KS75 Glass Barrier - Single Sided Gas Fireplace

Information Sheet for Builders and Architects

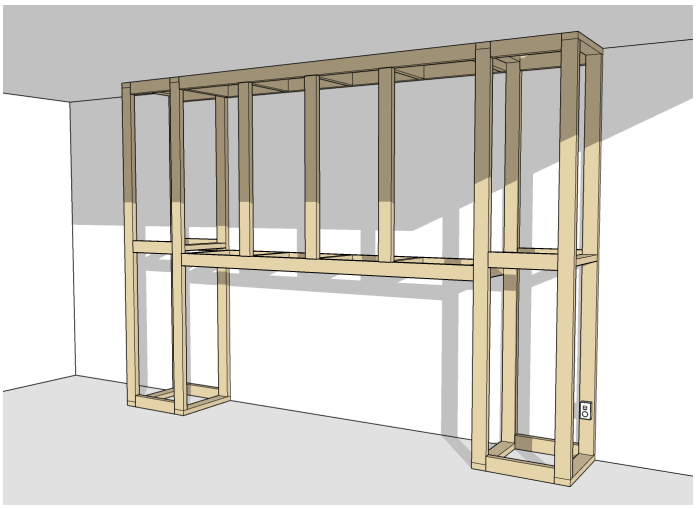
FIRE BY escea.

SPECIFICATIONS

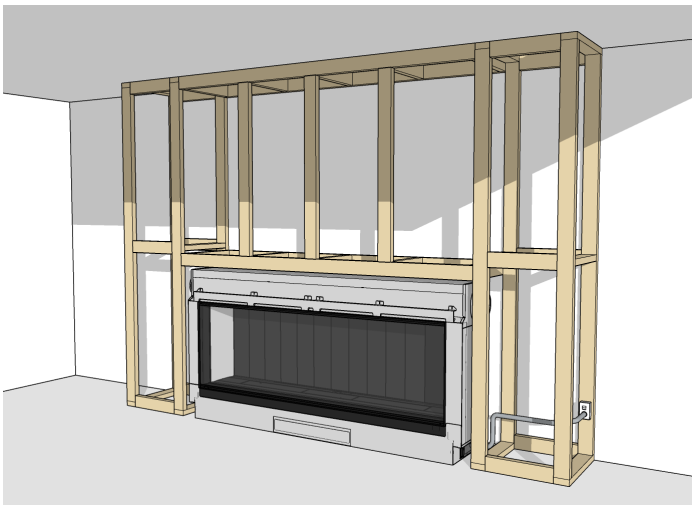
Model No.	NCS7525
Gas Input (NG/Propane)	57,000 BTU-hr/57,000 BTU-hr
Heat Output (NG/Propane)	37,882 BTU-hr/39,296 BTU-hr
Gas Connection	Lower center of fireplace
Gas Type	Natural Gas / Propane
Power Requirement	3 pin, 110/120V mains power
Appliance Weight	654.7 lbs
Fuel Bed/Media	Traditional Logs, Riverbed, Crushed Glass
Finish Options	Frameless
Connections	Right-hand side of the fireplace
Heat Duct System	Mandatory
Fireplace Chase Venting	Not Required
Clearance to Combustibles	Zero clearance from fireplace surfaces
Service Access Hatch	Not Required

Vent System	Power direct-vent with 4” x 6 ⅝” vent pipe*
Vent Termination Locations	Roof or Wall mounted Terminations
Minimum Vent Length	24”
Maximum Vent Length	50’ (600”)
Vent Clearances to Combustibles	3” above vent, 1” to sides/below vent
Vent Bends Allowed	6 @ 90° and 12 @45°
Compliance	Certified to *ANSI Z21.88/CSA 2.33*

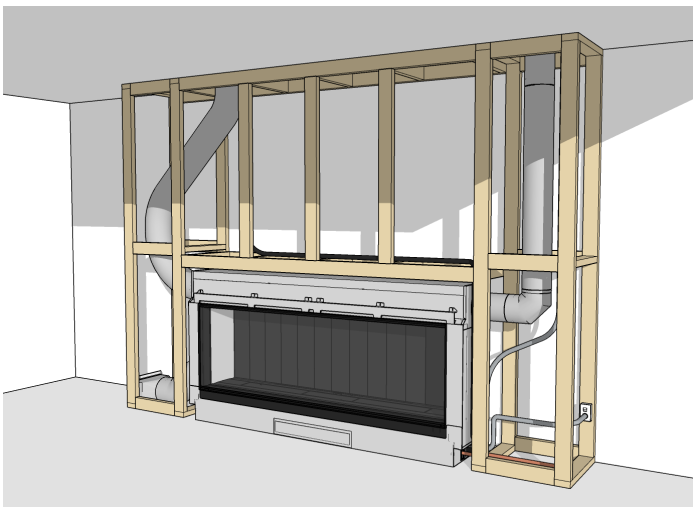
INSTALLATION



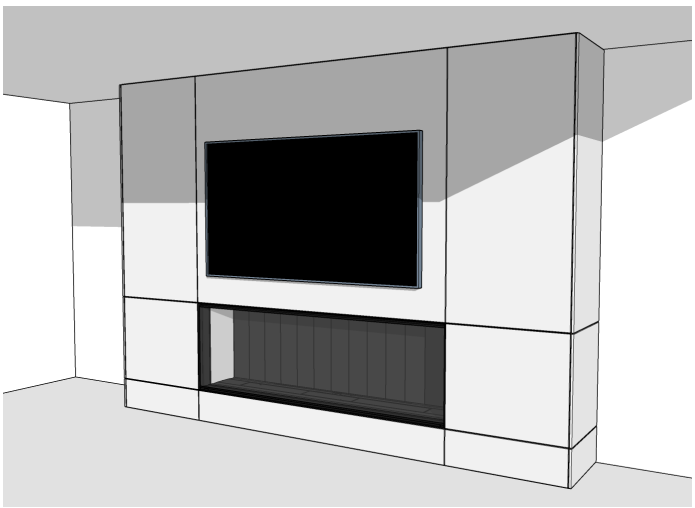
Construct the wood framing following all minimum fireplace chase opening requirements and with consideration to vent pathways. Provide a continuous base for the fireplace.
Allow for mains power connection and an accessible isolation switch.



