COMMUNITY DEVELOPMENT PERMIT CENTER

CALIFORNIA
CITY OF BELMONT

COMBUSTION AIR

2001 CMC 701.1 AND TABLE 7-1

TABLE 7-A—SIZE OF COMBUSTION-AIR OPENINGS OR DUCTS[1]

COLUMN I		COLUMN II	
Buildings of Ordinary Tightness		Buildings of Unusually Tight Construction[2]	
Condition	Size of Openings or Ducts × 0.293 for W × 645.2 for mm²	Condition	Size of Openings or Ducts × 0.293 for W × 645.2 for mm²
Appliance in unconfined[2] space:	May rely on infiltration alone.	Appliance in unconfined[2] space: Obtain combustion air from outdoors or from space freely communicating with outdoors.	Provide two openings, each having 1 sq. in. per 5,000 Btu/h input. Ducts admitting outdoor air may be connected to the cold-air return.
Appliance in confined[4] space: 1. All air from inside building.	Provide two openings into enclosure each having 1 sq. in. per 1,000 Btu/h input freely communicating with other unconfined interior spaces. Minimum100 sq. in. each opening.[3]	Appliance in confined[4] space: Obtain combustion air from outdoors or from space freely communicating with outdoors.	1. Provide two vertical ducts or plenums; 1 sq. in. per 4,000 Btu/h input each duct or plenum. 2. Provide two horizontal ducts or plenums; 1 sq. in. per 2,000 Btu/h input each duct or plenum.
2. Part of air from inside building.	Provide two openings into enclosure[3] from other freely communicating unconfined[2] interior spaces each having an area of 100 sq. in. plus one duct or plenum opening to outdoors having an area of 1 sq. in. per 5,000 Btu/h input rating. The outdoor duct or plenum opening may be connected to the cold-air return.		3. Provide two openings in an exterior wall of the enclosure; each opening 1 sq. in per 4,000 Btu/h input. 4. Provide one ceiling opening to ventilated attic and one vertical duct to attic; each opening 1 sq. in. per 4,000 Btu/h input.
3. All air from outdoors. Obtain from outdoors or from space freely communicating with outdoors.	Use any of the methods listed for confined space in unusually tight construction as indicated in Column II.		5. Provide one opening in enclosure ceiling to ventilated attic and one opening in enclosure floor to ventilated crawl space; each opening 1 sq. in. per 4,000 Btu/h input.

[1]For location of openings see Section 702.

[2]As defined in Section 223.

[3]When the total input rating of appliances in enclosure exceeds 100,000 Btu/h (29.3 kW), the area of each opening into the enclosure must be increased 1 square inch (645 mm²) for each 1,000 Btu/h (293 W) over 100,000 (29.3 kW).

[4]As defined in Section 205.