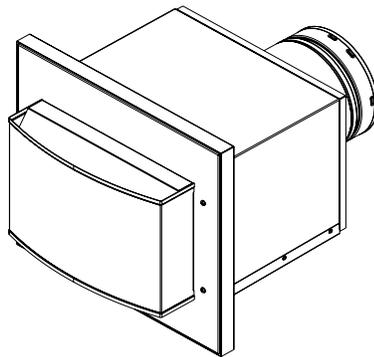


PVLP-SLP-AU

Power Vent Low Profile

- Installation Instructions -



Suitable for models under coverage of certificates GMK10222, GMK10477, GMK10486, GMK10489 and GMK10616 AS/NZS 5263.1.3

NOTICE



DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



1 Introduction

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Installation of the PVLP-SLP-AU may be done by a qualified service technician only. Installation MUST comply with local, regional, state and national codes and regulations.

IMPORTANT: Failure to read and follow these instructions may create a possible hazard and will void the appliance warranty.

These instructions must remain with the equipment.

CAUTION! Risk of Cuts or Abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

INTRODUCTION

The Power Vent Low Profile (PVLP-SLP-AU) is certified for use as a horizontal termination cap only on appliances manufactured by Hearth & Home Technologies with IPI (intermittent pilot ignition) gas controls. Appliances equipped with millivolt type gas controls CANNOT use this product.

NOTE: PVLP-SLP-AU requires special control system configurations:

- The battery-backup feature cannot be used with models configured with the PVLP-SLP-AU.
- The wired wall switch feature is required to be used with models configured with the PVLP-SLP-AU.

NOTE: The battery back-up of any IPI system are removed when the PVLP-SLP-AU power vent is installed. The appliance may no longer be operated with battery back-up.

The PVLP-SLP-AU operates on 240VAC, 50Hz electrical service see Section 4.A for wiring diagram.

A. Components and Service Parts List

Service Parts List

Replacement parts can be obtained from your dealer. Repair of the Power Vent should only be done by a qualified service technician.

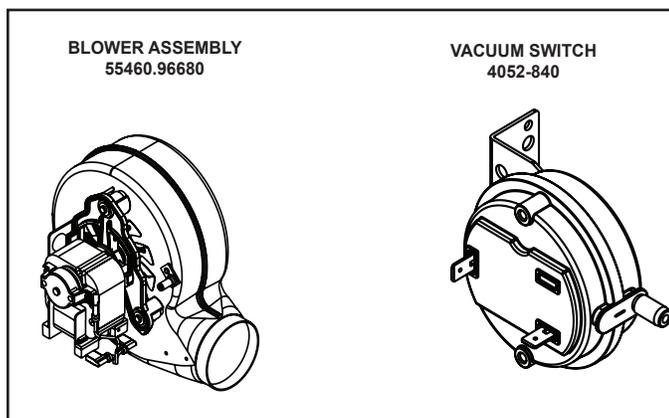


Figure 1.1 Service Parts

IMPORTANT OPERATIONAL NOTE: When the wall switch is being used to run the appliance is activated, a 2 minute delay will occur before power is provided to the appliance. This is to allow a pre-purge by the PVLP-SLP-AU. If, after 135 seconds, the pilot and burner do not light, refer to the Troubleshooting section of this instruction for further direction. There will also be a 20-minute post-purge in which the PVLP-SLP-AU will continue to run after appliance is turned off.

NOTICE: The fan motors present in this power vent will generate sound during operation. The effects of the increased sound level can be minimized with careful planning during installation of the system.

B. Installation of PVLP-SLP-AU

1. INSTALLATION PRECAUTIONS

- This device must be installed by a qualified installer in accordance with these instructions.
- Safety inspection of the venting system should be performed before and after installation of this power vent. Consult local code officials and follow applicable installation codes.
- DO NOT INSTALL DAMAGED EQUIPMENT OR VENT COMPONENTS.**
- Disconnect electrical power supply before making wiring connections.
- Venting of more than one appliance in a common vent system is prohibited.
- Clearances between the vent pipe and combustible materials must be maintained at 1-1/2 in. (38 mm) top, 1 in. (25 mm) sides and bottom.
- All outer pipe joints must be sealed with silicone (with a minimum of 300 °F (149 °C) continuous exposure rating). See Section 2.A.

CAUTION! Failure to install, operate, and maintain the power venting system in accordance with manufacturer's instructions will result in conditions which may produce bodily injury and/or property damage.

2. INSTALLATION GUIDELINES

- The exit termination of mechanical draft systems shall not be less than 7 ft. (2.13 m) above grade when located adjacent to public walkways.
- A mechanical drafting venting system shall terminate at least three feet above any forced air inlet located within 10 ft. (3.05 m).
- A PVLP-HS heat shield is available and sold separately if the PVLP-SLP-AU is installed in an accessible area.

d. If the PVLP-SLP-AU will be installed in a location where the exhaust housing assembly needs to be removed for service or maintenance, the pipe must be installed to allow for a minimum of 18 in. (457 mm) of pipe to be removed at the time of service. This will allow adequate space to remove the exhaust housing assembly.

2 Vent Information and Diagrams

A. Installation of Vent Pipe

For information on standard procedures for venting the appliance, refer to the "Vent Information and Diagrams" section of the appliance installation manual.

For the allowable pipe lengths and elbow combinations for an appliance utilizing the PVLP-SLP-AU, consult the Power Vent diagrams in the Vent Information and Diagrams section of the appliance installation manual. The PVLP-SLP-AU uses SLP pipe (6-5/8 in. (168 mm) connections).

In certain cases, a pipe adapter may be used in the vent run. The DVP-2SL adapts from 5 in. / 8 in. (127 mm / 203 mm) DVP series starting collars to 4 in. / 6-5/8 in. (102 mm / 168 mm) SLP series vent pipe. A DVP-SLP24 may also be used to transition from a DVP to SLP pipe when using this cap.

Either SLP or DVP venting may be used throughout the vent run except on certain models that require DVP pipe. See Table 2.1. Refer to Section 2.B for more information regarding venting regulations.

All outer pipe joints must be sealed with silicone (with a minimum of 300 °F (149 °C) continuous exposure rating), including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections. See Figure 2.1.

OR

- Apply the aluminum foil tape (300 °F (149 °C) minimum continuous exposure rating) to the outside of connecting joint after joining sections. On horizontal pipe runs, it is recommended that the tape seam is positioned on the bottom side of the vent pipe.
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

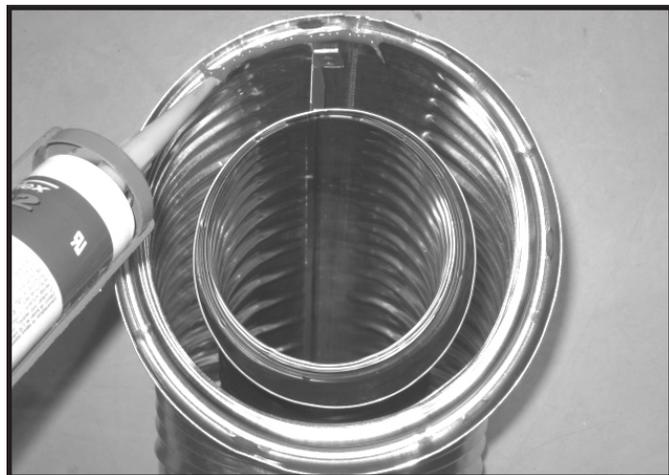


Figure 2.1 Silicone Sealant

B. Vent/Pipe Regulations

WARNING! Risk of Fire!

Maintain minimum pipe length requirement between appliance and PVLP-SLP-AU on all models. Combustible materials surrounding pipe may overheat.

1. A minimum length of venting is required between the appliance and the PVLP-SLP-AU. This minimum length requirement varies for the specific appliance. Refer to Table 2.1. for requirements for specific models. Once the minimum length requirement is met, the PVLP-SLP-AU may be installed at any location within the vent run configuration.
2. For every 1 ft. (305 mm) of vertical drop the total allowable length must be reduced by 2 ft. (610 mm).

NOTE: See Table 2.1 for model specific vent requirements.

B. Vent/Pipe Regulations *(continued)*

WARNING! Risk of Fire!

- A minimum length run of initial vent pipe is required between the appliance and the inlet of the PVLP-SLP-AU on some appliance models.
- Some models require DVP Series pipe for the initial minimum vent section directly off the appliance.

MODEL	MINIMUM VENTING BETWEEN APPLIANCE AND PVLP-SLP-AU
6X-AU	No minimum vertical venting required for rear vent appliances. Must have a 90 degree elbow for top vent appliances.
550X-AU	
SLR-X-AU	
ST-HVBI-AUB	
MODEL	MINIMUM VENTING BETWEEN APPLIANCE AND PVLP-SLP-AU
MEZZO1000-AUB	Minimum 2 ft. (610 mm) straight vertical DVP pipe directly off appliance followed by 90 degree elbow and DVP-2SL or DVP-SLP24 adapter.
MEZZO1300-AUB	
MEZZO1300ST-AUB	
MEZZO1600-AUB	

