

## PH-FRT-LINEAR, PH-SIDE-LINEAR


### Models: COSMO-IFT-B Series, RAVE-IFT-B Series, JADE-B, DVLINEAR36, B41IL-AU Series Passive Heat Kit Installation Instructions




Leave this manual with party responsible for use and operation.

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

**CAUTION! Do not install damaged components.**  
If any parts are missing or damaged, contact your dealer before starting installation. **DO NOT** install a damaged kit.


DANGER



**HOT GLASS WILL  
CAUSE BURNS.**

**DO NOT TOUCH GLASS  
UNTIL COOLED.**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS.**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

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## Introduction

The Passive Heat (PH-FRT-LINEAR, PH-SIDE-LINEAR) Heat Management System conveys warm air from the fireplace into the same room through either one front discharge slot, two side discharge heat registers or an open top discharge.

Installation of the Passive Heat kit must be done in conjunction with the appliance installation. Installation of this kit **MUST** be performed by a qualified service technician.

**WARNING! Risk of Fire! DO NOT install the Passive Heat (PH-FRT-LINEAR or PH-SIDE-LINEAR) Heat Management System with models that are not approved. Overheating will occur.**

The Passive Heat Trim Kit is also available for installation with the Front Discharge Passive Heat systems and must be purchased separately. Contact your dealer to order the appropriate kit: PHTRIM-32LINEAR, PHTRIM-36LINEAR or PHTRIM-42LINEAR.

Follow instructions included with the trim kit to complete installation of the Passive Heat system.

The Passive Heat kit is tested and safe when installed in accordance with this installation manual. It is your responsibility to read all instructions before starting installation and to follow these instructions carefully during installation.

The Passive Heat kit is carefully engineered and must be installed only as specified. If you modify it or any of its components you will void the warranty, and you may possibly cause a fire hazard. Installation must be done according to applicable local, state, provincial, and/or national codes.

## Preparation

Plan the location of the appliance.

Determine whether front, open top or side discharge is to be installed and follow instructions for the appropriate application.

### **CAUTION! Risk of Burns!**

- The fireplace should be turned off and cooled before kit is installed.
- Shut off gas supply.

## Power Vent Option

If an optional power vent will be installed in conjunction with the Passive Heat Kit (PH-FRT-LINEAR or PH-SIDE-LINEAR), Hearth & Home Technologies recommends the PVLP-SLP power vent option. If the application does not allow for the PVLP-SLP to be used, the PVI-SLP-B may be used. The PVI-SLP-B must be mounted outside the chase due to the higher noise level created.

The Passive Heat Kit is not compatible with a Smart-Wall™ TV Kit, GFK-160A, GFK-240 or other fan.

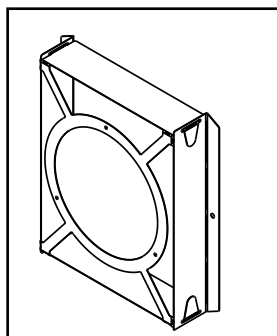
For AU models, PVLP-SLP-AU is approved to be used in conjunction with the Passive Heat Kit.

## Kit Contents

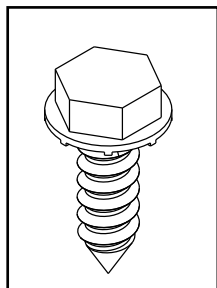
Verify and remove contents from packaging before beginning installation. See Figure 1 (Front or Open Top Discharge) or Figure 2 (Side Discharge).

### Contents of Front/Open Top Discharge Kit PH-FRT-LINEAR

FRONT/OPEN TOP DISCHARGE KIT (PH-FRT-LINEAR)		
DESCRIPTION	SERVICE PART NO.	QTY
Passive Heat Adapter	2617-125	2
Screw	2005-861/25	1



**2617-125**  
**Passive Heat Adapter**



**2005-861/25**  
**Screw**

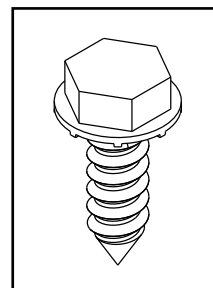
Figure 1 Front/Open Top Discharge Passive Heat Kit Components

### Contents of Side Discharge Kit PH-SIDE-LINEAR

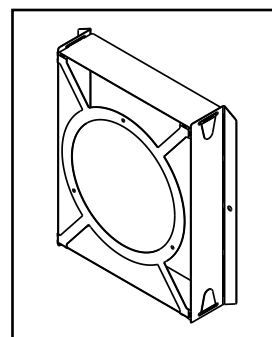
SIDE DISCHARGE KIT (PH-SIDE-LINEAR)		
DESCRIPTION	SERVICE PART NO.	QTY
Register Cover	2560-120	2
Passive Heat Adapter	2617-125	2
Screw	2005-861/25	1



**2560-120**  
**12 in. x 8 in. (305 mm x 203 mm) Register**  
**Cover (Quantity 2, Includes Screws)**



**2005-861/25**  
**Screw**



**2617-125**  
**Passive Heat Adapter**

Figure 2 Side Discharge Passive Heat Kit Components

## Clearances

**WARNING! Risk of Fire! Maintain clearances to combustibles as specified.**

Ensure all clearances are maintained.

