Custom Fireplace Program
Co-linear Direct Vent Gas Fireplaces

GALAXY SERIES - FOUR SIDED
Installation and Operating Manual
Natural Gas & Propane

DO NOT DISCARD

Installer: Leave this manual with the appliance.
Consumer: Retain this manual for future reference.

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

— Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— WHAT TO DO IF YOU SMELL GAS
• Do not try to light any appliance.
• Do not touch any electrical switch; do not use any phone in your building.
• Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
• If you cannot reach your gas supplier, call the fire department.

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.

WARNING
HOT GLASS WILL CAUSE BURNS. DO NOT TOUCH GLASS UNTIL COOLED. NEVER ALLOW CHILDREN TO TOUCH GLASS.

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute (NFI) as NFI Gas Specialists.

Stellar Hearth Products™ a division of Hearth & Home Technologies® - 16873 Fish Point Rd SE, Prior Lake, MN 55372
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1 - SAFETY INFORMATION

This fireplace complies with ANSI Z21.50-2016/CSA 2.22-2016 “VENTED GAS FIREPLACE”. Installation must conform with local building codes or in the absence of local building codes, with the National Fuel Gas Code, ANSIZ223.1/NFPA 54 - Current Edition, or the Natural or Propane Installation Code, CSAB149.1

A. SAFETY ICON DESIGNATIONS

Various safety icons appear throughout this installation manual. Please familiarize yourself with the icons making sure you understand the serious consequences that may occur if ignored or of handling the products inappropriately.

IMPORTANT NOTE
This indicates additional instructions that you should consider during the installation.

DO NOT
This indicates something that you must never do.

RISK OF FIRE
This designates a danger of fire or damage to property.

HOT GLASS WARNING
This indicates danger of serious bodily injury or property damage if glass is handled while still hot.

CAUTION
This indicates danger of serious bodily injury or property damage.

STOP!
This indicates notes that may include reviewing warnings on other pages throughout the manual.

B. IMPORTANT SAFETY CONSIDERATIONS

- Installation and repair should be done only by a qualified service person. The appliance should be inspected by a qualified service person before use. Annual inspection by a qualified service person is required to maintain warranty. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulation air passageways of the appliance be kept clean.

- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

- Clothing or other flammable material should not be place on or near the appliance.

- Adequate accessibility clearances for servicing and proper operation must be maintained.

- This appliance must not share or be connected to a chimney flue serving any other appliance.

- Keep area around the appliance clear of combustible materials, gasoline and other flammable vapor and liquids.

- The flow of combustion and ventilation air must not be obstructed.

- Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.

- The glass front or any part removed for servicing the appliance must be replaced prior to operating the appliance. Work should be done by a qualified service technician. Safe-T-Touch units only.

- Clean glass only when cool and only with non-abrasive cleansers. Safe-T-Touch units only.

- Do not operate this appliance with the glass/frame assembly removed, cracked or broken. Replacement of the glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS. Safe-T-Touch units only.

- Do not strike or slam glass assembly. Safe-T-Touch units only.

- Keep burner and control compartment clean.

- Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect this appliance and to replace any part of the control system and any gas control which has been under water.

- DANGER: Under no circumstances should any solid fuel (wood, coal, paper or cardboard etc.) be used in this appliance.

- STATE OF CA WARNING: This product and the fuels used to operate this product (liquid propane or natural gas), and the combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm.

For more information go to: www.P65Warnings.ca.gov.
## 2 - FIREPLACE SPECIFICATIONS

### A. FOUR SIDED DIMENSIONS

**Top View 4' & 5'**

![Diagram of Top View 4' & 5']

**Top View 6' & 7'**

![Diagram of Top View 6' & 7']

**Left Side View**

![Diagram of Left Side View]

**Front View**

![Diagram of Front View]

**Right Side View**

![Diagram of Right Side View]

The hood shall be supported at specific locations using 1/4-20 UNC threaded rods. You will find the dimensions for I, J & K on Page 11.

---

**Specifications**

<table>
<thead>
<tr>
<th>Model #</th>
<th>B-VENT FLUE</th>
<th>AIR INTAKE FLUE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>FINISHING WIDTH FRONT</td>
<td>FINISHING WIDTH HEIGHT</td>
<td>FINISHING WIDTH SIDE</td>
<td>FIREBOX TOP HEIGHT</td>
<td>OVERALL HEIGHT</td>
<td>EDGE TO CENTER FLUE</td>
<td>DEPTH</td>
<td>OVERALL WIDTH</td>
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<tr>
<td>4-4S-2-GL</td>
<td>8&quot;</td>
<td>10&quot;</td>
<td>53-3/4</td>
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<td>24</td>
<td>42</td>
<td>50</td>
<td>26-15/16</td>
<td>24</td>
<td>53-3/4 [1,365]</td>
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<tr>
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<td>10&quot;</td>
<td>10&quot;</td>
<td>77-3/4</td>
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<td>89-3/4</td>
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<td>89-3/4 [2,280]</td>
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<td>8&quot;</td>
<td>10&quot;</td>
<td>53-3/4</td>
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**A, B & C** This is the finishing width and height required to fit the glass panels into the fireplace. Finishing materials must not overlap dimensions.

More information on gas and electrical access found on Page 27 & 39.
2 - FIREPLACE SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DESCRIPTION</th>
<th>B-VENT</th>
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<th>NG ORIFICE</th>
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<td>RSIF160</td>
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<td>RSIF160</td>
<td>80,000</td>
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<td>10'</td>
<td>RS014</td>
<td>RSIF180</td>
<td>100,000</td>
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<td>10'</td>
<td>RS014</td>
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<td>RSIF180</td>
<td>120,000</td>
<td>(6X) #43</td>
<td>(6X) #55</td>
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**WARNING:** NON-COMBUSTIBLE ZONE: USE ONLY NON-COMBUSTIBLE MATERIAL IN THIS AREA FOR ENTIRE WIDTH OF FIREPLACE. DO NOT USE WOOD, SHEETROCK, ETC., IN THIS ZONE.