Table 2.1

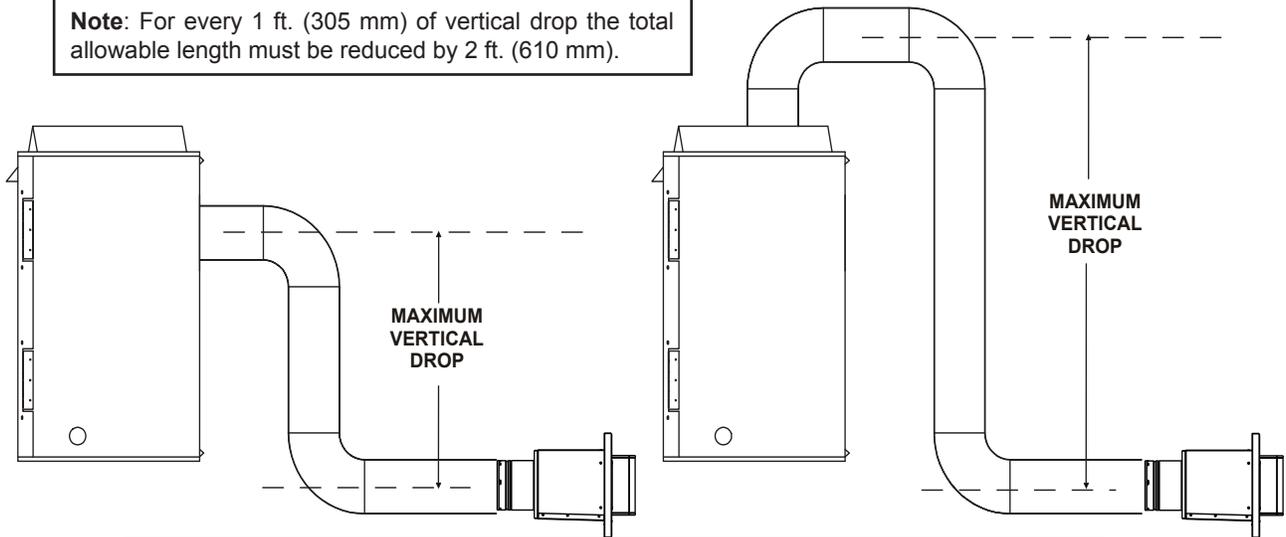
ADAPTER KITS

PART NUMBER	PART DESCRIPTION
DVP-SLP24	Adapts from 5 in./ 8 in. (127 mm / 203 mm) DVP-series starting collars to 4 in. / 6-5/8 in. (102 mm / 168 mm) SLP-series vent pipe.
DVP-2SL	Adapts from 5 in./ 8 in. (127 mm / 203 mm) DVP-series starting collars to 4 in. / 6-5/8 in. (102 mm / 168 mm) SLP-series vent pipe.

DIRECT VENT WITH 4 in. / 6-5/8 in. (102 mm / 168 mm) DIAMETER SLP PIPE		
MAX. ELBOWS (45° & 90°)	MAX. TOTAL VENT RUN (FT.)	MAX. VERT. DROP (FT.)
12-45° or 6-90°	90 ft. (27.43 m)	12 ft. (3.66 m)
	See table in Section 2.C	

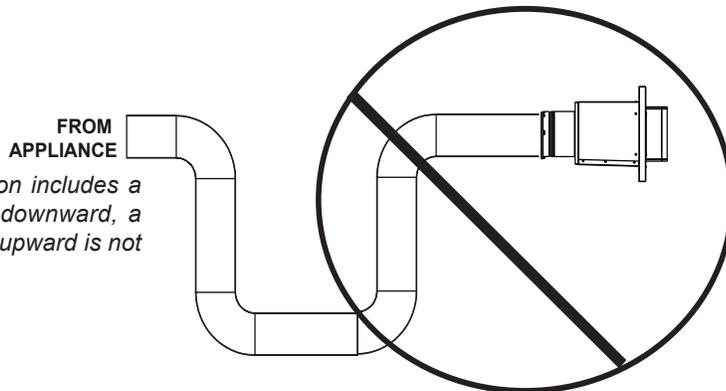
DIRECT VENT WITH 5 in. / 8 in. (127 mm / 203 mm) DIAMETER DVP PIPE		
MAX. ELBOWS (45° & 90°)	MAX. TOTAL VENT RUN (FT.)	MAX. VERT. DROP (FT.)
12-45° or 6-90°	90 ft. (27.43 m)	12 ft. (3.66 m)
	See table in Section 2.C	

Note: For every 1 ft. (305 mm) of vertical drop the total allowable length must be reduced by 2 ft. (610 mm).

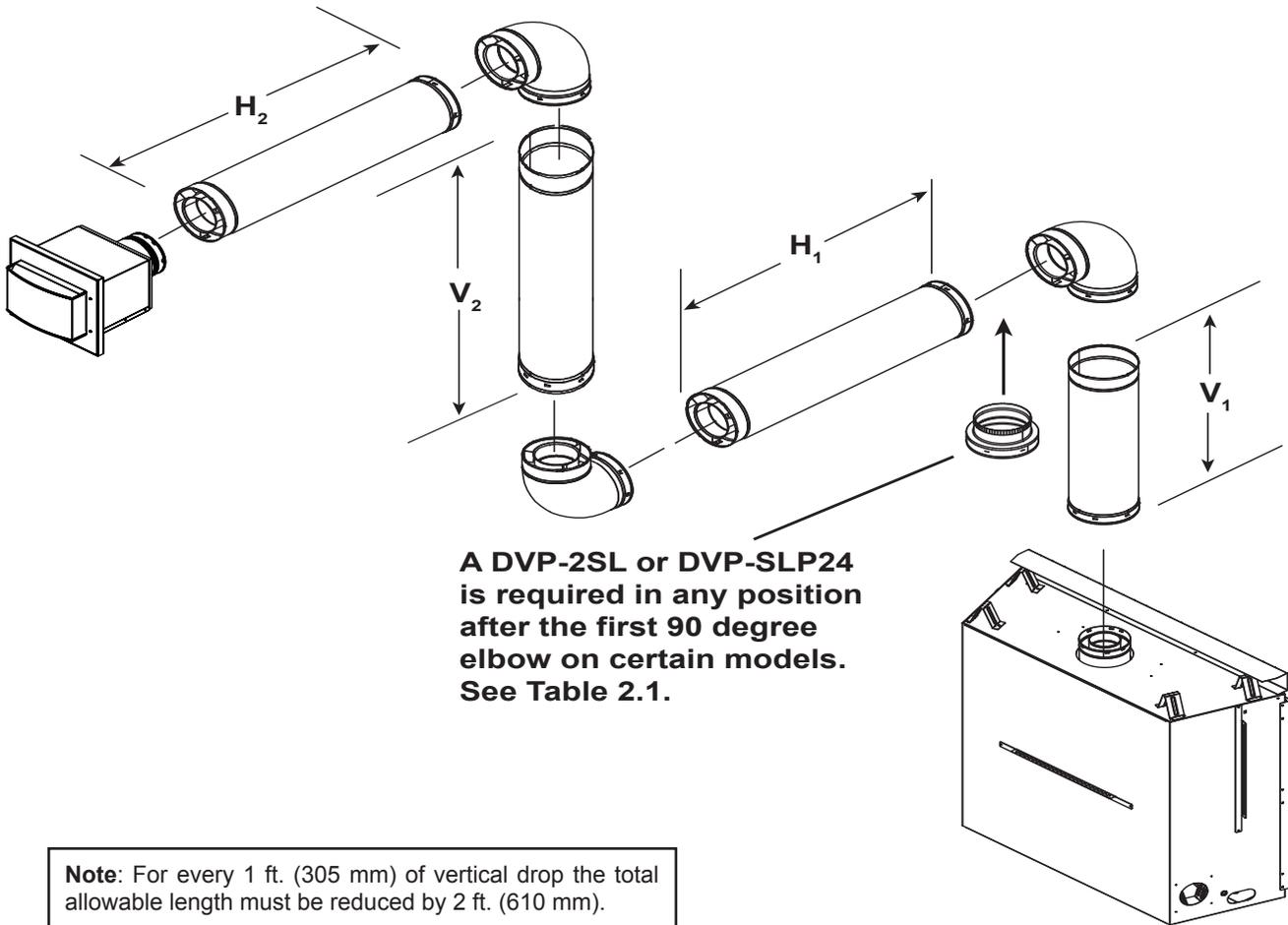


NOTE: Maximum total vent run= Total vertical vent run + Total horizontal vent run

NOTICE: If a pipe configuration includes a vertical component that goes downward, a vertical component going back upward is not allowed.



Top Vent - Horizontal Termination



WARNING! Risk of Fire! Minimum 2 ft. (610 mm) straight vertical DVP pipe directly off appliance followed by 90 degree elbow and DVP-2SL adapter on these models:

MEZZO1000-AUB, MEZZO1300-AUB, MEZZO1300ST-AUB, MEZZO1600-AUB

Combustibles surrounding pipe may overheat.

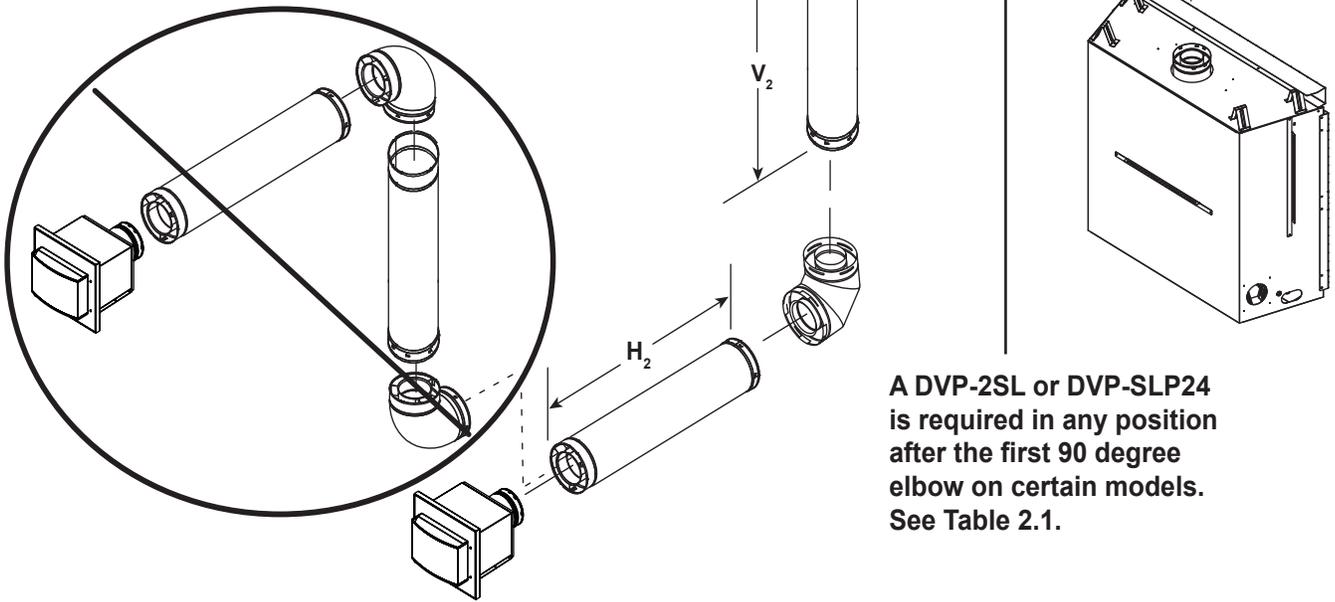
Minimum Vent Run	Maximum Vent Run
A minimum of 2 ft. (610 mm) of vertical piping is required between the appliance and the PVLP-SLP-AU with certain appliance models. See Table 2.1.	See Chart in Section 2.C: "Venting Length - Model Categories and Length Requirements by Termination Type."