- Maintain minimum distance from top of appliance opening to the room ceiling. Refer to the figures in the Framing section of this instruction.
- An open space, or “cavity,” is allowed up to three inches above the top of the passive heat discharge opening. A chase ceiling is required when the open space “cavity” exceeds three inches above the discharge opening. Construct the false ceiling from material such as metal, drywall or plywood.

## Clearance - Sprinkler to Passive Heat

Figure 3 references the clearances that must be adhered to when installing a sprinkler head near a passive heat discharge opening.

- \* If the distance from the top of the passive heat front discharge opening to the ceiling is 36 in. (914 mm) or greater, then there is no 36 in. (914 mm) clearance requirement. This is for a ceiling sprinkler head installation only.

**Note:** When installing a sprinkler head near a heat discharge opening, it is recommended to use a sprinkler head with an Extra High sprinkler activation temperature rating.

- When installing a sprinkler head exterior of the chase, maintain the following clearances to discharge openings (convection slots, passive heat registers, heat zone registers, etc.): 36 in. (914 mm) top, 18 in. (457 mm) sides and 6 in. (152 mm) bottom.
- **DO NOT** install a sprinkler head inside a chase that is set up for passive heat.

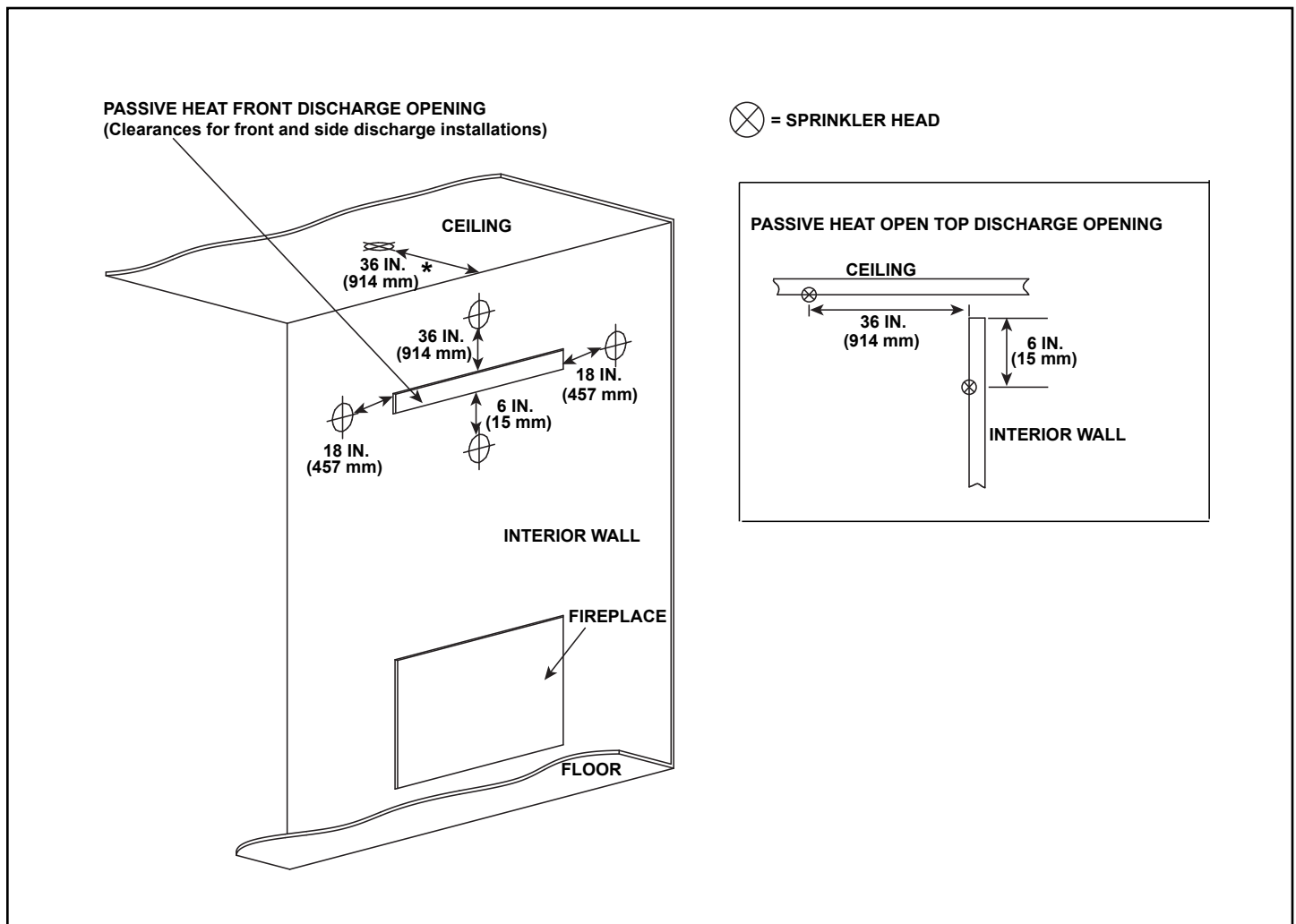


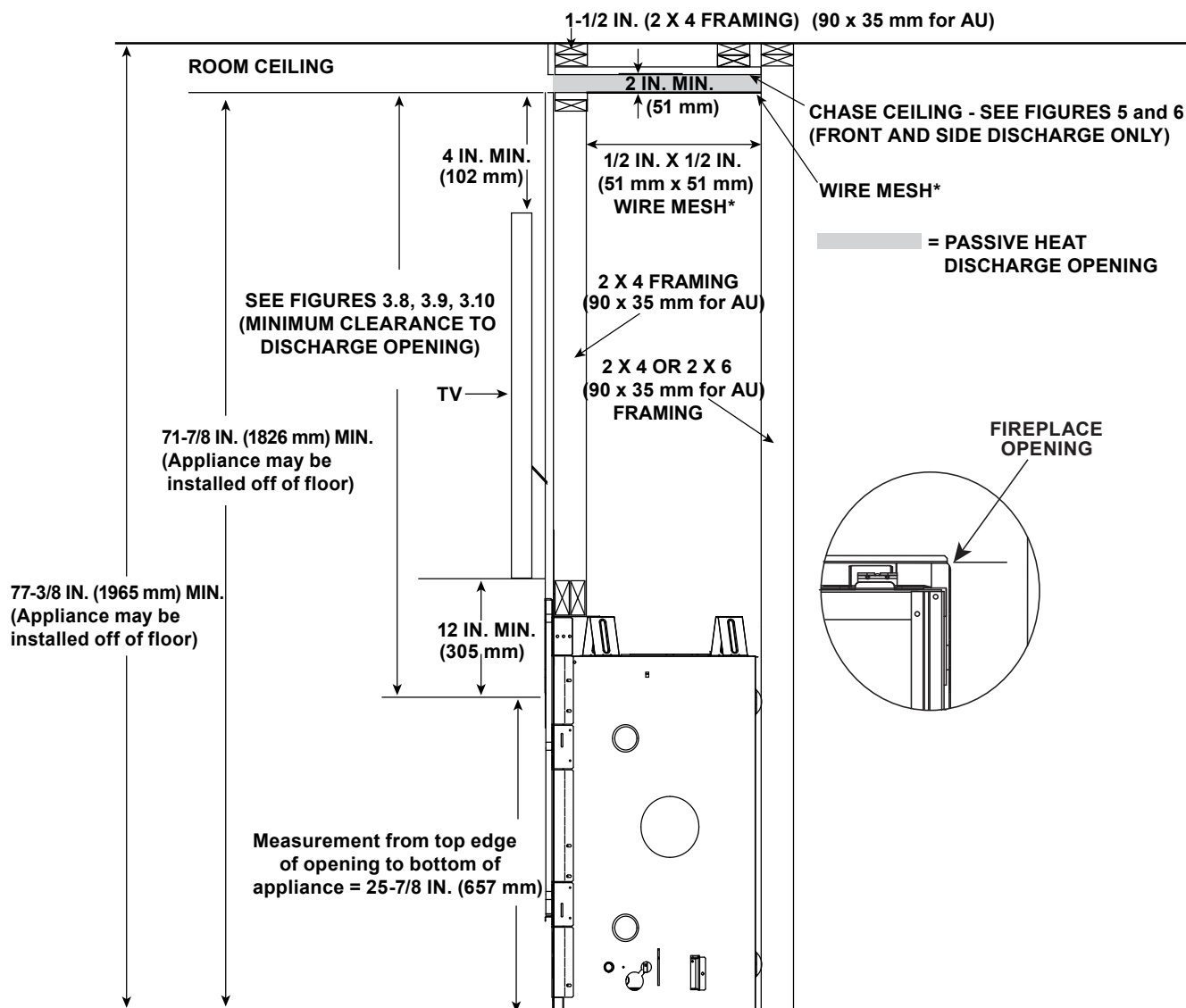
Figure 3

## Good Faith Guidelines for TV Installations Above a Fireplace with Passive Heat Option

This diagram specific to these models:

COSMO32-IFT-B	RAVE32-IFT-B	JADE32IN-B
COSMO36-IFT-B	RAVE36-IFT-B	JADE42IN-B
COSMO42-IFT-B	RAVE42-IFT-B	JADE42IL-B
DVLINEAR36	B41L-AU	

**WARNING! Risk of Fire!** Mesh screen required on bottom of discharge opening when discharge opening is greater than 3 in. (76 mm). Secure mesh to top of framing.



