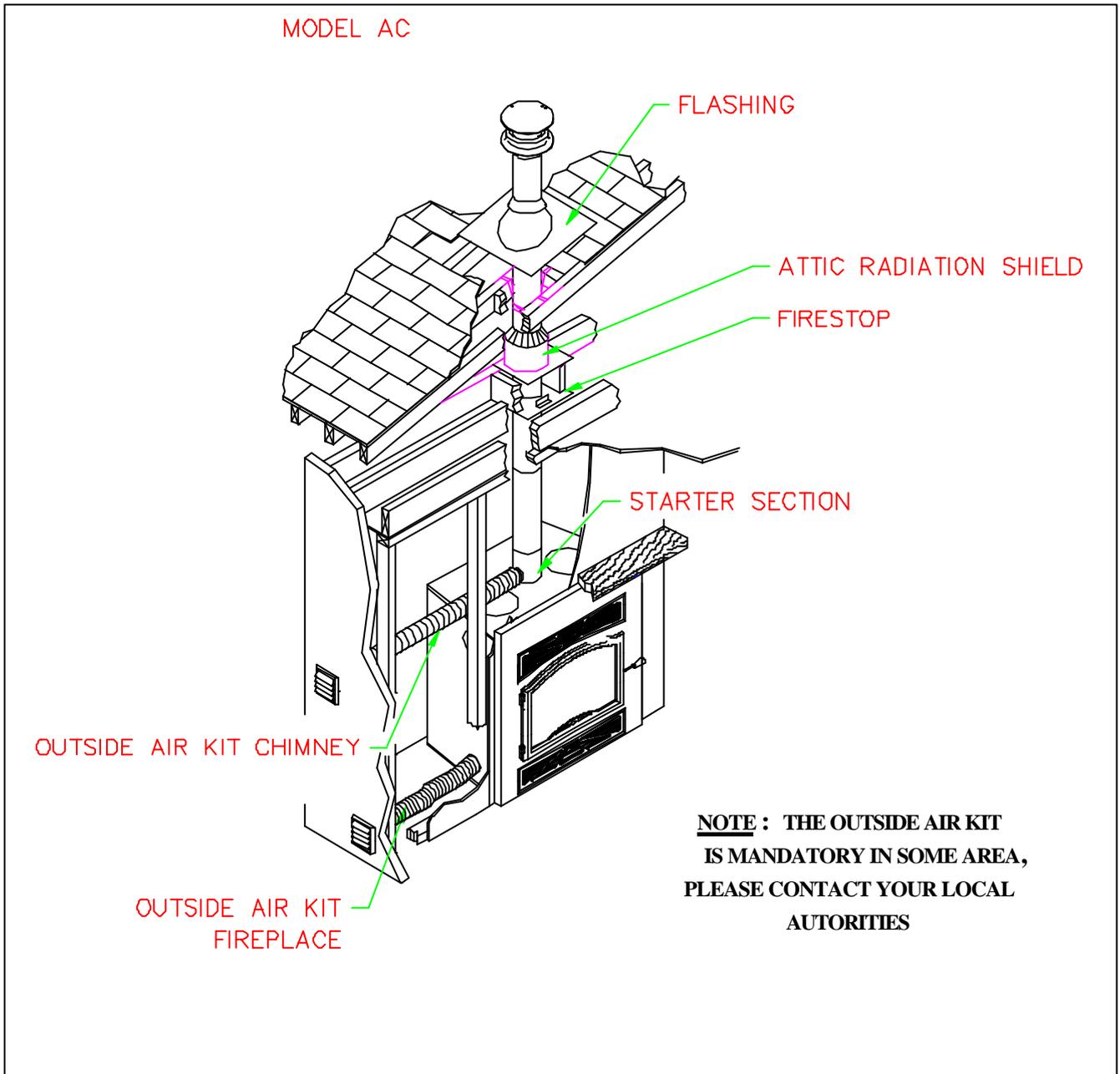


Figure 30

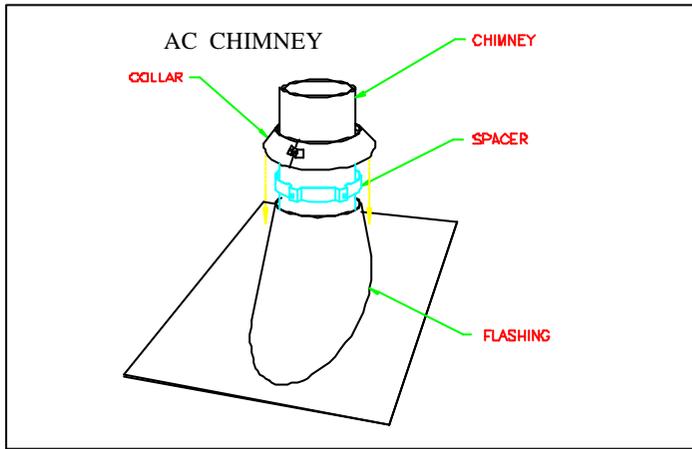


Figure 31

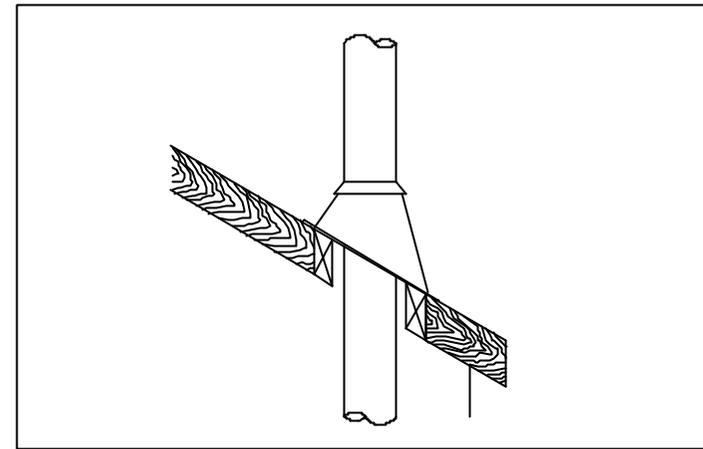


Figure 32

Table 2

| ROOF DOWN SLOPE HOLE SIZE | | | |
|---------------------------|------------------|-------------------|------------------|
| SLOPE | ASHT+ / HT6103+ | S-2100+ / HT6000+ | AC |
| Roof Pitch | 7" | 7" | 7" |
| 0 * | 13 3/8" (340 mm) | 15 1/8" (384 mm) | 15" (380 mm) |
| 2/12 | 13 5/8" (345 mm) | 15 3/8" (390 mm) | 15 3/8" (390 mm) |
| 4/12 | 14 1/8" (359 mm) | 16" (406 mm) | 16 1/8" (410 mm) |
| 6/12 | 15" (380 mm) | 17" (432 mm) | 16 7/8" (430 mm) |
| 8/12 | 16 1/8" (410 mm) | 18 1/4" (465 mm) | 18 1/4" (465 mm) |
| 10/12 | 17 1/2" (445 mm) | 19 3/4" (502 mm) | 19 5/8" (500 mm) |
| 12/12 | 19" (483 mm) | 21 3/8" (545 mm) | 21 3/8" (545 mm) |
| * CROSS SLOPE HOLE SIZE | | | |

OFFSET CHIMNEY INSTALLATION

The minimum chimney height when using elbows is:

| | |
|-----------------------|--|
| Fireplace model | BIS PANORAMA |
| 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:

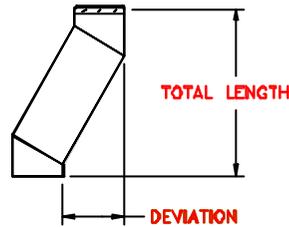
ASHT+ / HT6103+ / S2100+ / HT6000+ Chimneys