Figure 2.2 Horizontal PVLP Orientation

Top Vent - Horizontal Termination con't.

Note: For every 1 ft. (305 mm) of vertical drop the total allowable length must be reduced by 2 ft. (610 mm).

NOTICE: If pipe configuration includes a vertical component that goes downward, a vertical component going back upward is not allowed.



WARNING! Risk of Fire! Minimum 2 ft. (610 mm) straight vertical DVP pipe directly off appliance followed by 90 degree elbow and DVP-2SL adapter on these models:

MEZZO1000-AUB, MEZZO1300-AUB, MEZZO1300ST-AUB, MEZZO1600-AUB

Combustibles surrounding pipe may overheat.

Minimum Vent Run	Maximum Vent Run
A minimum of 2 ft. (610 mm) of vertical piping is required between the appliance and the PVLP-SLP-AU with certain appliance models. See Table 2.1.	See Chart in Section 2.C: "Venting Length - Model Categories and Length Requirements by Termination Type."

Figure 2.3 Horizontal PVLP Orientation

C. Acceptable Vent Configurations

Table 2.2 below shows the allowable vent length and elbow combinations when using PVLP-SLP-AU

Horizontal Termination									
Total Venting Length (Feet) Includes both horizontal and vertical section of pipe									
# of Elbows	10 ft. (3.05 m)	20 ft. (6.10 m)	30 ft. (9.14 m)	40 ft. (12.19 m)	50 ft. (15.24 m)	60 ft. (18.29 m)	70 ft. (21.34 m)	80 ft. (24.38 m)	90 ft. (27.43 m)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

ALLOWABLE VENT RUNS

NOT ALLOWED

Table 2.2 Allowable Vent Runs - Horizontal Termination

D. Setting the PVLP-SLP-AU Baffle Adjustment

Table 2.3 below shows the current power vent baffle setting for the respective vent run. The power vent baffle is located in power vent termination cap. See Section 3.C for instructions on how to set baffle.

Distance from PVLP-SLP-AU to Appliance	Maximum Allowable Baffle Setting
2-15 ft. (610 mm - 4.57 m)	2.5 in. (64 mm) open
16-39 ft. (4.87 m - 11.88 m)	1.5 in. (38 mm) open
Greater than 40 (12.19 m)	Closed

Table 2.3.

3 Framing and Clearances

A. Framing and Clearances

Chassis Dimensions

The dimensions are measured as shown in Figure 3.1.

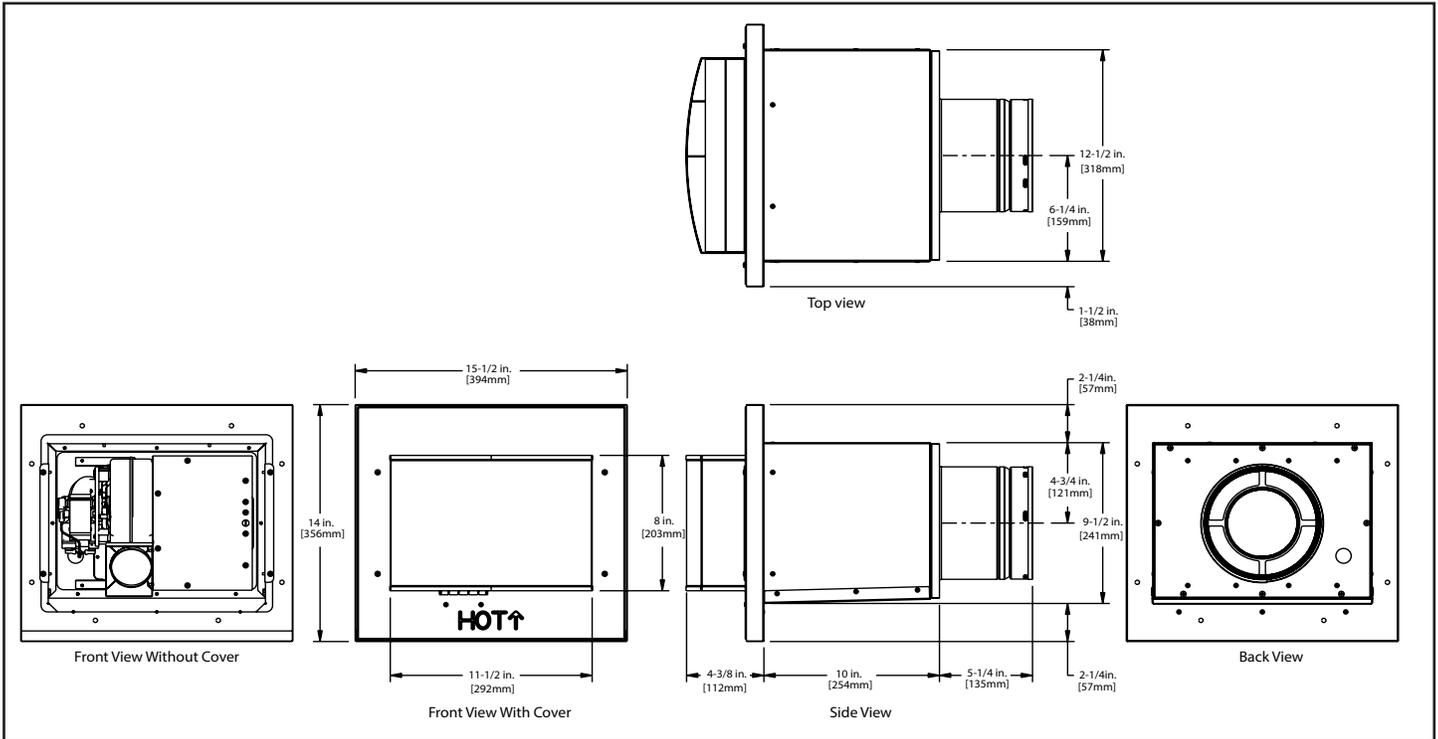


Figure 3.1 Dimensions

Framing Dimensions

1. Construct a framework as shown in Figure 3.2. Framework material should be the same dimensions as the material used for the wall framing. The dimensions of the box must be 10 in. (254 mm) high by 13 in. (330 mm) wide.
2. Cut a 10 in. (254 mm) high by 13 in. (330 mm) wide opening into the exterior of the structure. Stay inside of the newly installed framing as shown in Figure 3.2.