**NOTE:** OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED. REFER TO PAGE 11 FOR MORE INFORMATION.

**B. CLEARANCES**

| From unit left & right sides | 1" | 25mm |
| To flooring under fireplace | 0 | 0 |
| Unit top to ceiling | 48" | 122cm |
| Unit side to adjacent sidewall | 1" | 25mm |

**Figure 2B**

1. NO COMBUSTIBLE MATERIAL WITHIN 1" [25] OF B-VENT FLUE
2. NO COMBUSTIBLE MATERIAL WITHIN 6" [152] OF THE TOP OF THE FIREPLACE
3. NO COMBUSTIBLE MATERIAL WITHIN 1" [25] ON ALL SIDES OF FIREPLACE
4. COMBUSTIBLE FRAMING AND FINISHING MATERIAL ALLOWED ON THE FACE OF THE FIREPLACE BELOW THE BOTTOM VIEWING EDGE ONLY.
5. OTHER CLEARANCES: DO NOT PLACE ON CARPET, VINYL OR SOFT SURFACES.
   A COMBUSTIBLE MANTEL MAY BE PLACED AT THE TOP OF THE GLASS VIEWING AREA. DO NOT OVERLAP GLASS.
   A COMBUSTIBLE HEARTH EXTENSION MAY BE USED AT THE BOTTOM OF GLASS VIEWING. DO NOT OVERLAP GLASS.
2 - FIREPLACE SPECIFICATIONS

C. INSTALLATION OVERVIEW

1. Frame an opening for fireplace, allowing for vent installation.
2. If masonry (optional) will be used, prepare foundation for the masonry load. A lintel is required to support the added weight above the fireplace.
3. Install hearth if desired.
4. Insert fireplace into framing.
5. Double check clearances to combustibles.
6. Complete gas line installation.
7. Complete electrical hook-up.
8. Complete venting installation.
9. Install facing material, mantel or cabinetry.
10. Install logs or glass and ember material or media.
11. Verify proper operation of fireplace and all components.

D. PLACEMENT CLEARANCE REQUIREMENTS

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- Fireplace must be placed directly on wood or non-combustible surface (not linoleum or carpet) extending entire depth and width of fireplace.
- This fireplace may be installed in a bedroom.

3 - PREPARE THE FIREPLACE

CAUTION: FIREPLACE IS NOT LOAD-BEARING.

NOTE: OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED.

A. SUPPORT BRACKET INSTALLATION

The temporary support brackets are not shipped in place on the Galaxy Four Sided Series and you will be required to assemble them at the jobsite to support the hood for installation.

Once the hood is properly supported with required threaded rods (refer to Pages 11-12) and the fireplace is confirmed to be level, the temporary supports may be taken off and the glass panels installed.
3 - PREPARE THE FIREPLACE

A. SUPPORT BRACKET INSTALLATION

STEP 1

STEP 1.1 Attach the four bottom brackets to the base in the orientation shown.

STEP 1.2 Attach screws in this area to all four brackets.

STEP 2

STEP 2.1 Attach cross beams as shown

STEP 2.2 Attach screws on each side of the cross beam
3 - PREPARE THE FIREPLACE

A. SUPPORT BRACKET INSTALLATION

STEP 3

STEP 3.1  Attach the four top brackets to the cross beams in the orientation shown

STEP 3.2  Attach screws on each side of the cross beam

STEP 4

STEP 4.1  Carefully place hood on top of the brackets.

STEP 4.2  Attach screws in this area on all four brackets.
3 - PREPARE THE FIREPLACE

CAUTION: FIREPLACE IS NOT LOAD-BEARING.

NOTE: OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED.

B. STANDOFF INSTALLATION

STEP 1: Refer to Figure 3B.1

The (4) standoffs will be shipped in a flat state placed on the firebox top. Locate the standoffs and loosen the screws holding them in place.

C. NAILING TABS

Four Sided fireplaces will not use nailing tabs.
4 - FRAMING

A THREADED RODS

The Galaxy Four Sided Series requires 4 threaded rods to be placed at the glass-to-glass intersections. Placement of the required threaded rods is at the I & J intersection in each corner notated as REQUIRED I & J locations.

Additional locations are provided if your installation needs more support notated as OPTIONAL K locations. Once the required threaded rods are in place and the hood fully supported, the temporary support brackets may be taken off.

See Page 12 for threaded rod installation option.

Figure 4A.1 - 4' & 5' Models
Top View

Figure 4A.2 - 6' & 7' Models
Top View

<table>
<thead>
<tr>
<th>MODEL</th>
<th>QTY</th>
<th>Additional</th>
<th>I (INCHES)</th>
<th>J (INCHES)</th>
<th>K (INCHES)</th>
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<tbody>
<tr>
<td>4' 4S</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>127</td>
<td>8 7/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>225</td>
<td>NA</td>
</tr>
<tr>
<td>5' 4S</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>127</td>
<td>11-7/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>302</td>
<td>NA</td>
</tr>
<tr>
<td>6' 4S</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>127</td>
<td>6-7/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>175</td>
<td>26-7/8</td>
</tr>
<tr>
<td>7' 4S</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>127</td>
<td>67/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>175</td>
<td>32-7/8</td>
</tr>
</tbody>
</table>

The hood shall be supported at specific locations using 1/4-20 UNC threaded rods.

Qty 4 threaded rods are required at each corner glass-to-glass intersection (I & J)

All other locations are optional if additional support is needed.
B. THREADED RODS INSTALLATION - OPTION

There are several different ways to support the fireplace top and one option is to use a Unistrut installed over the fireplace that is secured to structurally sound framing.

- Install the threaded rod fully into the threaded fastener located on top of the fireplace.
- Insert the threaded rod into a hole in the Unistrut straight above the threaded fastener located on top the fireplace.
- Use a fender washer and nut on the top end of the threaded rod to adjust the height of the fireplace opening. Make sure the opening dimension is exact all the way around. Use Locktite to secure the nut from from loosening (not shown).
- If the top of the threaded rod is to be secured into blind threaded fastener or if there isn't clearance above to adjust the rod, you can use a turnbuckle to adjust the height.
- Install an eyebolt fully into the threaded nut located on top of the fireplace.
- Use a quick link to connect the eye bolt to the reverse thread side of the turnbuckle.
- Thread the threaded rod into the normal side of the turnbuckle.
- Use the locktight or jam nuts to secure the turnbuckle from loosening.

For each threaded rod installation you may need:

- Super Strut or Uni-Strut
- Qty 4 1/4-20 Eyebolt
- Qty 4 Threaded Quick Link
- Qty 4 1/4-20 Threaded Rod or All Thread
- Qty 4 Fender Washer
- Up To Qty 12 1/4-20 Nut
C. FOUR SIDED FRAMING DIMENSIONS

NOTE: THE FIREPLACE IS NOT LOAD-BEARING

Refer to Pages 14-15 for information on the 1/2" standoffs.
Refer to Pages 11-12 for information regarding supporting the fireplace hood with 1/4-20 threaded rods.

NOTE: Make sure fireplace is square in both directions prior to finishing it, or the glass will not fit properly.

<table>
<thead>
<tr>
<th>FOUR SIDED</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-4S-2-GL</td>
<td>64-3/4 [1,645]</td>
<td>56 [1,422]</td>
<td>23 [584]</td>
</tr>
<tr>
<td>6-4S-2-GL</td>
<td>76-3/4 [1,949]</td>
<td>56 [1,422]</td>
<td>23 [584]</td>
</tr>
<tr>
<td>4-4S-3-GL</td>
<td>52-3/4 [1,340]</td>
<td>68 [1,727]</td>
<td>23 [584]</td>
</tr>
<tr>
<td>5-4S-3-GL</td>
<td>64-3/4 [1,645]</td>
<td>68 [1,727]</td>
<td>23 [584]</td>
</tr>
<tr>
<td>6-4S-3-GL</td>
<td>76-3/4 [1,949]</td>
<td>68 [1,727]</td>
<td>23 [584]</td>
</tr>
</tbody>
</table>

IMPORTANT FRAMING NOTES:

FRAMING SHOULD BE BUILT AFTER THE FIREPLACE IS INSTALLED OR EXTRA CLEARANCE MUST BE PLANNED FOR AT THE INTAKE COLLAR.

