

Model SLK Installation Instructions

Stainless Steel Flexible Chimney Liner 4" Size

PLEASE READ AND UNDERSTAND THE REQUIREMENTS BEFORE PROCEEDING

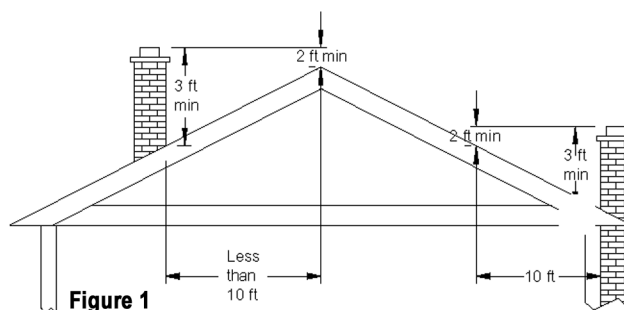
Types of Appliance

Your Model SLK Chimney Liner is an all-fuel (wood/oil/gas) liner intended for residential appliances and building heating appliances in which the maximum continuous flue gas outlet temperatures do not normally exceed 1200°F (650°C) in Canada and 1000°F (540°C) in the United States.

Pre-Installation Guidelines

Ensure your installation will conform with all federal and municipal building code requirements. Before commencing installation, CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION IN YOUR AREA. Obtain any necessary building permits.

Authorities require that the masonry chimney extend not less than three feet above the highest point where it passes through the roof of a building and not less than two feet above any portion of the building within ten feet. (See Figure 1.)



IMPORTANT: YOUR SLK CHIMNEY LINER HAS BEEN TESTED, AND LISTED USING ALL THE SUPPORTS, SECTIONS, ETC., DESCRIBED HEREIN. DELETION OR MODIFICATION OF ANY OF THE REQUIRED PARTS OR MATERIALS MAY SERIOUSLY IMPAIR THE SAFETY OF YOUR INSTALLATION, AND VOID THE CONDITIONS OF CERTIFICATION AND/OR WARRANTY OF YOUR LINER.

IT IS OF THE UTMOST IMPORTANCE THAT THIS CHIMNEY LINER BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS. FAILURE TO INSTALL THIS SYSTEM IN ACCORDANCE WITH THESE INSTRUCTIONS WILL VOID THE CONDITIONS OF CERTIFICATION AND THE MANUFACTURER'S WARRANTY. KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE USE. READ INSTRUCTIONS CAREFULLY BEFORE STARTING THE PROJECT. REMEMBER THAT SAFETY COMES FIRST. OUR MODEL SLK CHIMNEY LINER SYSTEM IS DESIGNED FOR INSTALLATION BY A QUALIFIED PERSON IN ACCORDANCE WITH LOCAL BUILDING CODES.



UL1777, CAN/ULC-S635

CLEARANCES FOR INSTALLATIONS IN THE UNITED STATES

For an exterior masonry chimney, this liner should be installed with a minimum clearance of ½-inch airspace between combustible materials and the masonry chimney outside perimeter. For an interior chimney, this liner should be installed with a minimum clearance of 2-inch airspace between combustible materials and the masonry chimney outside perimeter. The liner must also be installed with a minimum clearance of 1-inch airspace between the liner and the masonry chimney inside perimeter.

CLEARANCES FOR INSTALLATIONS IN CANADA

Your liner has been listed for installation at zero clearance to the inside masonry surface of an existing masonry or factory-built chimney.

Do not fill the airspace between the liner and chimney with loose fill insulation or cement.

Liner Components

Available components are:

- Flexible Liner
- Pop Rivets – stainless steel
- Support Flashing
- Flashing Adapter
- Rain Cap
- Tee with detachable Branch and Tee Cap
- Flex Connector
- Installation Sleeve/Pull-Down

Tools and Materials

The following tools and materials are needed.

- Safety gloves
- Eye protection
- Ladder to reach the roof
- Masonry drill bit ½" or ¾"
- High speed drill bit 1/8"
- Drill
- Hacksaw
- Screwdriver
- Hammer
- Pliers
- Cold chisel
- Tin snips
- Caulking, exterior grade
- Small bag of mortar mix
- Trowel
- Mortar pan
- Piece of rope 10 feet longer than the chimney
- Duct tape
- Pop rivet gun for 1/8" diameter rivets

Chimney Inspection and Cleaning

Make sure the masonry chimney is sound in construction, clean, and free from all loose and potentially flammable debris. If you find any cracked, loose or missing bricks or tiles, have them repaired or replaced. Before the installation of the liner, it is recommended that the chimney be cleaned by a certified chimney sweep. Since chimneys are usually very sooty and dusty, it is advisable to remove or cover your furniture, rugs, etc., for the duration of the cleaning and installation of the liner.