1. Install the first elbow; turn it in the required direction. Fasten it to the chimney with the three (3) ½ (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) ½ (12 mm) screws. If the offset length is made of two (2) chimney lengths or more, use an offset 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) ½ (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 page 28).
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 33).
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 & LENGHT | ONE LENGTH BETWEEN ELBOWS | | | | | TWO LENGTHS BETWEEN ELBOWS | | | | | |
|---|-----------|--------------------|---------------------------|---------------------|-----------------------|-----------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-----------------------|
| | | | 8" | 12" | 18" | 24" | 36" | 8" & 36" | 12" & 36" | 18" & 36" | 24" & 36" | 36" & 36" | |
| ASHT 7" HT6103+ | 15° | DEVIATION | 3" (156 mm) | 4 1/4" (108 mm) | 5 3/4" (146 mm) | 7 1/4" (184 mm) | 10 1/4" (260 mm) | 12 1/4" (311 mm) | 13 1/4" (337 mm) | 14 3/4" (375 mm) | 16 1/4" (413 mm) | 19 1/2" (495 mm) | |
| | | LENGHT | 16 1/2" (419 mm) | 20 1/4" (514 mm) | 26 1/4" (667 mm) | 32" (813 mm) | 43 1/2" (1105 mm) | 50 1/2" (1276 mm) | 54 1/4" (1378 mm) | 60" (1524 mm) | 65 3/4" (1670 mm) | 77 1/2" (1967 mm) | |
| | 30° | DEVIATION | 7 1/2" (190 mm) | 9 1/2" (241 mm) | 12 1/2" (318 mm) | 15 1/2" (394 mm) | 21 1/2" (546 mm) | 25" (635 mm) | 27" (686 mm) | 30" (762 mm) | 33" (838 mm) | 39" (991 mm) | |
| | | LENGHT | 20 3/4" (527 mm) | 24 1/4" (641 mm) | 29 1/2" (749 mm) | 34 3/4" (883 mm) | 45" (1143 mm) | 51 1/4" (1302 mm) | 54 3/4" (1391 mm) | 60" (1524 mm) | 65 1/4" (1657 mm) | 75 1/2" (1918 mm) | |
| | 45° | DEVIATION | 10 13/16" (275 mm) | 14 3/8" (365 mm) | 17 7/8" (454 mm) | 22 13/16" (579 mm) | 31 5/16" (795 mm) | 36 5/32" (918 mm) | 39 11/16" (1008 mm) | 43 7/32" (1098 mm) | 48 5/32" (1223 mm) | 56 21/32" (1439 mm) | |
| | | LENGHT | 18 13/16" (478 mm) | 22 3/8" (568 mm) | 25 7/8" (657 mm) | 30 13/16" (783 mm) | 39 5/16" (999 mm) | 44 5/32" (1122 mm) | 47 11/16" (1211 mm) | 51 7/32" (1301 mm) | 56 5/32" (1426 mm) | 64 21/32" (1642 mm) | |
| S2100 7" HT6000+ | 15° | DEVIATION | 3" (76 mm) | 4 1/4" (108 mm) | 5 3/4" (146 mm) | 7 1/4" (184 mm) | 10 1/4" (260 mm) | 12 1/4" (311 mm) | 13 1/4" (337 mm) | 14 3/4" (375 mm) | 16 1/4" (413 mm) | 19 1/2" (495 mm) | |
| | | LENGHT | 16 1/2" (419 mm) | 20 1/4" (514 mm) | 26 1/4" (667 mm) | 32" (813 mm) | 43 1/2" (1105 mm) | 50 1/2" (1383 mm) | 54 1/4" (1378 mm) | 60" (1524 mm) | 65 3/4" (1670 mm) | 77 1/2" (1969 mm) | |
| | 30° | DEVIATION | 7 1/2" (191 mm) | 9 1/2" (241 mm) | 12 1/2" (318 mm) | 15 1/2" (394 mm) | 21 1/2" (546 mm) | 25" (635 mm) | 27" (686 mm) | 30" (762 mm) | 33" (838 mm) | 39" (991 mm) | |
| | | LENGHT | 20 3/4" (527 mm) | 24 1/4" (616 mm) | 29 1/2" (749 mm) | 34 3/4" (883 mm) | 45" (1143 mm) | 51 1/4" (1302 mm) | 54 3/4" (1391 mm) | 60" (1524 mm) | 65 1/4" (1657 mm) | 75 1/2" (1918 mm) | |
| | AC 7" | 15° | DEVIATION | ---- | 4 13/16" (122 mm) | 6 1/8" (156 mm) | 11" (280 mm) | 14 1/8" (359 mm) | ---- | 16 7/8" (429 mm) | 18 7/16" (468 mm) | 23" (584 mm) | 26 3/16" (665 mm) |
| | | | LENGHT | ---- | 27 11/16" (703 mm) | 33 1/2" (851 mm) | 50 7/8" (1292 mm) | 62 1/2" (1588 mm) | ---- | 72 5/8" (1845 mm) | 78 7/16" (1992 mm) | 95 3/4" (2432 mm) | 107 3/8" (2727 mm) |
| 30° | DEVIATION | ---- | 9 3/8" (238 mm) | 12 3/8" (314 mm) | 21 3/8" (543 mm) | 27 3/8" (695 mm) | ---- | 32 5/8" (829 mm) | 35 5/8" (905 mm) | 44 5/8" (1134 mm) | 50 5/8" (1286 mm) | | |
| | LENGHT | ---- | 25 3/4" (654 mm) | 31" (787 mm) | 46 1/2" (1181 mm) | 57" (1448 mm) | ---- | 66" (1676 mm) | 71 1/4" (1810 mm) | 86 7/8" (2207 mm) | 97 1/4" (2470 mm) | | |
| <p>Note: With the AC chimney, a starting length of 6" high must be used on top of the fireplace before installing</p> | | | | | | | | | | | | | |