THESE DIMENSIONS REPRESENT THE FRAMING DIMENSIONS FOR COMBUSTIBLE MATERIAL.

NON-COMBUSTIBLE FRAMING AND FINISHING MATERIALS MAY BE USED WITHIN THESE DIMENSIONS RIGHT UP TO THE UNIT.

NO COMBUSTIBLE MATERIAL WITHIN 6" [152] OF THE TOP OF THE FIREPLACE.

NO COMBUSTIBLE MATERIAL WITHIN 1" [25] OF THE SIDES, BACK AND FRONT OF THE FIREPLACE.

1" CLEARANCE TO THE B-VENT MUST BE MAINTAINED.
The fireplace has standoffs installed on the front of the fireplace standard from the factory. They are located on the upper left, center and right front of the fireplace and are to ensure that the 1/2" [12.7mm] required clearance to combustibles on the surface of the fireplace is maintained.

If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2" [12.7mm] minimum thickness must be used in the 15" [381mm] between the top of the 3" trim to the combustible framing the full width of the fireplace. The 15" includes a 7" [178mm] minimum above the top of the fireplace that is recommended for ease of attachment.

Refer to Figure 5.1 on below for a standard installation using the provided 1/2” standoffs. Refer to Figure 5.2 on Page 15 for requirements when not using the provided 1/2” standoffs.

**Figure 5.1**

- **COMBUSTIBLE OR NON-COMBUSTIBLE BACKING MATERIAL (I.E. SHEETROCK)**
- **COMBUSTIBLE FACING MATERIAL**
- **COMBUSTIBLE FRAMING**
- **TOP OF FIREPLACE**
- **TOP OF TRIM**
- **COMBUSTIBLE MANTEL**
- **GLASS VIEWING AREA**
- **COMBUSTIBLE HEARTH**
- **COMBUSTIBLE OR NON-COMBUSTIBLE MATERIAL**

**NOTE:** Refer to Page 36 for more information on finishing the wall.
5 - MANTEL REQUIREMENTS

NON-COMBUSTIBLE ZONE - NOT USING THE PROVIDED 1/2" STANDOFFS

The fireplace has standoffs installed on the front of the fireplace standard from the factory. They are located on the left, center and right front hood of the fireplace and are to ensure that the 1/2" [12.7mm] required clearance to combustibles on the surface of the fireplace is maintained.

If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2" [12.7mm] minimum thickness must be used in the 15" [381mm] between the top of the 3" trim to the combustible framing the full width of the fireplace. The 15” includes a 7" [178mm] minimum above the top of the fireplace that is recommended for ease of attachment.

Refer to Figure 5.2 on below for requirements when not using the provided 1/2" standoffs.
Refer to Figure 5.1 on Page 14 for a standard installation using the provided 1/2" standoffs.

NOTE: Refer to Page 37 for more information on finishing the wall.
A. GLASS FRAME ASSEMBLY IDENTIFICATION

**CAUTION:** TO PREVENT GLASS FRAME ASSEMBLY FROM FALLING FROM FIREPLACE AND BECOMING DAMAGED, FOLLOW THE INSTRUCTIONS EXACTLY WHEN REMOVING AND INSTALLING GLASS FRAME ASSEMBLY.

**STOP:** DO NOT OPERATE THIS FIREPLACE WITH THE GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF GLASS ASSEMBLY SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

**WARNING:** DO NOT REMOVE GLASS ASSEMBLY WHEN HOT!!!!

**NOTE:** GLASS REMOVAL AND INSTALLATION MUST BE PERFORMED WITH TWO PEOPLE.

**NOTE:** Glass must be removed using quality suction cups.
DO NOT attempt to remove the glass without using proper suction cups.

**NOTE:** IN CASE OF CHIPPED OR BROKEN GLASS
Due to the size and sensitivity of shipping the glass separately, it is best to have the replacement glass cut locally if needed. Have your local dealer assist you with contacting Stellar Hearth Products directly to get the proper glass specifications.
B. INSTALL GLASS FRAME ASSEMBLY

IMPORTANT: PLASTIC GLASS EDGE PROTECTORS
The fireplace is shipped with plastic edge protectors that are u-shaped channel pieces wrapped separately, and shipped on top of the glass foam packaging.

These will be placed on the outer panes of glass only prior to installing onto the fireplace. If the edge protectors are not installed, the glass may rattle during operation.
See Figure 6B.2

Inner Glass
1. Unwrap the panes of glass carefully making sure to protect the edges.
2. Apply the suction cups to the inner glass assembly, following instructions included with the suction cups.
3. Lift the glass into place. The top edge slips into the top groove; lift into the groove until the bottom is clear of the bottom trim. Slide the glass down into the inner bottom groove. See Figure 6A
4. Push vertical glass trim into place on each side. See Figure 6B.3
5. Place the long horizontal trim piece between the lower glass clips. Slide back against the vertical trim piece. See Figure 6B.3 and Figure 6B.4.

Outer Glass Edge Protectors
6. For the panes of glass that make up the outer set of glass, the top and bottom edges must be first clad in the provides plastic edge protectors.
7. Line the top and bottom edges of the outer glass with the edge protectors so that the glass edge slides completely into the channel of the edge protector from one end to the other. Press in firmly. No adhesive required. See Figure 6B.2 Long pieces of glass may need 2 or more protectors.
8. After the panes are clad in the edge protectors on the top and bottom edges, install glass into outer channels.

Outer Glass
9. Apply the suction cups to the outer unframed glass and lift it into place in the same manner as the inner glass.

C. REMOVE GLASS FRAME ASSEMBLY

1. Apply the suction cups to the outer glass panel following the instructions included with the suction cups.
2. Gently lift the glass until the bottom edge is clear of the groove it sits in.
3. Bring the bottom edge of the glass towards you while lowering it to disengage it from the top groove.
4. Sit the glass on a padded surface to protect it. IMPORTANT: Protect the glass’s edges.
5. Remove the lower trim piece that sits between the layer of glass.
6. Remove the inner trim vertical pieces.
7. Using the suction cups, remove the inner pieces in the same manner.
7 - GAS LINE SPECIFICATIONS

This fireplace is manufactured for use with Natural Gas or Propane.

CAUTION: Installation of the gas line must only be done by a qualified person in accordance with local building codes, if any. If not, follow ANSI 223.1.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ¼ psi.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than ¼ psi (3.5 kPa).

NOTE: For high altitude installations, consult Stellar Hearth Products directly for proper rating methods.