PREPARING FOR A FREESTANDING STOVE INSTALLATION

If no opening currently exists, establish the exact location of the base section. At the spot where the tee branch will pass through the chimney wall, remove enough brick (with a masonry drill bit, cold chisel and hammer) to fit the tee branch through the hole. Make the penetration as high as possible to maximize connector rise yet maintain the proper clearances. The opening must be located above the appliance outlet (see Figure 2a). It is recommended to install an inspection/clean-out door on the opposite side if conditions permit.

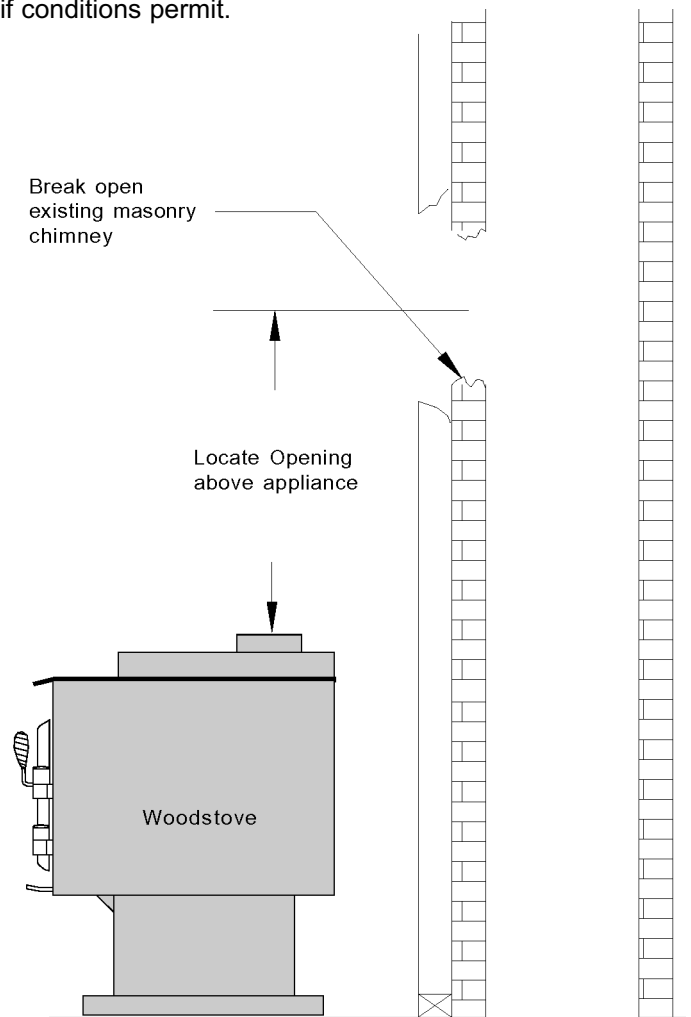


Figure 2a
Freestanding Woodstove

PREPARING FOR AN INSERT

Before installing the venting system, ensure that the damper plate is locked into the open position and secured or removed to prevent any damage to the liner (see Figure 2b).

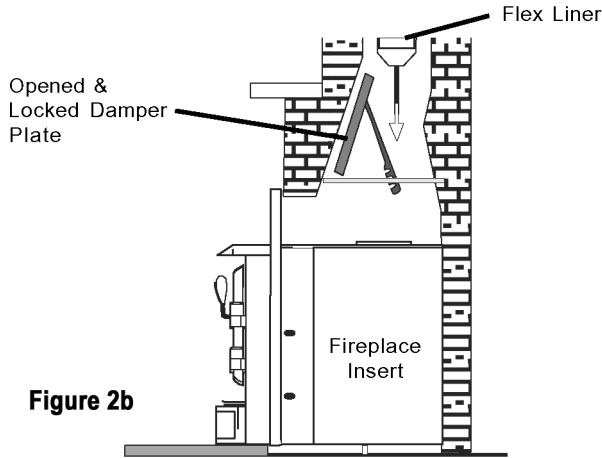


Figure 2b

PREPARING TOP OF CHIMNEY

Your chimney may have a clay-tile liner that protrudes above the brick chimney. There is no need to remove the top portion of the clay tile liner if it is in good condition. You may, at this time, want to do any repairs to the chimney crown if any cracks or deterioration are showing. Once the repairs are done, follow the **Flashing/Support Installation** section on page 4. If, on the other hand, the clay tile liner is not in good condition, you will need to make it flush by chipping away at the excess with a hammer and cold chisel (see Figure 3). Make sure that pieces of the clay tile liner don't fall into the flue; remove if they do. When you have finished making the top of the chimney flush, fill in any cracks and uneven surfaces with mortar.

