

---

## Category I Gas Appliance

A non-condensing gas appliance that operates with a non-positive vent pressure.

### Atmospheric Boilers

CL/CLM Series	ASME Section IV Water & Steam <sup>5</sup> ASME Section I Water & Steam
K Series	ASME Section IV Water & Steam <sup>5</sup> ASME Section I Water & Steam

### Power Fired Boilers

CL/CLM Series	ASME Section I & IV Water & Steam
HECL/HE-CLM Series	ASME Section IV Water

---

## Category II Gas Appliance

A condensing gas appliance that operates with a non-positive vent pressure.

---

## Category III Gas Appliance

A non-condensing gas appliance that operates with a positive vent pressure.

### Power Fired Boilers

AB Series	ASME Section I Water & Section I & IV Steam
DR Series	ASME Section I Water & Section I & IV Steam
EB Series	ASME Section I Water & Section I & IV Steam
HE-AB Series	ASME Section IV Water
HE-RV Series	ASME Section IV Water
RV Series	ASME Section I Water & Section I & IV Steam
RW Series	ASME Section I Water & Section I & IV Steam

---

## Category IV Gas Appliance

A condensing gas appliance that operates with a positive vent pressure.

### Power Fired Boilers

TF Series	ASME Section IV Water
-----------	-----------------------

## Clarifications:

- 1 A boiler operating at a steady state efficiency (output divided by input) over 83% may be placed in a Category II or IV depending on its flue gas outlet pressure.
- 2 The steady state efficiency is determined from the relationship between net flue gas temperature (rise above ambient) and the flue gas composition (%CO<sub>2</sub>).
- 3 A condensing boiler is one in which, under continuous operation, water may collect within the boiler or in the venting system . Bryan Boilers with steady state efficiencies over 83 % will possibly condense in the venting system.
- 4 Depending on how the venting systems is sized (positive or negative pressure at boiler flue outlet) may result in a change in Category classification.
- 5 Type B Vents are for negative flue pressures and for flue gas temperatures not exceeding 550°F. Typically are utilized on listed gas appliances with draft hoods and other Category I appliances specifically listed for use with Type B Vent. This would only apply to atmospheric *CL/CLM* & K Series Water and 15 PSIG Steam Boilers.

### Obsolete Models

Boiler Series	Permissible Draft Range @ Boiler Outlet (i.w.c.)
---------------	--

#### ATMOSPHERIC NATURAL GAS-FIRED BOILERS

<i>CL/CLM</i>	-0.02 to -0.04
K	-0.02 to -0.06

#### FORCED DRAFT NATURAL GAS-FIRED BOILERS

AB	+0.25 to -0.06
<i>CL/CLM</i>	0.00 to -0.04
DR	+0.10 to -0.06
EB	+0.10 to -0.10
HE-AB	0.00 to -0.06
<i>HECL/HE-CLM</i>	0.00 to -0.06
HE-RV	+0.10 to -0.10
RV	+0.50 to -0.10
RW	+0.50 to -0.10
TF	+0.20 to -0.05