Install the appliance into the preformed opening in the chase. Secure to the framework using the supplied nailing flanges. The fireplace should be flush with the wood framing.
Install the electrical connection and gas supply.



Connect the vent pipe to the fireplace and construct vent pathway to the vent termination.
Connect Power-vent electrical supply from the fireplace to the vent termination.
Install the heat duct system including the duct fan and duct fan electrical cable.



Fix the wall linings to the framework and the fireplace leaving a 1/4” gap to the glass opening. The wall lining can be bonded directly to the fireplace.
Install any additional finishes or fixtures to complete the project.

*Refer to the *Escea KS Series Flue Information Sheets*

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FIREPLACE LOCATION

A single sided gas fireplace allows for a multiple locations within a space or room. This could be as a room divider, against an external wall, an island, into a corner, or as a peninsula type installation. Alternatively, the framework could be capped at the minimum cavity height for an under counter or cabinetry scenario. Refer to the *Escea Cabinetry Design Guide* for further information.

TV AND MANTEL CLEARANCE

A TV or other electrical appliances can be mounted above the fireplace, either surface mounted or recessed into the chase. The base of the TV must be a minimum of **8”** above the top of the glass viewing area.
A combustible mantel can be installed above the fireplace a minimum of **8”**, but the mantel height is relative to the mantel depth. The greater the depth protruding from the wall, the higher the mantel clearance. Please refer to the *Escea NC Series Install Manual* for further information.

HEAT DUCT SYSTEM

The heat duct system is to distribute warm convection air from the fireplace into the room and further afield. The heat duct system must not vent externally.
The system is configured with **8”** semi-rigid or rigid vent pipe from the fireplace to the **duct fan**. After the duct fan, the vent pipe is **10”** flexible ducting to a splitter or outlet. When using splitters to multiple outlets, **6”** flexible ducting is used after the in-line splitter. In addition, an **8”** convection air inlet is provided from outside the chase directly to the fireplace. Please refer to the *Escea NC Series Install Guide* for further information.
The duct fan and duct pipework must be fully supported and restrained.

FIREPLACE BASE

The fireplace can be installed directly onto the floor or onto an elevated structure. In all instances the fireplace should be installed onto a hard, continuous surface, i.e. concrete floor, plywood or compressed cement sheet.
Do not install directly onto carpeting, rugs or other heat sensitive floor finishes.

FIREPLACE CHASE

The fireplace chase is a vertical or box-like structure built to enclose the gas fireplace and/or its vent system. In cooler climates the vent should be enclosed in the chase. This can be constructed from wood or steel framing, or panels.
Fire-stops are required for safety when the vent system passes through an interior, exterior wall or a ceiling. Ceiling or wall fire-stop requirements will vary with each geographic location and you should check local regulations.
In this scenario the overall fireplace chase width is 136” with 23” of framework to each side of the fireplace. This allows for additional space to run the vent and duct vent system, and overall chase symmetry.

FINISHES

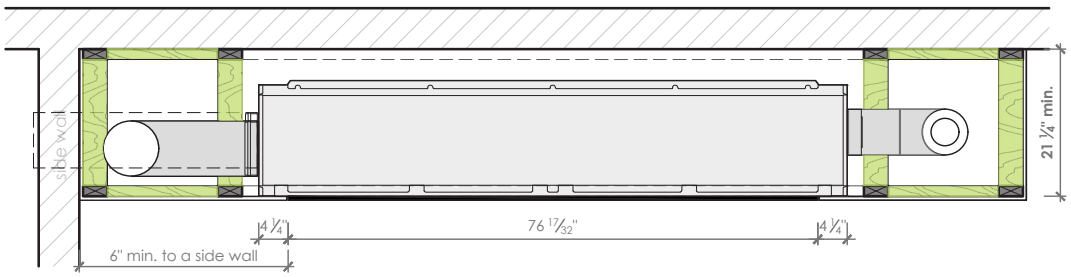
Various combustible or non-combustible wall finishes and linings can be used to complete the installation, varying in depths of 3/8” to 3/4”. **Combustible wall linings MUST NOT protrude past the finishing trim (5/8” depth) to the edge of the glass.**
Some installation scenarios can expose materials to higher levels of heat than expected or allowable. Designers, owners, or Installers must choose materials that are suitable for use. *Please refer to the Escea website for finish details.*
Wall linings can be bonded directly to the appliance.
Finishes should not obstruct or modify air inlets or outlets in any way.

FIREPLACE DIMENSIONS

Fireplace Width	89 7/32”	**Chase Opening Width min.**	90 ”
Fireplace Height	42 29/32”	**Chase Opening Height min.**	44”
Fireplace Depth	17 19/32”	**Chase Opening Depth min.**	21 ¼”
Viewing Area Width	76 17/32”	**Vent Chase Width min.**	8”
Viewing Area Height	24 7/8”	**Duct Vent Chase Width min.**	19”

This fireplace should be installed in accordance with any local regulations or codes and the Mode NC Series Install Manual. In the absence of local codes, install in accordance with ANSI Z223.1/NFPA 54, or CSA B149.1 and the Mode NC Series Install Manual.

Plan



Side View

Front View