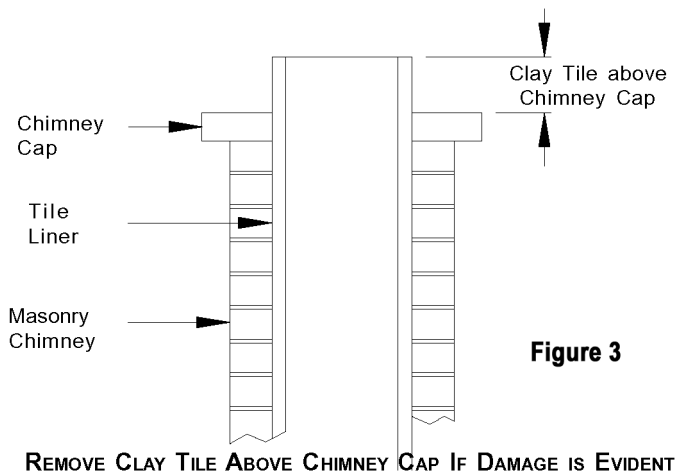


Figure 3

Liner Preparation

If installation permits, Flex Connector and Tee may be installed on flex prior to feeding liner into the chimney as per Figure 8. **Note: For an insert application, a Tee is not required.**

DETERMINING LINER LENGTH

Determine the required length of the Flexible Liner by dropping a weighted line down the chimney and taking the measurement. Ensure that allowances for offsets and the use of a Tee (if required) are made.

TRIMMING THE LINER

Select the length(s) necessary to accommodate the required distance determined above. If any Flexible Liner requires cutting, use a hacksaw, snips or a disc cutter. If necessary, multiple lengths may be joined using the Flex Connector (see Figure 4).

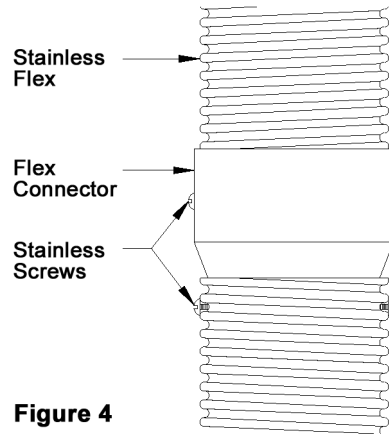


Figure 4

INSTALLATION SLEEVE/PULL-DOWN ASSEMBLY

An Installation Sleeve/Pull-Down is available as an optional installation aide. When attached to a rope, it is used to pull and guide the end of the liner through the chimney. With one end of the rope, simply tie a knot around the band of the Installation Sleeve/Pull-Down. For an Insert Installation, assemble the Installation Sleeve to the Flex by sliding it over the Flexible Liner and inserting screws through the holes (see Figures 5 and 7).

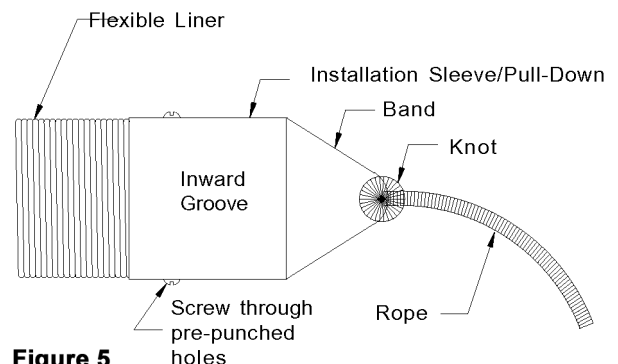


Figure 5

For a **Freestanding Stove Installation** (Figure 6), assemble the Flex Connector over the Flexible Liner. Drill and secure with three (3) stainless steel screws, equally spaced at 120°. Remove the Tee Branch from the Tee.