\* Wire mesh required for front discharge or open top discharge passive heat installations with discharge opening of 3 in. (76 mm) or greater.  
Wire mesh recommended for front discharge or open top discharge passive heat installations with discharge opening of less than 3 in. (76 mm).

**NOTE:** The TV installation requirements are the same regardless of whether the Passive Heat kit is installed with a top discharge, side discharge or open top discharge.

Figure 4

## Framing Dimensions- Passive Heat Front Discharge (PH-FRT-LINEAR)

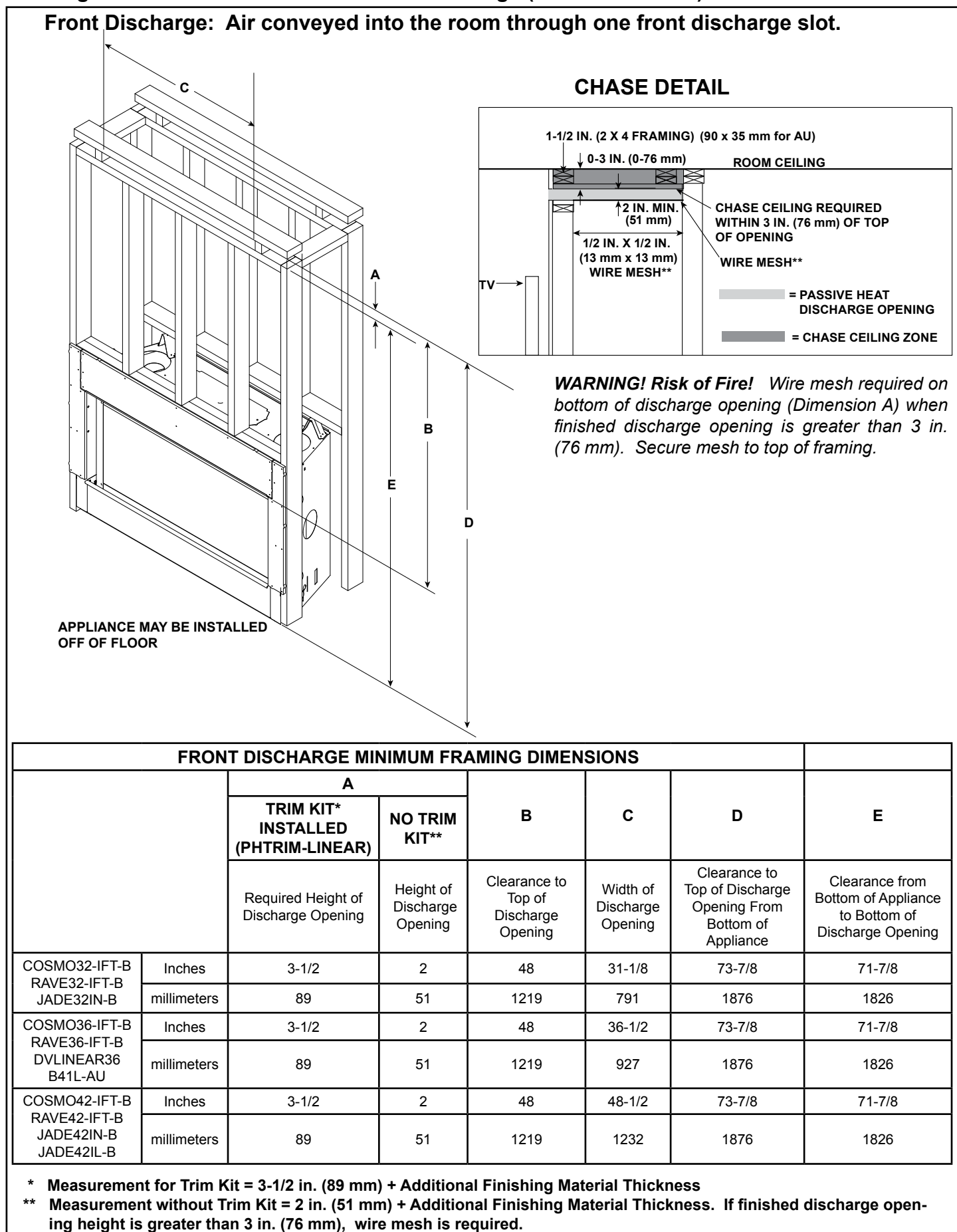