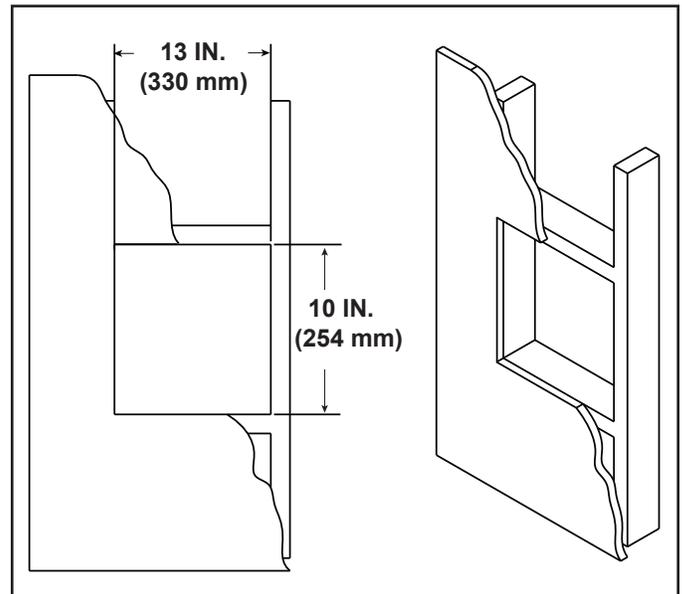


Figure 3.2

Clearance to Combustibles

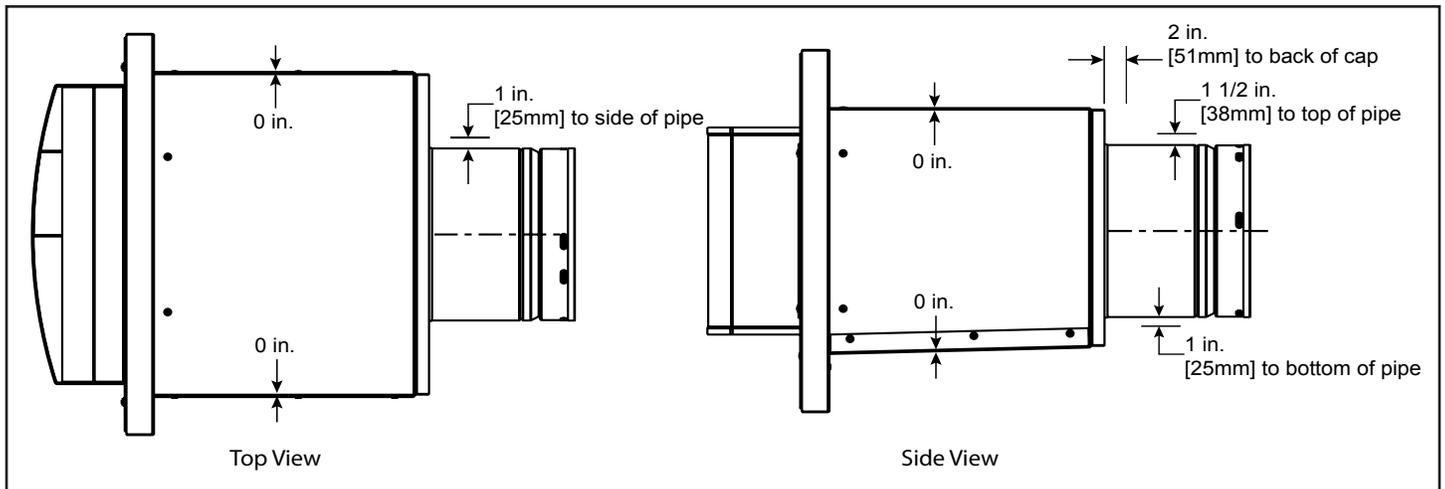


Figure 3.3 Minimum Clearances

Roof Top Termination

1. If the PVLP-SLP-AU is going to terminate on a flat roof, an enclosure similar to the one shown in Figure 3.4 will need to be constructed.

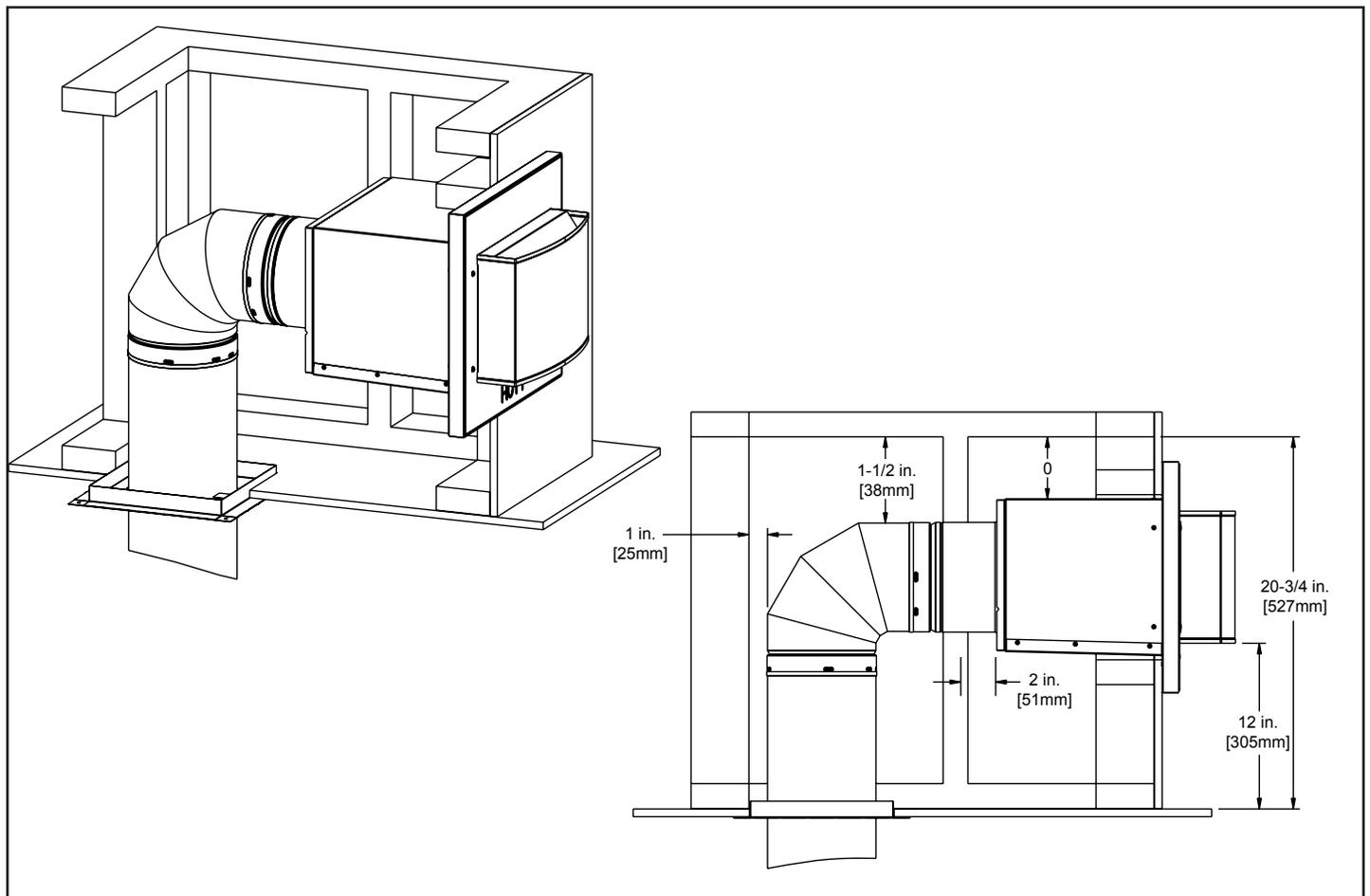
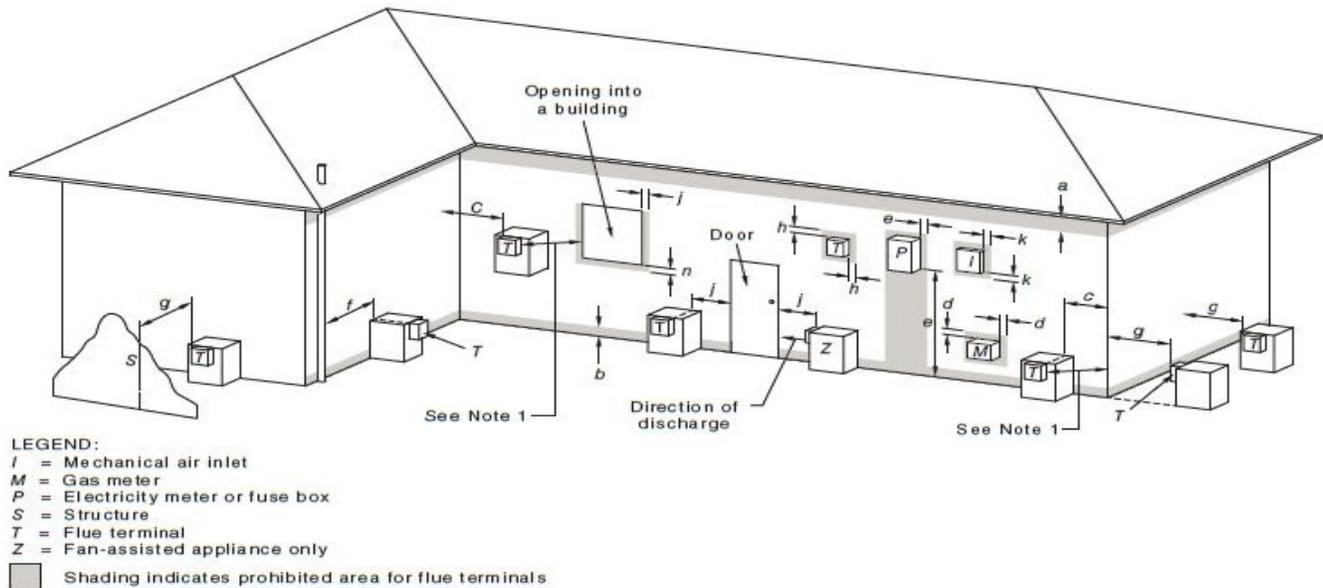


Figure 3.4

B. Termination Cap Clearances



Ref.	Item	Minimum Clearance (mm)	
		Natural Draft	Fan Assisted
a	Below eaves, balconies or other projections		
	Appliances up to 50 MJ/h input	300	200
	Appliances over to 50 MJ/h input	500	300
b	From the ground or above a balcony		
	Appliances 32 MJ/h and below	300	355
	Appliances from 32 MJ/h to 53 MJ/h	300	410
	Appliances 53 MJ/h and above	300	460
c	From a return wall or external corner	500	300
d	From a gas meter (M)	1000	1000
e	From an electricity meter or fuse box (P)	500	500
f	From a drain or soil pipe	150	75
g	Horizontally from any building structure (unless appliance approved for closer installation) or obstruction facing a terminal	500	500
h	From any other flue terminal, cowl, or combustion air intake	500	300
j	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building, with the exception of sub-floor ventilation		
	Appliances up to 150 MJ/h input	500	300
	All fan assisted appliances in the direction of discharge	-	1500
k	From a mechanical air inlet, including a spa fan	1500	1000
n	Vertically below an openable window, non-mechanical air inlet or any other opening into a building, with the exception of See table sub-floor ventilation		
	For space heaters up to 50 MJ/h input	150	150
	For other appliances up to 50 MJ/h input	500	500
	For appliances over 50 MJ/h input and up to 150 MJ/h	1000	1000
	For appliances over 150 MJ/h input	1500	1500

- NOTES:**
1. All distances are measured vertically or horizontally along the wall to a point in line with the nearest part of the terminal.
 2. Prohibited area below electricity meter or fuse box extends to ground level.
 3. Flue terminal under covered area:
 - a) The covered area or recess shall be open on at least two sides.
 - b) Fan assisted flue appliance shall have at least one side open and the terminal shall be within 500 mm of the opening and discharging in the direction of the opening.
 4. Clearance from a flue terminal to a LP cylinder shall be a minimum of 1 meter.

