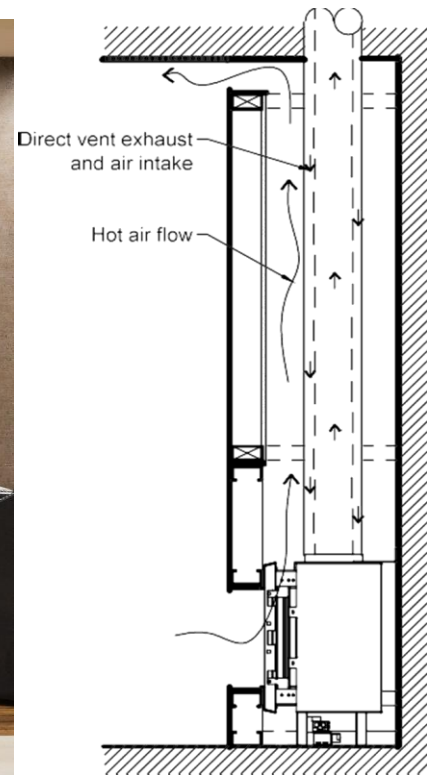


-Cool Wall Technology- Uniquely Engineered and Developed by ORTAL



ORTAL helps maintain a cool wall for the design and finishes around your firebox.

ORTAL engineers have designed a technique to reduce the heat buildup from the firebox by allowing the heat to vent out in a safe way. Being one of the first in the industry to design and perfect this application, ORTAL's cool wall technology keeps the walls above your fireplace at a temperature low enough to avoid any damage that would otherwise arise from high temperatures. This opens up your design possibilities by making it safe to install TVs, artwork, and special finishes that would normally be prohibited.

	Competitors	ORTAL
Wall temperature (0-6" above the firebox)	280°F - 380°F	120°F- ↓
Wall temperature (6"-12" above firebox)	240°F - 320°F	100°F- ↓
Wall temperature (12" above the firebox)	180°F - 300°F	80°F

Recommended min. clearance between bottom of TV and top of firebox opening is 12".

Without Cool Wall Technology, surrounding wall temperatures can range from 180° - 380°. At these high temperatures, the following conditions may occur:

1. Distortion of the wall surface
2. Paint on the finished wall will peel or change color
3. Tiles will fall off the wall and the glue will no longer hold above 240°.
4. Wood paneling will pucker, bend and/or splinter
5. Marble may begin to crack.
6. Electrical components will not be compliant

Maximum Temperature for Different Finishes		
Material	Heat Impact Temperature	Damage
Marble	280° (Estimate, there is a lot of variety. Ask your supplier.)	Marble will crack.
Tile/Glue	240° (From a sampling of MSDS of a variety of products)	Tiles may fall off the wall as glue will no longer hold them.
Paint	170° (From a sampling of MSDS of a variety of products)	Paint will peel or change colors.
Wood	Depends on dryness/moisture content.	Warp, bows, dries, cracks, burn/fire hazard.

Few of our competitors can achieve the balance of removing heat from the walls while still having the fireplace put heat out into the room. The way most manufacturers handle cooling down the wall is by using fans to remove the heat entirely, allowing no heat to move into the room. With ORTAL, you don't have to sacrifice function for form. You get the design you want while maintaining the function of the fireplace.

ORTAL provides you with options and solutions that allow you to maintain control and creativity of your fireplace design.

Note: Make sure to review and understand all of ORTAL's installation manuals, details and clearances before installation. Also, be sure to consult the product guides and manuals for whatever products or devices will be used as part of the installation to ensure compliant installation for all products.

If you have any questions, please contact us and our technical department will be happy to assist.