

# FLARE

## FIREPLACES

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### TRADITIONAL AIR INTAKE OVERVIEW

The air intake opening is required for all traditional fireplaces equipped with the cool glass safety barrier. The air intake allows for fresh air from the room to cool the outer layer of glass, preventing it from reaching temperatures that require a screen. This also helps control the temperature of the surrounding walls, keeping them relatively cool.

#### Air Intake Keys:

1. Must always remain open.
2. Must be at the bottom of the enclosure and begin within 1" – 2" off the floor.
3. Can be located on any interior side of the surround
4. If placed on the side of the surround it must be on both sides and sized equally
5. The air intake must be interior facing
6. The air intake must be horizontally oriented.
7. Restriction created by finishing over opening must be considered when calculating open-air flow

Fireplaces sized 42" & 46" - vent area must be at least 70 square inches of open-air flow.

### NOTE

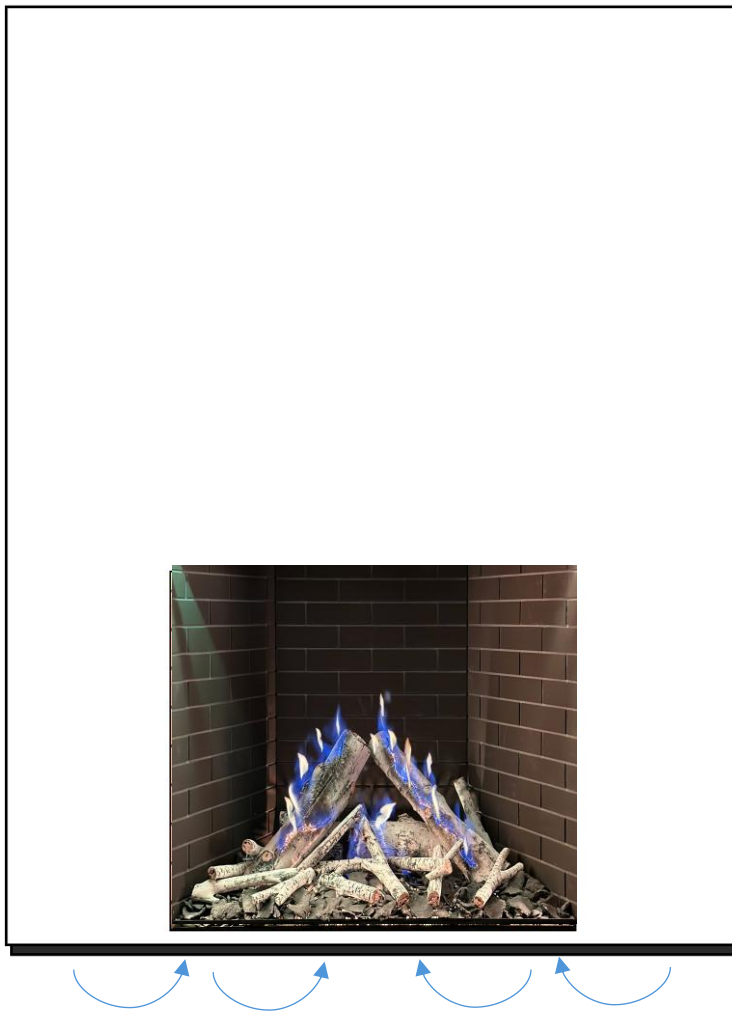
Any opening greater than the minimum size is highly recommended and will help reduce the temperature of the glass and surrounding walls. Make sure if building a platform to raise the fireplace, the platform is completely open to allow fresh air to flow to the underside of the fireplace. All room temperature air should be able to easily reach the underside of the fireplace.

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## TRADITIONAL AIR INTAKE EXAMPLES

### TOE-KICK REVEAL

To implement a toe-kick reveal, construct your build so that it stops 2" – 4" above the floor and is recessed 2" – 3" from the front edge. Then, extend the finishing to the floor. This creates an upside-down L-shape, where the segment of the L parallel to the floor remains open along the entire length. This design allows you to also remove the portion of the building that sits perpendicular to the floor, opening large access to the fireplace components.



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### SIDE VENTS

Vents may be cut into the finishing material or placed over an opening in the surround to finish out the air intake. It's critical that if you put an air intake on the side of your surround it's on both sides and sized evenly to allow enough fresh air to reach the fireplace in a balanced manner.



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## FLOATING HEARTH

The floating hearth intake uses the depth of an existing hearth to mask an opening tucked underneath. This masking allows you to create an opening that is both large enough to exceed the minimum sizing requirements and allow a technician a large space for accessing the components.



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## LINEAR SLOT

The linear slot is an effective and straightforward method for implementing air intake. Simply cut a slot in the face or backside of the fireplace surround to meet the necessary airflow requirements. If you are adding a custom finishing piece, consider any restrictions this piece creates, and ensure it does not obstruct the opening and maintains proper airflow.

