Phoenix Building Construction Code

Updated Amendments To the

2003 International Mechanical Code

CHAPTER 2
DEFINITIONS

SECTION 202
GENERAL DEFINITIONS

(Add or replace the following definitions from the IFGC into the IMC.)

DILUTION AIR. Air that is introduced into a draft hood and is mixed with the flue gases.

DRAFT HOOD. A nonadjustable device built into an appliance, or made as part of the vent connector from an appliance, that is de signed to (1) provide for ready escape of the flue gases from the appliance in the event of no draft, backdraft or stoppage beyond the draft hood, (2) prevent a backdraft from entering the appliance, and (3) neutralize the effect of stack action of the chimney or gas vent upon operation of the appliance.

VENT. A pipe or other conduit composed of factory-made components, containing a passageway for conveying combustion products and air to the atmosphere, listed and labeled for use with a specific type or class of appliance.

> **Special gas vent.** A vent listed and labeled for use with listed Category II, III and IV appliances.
>
> **Type B vent.** A vent listed and labeled for use with appliances with draft hoods and other Category I appliances that are listed for use with Type B vents.
>
> **Type BW vent.** A vent listed and labeled for use with wall furnaces.
>
> **Type L vent.** A vent listed and labeled for use with appliances that are listed for use with Type L or Type B vents.

VENT GASES. Products of combustion from appliances plus excess air plus dilution air in the vent connector, gas vent or chimney above the draft hood or draft regulator.

VENTED APPLIANCE CATEGORIES. Appliances that are categorized for the purpose of vent selection are classified into the following four categories:

> **Category I.** An appliance that operates with a nonpositive vent static pressure and with a vent gas temperature that avoids excessive condensate production in the vent.

Category II. An appliance that operates with a nonpositive vent static pressure and with a vent gas temperature that is capable of causing excessive condensate production in the vent.

Category III. An appliance that operates with a positive vent static pressure and with a vent gas temperature that avoids excessive condensate production in the vent.

Category IV. An appliance that operates with a positive vent static pressure and with a vent gas temperature that is capable of causing excessive condensate production in the vent.

VENTING SYSTEM. A continuous open passageway from the flue collar or draft hood of an appliance to the outside atmosphere for the purpose of removing flue or vent gases. A venting system is usually composed of a vent or a chimney and vent connector, if used, assembled to form the open passageway.

Mechanical draft venting system. A venting system designed to remove flue or vent gases by mechanical means, that consists of an induced draft portion under nonpositive static pressure or a forced draft portion under positive static pressure.

Forced-draft venting system. A portion of a venting system using a fan or other mechanical means to cause the removal of flue or vent gases under positive static vent pressure.

Induced draft venting system. A portion of a venting system using a fan or other mechanical means to cause the removal of flue or vent gases under nonpositive static vent pressure.

Natural draft venting system. A venting system designed to remove flue or vent gases under nonpositive static vent pressure entirely by natural draft.

CHAPTER 8
CHIMNEYS AND VENTS

SECTION 801
GENERAL

801.1 Scope. This chapter shall govern the installation, maintenance, repair, and approval of factory-built chimneys, chimney liners, vents and connectors. This chapter shall also govern the utilization of masonry chimneys. Gas-fired appliances shall be vented in accordance with the *Arizona State Plumbing Code*. All other gas-fired appliances and equipment shall be vented in accordance with Appendix C.

APPENDIX C
CHIMNEYS AND VENTS

(reproduce Chapter 5 of the 2003 International Fuel Gas Code, with the following changes:)

501.8 Equipment not required to be vented. The following appliances shall not be required to be vented.

4. Type 1 clothes dryers (Type 1 clothes dryers shall be exhausted in accordance with the requirements ~~of Section 613~~ of the *International Mechanical Code.*

~~8. Room heaters listed for unvented use.~~

8. Direct-fired make-up air heaters.

9. Other equipment listed for unvented use and not provided with flue collars.

10. Specialized equipment of limited input such as laboratory burners and gas lights.

Reason: There is currently no language in the code as adopted that addresses regulation of and sizing venting for gas appliances, other than gas water heaters.

Approved by the Development Advisory Board Technical Subcommittee on October 14, 2005.

Approved by the Development Advisory Board on November 17, 2005.