<table>
<thead>
<tr>
<th>GAS LINE CONNECTION</th>
<th>Propane</th>
<th>NG</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM INLET GAS PRESSURE</td>
<td>11.0 inches W.C.</td>
<td>7.0 inches W.C.</td>
</tr>
<tr>
<td></td>
<td>(recommended)</td>
<td>(recommended)</td>
</tr>
<tr>
<td>MAXIMUM INLET GAS PRESSURE</td>
<td>14.0 inches W.C.</td>
<td>10.0 inches W.C.</td>
</tr>
<tr>
<td>MANIFOLD PRESSURE (HI)</td>
<td>10.0 inches W.C.</td>
<td>3.5 inches W.C.</td>
</tr>
<tr>
<td>ORIFICE SIZE</td>
<td>SEE CHART ON PAGE 6</td>
<td>SEE CHART ON PAGE 6</td>
</tr>
<tr>
<td>INPUT BTU/HR</td>
<td>SEE CHART ON PAGE 6</td>
<td>SEE CHART ON PAGE 6</td>
</tr>
</tbody>
</table>

Figure 7

8 - VENTING

CAUTION: Consult the local and national installation codes to assure adequate combustion and ventilation air is available.

NOTE: Flame height and appearance will vary depending upon venting configuration and type of fuel used. Venting requirements apply to both Natural and Propane gas.

STOP: MAINTAIN ALL CLEARANCES AS STATED IN THIS INSTALLATION MANUAL.
A. APPROVED VENTING

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DESCRIPTION</th>
<th>B-VENT</th>
<th>OA</th>
<th>REG PV</th>
<th>IN-LINE PV</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-4S-2-GL</td>
<td>4X2 FOUR SIDED</td>
<td>8’</td>
<td>10’</td>
<td>RS012</td>
<td>RSIF160</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>5-4S-2-GL</td>
<td>5X2 FOUR SIDED</td>
<td>8’</td>
<td>10’</td>
<td>RS012</td>
<td>RSIF160</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>6-4S-2-GL</td>
<td>6X2 FOUR SIDED</td>
<td>10’</td>
<td>10’</td>
<td>RS014</td>
<td>RSIF180</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>7-4S-2-GL</td>
<td>7X2 FOUR SIDED</td>
<td>10’</td>
<td>10’</td>
<td>RS014</td>
<td>RSIF180</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>4-4S-3-GL</td>
<td>4X3 FOUR SIDED</td>
<td>8’</td>
<td>10’</td>
<td>RS012</td>
<td>RSIF160</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>5-4S-3-GL</td>
<td>5X3 FOUR SIDED</td>
<td>8’</td>
<td>10’</td>
<td>RS012</td>
<td>RSIF160</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>6-4S-3-GL</td>
<td>6X3 FOUR SIDED</td>
<td>10’</td>
<td>10’</td>
<td>RS014</td>
<td>RSIF180</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
<tr>
<td>7-4S-3-GL</td>
<td>7X3 FOUR SIDED</td>
<td>10’</td>
<td>10’</td>
<td>RS014</td>
<td>RSIF180</td>
<td>120</td>
<td>5.8</td>
<td>.35</td>
</tr>
</tbody>
</table>

Refer to the vent systems manufacturer's installation manual for complete installation instructions. Installation must conform with the venting requirements and restrictions as outlined in this manual. SEE CHART ABOVE FOR SIZE diameter B-Type Venting that must be used. UL/CSA approved B-Vent only.

DO NOT decrease the vent size.

Vent runs are approved for up to 110 feet with quantity of 11, 90 degree elbows. This is not the case with all instances. Vent runs that don’t meet the approved limitations listed (up to 110ft with up to 11 90 degree elbows) must be reviewed and approved by Stellar Hearth Products.

Vent runs may also contain a downward component. The downward component may be a maximum of 6 feet plus the distance to the center line of the elbow. (Figure 8A.1)
This will be about 87” for 8” diameter pipe and 92” for 10” diameter pipe. Due to natural buoyancy of flue gas products, venting downward increases restriction. Every inch of vertical drop counts as triple inches subtracted off the total vent run.

Example: a maximum drop of 92” means the total allowed vent run is decreased to 276” (23’)

Once a downward component has been utilized, the vent cannot go upwards again, moisture may get trapped in the vent pipe.

Important: Be sure to do your own calculations based on the center line dimension given from the pipe manufacture you are using for your installation.

Available In-Line Power Venting
An in-line power vent (RSIF series from Enervex) is approved for use with Stellar fireplaces. The in-line power vent must be specified and approved for use by Stellar Hearth. Vent runs after the in-line power vent may use a pressure approved pipe, but it is not required. If you use B-Vent after an in-line power vent it is crucial that all pipe and elbow joints, and the longitudinal seam are sealed using an high heat approved mastic or foil tape.

NOTE: All pipe and elbow joints must be sealed. This includes the longitudinal seam on the pipe. High Temp RTV Silicone and/or foil tap MUST be used on each joint/seam. Failure to do so may cause lack of vacuum and may not trigger the vacuum switch.

B. HORIZONTAL VENT SYSTEM CLEARANCES

<table>
<thead>
<tr>
<th>ALL APPROVED VENTING</th>
<th>TOP</th>
<th>BOTTOM</th>
<th>SIDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORIZONTAL</td>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
</tr>
</tbody>
</table>

C. WALL PASS-THROUGH - Follow all local codes for requirement of firestops.
D. IN-LINE POWERVENT PREPARATIONS - RSIF 180

10" B-Vent Intake Collar - RSIF 180

When installing a fireplace in conjunction with the Enervex RSIF180 In-Line Powervent System, you will need to attach the provided 10" B-vent collar (Figure 8D.1) to the intake side of the powervent which is the side opposite from the fan motor. (Figure 8D.2)

10" B-Vent Collar
RSIF 180 Only
(Packaged Separately)

Intake Side - RSIF180

The intake side will have a silhouette circle printed on it and 5 pre-drilled screw holes to match the holes on the intake collar's base plate. (Figure 8D.3)

Place the intake collar onto the silhouette, match up the holes, and affix with the 5 self-tapping screws found in the installation manual bag. (Figure 8D.4)

Exhaust Side - RSIF180

IMPORTANT NOTE:
On the exhaust side of the RSIF 180,
YOU WILL NEED TO USE AN 8" TO 10" INCREASER
NOT INCLUDED WITH FIREPLACE (Figure 8D.5)

Purchase this adapter with the applicable B-Vent brand or vent pipe used. The increaser will connect directly to the 8" outlet collar of the powervent. Then connect your 10" B-Vent to the collar and continue the vent run.
**E. PDS-1 INSTALLATION**

NOTE: The four sided fireplace utilizes an external draft switch (PDS-1). This needs to be installed at the time the venting is installed. The installation instructions are included in the box with the PDS-1 kit. Please read fully prior to installation. Additional wiring information can be found on Page 35.

