

# FLARE FIREPLACES | HEAT RELEASE SPEC MANUAL

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## HEAT RELEASE OVERVIEW

Every **Flare** Fireplace requires a Heat Release built into the top of the framing and finishing work of your fireplace surround. When planning for this required ventilation opening(s) you are only limited by your creativity, the space, and the fireplace specifications outlined in the installation manual. You'll want to consider the following three ideals when planning these opening(s):

1. Sizing based on fireplace size and any open-air-flow restrictions.
2. Positioning
3. How sizing & positioning impact the realistic flow of fresh air to the fans.

## SIZING

The Heat Release opening(s) must be built for maximum air flow out of your fireplace cavity. This required opening(s) takes advantage of natural convection by allowing your excess fireplace heat to rise naturally, without additional fans, to the top of your fireplace cavity. Here it can freely evacuate out of an opening(s), that if planned for properly, can maximize airflow while minimizing temperatures. The following sizing represents the absolute minimum allowable open-air-flow ventilation required to safely evacuate your fireplace cavity. The larger your opening(s) the cooler the wall above your fireplace will be.

### FLARE FIREPLACES | HEAT RELEASE SIZING GUIDE

For fireplaces sized 80" & 100" – ventilation area must be at least 200 square inches **OPEN AIR FLOW**.

For fireplaces sized 60" & 70" - ventilation area must be at least 140 square inches **OPEN AIR FLOW**.

For fireplaces sized 50" and below - ventilation area must be at least 100 square inches **OPEN AIR FLOW**.

## POSITIONING

The position of your Heat Release is remarkably important to the successful long-term operation of your fireplace, and safety of your entire fireplace surround. The following key points must be considered when planning for where you will place your Heat Release opening(s).

- Is my Heat Release opening(s) evenly distributed across linear length of my fireplace, and not in a vertical orientation?
- Is my Heat Release positioned on both sides of my cavity if I plan on using an option that places my opening(s) on the side of my cavity?
- Is my Heat Release placed within 1-3” of my non-combustible firestop?
- Is there anything in my fireplace cavity that is combustible or would hinder the natural rise and evacuation of heat?
- \* Is my Heat Release opening(s) interior-facing?

\* All Heat Release ventilation openings must be on the inside of your project to prevent the fireplace, and all its electronic components, from being exposed to the outside elements. Things like humidity, dust, and debris can all wreak havoc on the electronic components operating the fireplace and all its safety systems. This type of exposure is not covered under the [Manufacturer's Warranty](#).

## HOW SIZING & POSITIONING IMPACT THE REALISTIC FLOW OF FRESH AIR TO MY FANS

Because every job and its variables are unique, every Heat Release and its implementation are unique. As the educated person onsite, it is important to use these ideals to determine if your implementation will realistically operate the way it is intended. Air-flow restrictions, minimum sizing, location, any obstacles preventing the natural rise of heat, are all just some of the simple questions to ask yourself when working with your customers to determine the smartest implementation of this required opening(s).

## EXAMPLES OF HEAT RELEASES

Below are examples outlining how to best implement a Heat Release within your own **Flare** Fireplace projects. For further clarity, or to have any of your more specific questions answered, please do not hesitate to reach out to **Flare** Fireplaces directly.

