

# FLARE FIREPLACES | AIR INTAKE SPECIFICATION MANUAL

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## AIR INTAKE OVERVIEW

Any **Flare** Fireplace that has been equipped with the [Double Glass](#) safety barrier, or a Blower Kit system is required to build an Air Intake into the framing and finishing work of your fireplace surround. When planning for this 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

Your Air Intake opening(s) must be built for maximum air flow to take advantage of the relatively quiet [Double Glass](#) fans ability to cool the outer layer of glass. Any restrictive vents or grates must be taken into consideration when planning your opening(s) size. The following size-outline represents the absolute **MINIMUM** requirements for implementing a properly sized Air Intake. Please note that the larger these opening(s) are, the more air your fans will receive, making your [Double Glass](#) barrier even cooler to the touch.

### FLARE FIREPLACES | AIR INTAKE SIZING GUIDE

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

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

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

**FOR SEE THROUGH AND ROOM DEFINER FIREPLACES, THE AIR INTAKE SIZE REQUIREMENTS ARE DOUBLED. THIS CAN BE ACHIEVED BY OPENING UP MULTIPLE SIDES EQUALLY, OR BY DOUBLING THE OPENING ON THE LONGEST SIDE.**

## POSITIONING

The position of your Air Intake is remarkably important to the successful long-term operation of your fireplace. The following key points must be considered when planning for where you will place your Air Intake opening(s).

- Is my Air Intake opening(s) evenly distributing fresh air to the fan system running the linear length of my fireplace?
  - Is my Air Intake 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?
  - Can my Air Intake, based on its position, also be used as my Service Access Panel?
  - Is my Air Intake opening(s) close enough to the fans to easily provide enough fresh air?
  - If my fireplace is on a platform, and is my platform penetrated with enough open space for fresh air to cool the glass?
  - \* Is my Air Intake opening(s) interior facing?
- \* All Air Intake 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

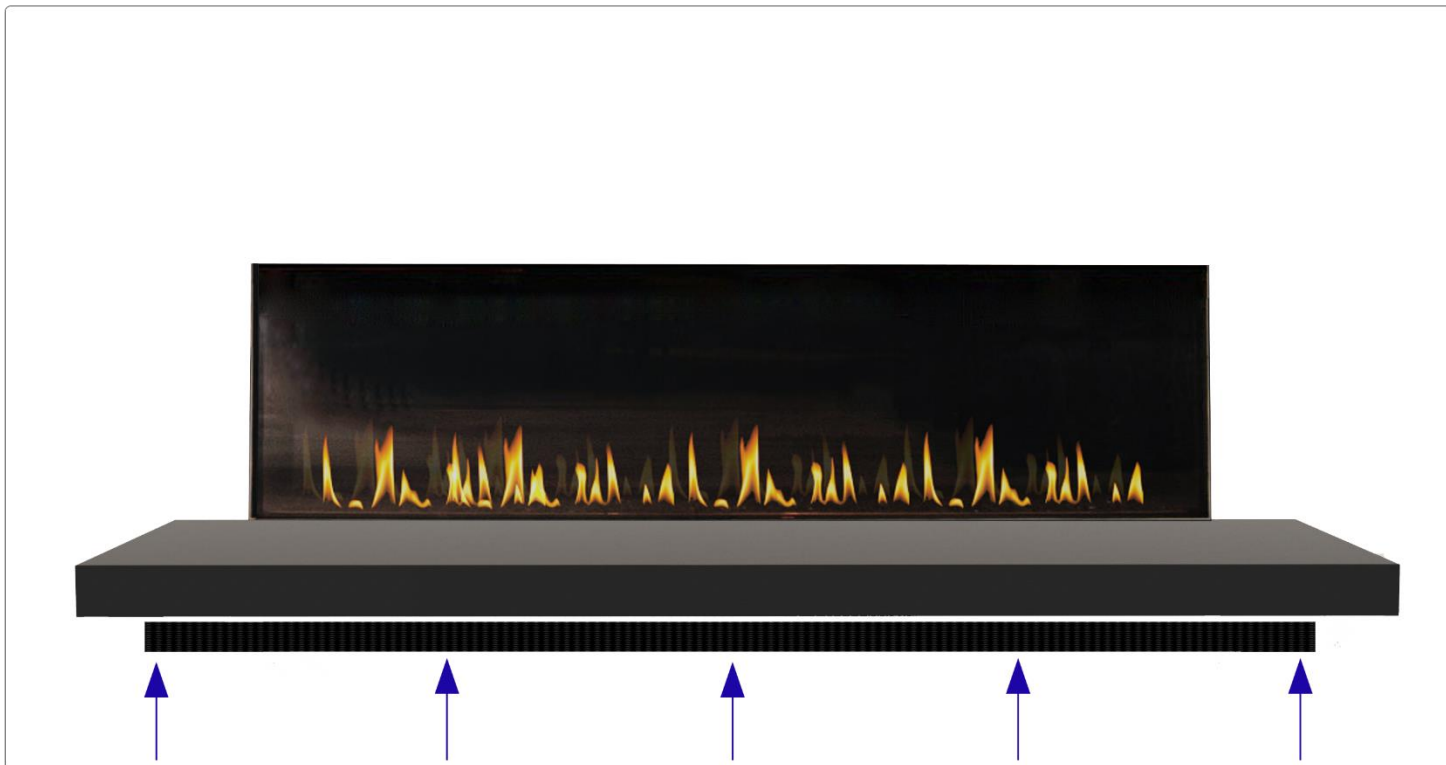
Because every job and its variables are unique, every Air Intake and its implementation are unique. As the educated person onsite, it is your job to use these ideals we've outlined to determine if your implementation will realistically operate the way it is intended. Air-flow restrictions, minimum sizing, location, how far fresh air must travel to get to your fans, is there a platform to penetrate, are all just some of the simple questions to ask yourself when working with your customers to determine the smartest implementation of these required elements.

## EXAMPLES OF AIR INTAKES

Below are incredible ideas on how to implement your Air Intake within your own **Flare** Fireplace projects. For further clarity of to have any of your more specific questions answered please do not hesitate to reach out directly.

### FLOATING HEARTH

# HIDDEN AIR INTAKE | FLOATING HEARTH



# HIDDEN AIR INTAKE | L-SHAPED REVEAL



# HIDDEN AIR INTAKE | LEFT & RIGHT SIDE VENTS



**\*Fireplaces Sized 70"-100" may require openings to either be larger to feed the center of your fireplace, or an opening also placed across the front to prevent the fans found at the center of your fireplace from being starved of fresh air, creating hot spots on your glass.**

# HIDDEN AIR INTAKE | LINEAR SLOT DIFFUSER

