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## **GLASS INFORMATION**

### **WHITE GLASS**

White marks on the gas fireplace glass are caused by the water vapor that natural gas produces when it burns. This water vapor contains five different acids that accumulate on the glass with each burning.

These acids etch themselves into the glass, the sides of the fireplace and the glass gasket. Over time these acids may erode the vent pipe, which will need to be replaced.

*The five acids in the water vapor are:*

HCL - Hydrochloric Acid  
H<sub>2</sub>SO<sub>4</sub> - Sulfuric Acid  
HNO<sub>3</sub> - Nitric Acid  
NaNO<sub>2</sub> - Sodium Nitrite  
HF - Hydrofluoric Acid

These chemical compounds attack the most commonly used sealant, compromising the integrity of the seal. This chemical attack, combined with the heat of the flue gas, significantly reduces the effective life span of the sealant. Water based sealants dry out and will not thermally cycle with the unit. They eventually crack, crumble and fall out of the joint. Flue Gas Condensate components per ULC-S636-9

White glass is also an indicator that the logs may be out of position and the gas fireplace is in need of servicing.

Whenever you find any gas appliance with discoloration in it or around it, that appliance needs to be serviced!