Table 4

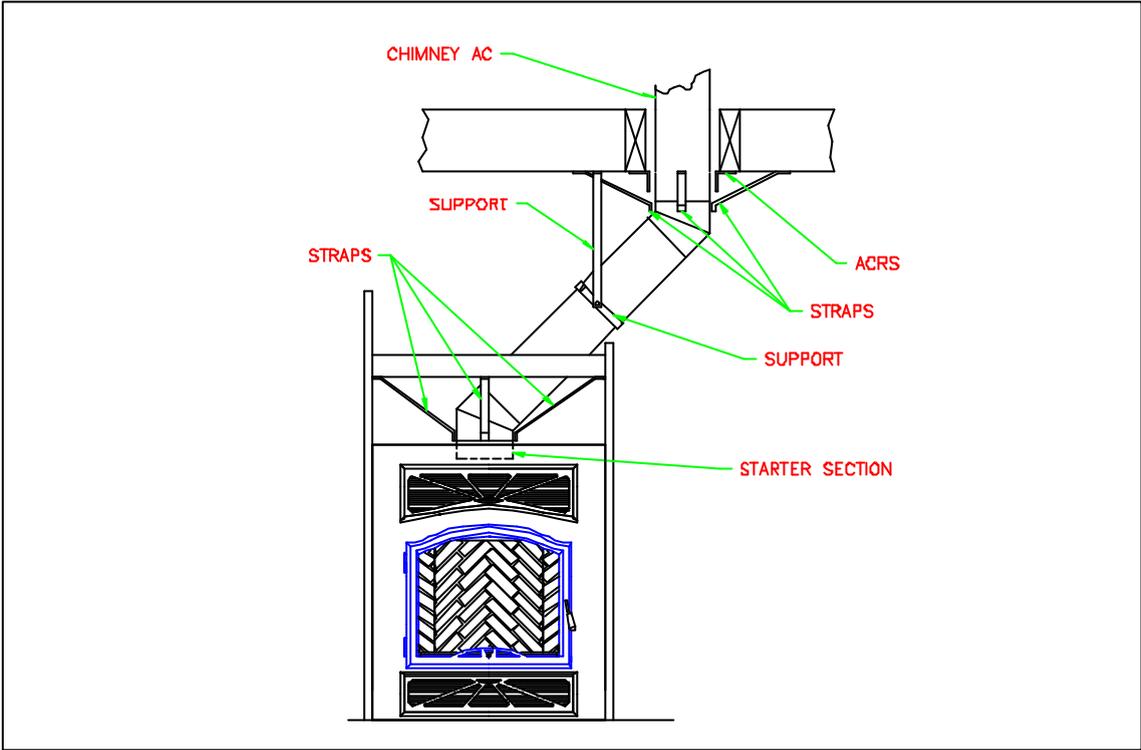


Figure 33

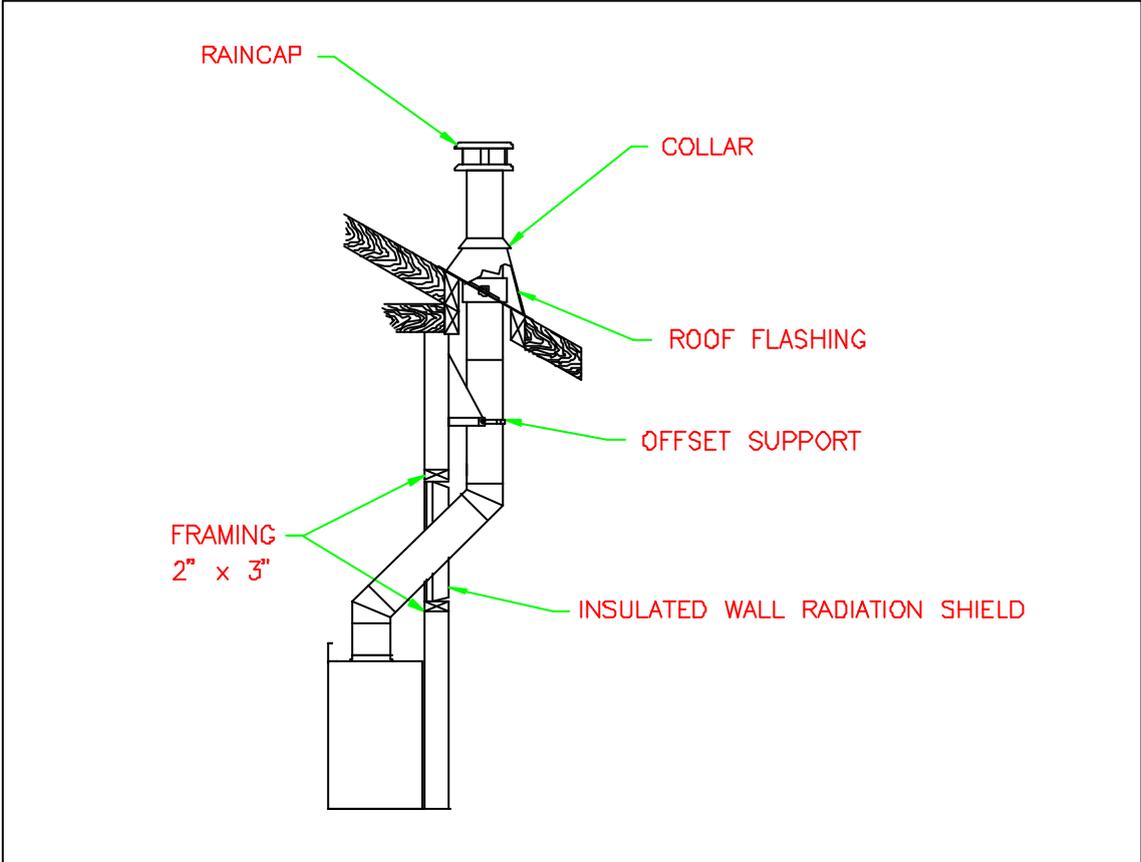


Figure 34

ANGLED WALL RADIATION SHIELD
(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+ (7" dia.) | 30° | 340 mm x 845 mm (13 3/8" x 33 1/4") |
| Canada only | 45° | 340 mm x 591 mm (13 3/8" x 23 1/4") |
| S2100+/HT6000+ (7" dia.) | 30° | 380 mm x 972 mm (15" x 38 1/4") |
| Canada only | 45° | 380 mm x 657 mm (15" x 25 7/8") |
| AC (7" dia.) | 30° | 380 mm x 972 mm (15" x 38 1/4") |