Insert the other end of the Flexible Connector into the Tee. Drill and secure with three (3) stainless steel screws, equally spaced at 120° (see Figure 6).

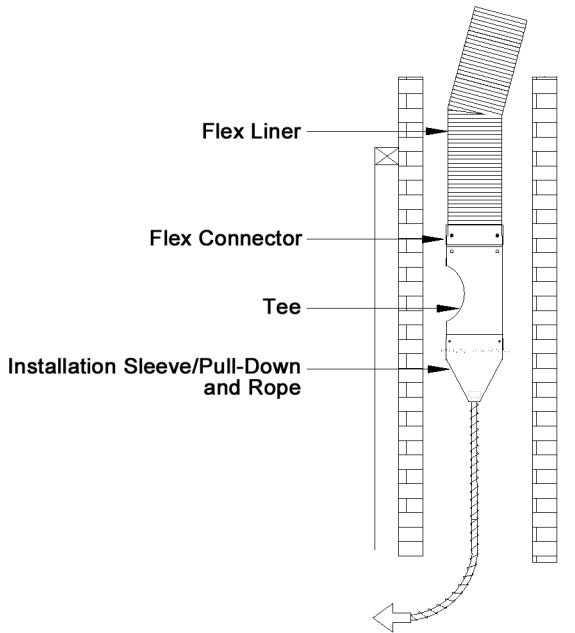
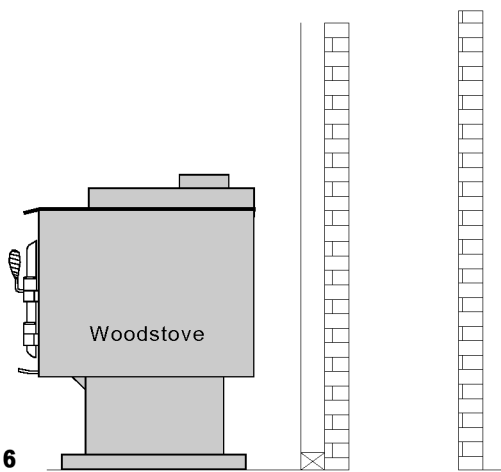


Figure 6



Installing the Liner

Gather all necessary component parts, and locate them near the termination of the chimney. This should consist of a Flashing Support assembly, a Rain Cap, and the prepared length of Flexible Liner complete with Flex Connector, Tee (with branch removed), the Installation Sleeve/Pull-Down and rope. Feed the Installation Sleeve/Pull-Down rope down the chimney flue

(see Figures 6 and 7). While an assistant gently pulls on the rope from below, start lowering the Flexible Liner down into the chimney flue. If additional lengths of Flex are required, join the sections together as the Flexible Liner progresses down the chimney.

Note: Due to possible snagging that may result in some surface damage, caution must be observed when lowering Liner lengths into the masonry flue.

Note: For an Insert application, a Tee is not required.

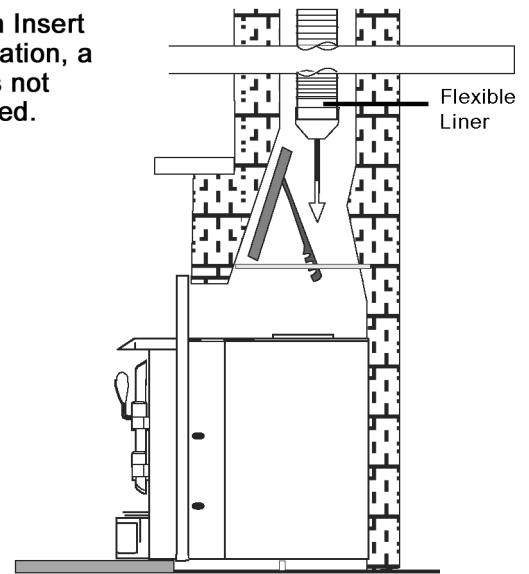


Figure 7

After feeding the liner down the chimney to the bottom, remove the Installation Sleeve/Pull-Down from the Flex Liner and remove it through the prepared opening in the chimney wall (see Figure 6). If the Flex Connector and the Tee (without the branch) was not previously installed, do so now. Insert the Flex Connector through the opening, and assemble the Flex Connector over the Flexible Liner. Drill and secure with three stainless steel screws equally spaced at 120°. Remove the Tee branch from the Tee, and insert the Tee through the opening in the chimney. Push the other end of the Flexible Connector into the Tee. Drill and secure with three stainless steel screws equally spaced at 120° (see Figure 8).