---

**PDS-1 Proven Draft Switch - Four Sided Fireplace Only**

Complete Installation Instructions Provided In The PDS-1 Box

### GENERAL

The PDS 1 is for indoor installation only. The PDS 1 must be installed in a vertical position with the pressure connection pointing down. Secure the switch by using the mounting holes as shown on the figure. After installation connect the tubing from the probe onto the port marked accessible through the small of the plastic enclosure. Connect tubing to the NEGATIVE (-) port on the PDS.

Factory wiring comes with three wires that are already crimped onto the PDS. The purpose of these wires is to provide a point in which you can extend the length of the wire by using wire nuts and additional wire (not provided).

### INSTALLATION OF STACK PROBE FOR PDS 1

A stack probe is used with ENERVEX Proven Draft Switches (PDS). The PDS 1 monitors the pressure inside the stack and signals the control to shut down the appliance if insufficient draft exists inside the stack. The probe must be installed between the appliance and the exhaust fan.

For all installations, the stack probe must be placed so the flow through the stack is perpendicular to the tip of the probe. Locate the probe at least the distance “A” away from any elbows or tees in the stack. The distance “A” is defined as at least three (3) vent diameters; A ≥ 3”V (see figure below). To prevent condensation from entering the probe or PDS when installed on a horizontal stack, the probe must be installed above the centerline of the stack. For fireplace installations, the stack probe should be installed as close to the exhaust fan as possible.

For the PDS to function properly, the probe must be placed in a location that can produce at least 0.05 inWC in the stack. In order to produce an accurate pressure reading, the tip of the probe must be mounted flush with the inside of the stack wall (it should never extend more than 1/16" beyond the wall). For a double walled stack, the tip should be flush with the inner most wall.

To mount the probe, drill a clearance hole through the stack wall(s). Insert the probe and attach the bracket to the stack using (2) customer provided self-tapping machine screws. Tighten the end cap to compress the ferrule and permanently install the stack probe. Attach the supplied silicon tubing at the other end of the probe.
F. VERTICAL TERMINATIONS

- The custom fireplace must terminate with the included approved powered termination cap.
- NO SUBSTITUTION IS ACCEPTABLE.
- Carefully follow the instructions included with the approved powered termination cap.
- DO NOT use an additional speed control on this powervent.
- You must use the included Capacitor.

G. HORIZONTAL TERMINATION VENT CAP LOCATION & CLEARANCES

This gas appliance must not be connected to a chimney serving any other appliance.

- Terminations against vinyl siding must use a vinyl siding protector. Follow instructions included.
- DO NOT RECESS TERMINATION KIT INTO OUTSIDE BUILDING MATERIALS - i.e.: brick, stone, siding, etc. If necessary, extend framing so that termination kit will be exposed once building materials are installed.
- Vent termination must not be located where it will become plugged by snow or other material. The flow of combustion and ventilation air must be not obstructed.

LOCATION CLEARANCES:

A. Above grade, veranda, porch, deck, balcony - 12” (305 mm).
B. Operable window or door - US: 30” (762 mm).
C. Permanently closed window* - 12” (305 mm) (recommended to prevent condensation on window).
D. Ventilated soffit* - 24” (610 mm).
E. Unvented soffit* - 12” (305 mm).
F. Outside corner* - 12” (305 mm).
G. Inside corner* to non-combustibles - 12” (305 mm).
H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3 ft. (914 mm) horizontally from the center-line of the regulator.
I. Gas Service regulator vent outlet - 3 ft. (914 mm).
J. Non-mechanical air supply inlet to building or the combustion air inlet to any other appliance.
   - CANADA: 12” (305 mm). US: 9” (229 mm).
K. Mechanical air supply inlet.
   - CANADA: 6 ft. (1.83 m) US: 3 ft. (914 mm) above if within 10 ft. (3.05 m) horizontal
     Massachusetts installations: 10 ft. (3.05 m).
L. Above paved side-walk or paved driveway located on public property - 7 ft. (2.13 m).
M. Under veranda, porch, deck, or balcony (must be fully opened on a minimum of 2 sides) - 18” (475 mm).
N. Between two horizontal terminations - 12” (305 mm).
O. Between two vertical terminations - 12” (305 mm). Terminations may be same height.
P. Above furnace exhaust or inlet - 12” (305 mm).

*Clearance must be in accordance with local installation codes & the requirements of the gas supplier.

NOTE: A vent cannot be located directly above a side-walk or paved driveway that is located between two single family dwellings and serves both dwellings.
Inside Corner

A = Combustible 24" (609.6mm)
= Non-combustible 12" (304.8mm)

Outside Corner

F = Combustible 6" (152mm)
= Non-combustible 6" (152mm)

Recessed Location

Balcony with perpendicular side wall

G = Combustible 24" (609.6mm)
= Non-combustible 12" (304.8mm)

Balcony with no side wall

H = Combustible 24" (609.6mm)
= Non-combustible 12" (304.8mm)

C = Clearance from corner in recessed location
  = Combustible 24" (609.6mm)
  = Non-combustible 12" (304.8mm)

D = Minimum width for back wall of a recessed location
  = Combustible 64" (1,625.6mm)
  = Non-combustible 40" (1,016mm)

E = Maximum depth of 48" (1,219mm) for recessed location

Figure 8G.2

IMPORTANT:
All dimensions are from the edge of the cap.
# 8 - VENTING

## H. VERTICAL VENT CAP LOCATION AND CLEARANCES

<table>
<thead>
<tr>
<th>ROOF PITCH</th>
<th>H (Min.) Ft.</th>
<th>H (Min.) M</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAT TO 6/12</td>
<td>1.0&quot;</td>
<td>0.30</td>
</tr>
<tr>
<td>OVER 6/12 TO 7/12</td>
<td>1.25&quot;</td>
<td>0.38</td>
</tr>
<tr>
<td>OVER 7/12 TO 8/12</td>
<td>1.5&quot;</td>
<td>0.46</td>
</tr>
<tr>
<td>OVER 8/12 TO 9/12</td>
<td>2.0&quot;</td>
<td>0.61</td>
</tr>
<tr>
<td>OVER 9/12 TO 10/12</td>
<td>2.5&quot;</td>
<td>0.76</td>
</tr>
<tr>
<td>OVER 10/12 TO 11/12</td>
<td>3.25&quot;</td>
<td>0.99</td>
</tr>
<tr>
<td>OVER 11/12 TO 12/12</td>
<td>4.0</td>
<td>1.22</td>
</tr>
<tr>
<td>OVER 12/12 TO 14/12</td>
<td>5.0</td>
<td>1.52</td>
</tr>
<tr>
<td>OVER 14/12 TO 16/12</td>
<td>6.0</td>
<td>1.83</td>
</tr>
<tr>
<td>OVER 16/12 TO 18/12</td>
<td>7.0</td>
<td>2.13</td>
</tr>
<tr>
<td>OVER 18/12 TO 20/12</td>
<td>7.5</td>
<td>2.27</td>
</tr>
<tr>
<td>OVER 20/12 TO 21/12</td>
<td>8.0</td>
<td>2.44</td>
</tr>
</tbody>
</table>

