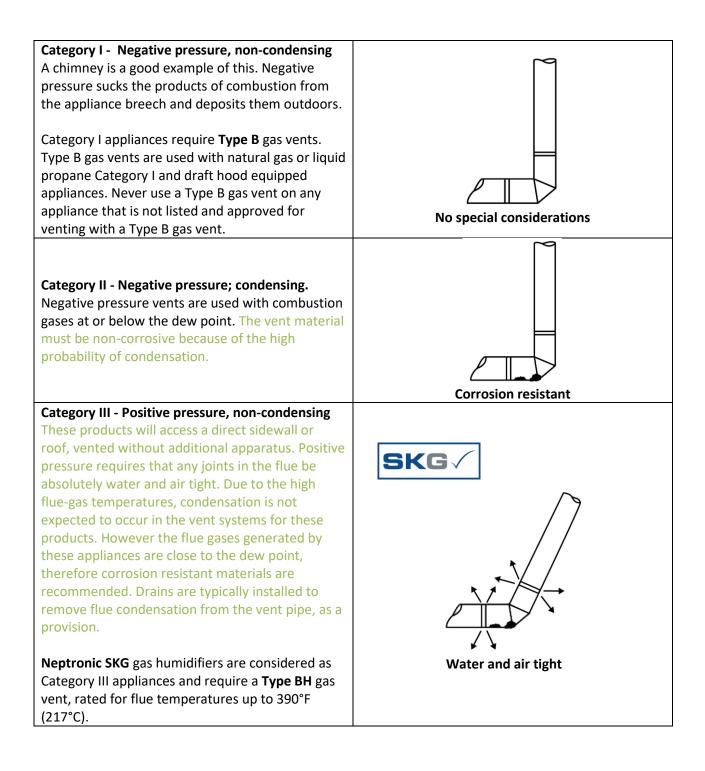
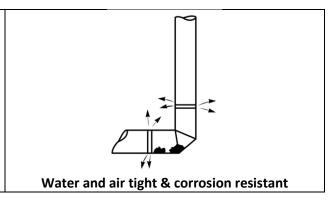
Don't bottle it, vent it!

Gas appliances are divided into four venting categories based on vent operating pressure (as positive or negative) and whether they are condensing (i.e.: flue products with a temperature of less than 275°F or 135°C, that have a high probability of condensation forming in the vent) or non-condensing. These categories are used to determine the type of vent that should be used for the appliance.



Category IV - Positive pressure, condensing. These appliances are designed to dispose of excessive flue condensate as well as condensate formed within the secondary heat exchanger.



General installation requirements for the SKG humidifiers

The SKG steam humidifier must be installed with:

- A listed **BH vent Class I** with a single or double wall system for a Category III appliance;
- The vent must be fabricated from AL29-4C stainless steel and be air and water tight;
- The horizontal vent pipe must be sloped upward toward the termination at a minimum of ¼ inch
- per foot and be installed so that all condensate runs back toward the drain and is not retained in any part of the venting system;
- A drain fitting must be located as close as possible to the SKG flue outlet. Depending on the arrangement of the vent, more than one drain may be required in the venting system;
- Additional appliances may not be interconnected to any part of the venting system of the SKG unit; and
- A Category III appliance may not be interconnected to any part of a vent system common with a natural draft or draft hood appliance.

Type BH gas vents are classified into Class I or Class II temperatures (*Note that the SKG requires a Class I venting system):

Class I temperatures are defined as more than 275°F (135°C) but less than 473°F (245°C). **Class II** temperatures are defined as 275°F (135°C) or less and classified into four different ratings:

- A) Temperatures up to and including 149°F (65°C);
- B) Temperatures up to and including 194°F (90°C);
- C) Temperatures up to and including 230°F (110°C) and;
- D) Temperatures up to and including 275°F (135°C).

Warning -

While plastic pipe has the advantages of corrosion resistance and leak-tight assembly, the systems 636 PVC and 636 CPVC, although they are listed as BH Class II vent type, are **NOT suitable** for the SKG units because of their temperature limitation.

Reference:

http://www.ehow.com/list_7285461_types-gas-vents-there_.html Fundamentals of Venting 34-4010-02