Flashing/Support Installation

Position the Support Flashing, and center the flat plate on top of the clay tile. Mark the outline of the clay tile on the underside of the flashing plate. There should be a minimum of 2" (50mm) overhang on each side of the clay tile. Cut off each corner at 45° (see Figure 9), and bend over the excess at the marked line, using a pair of hand folders.

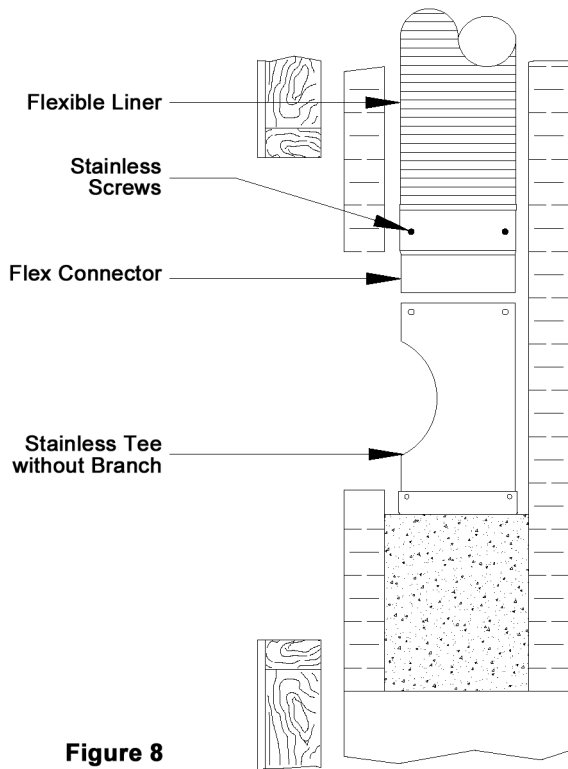


Figure 8

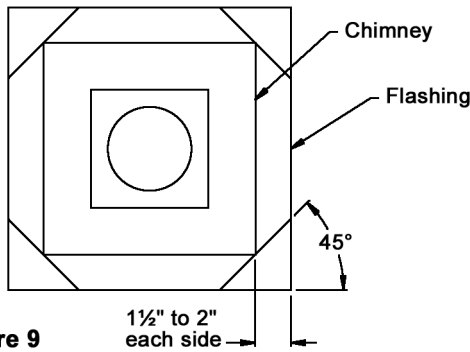


Figure 9

Rain Cap Installation

Ensuring that the Tee previously installed on the end of the Liner is in the correct position, trim the Flexible Liner so that it is flush with the top of the chimney (or clay tile). Insert the Flashing Adapter onto the Flashing/Support, ensuring the sleeve of the flashing goes all the way into the Flashing Adapter. Pull enough of the Flexible Liner out of the chimney to enable you to attach the Flexible Liner to the Flashing Adapter on the bottom side of the flashing (see Figures 10 and 11).

Install three stainless screws through the Flex into the Flashing Adapter. Place a wide bead of high-temperature silicone along the entire top surface of the clay tile. Slide the Flex and Flashing assembly back into the chimney opening until the flashing plate comes to rest on the clay tile. Press the flashing firmly into the silicone to create a good seal (see Figure 11).

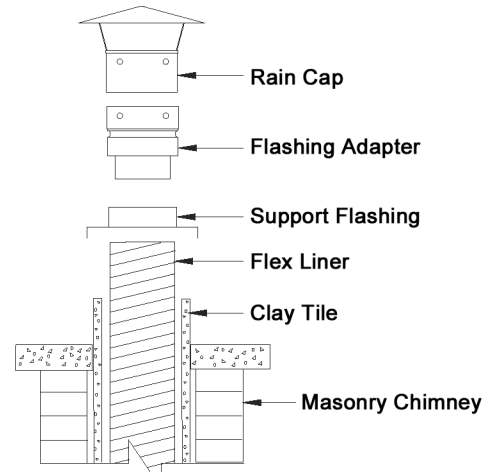


Figure 10

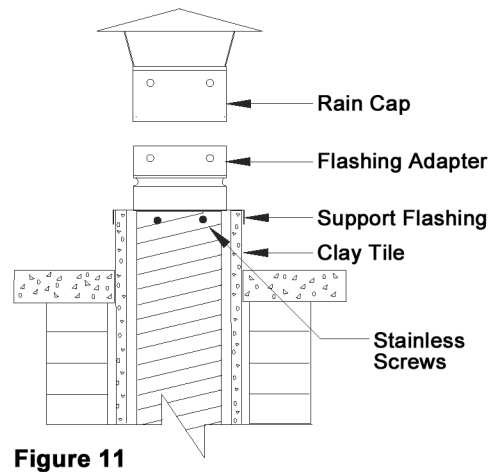


Figure 11

Completion of Liner Bottom (wood stove only)