* = 3 foot minimum in snowy regions

---

Figure 8H

---

* = 24" TO A COMBUSTIBLE SIDE WALL
12" TO A NON-COMBUSTIBLE SIDE WALL

IMPORTANT: ALL DIMENSIONS ARE FROM THE EDGE OF THE CAP
I. ROOF TERMINATION CAP INSTALLATION - WITH AND WITHOUT DAMPER

Roof Termination Without Optional Damper
Figure 8I.2

Roof Termination With Optional Damper
Figure 8I.1
8 - VENTING

J. WALL TERMINATION - WITH AND WITHOUT DAMPER

Wall Termination With Optional Damper
Figure 8J.1

Wall Termination Without Optional Damper
Figure 8J.2

FRAMING:
8" = 11-3/4" W X 11-3/4" H
10" = 13-1/4" W X 13-1/4" H
**K. INTAKE AIR**

This fireplace has options of air intake connections on the side and the bottom of the fireplace.  
*This fireplace is approved for use with 10 inch rigid metal pipe or UL approved Class 1 10 inch insulated flex for intake air.* 
Use Table 8K.1 for venting requirements if using UL approved Class 1, 10 inch insulated flex for intake air.

If using 10 inch rigid metal pipe, insulate all exposed pipe against cold air/frost.  Vent runs for 10 inch rigid metal pipe may be 110 feet with 11 elbows.

The intake pipe must maintain 1.5X the square inches of the flue pipe in free area.  
Intake screen/vent must be sized appropriately.  Failure to do so will result in higher operating temperatures.

Do not take intake air from a crawl or attic space.

The fireplace may also take room air for combustion.  Intake screen/vent must be sized appropriately.  
You must plan for the replacement air that is consumed front the room by the fireplace.  
Use Table 8K.2 for reference on CFM replacement air if drawing intake air from inside the house and open air requirements for intake screen/vent or consult Stellar Hearth Products for more information.

<table>
<thead>
<tr>
<th>Fireplace Size</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>Length of Run</th>
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<tbody>
<tr>
<td>4'</td>
<td>100</td>
<td>90</td>
<td>80</td>
<td>70</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>5'</td>
<td>45</td>
<td>35</td>
<td>25</td>
<td>15</td>
<td>5</td>
<td>N/A</td>
</tr>
<tr>
<td>6'</td>
<td>70</td>
<td>60</td>
<td>50</td>
<td>40</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>7'</td>
<td>32</td>
<td>20</td>
<td>15</td>
<td>10</td>
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</tr>
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</table>

**Figure 8K.1**

**Figure 8K.2**

<table>
<thead>
<tr>
<th>Fireplace Size</th>
<th>Required CFM</th>
<th>Open Air Requirement</th>
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<tr>
<td>4'</td>
<td>480 CFM</td>
<td>78 Sq. Inches</td>
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<tr>
<td>5'</td>
<td>640 CFM</td>
<td>78 Sq. Inches</td>
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<tr>
<td>6'</td>
<td>800 CFM</td>
<td>78 Sq. Inches</td>
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<tr>
<td>7'</td>
<td>960 CFM</td>
<td>78 Sq. Inches</td>
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</table>

**L. CHANGING FROM SIDE INTAKE AIR TO BOTTOM INTAKE AIR**

Step 1: Remove 4 screws that hold collar plate in place.  
Refer to Figure 8L.1

Step 2: Slide collar plate off fireplace.  
Refer to Figure 8L.2

Step 3: Turn plate so collar is facing down, slide plate into slots on each side.  Refer to Figure 8L.3A and Figure 8L.3B

Step 4: Re-attach the plate with four screws.  
Refer to Figure 8L.4

<table>
<thead>
<tr>
<th>Fireplace Side</th>
<th>Length of Run</th>
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</thead>
<tbody>
<tr>
<td>4'</td>
<td>100 ft 90 ft 80 ft 70 ft 60 ft 50 ft</td>
</tr>
<tr>
<td>5'</td>
<td>45 ft 35 ft 25 ft 15 ft 5 ft N/A</td>
</tr>
<tr>
<td>6'</td>
<td>70 ft 60 ft 50 ft 40 ft 30 ft 20 ft</td>
</tr>
<tr>
<td>7'</td>
<td>32 ft 20 ft 15 ft 10 ft --- ---</td>
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</tbody>
</table>

**Figure 8L.1**

**Figure 8L.2**

**Figure 8L.3A**

**Figure 8L.3B**

**Figure 8L.4**

**Figure 8M.4**
Each fireplace will have four points of access for installation and service. There are access panels on the pilot side of the fireplace front, side and rear of the fireplace. Plan in advance of the installation which access location will be used and accommodate for it in the finish work to allow for easy access to service later. You also have access through the interior of the fireplace by removing the mesh on the burner pan in the pilot area.

There are gas and electrical gas knock-outs on the bottom if you need to come up from below the fireplace.

Figure 9A
**NOTES:**

1. **120 VOLT LOOP**
2. **CONNECT TO CONSTANT POWER SOURCE**
3. **DO NOT SHARE NEUTRAL**
4. **FROM SPEED CONTROL**
5. **OPTIONAL**
6. **OPTIONAL, USE PURPLE AND WHITE, NOT RED**
7. **FOUR SIDED ONLY**

---

**FUNCTION**

<table>
<thead>
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<th>#</th>
<th>FUNCTION</th>
<th>NOTES</th>
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<tr>
<td>1</td>
<td>120 VAC SW2 LIGHTS</td>
<td>120 VOLT LOOP</td>
</tr>
<tr>
<td>2</td>
<td>120 VAC SW2 LIGHTS</td>
<td>120 VOLT LOOP</td>
</tr>
<tr>
<td>3</td>
<td>120 VAC SW1 MAIN FLAME</td>
<td>120 VOLT LOOP</td>
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<tr>
<td>4</td>
<td>120 VAC SW1 MAIN FLAME</td>
<td>120 VOLT LOOP</td>
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<tr>
<td>5</td>
<td>120 VAC SUPPLY</td>
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<td>6</td>
<td>NEUTRAL</td>
<td>CONNECT TO CONSTANT POWER SOURCE</td>
</tr>
<tr>
<td>7</td>
<td>NEUTRAL POWERVENT</td>
<td>DO NOT SHARE NEUTRAL</td>
</tr>
<tr>
<td>8</td>
<td>120VAC POWERVENT</td>
<td>FROM SPEED CONTROL</td>
</tr>
<tr>
<td>9</td>
<td>24VAC FLUE DAMPER POWER</td>
<td>OPTIONAL</td>
</tr>
<tr>
<td>10</td>
<td>24VAC FLUE DAMPER NEUTRAL</td>
<td>OPTIONAL</td>
</tr>
<tr>
<td>11</td>
<td>SW3 FLUE DAMPER PROVE</td>
<td>OPTIONAL, USE PURPLE AND WHITE, NOT RED</td>
</tr>
<tr>
<td>12</td>
<td>SW3 DAMPER PROVE</td>
<td>OPTIONAL, USE PURPLE AND WHITE, NOT RED</td>
</tr>
<tr>
<td>13</td>
<td>CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH</td>
<td>FOUR SIDED ONLY</td>
</tr>
<tr>
<td>14</td>
<td>CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH</td>
<td>FOUR SIDED ONLY</td>
</tr>
</tbody>
</table>
To light the fireplace: Activate the switch. The fireplace has a pre and post timer, set at the factory for 30 seconds. The powervent and flame will not turn on for 30-60 seconds after switch is activated and the powervent will run for 30 seconds after it has been shut off.