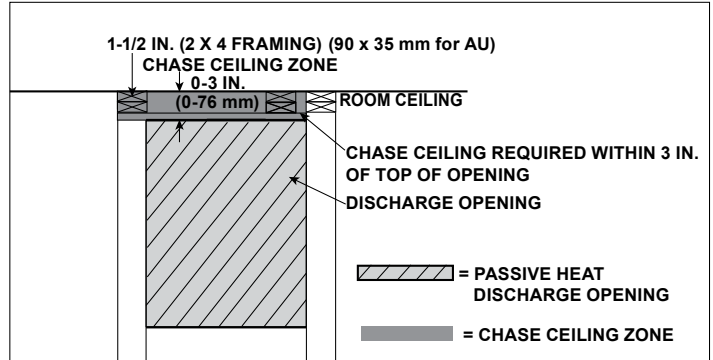
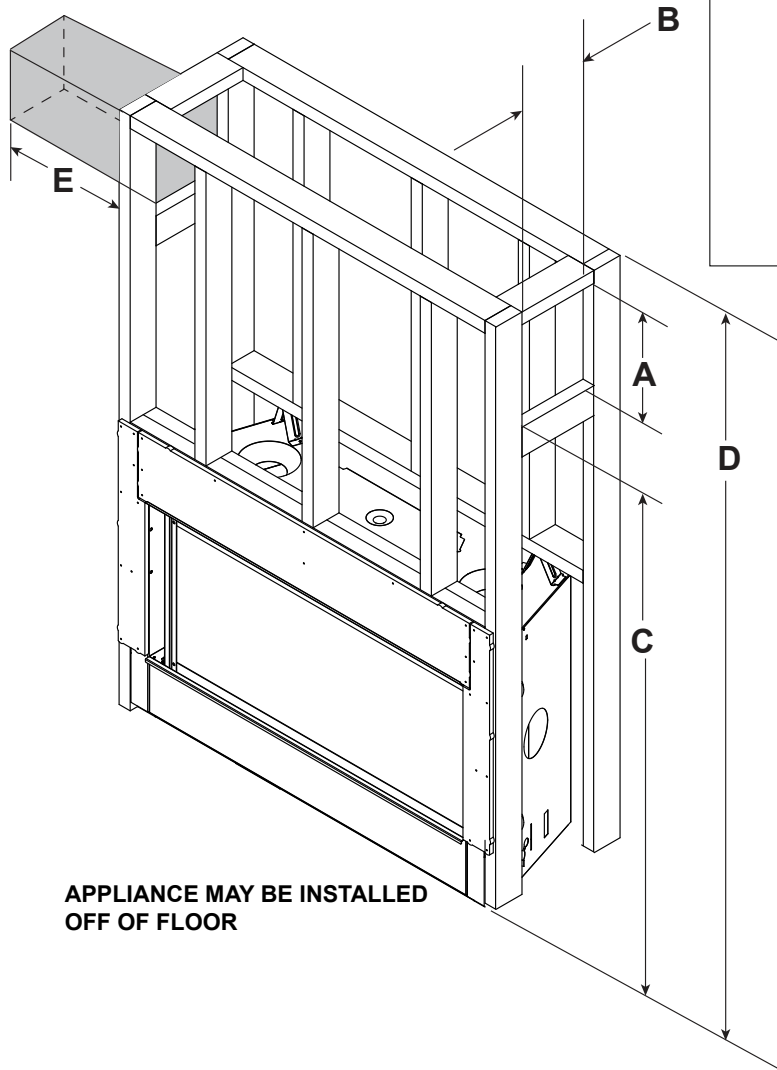
Figure 5 Passive Heat Front Discharge Framing Dimensions With and Without a Trim Kit

## Framing Dimensions - Passive Heat Side Discharge (PH-SIDE-LINEAR)

**Side Discharge:** Air conveyed into the room through two discharge registers, one on each side of appliance.

### CHASE DETAIL

**WARNING! Risk of Fire! DO NOT** place combustible objects or combustible materials in non-combustible zone. Appliance and combustible materials will overheat.