Attach the Tee Branch to the Tee by sliding the tabs on the Tee underneath the bridges on the Branch. Fold the tabs back over the bridges to secure the Branch to the Tee. Make sure the Branch is centered in the masonry opening. Attach a stovepipe over the Branch with screws.

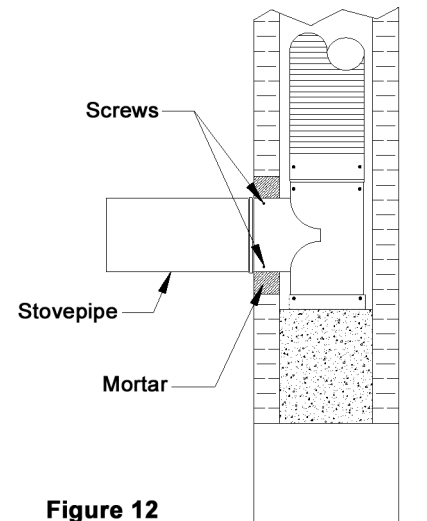


Figure 12

Installation of Appliance

Start piping from the Tee Branch to the appliance. Follow all local building codes and manufacturer's instructions. Unless certified for lesser clearances, Code requirements for single-wall uninsulated stovepipe and unprotected combustible material must not be less than 18" (457mm). Check your local codes for any differences.

When a combustible wall or any combustible material is located in front of a brick chimney through which your stovepipe passes, the above-mentioned clearances must be met (see Figure 13).

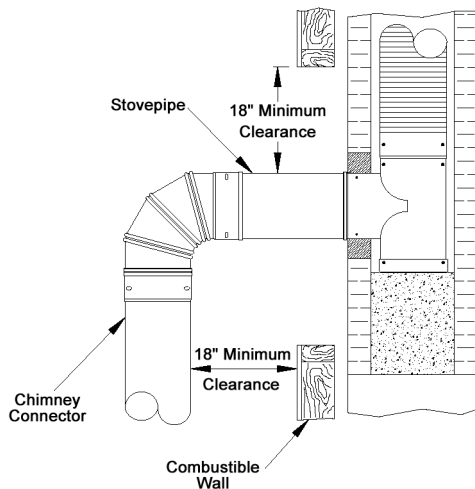


Figure 13

Installation Completion

After the appliance is correctly positioned and all the venting connections are completed and checked for proper installation (clearances to combustibles, proper support and component parts), fill the void area around the penetration hole with mortar. High-temperature ceramic sealant, or other noncombustible filler material, may be used as a substitute instead of mortar.

Upon completion of the installation, fill in the applicable information below, as well as on the label provided. Affix the label at a location close to where the connection is made to the appliance.

Installation Date: _____

Technician's Name: _____

Technician's Certification Number: _____

Maintenance and Cleaning of Chimney

"CREOSOTE AND SOOT - FORMATION AND NEED FOR REMOVAL"

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in a relatively cool chimney flue of a slow-burning fire. As a result, creosote accumulates on the flue lining. When ignited, this creosote creates a chimney fire with temperatures in excess of 2100°F.

With a new installation, the chimney should be inspected frequently (every two weeks) to determine the rate of creosote formation.

When familiar with the appliance and chimney characteristics, the chimney should be inspected at least once every two months during the heating season to determine if a creosote or soot build-up has occurred. If creosote or soot build-up has occurred, it should be removed to reduce the risk of a chimney fire.

Contact a professional chimney sweep for chimney-cleaning services and advice. To visually inspect the chimney, remove the three screws on the rain cap and lift it off the liner. This will permit the insertion of a flashlight or a chimney-cleaning polybrush to inspect and/or clean the Flexible Liner.

WARNING: DO NOT USE FUEL MATERIALS CORROSIVE TO THE CHIMNEY LINER, SUCH AS DRIFTWOOD, PLASTICS, GARBAGE, CHEMICALLY TREATED WOOD, ETC.