MINIMUM CLEARANCES REQUIRED FOR BALANCED FLUE TERMINALS OR THE FLUE TERMINALS OF OUTDOOR APPLIANCES

Figure 3.5

C. Installing Vent Cap

1. Remove the eight screws holding the back cover to the cap. See Figure 3.6.
2. Slide the exhaust housing assembly out of the back of the cap. See Figure 3.7 and 3.8.
3. Remove the four corrugated shipping pads. See Figure 3.9.
4. Install PVI wiring harness through the electrical access hole in back cover cap. See Figure 3.10.

NOTE:

- The PVLP-SLP-AU may be painted to a desired color, as long as the paint selected has sufficient temperature and environmental ratings.
- Thoroughly sand the existing coating prior to painting with sand paper or steel wool.
- The front of the cap cover may be field-painted and cured up to 400° F (204 °C). All remaining parts of the cap may be painted but they may not be cured beyond 190° F (88 °C) due to gaskets and components overheating.
- Certain areas of the cap surface may reach up to 600° F (316 °C). Paints selected should have sufficient temperature ratings.
- Cap contains silicone sealant which could affect adherence of paint. Please advise local painter of silicone content.

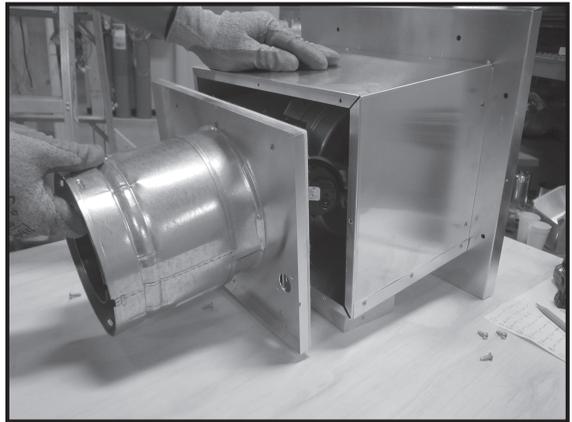


Figure 3.7



Figure 3.8

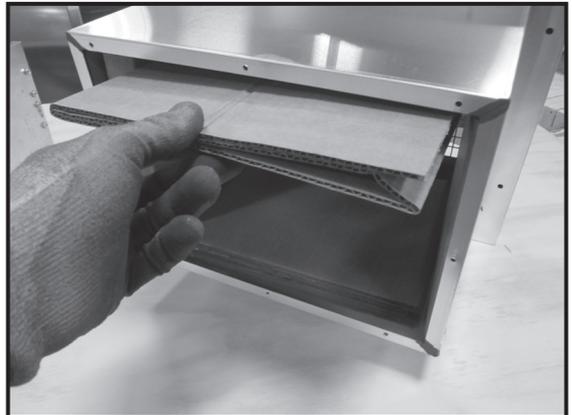


Figure 3.9

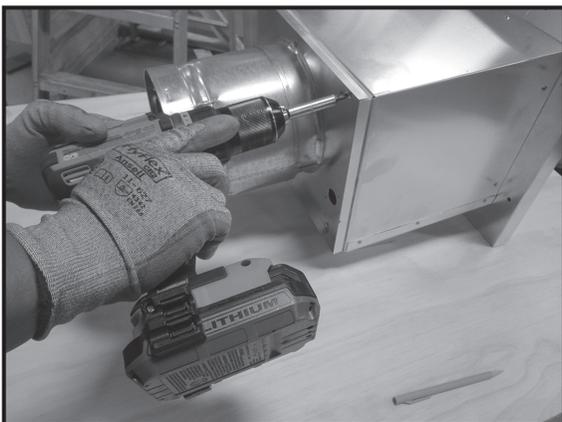


Figure 3.6

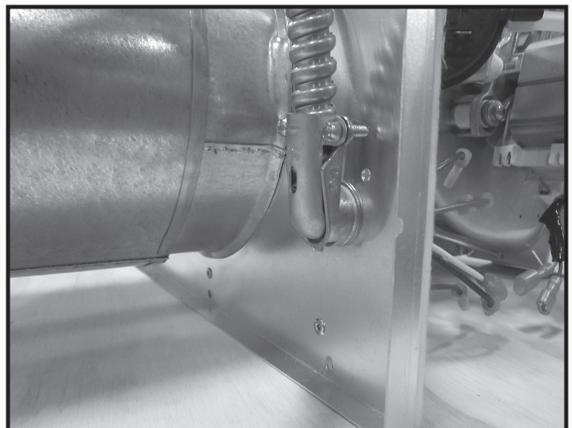


Figure 3.10

C. Installing Vent Cap (con't)

NOTE: Make sure there is not excess wire extending through the back cap cover. If extra wire length is extended through the cap cover, zip tie wires so they do not interfere with fan or pressure switch.

- Attached the red and white wires to the pressure switch. See Figure 3.11.

NOTE: Orientation of wires on pressure switch does not matter.

- Attach the blue and brown wires from the PVI harness to the fan. Attach the green wire from the PVI harness to the ground connection on the fan. See Figure 3.12.

NOTE: Orientation of blue and brown wires on fan does not matter.

- The air baffle is shipped in the closed position; for certain vent runs the air baffle will need to be adjusted. To adjust the baffle, remove the locking screw. See Figure 3.13. (See Table 3.1 to determine baffle setting.)

Distance from PVLP-SLP-AU to Appliance	Maximum Allowable Baffle Setting
2-15 ft. (610 mm - 4.57 m)	2.5 in. (64 mm) open
16-39 ft. (4.87 m - 11.88 m)	1.5 in. (38 mm) open
Greater than 40 (12.19 m)	Closed

Table 3.1

- To open the baffle, turn the adjustment bolt counter clockwise. See Figure 3.14.

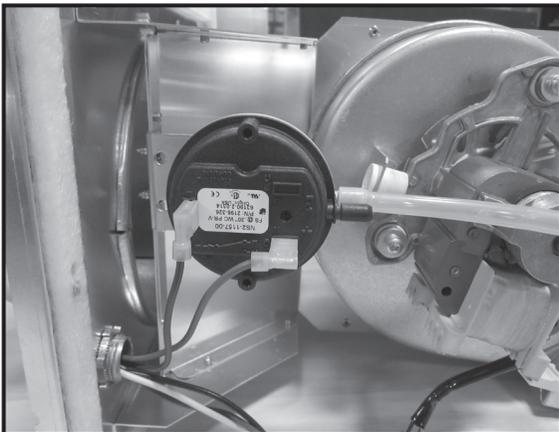


Figure 3.11

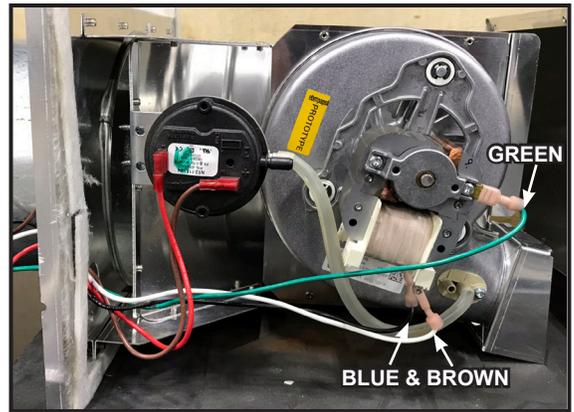


Figure 3.12

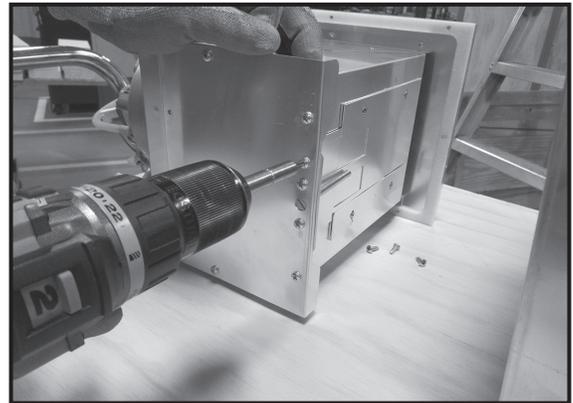


Figure 3.13

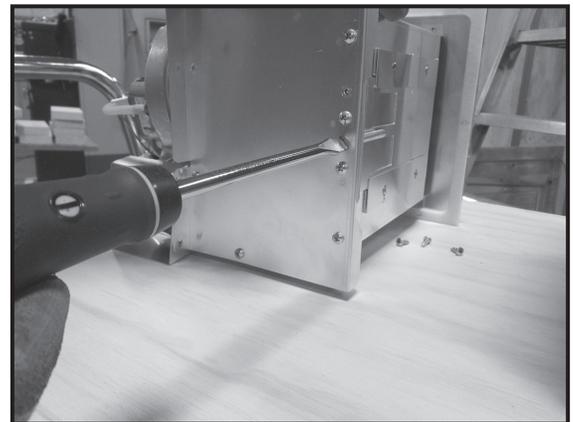


Figure 3.14

C. Installing Vent Cap (con't)

NOTE: Use a tape measure to measure the distance from the front cover to the flange on the air baffle. See Figure 3.15.

9. Reinstall the exhaust housing assembly into the cap after the wiring and baffle adjustment have been completed.
10. The front cover must be removed to access the mounting holes for the cap. Remove the four screws that attach the front cover, then remove the cover. See Figure 3.16.