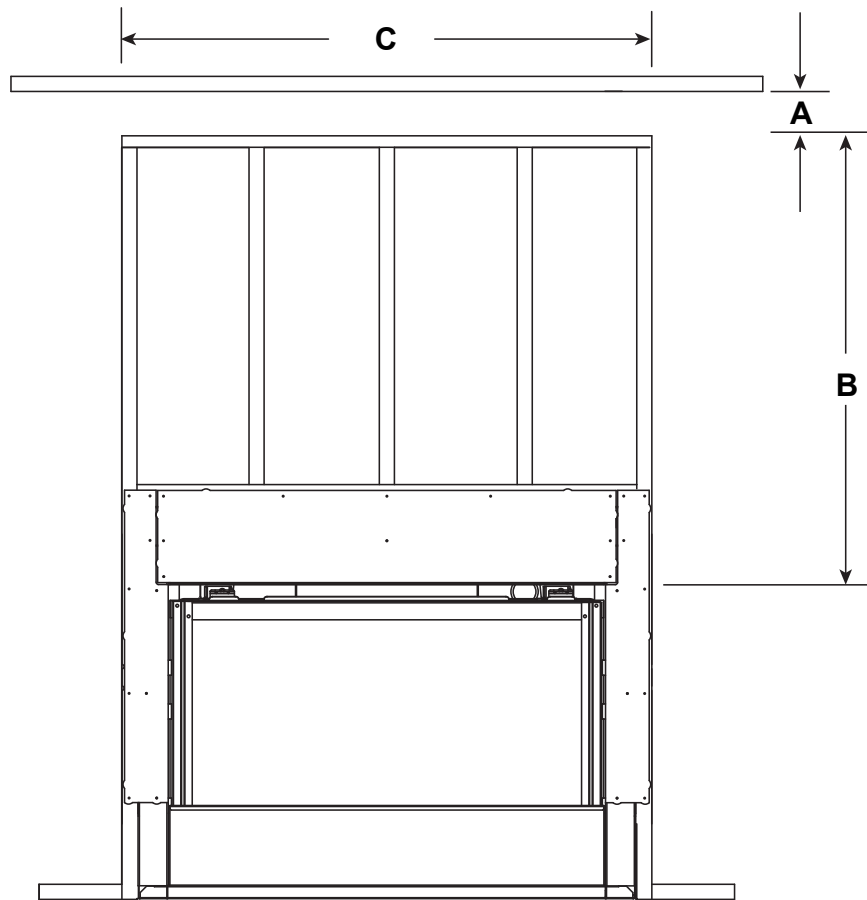
SIDE DISCHARGE FRAMING DIMENSIONS						
		A	B	C	D	E
		Height of Discharge Opening	Width of Discharge Opening	Minimum Clearance to Discharge Opening From Bottom of Appliance	Minimum Clearance Bottom of Appliance to Ceiling	Minimum Clearance to Combustible Materials
COSMO32-IFT-B RAVE32-IFT-B JADE32IN-B	Inches	12-1/4	8-3/4	63-5/8	77-3/8	18
COSMO36-IFT-B RAVE36-IFT-B DVLINEAR36 B41L-AU COSMO42-IFT-B RAVE42-IFT-B JADE42IN-B/ JADE42IL-B	millimeters	311	222	1616	1965	457

**Figure 6 Passive Heat Side Discharge Framing Dimensions**

## Framing Dimensions - Passive Heat Open Top Discharge (PH-FRT-LINEAR)

**Open Top Discharge:** Both sides and the top are open allowing air to be conveyed into the room.

**WARNING! Risk of Fire!** Mesh screen required on bottom of discharge opening when discharge opening is greater than 3 in. (76 mm). Secure mesh to top of framing.



OPEN TOP DISCHARGE MINIMUM FRAMING DIMENSIONS				
		A*	B	C
		Height of Discharge Opening	Clearance to Discharge Opening	Width of Discharge Opening
COSMO32-IFT-B RAVE32-IFT-B JADE32IN-B	Inches	2	48	31-1/8
	millimeters	51	1219	791
COSMO36-IFT-B RAVE36-IFT-B DVLINEAR36 B41L-AU	Inches	2	48	36-1/2
	millimeters	51	1219	927
COSMO42-IFT-B RAVE42-IFT-B JADE42IN-B JADE42IL-B	Inches	2	48	48-1/2
	millimeters	51	1219	1232

\* Mesh screen required for front discharge or open top discharge passive heat installations with discharge opening of 3 in. (76 mm) or greater.  
Mesh screen recommended for front discharge or open top discharge passive heat installations with discharge opening of less than 3 in. (76 mm).

**Figure 7 Passive Heat Minimum Framing Dimensions Open Top Discharge**

## Adapter Installation - Front, Side and Open Top Discharge

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

1. Remove rear standoffs and discard. See Figure 8.
2. Remove both top knockouts from outer wrap as shown in Figure 8. Discard knockout piece and ensure no other material or debris is blocking the hole created by removing the knockout.
3. Attach both adapters to appliance by installing two screws per adapter. See Figure 9.

**Note:** If installing an additional Heat Management System, refer to the instructions included with the kit for further installation instructions.