Table 5

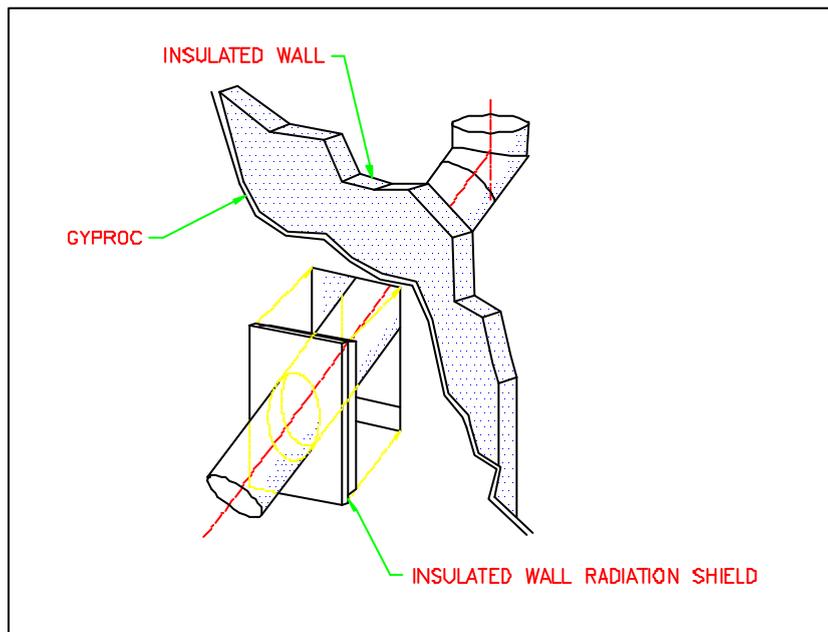


Figure 35

CHIMNEY SUPPORT INSTALLATION

Universal Roof Support

This support has three possible uses:

1. For ASHT+/HT6103+ and S2100+/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 when the chimney height exceeds 15 ft. (4.6 m.).

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+ (7" dia.) | 24 ft. (8.54m) | 27 ft. (8.84 m) |
| S-2100+ / HT6000+ (7" dia.) | 16 ft. (5.49 m) | 18 ft. (6.1 m) |
| AC (7" dia.) | 40 ft. (12.19 m) | 50 ft. (15.20 m) |

Table 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).

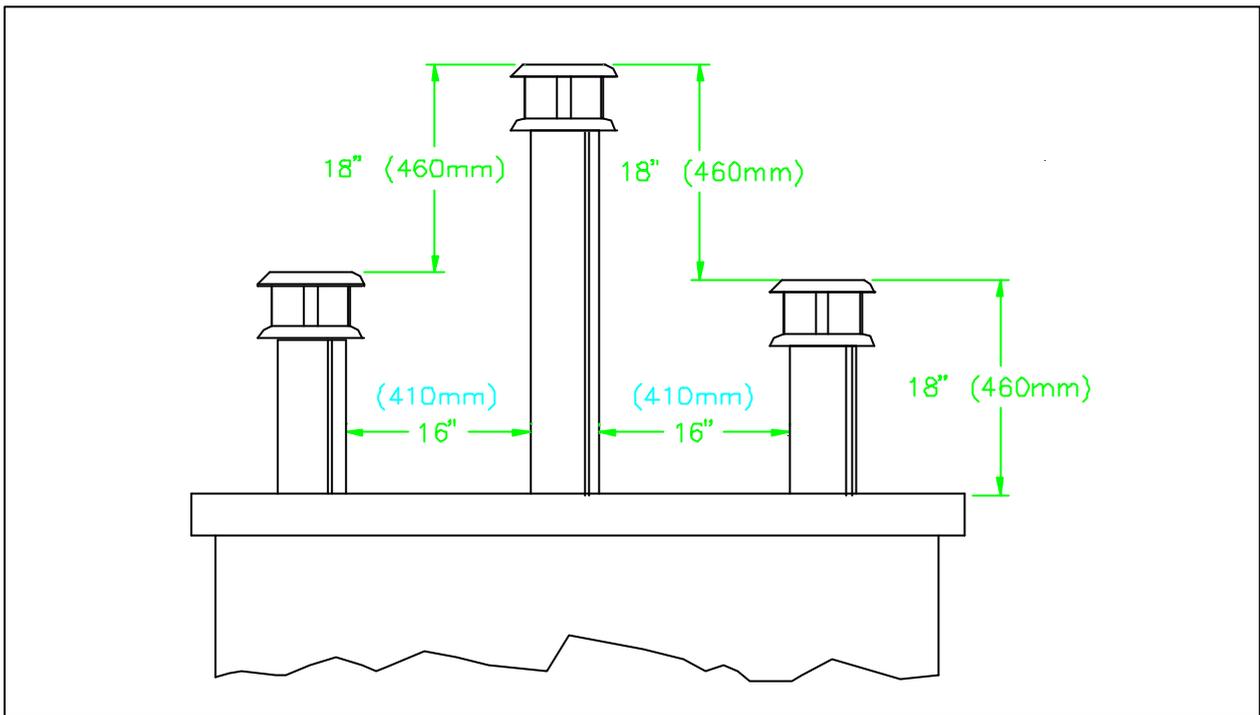


Figure 36

CHIMNEY ADAPTOR (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 (7UCA) (figure 37). A separate starter section will also be required if AC (AC7SB) chimney is installed.