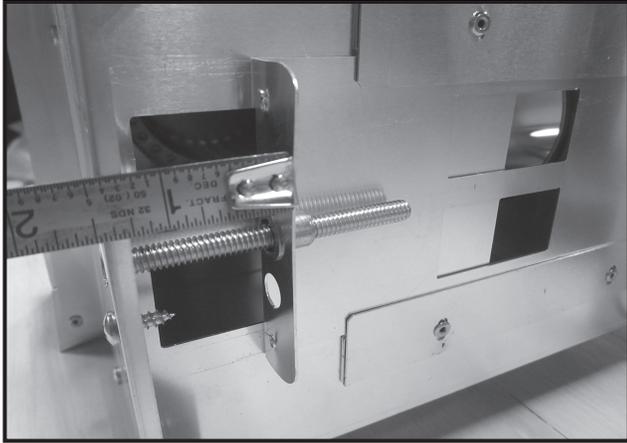


Figure 3.15

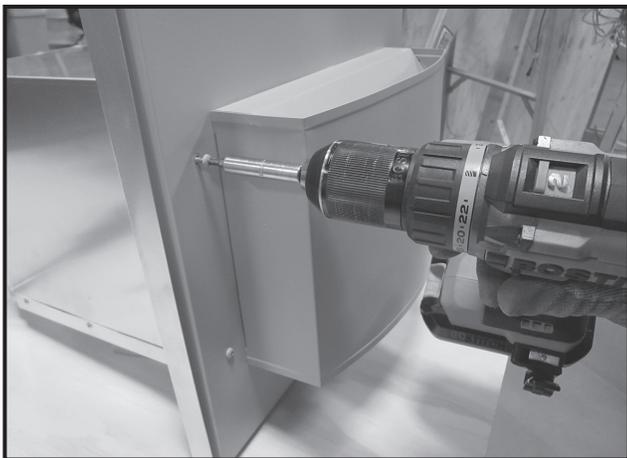


Figure 3.16

If installing with finishing material less than 1 in. (25 mm) thick, proceed to step 22.

NOTE: A PVLP-BEK kit will be needed for installations with exterior finishing materials greater than 1 in. thick. Order with the appliance and venting system. It will be used to ensure that the finishing is done to the appropriate size for the low profile power vent (PVLP-SLP-AU) to be installed properly.

11. Assemble the PVLP-BEK kit. Bend the two sections of the PVLP-BEK kit as shown in Figure 3.17.
12. Use the supplied screws to assemble the box as shown in Figure 3.18. The return bend on section A should be located on the outside of section B.
13. Place assembled box over the framed opening in the wall with outside flanges oriented vertically and held tight to the building exterior. See Figure 3.19.
14. Drive two of the supplied screws through opposite ends of the two outer flanges. This will secure the PVLP-BEK extension box to the building and allow for squaring of the PVLP-BEK. See Figure 3.19.
15. Seal all corners, joints and bend lines with silicone (with a minimum of 300 °F (149 °C) continuous exposure rating) caulk. Ensure all gaps and holes are filled so a sealed envelope is formed.
16. If finishing material extends past the cap extension box (BEK) more than one inch, an additional BEK is required. Cap extension boxes may be stacked for thicker wall applications:
 - Attach first box to the wall.
 - Assemble second box.
 - Bend the two outside flanges of the second box around to the inside of the box.
 - Secure the second box to the first using four #8 x 1/2 (13 mm) sheet metal screws.

NOTICE: It is imperative that the PVLP-BEK kit be installed squarely or the PVLP-SLP-AU may not fit into the opening once finishing has occurred. Also, care should be taken to ensure that PVLP-BEK is secured flat to wall.

17. The wall is now ready to be finished. Finishing materials such as stone, marble or brick can then be applied up to the flanges of the PVLP-BEK that protrude perpendicular to the wall. This will ensure that the cap will fit into the opening after finishing has been completed.

NOTICE Outside flanges of the PVLP-BEK must not have any pressure on them from the finishing materials. This could cause the opening left after finishing to be too small.

18. After PVLP-BEK has been installed and the finishing of the wall has taken place, apply a bead of silicone (with a minimum of 300 °F (149 °C) continuous exposure rating) to the PVLP-BEK around the entire metal flange, as shown in Figure 3.22 with the dotted line.

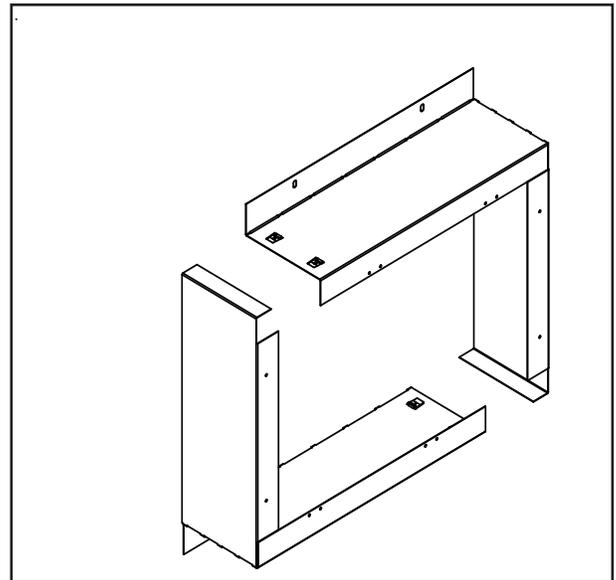


Figure 3.17 Bend BEK Sections

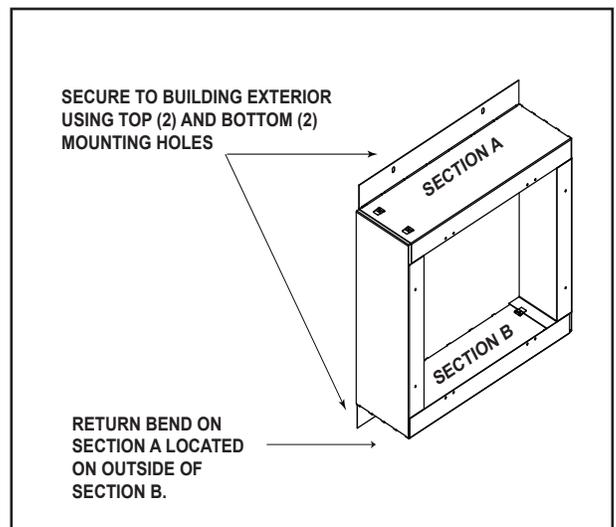


Figure 3.18 BEK Assembled

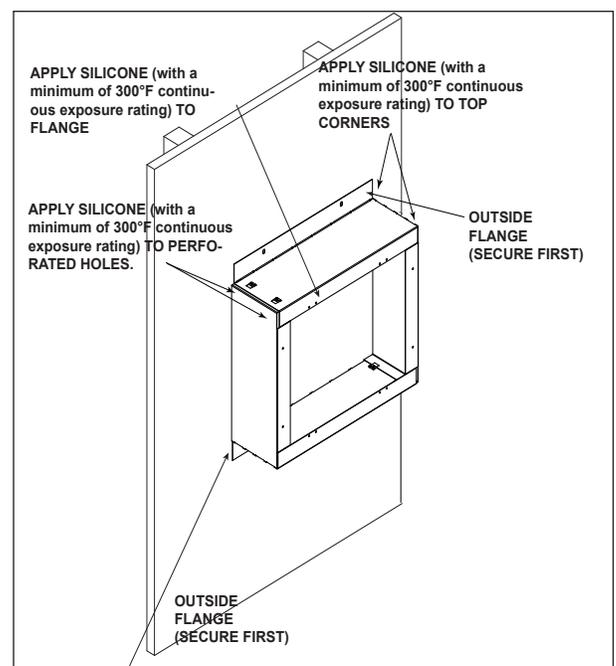


Figure 3.19 PLVP-BEK Attached to Wall

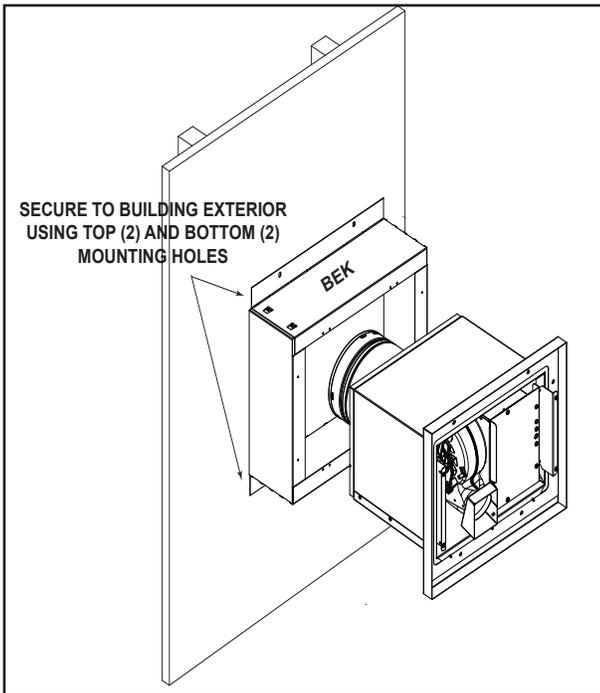


Figure 3.20 PVLP-SLP-AU Attached to LPC-BEK

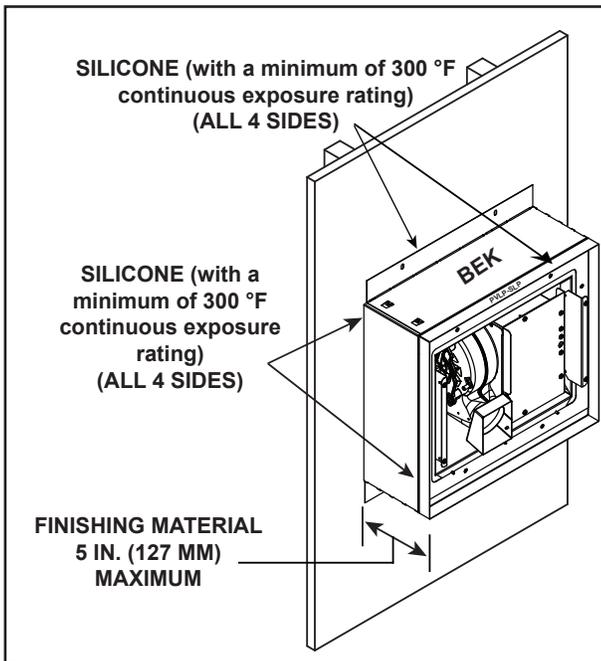


Figure 3.21 Silicone Weather Sealing

19. Apply a bead of silicone (with a minimum of 300 °F (149 °C) continuous exposure rating) around the entire metal flange of the PVLP-SLP-AU. See Figure 3.22. Align with PVLP-BEK as shown in Figure 3.20. Ensure cap is level and square, then secure PVLP-SLP-AU to PVLP-BEK as shown in Figure 3.21.
20. After the PVLP-SLP-AU has been secured to the PVLP-BEK, silicone (with a minimum of 300 °F (149 °C) continuous exposure rating) should be applied around outer edge of PVLP-BEK where it meets the building exterior. Silicone (with a minimum of 300 °F (149 °C) continuous exposure rating) should also be applied where PVLP-SLP-AU and PVLP-BEK meet, as shown in Figure 3.21.