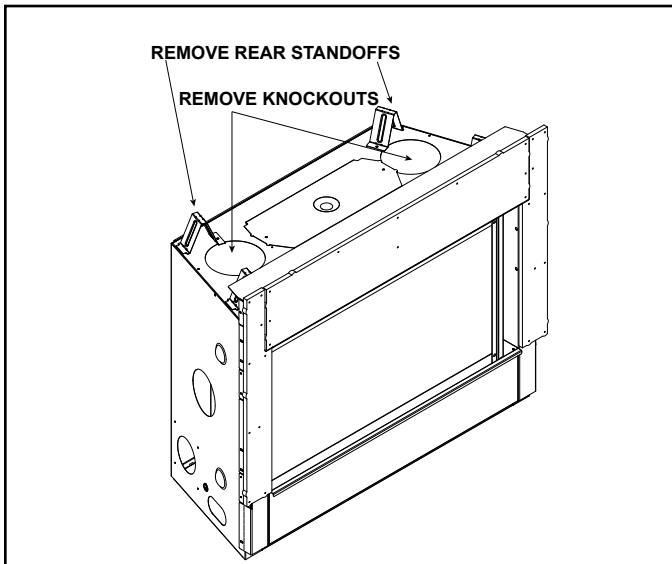


Figure 8 Remove Knockouts



Figure 9 Attach Adapters

## Register Cover Installation - Side Discharge

**WARNING! Risk of Overheating!** Both passive heat side discharge registers included with kit **MUST** be installed and be free of any obstructions or blockages. Overheating will occur.

1. Install register cover with louvers facing the front of the fireplace using provided screws. See Figure 10.

**WARNING! Risk of Fire! DO NOT** block passive heat registers! Overheating of appliance and combustible materials will occur.



Figure 10 Correct Register Orientation



## Finishing

1. Apply wall sheathing material, such as drywall up to 1/2 in. (13mm) thick up to the edge of the discharge opening.

**WARNING! Risk of Overheating! DO NOT** apply wall sheathing past the edge of discharge opening. Overheating of appliance and combustible materials will occur.

**Front Discharge Only:** Install trim kit as instructed. (PHTRIM-32LINEAR, PHTRIM-36LINEAR or PHTRIM-42LINEAR). Other standard sheetrock finishing methods may be used as well.

## Painting

### Side Discharge:

If desired finishing includes a painted register cover, Hearth & Home Technologies recommends using high temperature paint with a minimum of 300 °F (149 °C) continuous exposure rating.

### Front Discharge and Open Top Discharge:

The location of the Passive Heat discharge opening could allow for venting and other construction materials to be visible. It is acceptable to paint the vent pipe and other construction materials using a high temperature paint with a minimum of 300 °F (149 °C) continuous exposure rating. Hearth & Home Technologies recommends using black touch up paint (part number TUP-GBK-12) available from your Hearth & Home Technologies dealer.