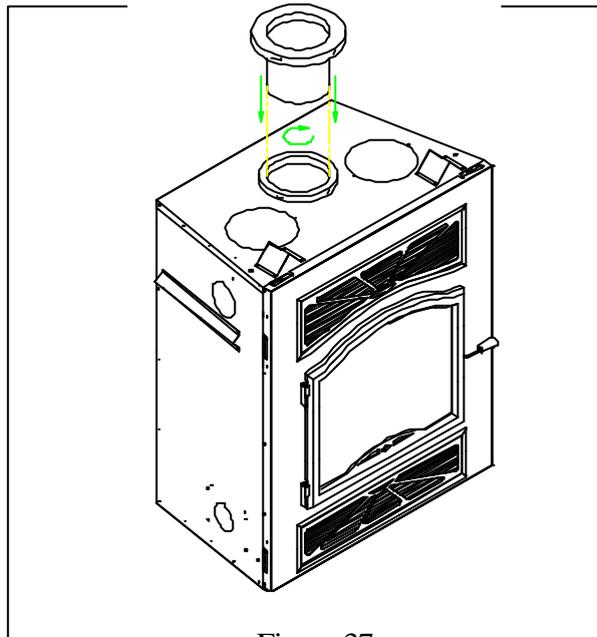


Figure 37

INSTALLATION INSTRUCTIONS FOR MASONRY APPLICATION

WARNING: Before starting the installation, the masonry chimney must be inspected by a qualified sweep.

The following requirements must be respected:

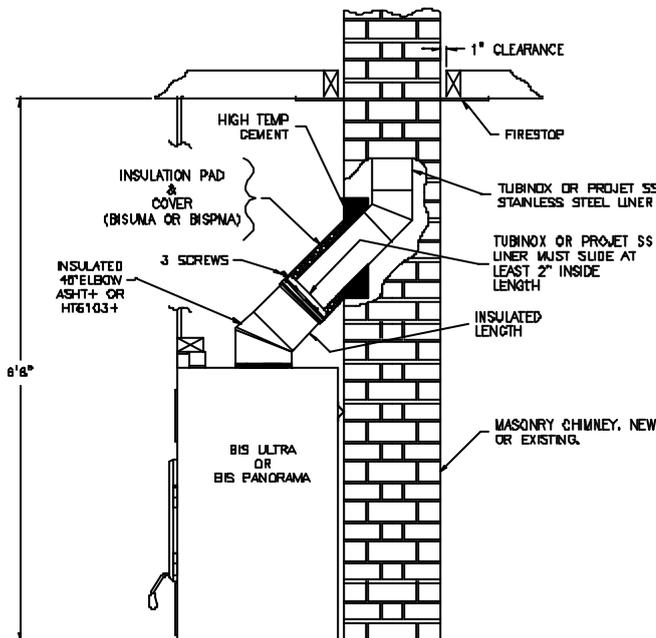
1. The chimney must be absolutely clear of any soot residue or creosote. Check for cracks, loose or missing bricks that could inhibit correct installation of the liner.
2. The clearance to combustible must be a minimum of 1" between the outside of the masonry and any wood framing or loose insulation.
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 fireplace 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.

See typical installation illustrated below.



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 :
 - 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 MISPMA30) 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.

PARTS AND COMPONENTS LIST

(AC Chimney)

| <u>Description</u> | <u>Part No.</u> |
|--|-----------------|
| Lengths | 7" dia. |
| 12" length | AC 7L12 |
| 18" length | AC 7L18 |
| 36" length | AC 7L36 |
| 48" length | AC 7L48 |
| 15° elbow | AC 7E15 |
| 30° elbow | AC 7E30 |
| Rain cap | AC 7CPR |
| Spark arrester cap | AC 7CPE |
| Supports | |
| Offset support | XSO+ |
| Support section | AC 7SL |
| Roof support | XST+ |
| Starter section | AC 7SB |
| Roof brace | XBS2+ |
| Wall band | XBM+ |
| Firestop | |
| Firestop | AC BF |
| Radiation shield | AC RS |
| Attic radiation shield | AC RSA |
| Wall radiation shield 30° | AC RSM30 |
| Insulated wall radiation shield 30° | AC RSMI30 |
| Wall radiation shield 45° | AC RSM45 |
| Insulated wall radiation shield 45° | 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°) | AC FA |
| 8/12 - 12/12 (30° - 45°) | AC FB |
| 12/12 - 21/12 (45° - 60°) | AC FBB |
| Peak roof flashings | |
| 1/12 - 7/12 (5° - 30°) | AC FP |
| 8/12 - 12/12 (30° - 45°) | AC FPB |
| Storm collar | AC FC |