21. Place decorative cover onto cap and fasten. Once cover has been secured, installation is complete.
 22. Place a bead of silicone (with a minimum of 300 °F (149 °C) continuous exposure rating) on the back side of the mounting flange for the cap. See Figure 3.22.
 23. Install the cap into the wall and attach the cap to the wall using the eight screws provided. See Figure 3.23.
- NOTE:** Be careful not to tear the gasket on the mounting flange.
24. Once the cap is fastened to the wall, apply a bead of silicone around the cap base. See Figure 3.24.
 25. Reinstall the cap cover using the four screws removed earlier.

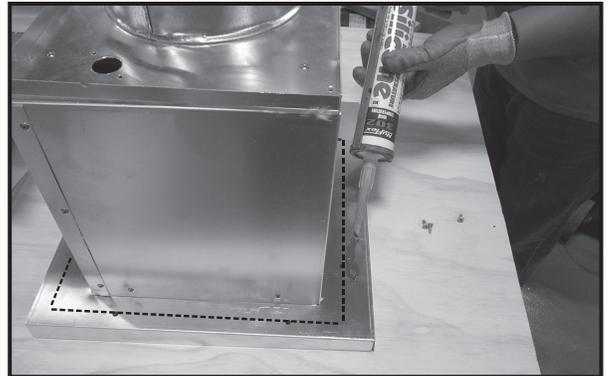


Figure 3.22



Figure 3.23



Figure 3.24

4 Electrical Information

A. Wiring the Appliance

Figure 4.1 below shows a wiring diagram of the PVLP-SLP-AU wiring harness.

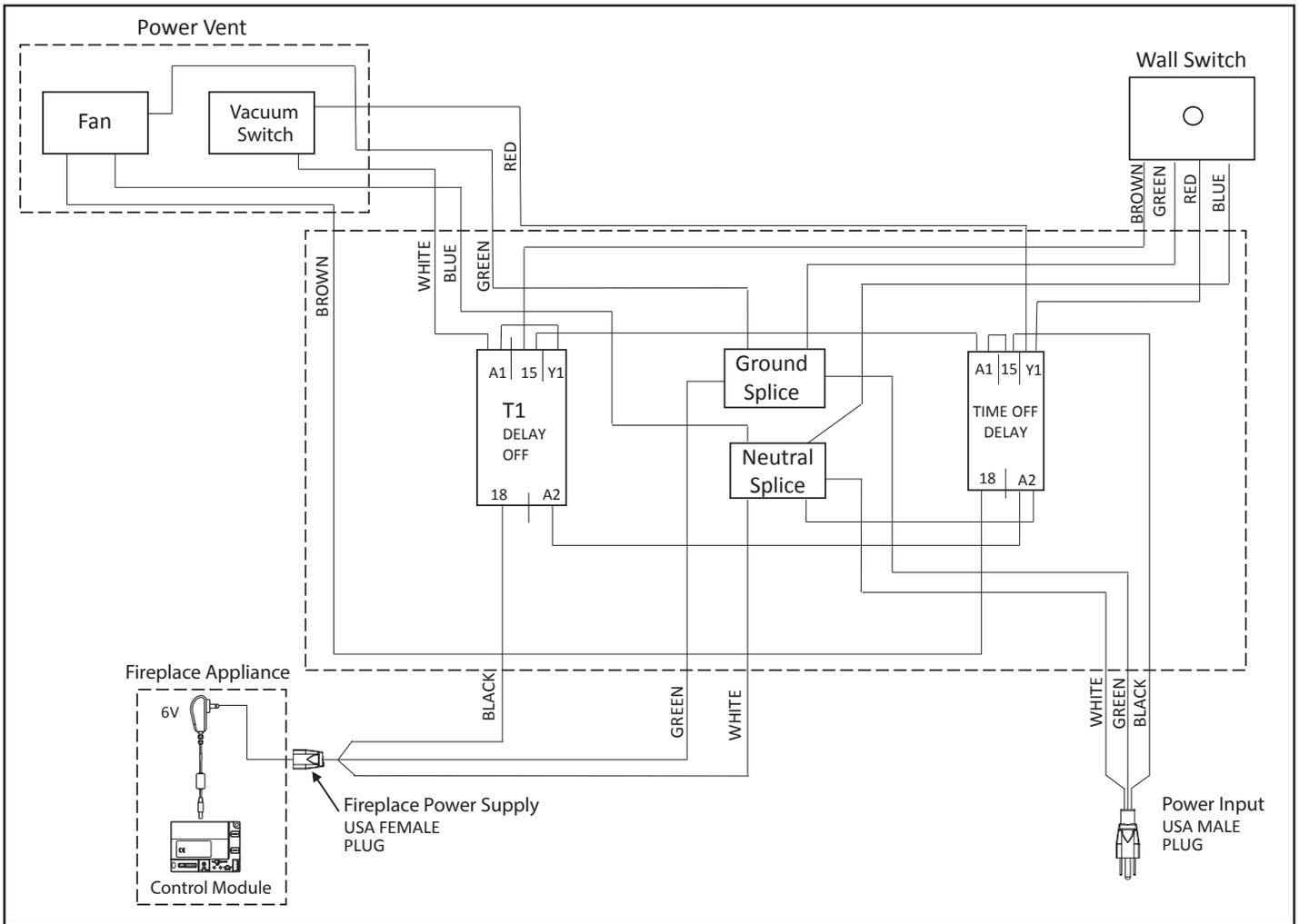


Figure 4.1 Wiring Diagram

Figure 4.2 shows a photo of the PVLP-SLP-AU wiring harness and timer control junction box. This harness contains all wiring shown in Figure 4.1 wiring diagram. Below describes each wire harness coming from the timer control junction box. Reference numbers in Figure 4.2.

1. Wall Switch
2. Power Vent Wire Harness
3. Timer Control Junction Box
4. Plug for 6V Power Supply (inside appliance)
5. Power Input

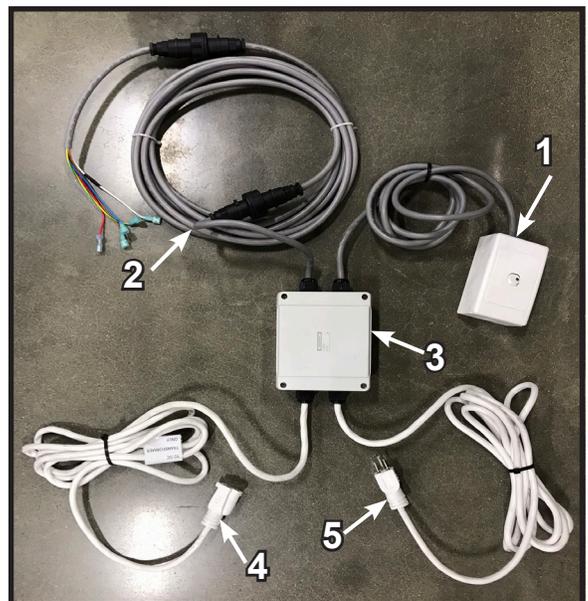


Figure 4.2

B. Wall Switch and Timer Control Junction Box Installation

WARNING! Risk of Shock!

1. Disconnect power to fireplace appliance.
2. Wall switch must be located a minimum of 1 meter away from the closest edge of the fireplace appliance. See Figure 4.3.

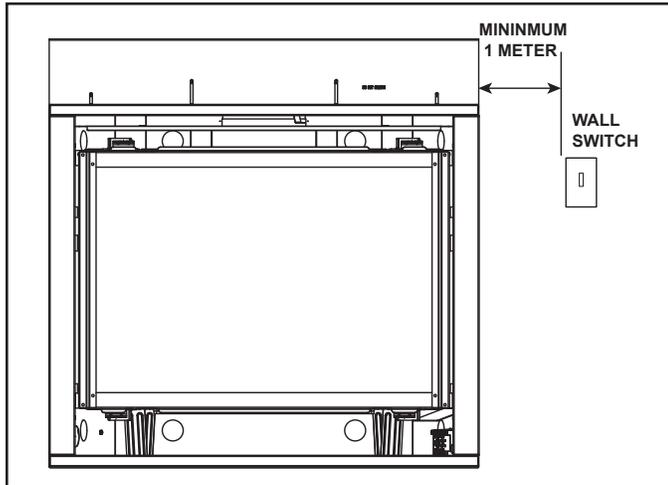


Figure 4.3

3. Allow Timer Control Junction Box to hang inside the wall behind the wall switch. This will allow for access to the junction box through the wall switch hole if service is required.

Note: A strain relief must be placed behind the wall switch to prevent the junction control box from pulling on the wiring going to the wall switch.