### TIMER RELAY SETTINGS
- **RELAY TOP:**
  - **FIRST DIAL:** SET TO “1”
  - **SECOND DIAL:** SET TO “.5”
  - **THIRD DIAL:** SET TO “1”

**LED STATUS:**
- **GREEN = POWER APPLIED, POWERVENT OFF**
- **RED FLASHING = TIMING PERIOD, PRE OR POST PURGE**
- **RED SOLID = CLOSED STATE, POWERVENT ON**

### 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP
- 120 VOLT LOOP

### CONNECTED TO CONSTANT POWER SOURCE
- CONNECT TO CONSTANT POWER SOURCE
- CONNECT TO CONSTANT POWER SOURCE

### POWER VENT
- 120VAC SW2 LIGHTS
- 120VAC SW2 LIGHTS
- 120VAC SW1 MAIN FLAME
- 120VAC SW1 MAIN FLAME
- 120VAC SW2 LIGHTING
- 120VAC SW2 LIGHTING

### NEUTRAL
- NEUTRAL
- NEUTRAL
- NEUTRAL
- NEUTRAL
- NEUTRAL
- NEUTRAL
- NEUTRAL
- NEUTRAL

### FUNCTION NOTES:
- 1. 120VAC SW2 LIGHTS
- 2. 120VAC SW2 LIGHTS
- 3. 120VAC SW1 MAIN FLAME
- 4. 120VAC SW1 MAIN FLAME
- 5. 120VAC SW2 LIGHTING
- 6. 120VAC SW2 LIGHTING
- 7. 24VAC FLUE DAMPER POWER
- 8. 24VAC FLUE DAMPER POWER
- 9. 24VAC FLUE DAMPER POWER
- 10. 24VAC FLUE DAMPER POWER
- 11. 24VAC FLUE DAMPER POWER
- 12. 24VAC FLUE DAMPER POWER
- 13. CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY)
- 14. CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY)
D.1 TERMINALS 1 & 2 - LED Lights

TERMINALS 1 AND 2
LED LIGHTING

TERMINAL #2 HAS 120VAC POWER
TO SUPPLY A SWITCH, RELAY, TIMER, REMOTE, ETC.

TERMINAL #1 RETURNS 120VAC POWER
TO ACTIVATE TO ACTIVATE THE LED DRIVER.

Figure 9D.1
Terminals 1 & 2

D.2 TERMINALS 3 & 4 - Main Flame

TERMINALS 3 AND 4
MAIN FLAME

TERMINAL #4 HAS 120VAC POWER
TO SUPPLY A SWITCH, RELAY, TIMER, REMOTE, ETC.

TERMINAL #3 RETURNS 120VAC POWER
TO ACTIVATE TO MAIN FLAMES.

Figure 9D.2
Terminals 3 & 4
D.3 TERMINALS 5 & 6 - Fireplace Power

TERMINALS 5 AND 6

FIREPLACE POWER

TERMINAL #5 IS THE 120VAC POWER SUPPLY FOR THE FIREPLACE. THIS IS A CONSTANT POWER SUPPLY AND SHOULD NOT BE SWITCHED. A SERVICE DISCONNECT MAY BE DESIRED.

TERMINAL #6 IS THE NEUTRAL CONNECTION.

Figure 9D.3
Terminals 5 & 6

D.4 TERMINALS 7 & 8 - Powervent Connection

TERMINAL #7 IS THE NEUTRAL CONNECTION FOR THE POWERVENT MOTOR.

TERMINAL #8 IS THE HOT CONNECTION FOR THE POWERVENT MOTOR FROM THE SPEED CONTROL.

POWERVENT POWER MUST COME FROM THE TERMINAL BLOCK AND NOT ANY OTHER POWER SOURCE.

Figure 9D.4
Terminals 7 & 8
D.5 TERMINALS 9 & 10 - OPTIONAL Flue Damper Connection

Figure 9D.5
Terminals 9 & 10

TERMINAL #9 IS THE NEUTRAL CONNECTION FOR THE DAMPER MOTOR, BLACK WIRE
TERMINAL #10 IS THE HOT CONNECTION FOR THE DAMPER MOTOR, RED WIRE

THIS IS LOW VOLTAGE AND EXTERNAL POWER MUST NOT BE APPLIED.

TERMINALS 9 AND 10
FLUE DAMPER CONNECTION

NOTE: OPTIONAL
IF A DAMPER IS NOT USED DO NOT CONNECT ANYTHING TO TERMINALS 9 & 10

D.6 TERMINALS 11 & 12 - OPTIONAL Flue Damper Prove

Figure 9D.6
Terminals 11 & 12

TERMINAL #11 CONNECTS TO THE WHITE WIRE FROM THE TRIPLE WIRE LEAD ON THE DAMPER MOTOR.
TERMINAL #12 CONNECTS TO THE PURPLE WIRE FROM THE TRIPLE WIRE LEAD ON THE DAMPER MOTOR.

THIS IS LOW VOLTAGE AND EXTERNAL POWER MUST NOT BE APPLIED.

TERMINALS 11 AND 12
FLUE DAMPER PROVE

NOTE: OPTIONAL
IF A DAMPER IS NOT USED TERMINALS 11 AND 12 HAVE A JUMPER ACROSS THEM
NOTE: YOU WILL NEED TO USE THE PSD-01 REMOTE LOCATED FLUE PRESSURE SWITCH. FOLLOW THE INSTRUCTIONS INCLUDED WITH THE SWITCH.

TERMINALS 13 AND 14
PRESSURE SWITCH
FOUR SIDED UNITS ONLY
FACTORY WIRED FOR ALL OTHERS

TERMINAL #13 CONNECTS TO THE "COM"
OR "NO" TERMINALS IN THE PDS-01 VACUUM SWITCH FOR FIREPLACE 1.

