

Addenda to American National Standard

Z21.12-1990

for

DRAFT HOODS

**ANSI
Z21.12a-1993**

PART I

CONSTRUCTION

1.6 INSTALLATION INSTRUCTIONS

1.6.2 Each draft hood shall be accompanied by the manufacturer's instructions for proper installation and shall include at least the following:

- a. Manufacturer's name and address as it appears on the draft hood; model, type or series number.**
- b. Proper method of attachment of the draft hood to the appliance.**
- c. Proper method of attachment of the flue or vent pipe.**
- d. Minimum clearances from combustible materials.**
- e. A statement that the draft hood shall not be installed on an appliance with an input rating greater than _____ Btu/hr. (The input rating shall be as determined under 2.5.)**
- f. Statements to the effect that if the draft hood is to be used as a replacement on listed vented gas utilization equipment (refer to 7.12.2 in the National Fuel Gas Code, ANSI Z223.1) (1) it must be at least the same size as the draft hood being replaced; (2) it must not be altered; and (3) it must be located with the draft hood relief opening in the same position, relative to the appliance, as the relief opening of the draft hood being replaced.**
- g. Instructions requiring the installation of a blocked vent shutoff system (see Part IV, Definitions) on the draft hood. The blocked vent shutoff system shall be of the manual reset type and its components shall comply with applicable nationally recognized standards.**

h. Information relative to the purpose and function of the blocked vent shutoff system.

i. If the draft hood is provided with a blocked vent shutoff system, information relative to the purpose and function of the blocked vent shutoff system and clear and concise instructions for the recommended action to be taken in the event that the system has actuated to shut off the main burner gas. These instructions may be one of the following:

- 1. Instructions not to attempt to place the appliance in operation, but to contact a qualified service agency.**
- 2. Instructions for resetting of the blocked vent shutoff system. These instructions shall also advise the user to contact a qualified service agency if the appliance cannot be restored to normal operation.**

j. The step-by-step inspection procedure proper operation as specified in Exhibit A.

k. A statement that the draft hood must be installed in conformance with local codes, or with the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1, or the Standard for Installation of Domestic Gas Conversion Burners, ANSI Z21.8.

These instructions shall be reviewed by the testing agency for accuracy and compatibility with the results of test from a technical standpoint, and with the National Fuel Gas Code, ANSI Z223.1, or the standard for Installation of Domestic Gas Conversion Burners, Z21.8.

NOTE: Changes, other than editorial, are denoted by a vertical line in the margin.

Approved April 23, 1993 by American National Standards Institute, Inc.

**Secretariat: American Gas Association
1515 Wilson Boulevard, Arlington, Virginia 22209**

PART II

PERFORMANCE

2.4 PILOT GAS VENTING TEST

The maximum gas-air ratio anywhere within a draft hood shall not exceed 75 percent of the lower flammable limit at any time following simulated appliance pilot flame outage when the draft hood is tested as specified in the following Method of Test.

Method of Test

The draft hood shall be attached to the test appliance in accordance with the manufacturer's instructions. A draft hood for installation on appliances for use with natural, manufactured and mixed gases only shall be tested with the test appliance using test Gas A. A draft hood for installation on appliances for use with natural, manufactured, and liquefied petroleum gases mixed and LP gas-air mixtures shall be tested with the test appliance using both test Gases A and E. Two tests shall be conducted on the draft hood, one under each of the following test conditions:

Test Condition 1

The test appliance at room temperature.

Test Condition 2

The test appliance adjusted in accordance with Test Condition A of 2.5.

Under each test condition pilot gas shall be permitted to flow at the following rates:

- a. 2,000 Btu per hour (586 W) for draft hoods having nominal outlet diameters of 8 inches or less.
- b. 5,000 Btu per hour (1 465 W) for draft hoods having nominal outlet diameters greater than 8 inches.

The gas-air ratio within the draft hood shall be monitored until equilibrium conditions are attained. The monitoring locations within the draft hood shall be at the discretion of the testing agency. At no time during the test shall the gas-air ratio exceed 75 percent of the lower flammable limit anywhere within the draft hood.

PART IV

DEFINITIONS

BLOCKED VENT SHUTOFF SYSTEM. A system designed to interrupt appliance main burner gas flow if the appliance venting system is totally blocked.

FLAMMABLE LIMITS. The lowest (lower limit) and highest (upper limit) concentrations of a specific gas or vapor in mixture with air that can be ignited at ordinary temperature and pressure of the mixture. Also called COMBUSTIBLE LIMITS.

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