4. Connect extension cord lead from termination cap to female plug (number 2 in Figure 4.2).
5. Unplug 6V transformer from fireplace power cord. Run plug for 6V from timer control junction box inside the fireplace and plug 6V transformer in (number 4 in Figure 4.2).
6. Plug in power input cord from timer control junction box into fireplace power cord where the 6V transformer was (number 5 in Figure 4.2).

C. Time Delay Relay Settings

NOTE: Relays come pre-set to desired pre and post purge time as shown below.

1. Time on Delay Relay should be set as shown in Figure 4.4.

NOTE: Figure 4.4 shows two different time on delay relays that can be used. See relay instructions for more details.



Figure 4.4

2. Time off delay relay should be set as shown in Figure 4.5.

NOTE: Figure 4.5 shows two different time off delay relays that can be used. See relay instructions for more details.



Figure 4.5

5 Operating Instructions

A. Installation Inspection

1. Follow safety inspection procedures recommended by national, provincial, and/or local codes.
2. Be certain all electrical connections are properly made and secure.
3. Visually inspect the vent system and determine that there is no flue gas spillage, blockage or restriction, leakage, corrosion or other unsafe deficiencies.
4. Check timings set on time on and time off delay relays.

Time on Delay: 100-120 sec

- This can be measured by taking the time from when the wall switch is turned on until the time at which the module beeps.

Time off Delay: 18-22 minutes

- This can be measured by taking the time from when the wall switch is turned off until the time when the fan turns off.

NOTE: If relays are set incorrectly refer to section 4.C. for the correct relay settings.

CAUTION! Risk of electrical shock! DO NOT allow 240VAC wires to contact hot metal surfaces. Use supplied wire ties to bundle wires away from flue pipe, fan housing and other metal surfaces.

B. Power Vent Operating Instructions

After installation of the power vent, follow the operation instructions below.

IPI Plus/RC300

1. Turn the wall switch "ON".

NOTE: A 100-120 second pre-purge will begin. Once this is complete, power is supplied to the appliance. This can be verified by a beep sound from the module.

2. Turn the remote "ON".

NOTE: After turning the remote to the "ON" position, if the appliance does not turn on, turn the remote to "OFF" refer to the troubleshooting section.

3. Turn the remote to "OFF" to turn off the burner. Turn the wall switch to "OFF" to turn off the power vent.

NOTE: The power vent will continue to run for 20 minutes.

To operate the power vent and fireplace appliance with only the wall switch, connect the red and brown wires together coming from the control module wiring harness, see Figure 5.1. This will automatically start the fireplace appliance after the pre-purge is complete. Allow customer to set desired flame height and fan setting on remote before red and brown wires are jumped together.

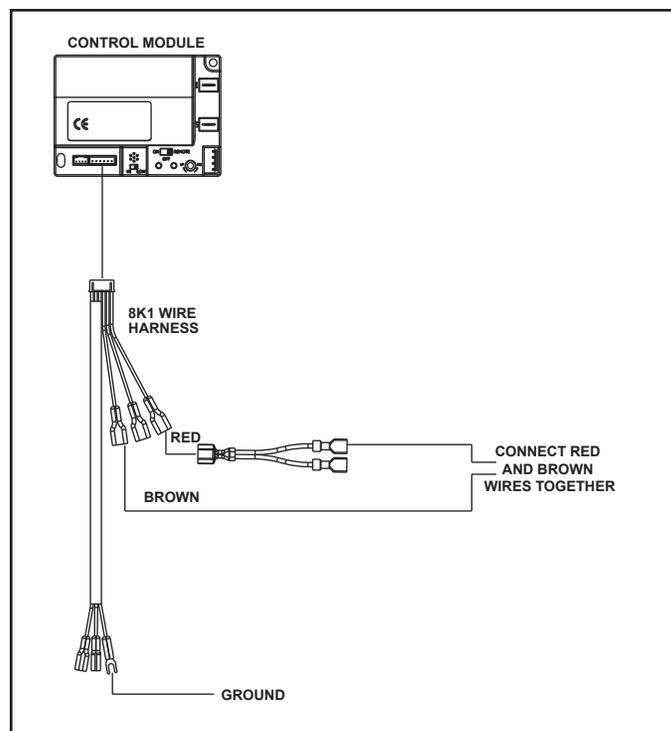


Figure 5.1

C. Maintenance

WARNING! Risk of Shock! Before performing any maintenance or repair to the power vent assembly, make sure electrical power is disconnected to the appliance.

1. Vent System: Inspect all components and connections annually. Replace, seal, or tighten pipe connections if necessary.
2. Motor: The fan motor bearings are sealed and no further lubrication is necessary. To access the motor, vacuum switch or pressure sense tube, refer to Section 5.E.

D. Replace Fan/Pressure Switch

WARNING! Risk of Shock! Before performing any maintenance or repair to the power vent assembly, make sure electrical power is disconnected to the appliance.

1. Remove front cap cover and set aside. See Figure 5.2. If cap has to be serviced, from inside the building, remove the eight screws that hold the rear cover in place and remove the exhaust housing assembly.
2. Remove the nine screws holding the exhaust housing cover. See Figure 5.3. Remove the exhaust housing cover. See Figure 5.4.
3. Remove the hot (brown), neutral (blue) and ground (green) wire from the front of the fan. See Figure 5.5.
4. Remove the vacuum tube from the fan. See Figure 5.6.
5. Remove the three screws holding the fan. See Figure 5.7.
6. Remove the fan from the housing. See Figure 5.8.
7. Remove the two screws holding the pressure switch bracket to the exhaust housing. See Figure 5.8.
8. Remove the pressure switch. See Figure 5.10.

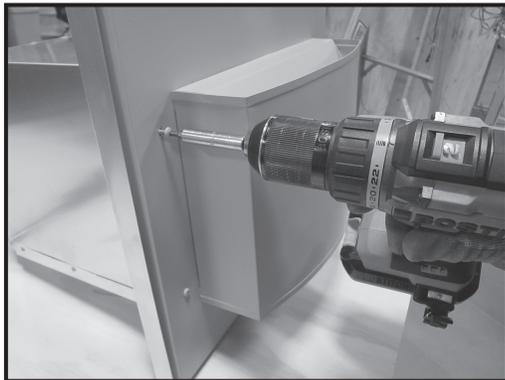


Figure 5.2



Figure 5.3



Figure 5.4



Figure 5.5



Figure 5.6

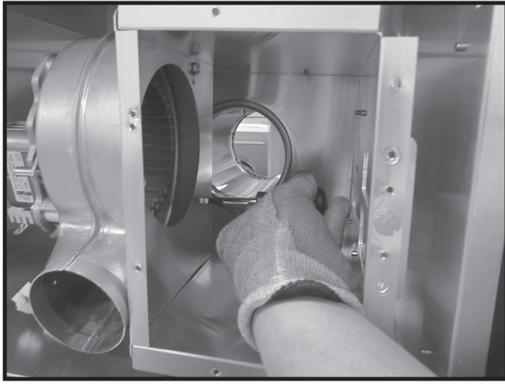


Figure 5.7



Figure 5.8



Figure 5.9



Figure 5.10

E. PVLP-SLP-AU Troubleshooting

Symptoms	Possible Causes	Corrective Action
IntelliFire™ Plus System		
Main Closes/ Pilot open, 5 seconds later pilot sparking with Fan ON. If condition persists for 60 seconds, 8K-1 locks out with 3 LED alarm.	Pilot Rectification Failure	<ol style="list-style-type: none"> 1. Verify that black wire on IPI wire harness is properly grounded to the appliance chassis. 2. Verify that pilot is not being compromised by draft such that it fails to rectify. With the glass assembly in place, verify that the pilot flame is engulfing the flame sensing rod on the left side of the pilot hood. With a multi-meter, verify that the current in series between the module and the sense lead is at least 0.14 microamps. 3. Verify that line inlet pressure is within range on rating plate and correct pilot orifice is in pilot. 4. If #1-4 are correct, replace IPI module.
No power to the module when fan is on (after 120 sec pre-purge).	Blocked Flue/Insufficient Draft	<ol style="list-style-type: none"> 1. Verify the teflon pressure tube is connected between fan impeller housing and vacuum switch. 2. Verify that wiring within PVLP-SLP-AU is correct and that the fan operates. 3. Verify that the venting is connected and sealed properly. 4. Verify that the vent termination is not blocked. 5. If #1 thru #4 are complete, connect black and red wires to bypass vacuum switch. If malfunction is corrected, lock-out system until the vacuum switch can be replaced.
Main Closes, 5 seconds later pilot sparking with Fan ON. If condition persists for 60 seconds, 8K-1 locks out with 3 LED alarm.	Shorted Pilot Sense	<ol style="list-style-type: none"> 1. Verify that the white sensor lead is properly connected to the S-terminal on the module. 2. Check for soot deposits on the pilot sense rod, adjacent shielding, or logs. If so, clean affected parts. 3. Verify that the white sense lead from the pilot is not damaged or melted within the firebox or valve compartment. Replace pilot if damage exists.
Main Closes, 5 seconds later pilot sparking with Fan ON. If condition persists for 60 seconds, 8K-1 locks out with 3 LED alarm.	Disconnected Pilot Sense	Verify that white sensor lead is properly connected to the S-terminal and the orange ignitor lead is connected to the I-terminal on the module
If given ignition command in both ON and REMOTE modes, system immediately locks-out with 3 LED alarm. Does not spark or attempt to ignite.	Pre-Existing/False Pilot Flame	Check for pre-existing pilot flame. If so, the valve is defective and should be replaced.
Pilot rectifies, burner begins to light, but has a difficult time fully lighting.	Draft from back of firebox is too strong due to power vent.	Make sure air baffle is properly adjusted. If it is adjusted properly, place ember material along the back side of the ports that are experiencing the difficult lighting. This will block a portion of the strong draft.

Please contact your Hearth & Home Technologies dealer with any questions or concerns.
For the location of your nearest Hearth & Home Technologies dealer, please visit www.hearthnhome.com.

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