PARTS AND COMPONENTS LIST (Fireplace)

| <u>Description:</u> | <u>Part No.</u> |
|--|-----------------|
| Victorian arch shape door, gold plated 24K | BPVG |
| Victorian arch shape door, black | BPVBK |
| DEL SOL louver set | DEL SOL |
| DIAMANTE louver set | DIAMANTE |
| FIORI louver set | FIORI |
| LUNA louver set | LUNA |
| Outside air kit | UZI |

OPTIONS

| <u>Gravity kit:</u> | <u>Part No.:</u> |
|--|------------------|
| <u>Complete double ducting system including:</u> 2 elbows 90°, 2 telescopic lengths, 2 grill supports and 2 black grills | 7B30ZK-1 |
| <u>Complete single ducting system including:</u> 2 x 6" lengths, 1 decorative black frame and 1 black louver | 7B26ZKS-1 |
| <u>Complete single ducting system including:</u> 2 x 6" lengths, 1 decorative brass frame and 1 brass louver | 7B26ZKSB-1 |
| Black grill with support | 7B30ZO |
| Brass grill for 7B30ZK | 7B30ZGB |
| Panel for clean face option | BPCF |
| 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 |
| <u>Central forced air kit:</u> | |
| <u>Central forced air kit including:</u> adaptor and 2 clamps (BISAF), Blower (BISZY), Blower variable speed control (VRUW), Thermo-disk (VTU) and fan to flex adaptor (BISAVF). | BISFWK-1 |
| Flex adaptor and 2 clamps | BISAF |
| Flexible pipe 5" D.I. x 15 ft. Long | 5FLEX15 |
| Flexible pipe 5" D.I. x 30 ft. Long | 5FLEX25 |
| Blower 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 |
| Thermostat 24V kit(heating and cooling) | HCTW |

Backdraft damper
Adaptor for fan to flexible pipe

BISBD
BISAVF

OPTIONS (Fireplace):

Description:

Cast-iron corner ornaments with magnets
Cast-iron corner ornaments with magnets
Cast-iron top ornament with magnet
Panel for clean face option
Heat activated on/off pre-wired fan kit
Masonry chimney adaptor

Part No.

APPC-01
APPCS-02
APP-03
BPCF
UZY3
BISPMA

APPENDIX (*Specifications, Clearance to Combustible, Replacements Parts*)

SPECIFICATIONS

| | |
|-----------------------------------|--------------|
| Weight | 385 lbs. |
| Height | 45". |
| Width | 38" |
| Depth | 24 1/2" |
| Chimney weight ASHT+ (7" dia.) : | 7.8 lbs./ft. |
| Chimney weight S2100+ (7" dia.) : | 12 lbs./ft. |

CLEARANCE TO COMBUSTIBLES

The following clearances meet the minimum requirements for a safe installation

| | |
|----------------------|--|
| Side wall: | 24" (457 mm) measured from the doors edge |
| 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 |
| Chimney: | 2" (50 mm) |
| Mantel: | 54" (1372 mm) measured from the base of the fireplace |

REPLACEMENT PARTS

| | |
|---|------------|
| Catalytic combustor | PR-SR2110 |
| Catalytic combustor stainless steel casing | PR-SR211 |
| Front refractory | PR-SR2113 |
| Back refractory | PR-SR2056 |
| Right side refractory | PR-SR2057D |
| Left side refractory | PR-SR2057G |
| Bottom refractory | PR-SR2055 |
| Wooden handle door | PR-SR1787 |
| Wooden handle by-pass | PR-SR2072 |
| Ceramic glass panel: (Victorian door) | PR-SR2107 |
| Secondary air tube (rear) | PR-SR2051 |
| Catalyst air tube (front) | PR-SR2053 |
| Cast-iron log supports (2) | 7B30B2CH |
| Touch up paint (Forrest Paint Metallic Black) | SBMB6309 |