TERMINAL #14 CONNECTS THE THE "COM"
OR "NO" TERMINALS IN THE PDS-01 VACUUM SWITCH FOR FIREPLACE 1.
A. No combustible materials may be within 6" [152mm] of the top of the fireplace.
B. 1/2" [12.7] CLEARANCE TO COMBUSTIBLES ON SURFACE. The fireplace ships with standoffs in place to ensure a 1/2" clearance to combustibles is maintained on the surface. See Figure 10A.1. If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2" [12.7mm] minimum thickness must be used in the 15" [381mm] between the top of the 3" trim to the combustible framing the full width of the fireplace. The 15" includes a 7" [178mm] minimum above the top of the fireplace that is recommended for ease of attachment. See Figure 10A.2
C. Combustible material may cover the non-combustible area mentioned in B.
D. Combustible finishing materials allowed.
E. Combustible mantel may be placed above the top of the glass viewing area. There are no restrictions on mantel depth.
F. Combustible hearth may be placed below the bottom of the glass viewing area.
G. Flat covers will cover the components access. Gas and electric inlets are located behind this panel. There are four access panel options all located on the pilot side of the fireplace: front (shown above), side, back and inside behind the glass.

Please take consideration of which option will be used to access the components for service later during planning.
I. Combustible framing and finishing materials allowed.
A. No combustible materials may be within 6” [152mm] of the top of the fireplace.
B. 1/2” [12.7] CLEARANCE TO COMBUSTIBLES ON SURFACE. The fireplace ships with standoffs in place to ensure a 1/2” clearance to combustibles is maintained on the surface. See Figure 10A.1. If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2” [12.7mm] minimum thickness must be used in the 15” [381mm] between the top of the 3” trim to the combustible framing the full width of the fireplace. The 15” includes a 7” [178mm] minimum above above the top of the fireplace that is recommended for ease of attachment. See Figure 10A.2
C. Combustible material may cover the non-combustible area mentioned in B.
D. Combustible finishing materials allowed.
E. Combustible mantel may be placed above the top of the glass viewing area. There are no restrictions on mantel depth.
F. Combustible hearth may be placed below the bottom of the glass viewing area.
G. Flat covers will cover the components access. Gas and electric inlets are located behind this panel. There are four access panel options all located on the pilot side of the fireplace; front (shown above), side, back and inside behind the glass.
   Please take consideration of which option will be used to access the components for service later during planning.
I. Combustible framing and finishing materials allowed.
DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE

WHAT TO DO IF YOU SMELL GAS:

- Do not touch any electrical switches
- Do not try to light any appliance
- Do not use the phone in your building
- Immediately call your gas supplier from a neighbor’s phone
- Follow the gas supplier’s instructions
- If you cannot reach your gas supplier, call the fire department

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE

NOTE: A PAINT SMELL WILL OCCUR DURING THE FIRST FEW HOURS OF BURNING.

NOTE: THIS FIREPLACE MAY PRODUCE NOISES OF VARYING DEGREE AS IT HEATS AND COOLS DUE TO METAL EXPANSION AND CONTRACTION. THIS IS NORMAL AND DOES NOT AFFECT THE PERFORMANCE OR LONGEVITY OF THE FIREPLACE.

A. LIGHTING THE FIREPLACE

To light the fireplace:
Activate the switch.
The fireplace has a pre and post timer, set at the factory for 30 seconds. The powervent and flame will not turn on for 30-60 seconds after switch is activated and the powervent will run for 30 seconds after it has been shut off.
11 - LIGHTING & SHUTDOWN

STOP! Read safety information on previous page and front cover of this manual before continuing.

NOTE: This fireplace is equipped with an ignition device which automatically lights the pilot. DO NOT try to light the pilot by hand.

B. IF THE FIREPLACE DOES NOT LIGHT

1. Turn off the fireplace at switch.
2. Turn off all electrical power to fireplace.
3. Wait five (5) minutes to allow any gas that may have accumulated inside firebox to escape. If you then smell gas, STOP! Follow safety information on front cover and on previous page of the installation manual. If you don't smell gas, go to next step.
4. Turn ON all electrical power to fireplace.
5. Turn fireplace on at switch.

CAUTION: If fireplace will not operate, follow instructions TURNING OFF GAS TO FIREPLACE and call your service technician or the gas supplier.

NOTE: When fireplace is initially lit, condensation will appear on the glass; this is normal in all gas fireplaces and will disappear after several minutes.

Figure 11B
12 - PRESSURE TESTING

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than ½ psi (3.5 kPa).

INLET PRESSURE TEST

1. The valve has an Allen plug on the inlet and outlet.
2. Install a barb fitting on the tap you want to measure.
3. Light the fireplace, check the pressure.
4. Turn off fireplace; reinstall plug.
5. Check for leaks.

CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION

NOTE: If inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust incoming gas pressure.

13 - FINALIZING THE INSTALLATION

A. INSTALLING THE MEDIA

Figure 13A

Place the supplied glass media into the base tray.
Cover the base evenly. Do not use more than the supplied amount.

Do not get any glass media into the pilot area; a hazardous condition could result!

You should be able to see the burner slightly through the media.
If you can't, push the media back from the burner.
Smaller flames will result from too much media over the burner.

NOTE: DO NOT SUBSTITUTE THE SUPPLIED MEDIA WITH ANY OTHER KIND OF MEDIA WITHOUT WRITTEN APPROVAL OF STELLAR HEARTH PRODUCTS.

B. FLAME APPEARANCE

Flame appearance is affected by several factors including altitude, venting configuration and fuel quality. Although the venturi setting has been factory set, adjustments may be necessary for optimal performance and visual aesthetics.

When fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during first 15 minutes of operation. If flames remain blue, or become dark orange with evidence of sooting (black tips), the burner tube venturi may need adjustment. Contact Stellar Hearth.
14 - MAINTENANCE

The appliance is required to be inspected at least once a year by a professional service person. The compartment below firebox (behind lower access panel) must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. It is imperative that the burner be cleaned once a year.

VALVE AND ELECTRICAL ACCESS

There is an access panel under the floor of the firebox should more extensive service be needed. Remove the inner and outer glass panels. Remove the glass media on the end with the pilot. The end floor lifts out; remove the screws and lift it out. Remove the burner and loosen the pilot bracket. There is a panel under the floor you removed. Remove the 6 screws and slide the panel up.

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATION AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

A. VENT SYSTEM

- Annual examination of venting system by a qualified agency is required.
- IF VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, RE-INSTALL PER INSTRUCTIONS PROVIDED WITH INITIAL INSTALLATION.
- The flow of combustion air must not be obstructed.

B. GLASS CLEANING & REPLACEMENT

- Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this fireplace with glass/frame assembly removed, cracked or broken.
- The glass assembly shall only be replaced as a complete unit, as supplied by Stellar Hearth Products.
- Replacement of glass & frame assembly, must only be performed by a licensed or qualified service person.
- DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass door assembly.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING. KEEP APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS. VAPORS AND LIQUIDS.

C. REPLACEMENT PARTS LIST

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<td>Honeywell Smart Valve</td>
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<td>Vacuum Switch</td>
<td>Cleveland Controls</td>
<td>AFS-405</td>
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