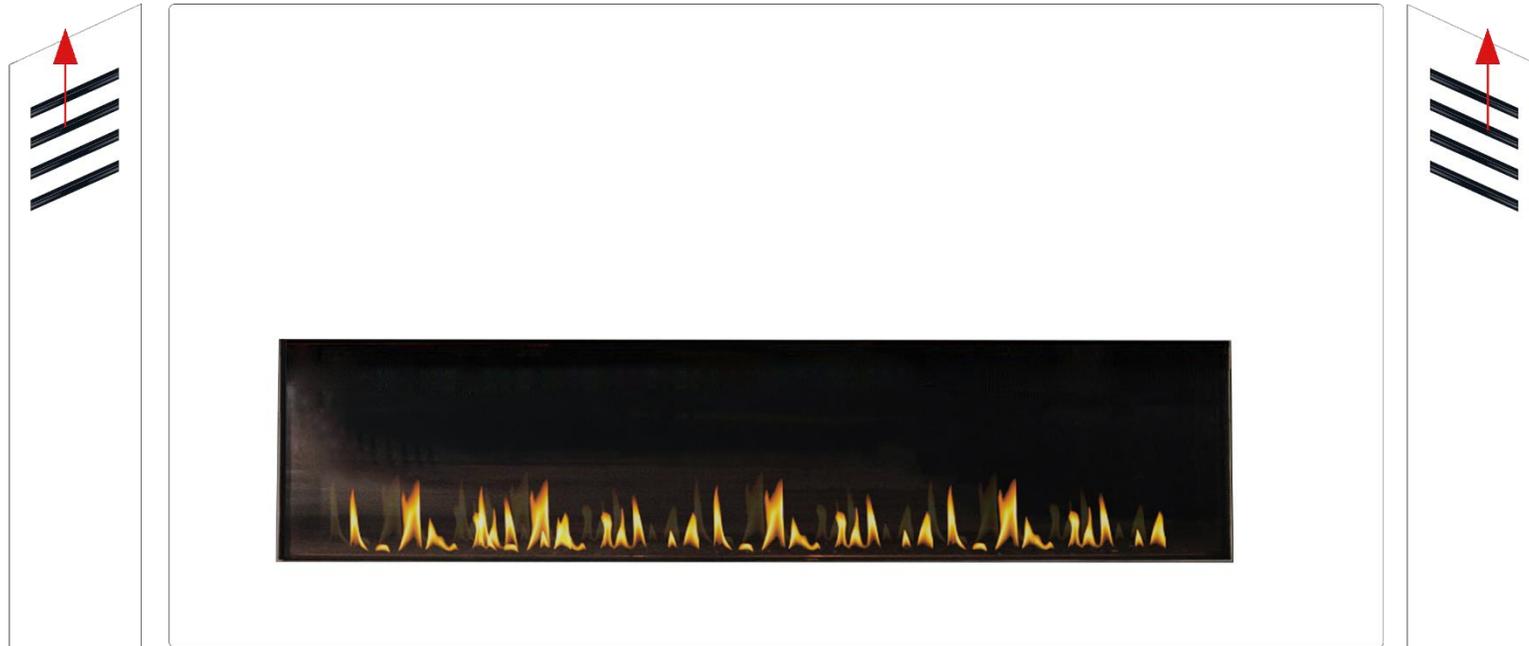
### FLARE FIREPLACES

1 (866) 639-1590

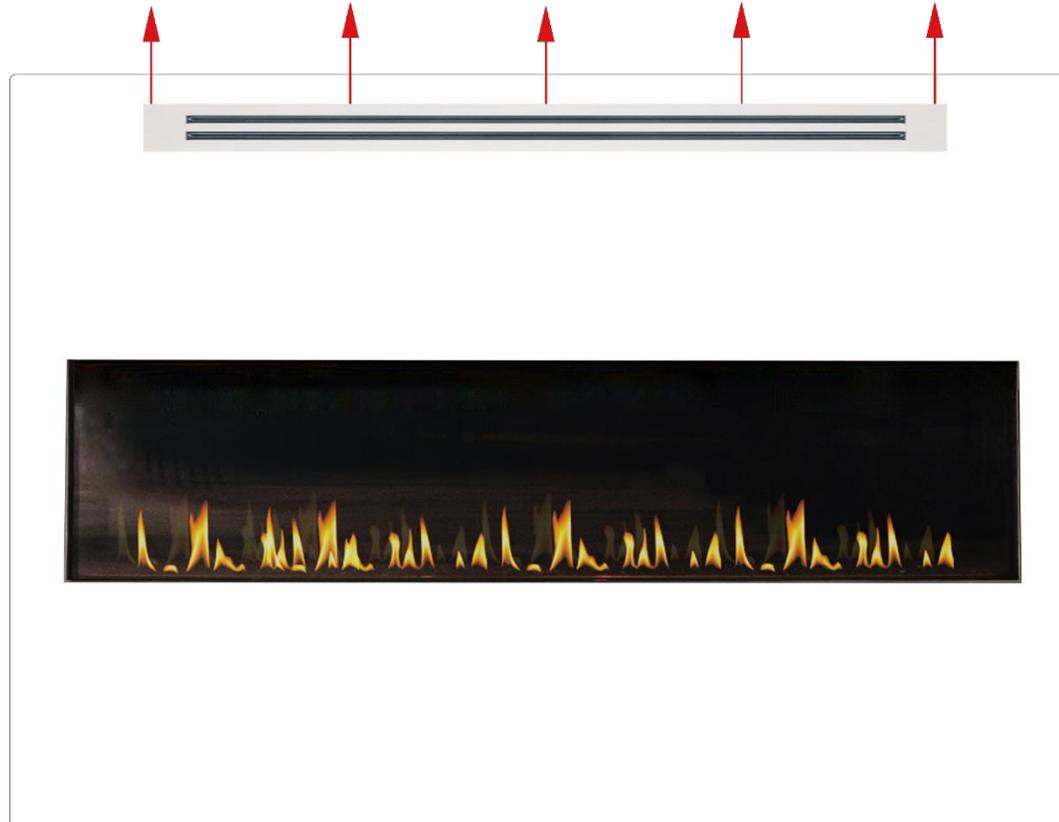
#### *DROP WALL*



# HIDDEN HEAT RELEASE | LEFT & RIGHT SIDE VENTS



# HIDDEN HEAT RELEASE | LINEAR SLOT DIFFUSER



SHADOW LINE