Limited Lifetime Warranty

Model SLK Chimney & Venting Products

Hart & Cooley, Inc. ("Hart & Cooley," "we," "us," "our", "its") warrants its products to be free from defects in material and workmanship for as long as the original consumer owns the system. For products installed after January 1, 2000, for a period of ten (10) years from the original installation, we will provide replacement product with a similar or like quality of available product, **free of charge**, excluding any installation costs. From the eleventh (11th) through fifteenth (15th) years, we will provide replacement product to the original consumer at a cost of 75% off the published list price in effect on the date the claim is received, excluding any installation costs. At expiration of the fifteen- (15) year term, we will provide replacement product to the original consumer at a cost of 50% off the published list price in effect on the date the claim is received, excluding any installation costs.

Limitations

- Products must be installed for their intended purpose and in accordance with current Hart & Cooley, Inc. instructions.
- Products must be connected to an appliance listed with an accredited testing laboratory.

WARNING

Failure to install Hart & Cooley products according to the manufacturer's instructions will void all applicable warranties and may result in fire, carbon monoxide poisoning or death. See our installation instructions for complete installation procedures.

Warranty Coverage

This warranty covers any substantial defects in material and workmanship in normal use that are found to exist in any of the insulated chimney sections or component parts of your chimney, with the exception stated below.

THIS WARRANTY DOES NOT COVER:

1. Any nonstainless base tee unit mounted or connected to an Insulated Chimney system.
2. **Costs (labor or otherwise) associated with either removing a previously installed product, installing a replacement product, transportation or return of a product, or transportation of replacement product. Due to the wide variance in installation practices and other conditions beyond our control, we do not guarantee or in any way warrant the installation of Chimney and Venting products.**
3. Damage to the finish of products caused by the use of improper solvents/chemicals or improper cleaning methods.
4. Damage resulting from failure to reasonably clean, care for, or maintain products in accordance with our installation instructions/recommendations.
5. Damage to products, appliance or structure on or resulting from improper installation or repair, misuse or abuse, including but not limited to excessive or improper operating conditions, or alteration or adjustment other than in conformity with our installation instructions and specifications, whether performed by a contractor, service company, technician, or you.
6. Any products that have been moved from their original installation site.
7. Damage caused by burning driftwood, garbage, or any other prohibitive material that has been burned in the appliance served by the chimney.
8. Damage that results from accidents, such as fire, flood, high winds, acts of God, or any other contingency beyond our control.

Claim Procedure

If you believe that a product is defective, notify us in writing at the following location:

Hart & Cooley, Inc.
ATTN: Warranty Claims Department
5030 Corporate Exchange Blvd. SE
Grand Rapids, MI 49512
616.656.8200 *phone*
616.656.6399 *fax*

Notification should include a description of the product, model and serial number (if applicable) and a description of the product defect. Upon receipt of a written claim under this limited warranty and evidence of the date of purchase or installation, at our option and sole discretion, we will provide replacement product with similar or like quality of available Hart & Cooley product, excluding any installation costs. Hart & Cooley, Inc. reserves the right to inspect or investigate any warranty claims prior to determining whether to provide replacement product. If, as determined by Hart & Cooley, Inc., repair or replacement of the product is not commercially practical or cannot be completed in a timely manner, we may refund the purchase price paid for the product, prorated to the terms of this warranty, upon verification by providing a copy of your invoice or receipt of bill of sale.

Index

Types of Appliance 1

Pre-Installation Guidelines 1

 Clearances for Installations in the United States 2

 Clearances for Installations in Canada 2

Liner Components 2

Tools and Materials 2

Chimney Inspection and Cleaning 2

 Preparing for a Freestanding Stove Installation 2

 Preparing for an Insert 3

 Preparing Top of Chimney 3

Liner Preparation 3

 Determining Liner Length 3

 Trimming the Liner 3

 Installation Sleeve/Pull-Down Assembly 3

Installing the Liner 4

Flashing/Support Installation 4

Rain Cap Installation 5

Completion of Liner Bottom (wood stove only) 5

Installation of Appliance 6

Installation Completion 6

Maintenance and Cleaning of Chimney 6

Limited Lifetime Warranty 7

 Model SLK Chimney & Venting Products 7

 Limitations 7

 Warranty Coverage 7

 Claim Procedure 7



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