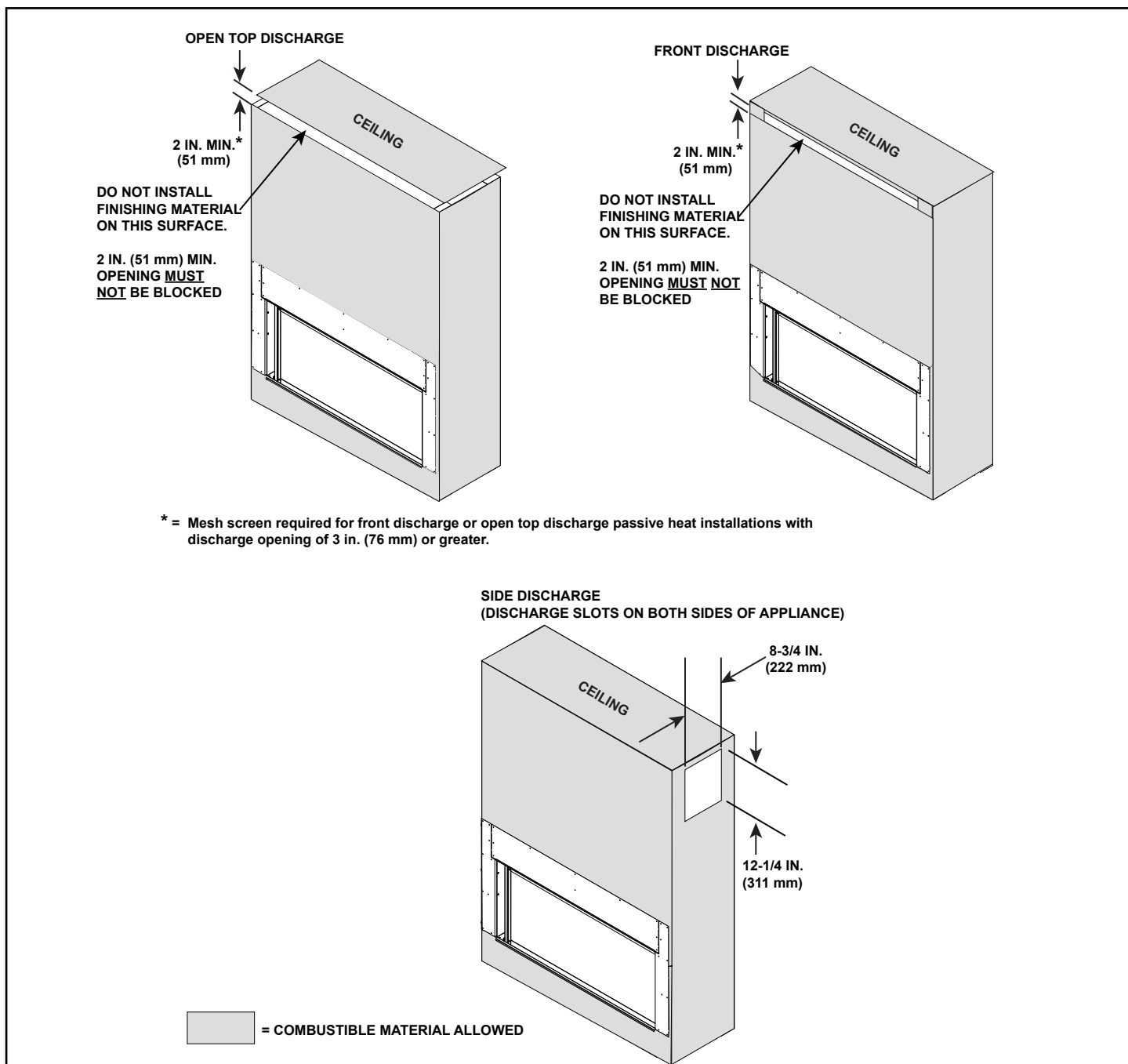


Figure 11 Finishing Material Installed

## Mantel Projections

Refer to the appliance Installation Manual.

### Installation of Passive Heat with Other Optional Heat Management Systems

There are other heat management options available for use with the COSMO-IFT-B, RAVE-IFT-B, JADE-B, DVLINEAR36 and B41L-AU models. Consult the appliance manual for compatible options.

**NOTICE:** Knockout must be removed from adapter prior to attaching collar for the heat management kit. Heat-Zone® Gas and Heat-Out-Gas system will not function properly if knockout remains intact.

#### Passive Heat Kit Installed with Optional Heat-Zone® Gas (Heat-Zone®-240V for B41L-AU)

- Only one Heat-Zone® Gas kit may be installed and used in conjunction with the Passive Heat Heat Management System.
- Remove knockout from adapter. The collar for the Heat-Zone® Gas kit will attach directly on top of the Passive Heat adapter. See Figure 12.
- Refer to the instructions included with the Heat-Zone® Gas kit for more information.

#### Passive Heat Kit Installed with Optional Heat-Out-Gas (Not available with B41L-AU)

- One Heat-Out-Gas kit may be installed and used in conjunction with the Passive Heat Heat Management System.
- Remove knockout from adapter. The collar for the HEAT-OUT-GAS kit will attach directly on top of the Passive Heat adapter. See Figure 12.
- Refer to the instructions included with the HEAT-OUT-GAS kit for more information.

The Passive Heat Kit is not compatible with the Smart-Wall™ TV Kit, GFK-160A or any other fan.

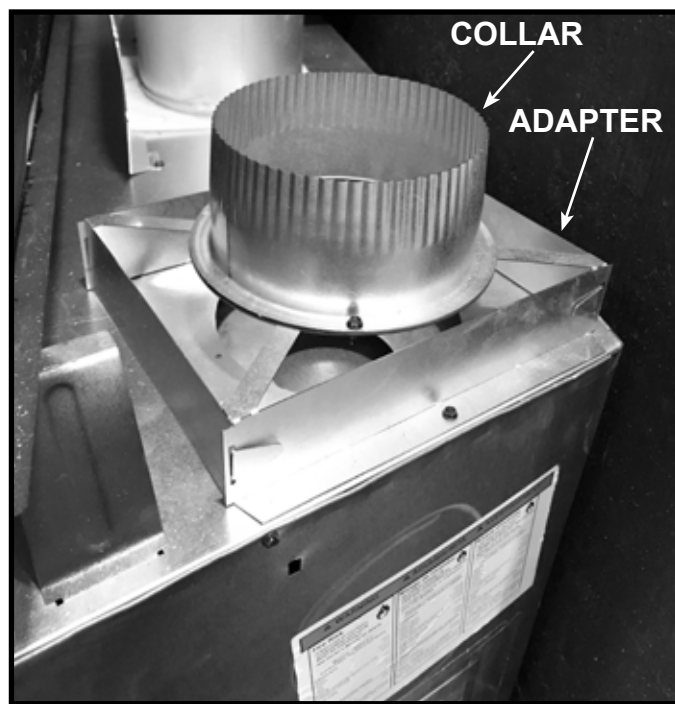


Figure 12 Collar Fastened to Adapter

## Maintenance

Service and maintain the gas fireplace per instructions. Keep the air register(s) clean and free of any blockage.

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](http://www.hearthnhome.com).

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