

Using Indoor Air For Combustion

When using air from other room(s) in the building, the total volume of the room(s) must be of adequate volume (Greater than 50 cubic feet per 1000 Btu/hr). Each Combustion air opening must have at least one square inch of free area for each 1000 Btu/h, but not less than 100 square inches each.

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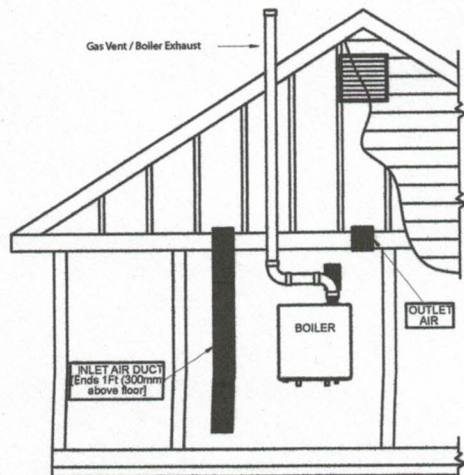
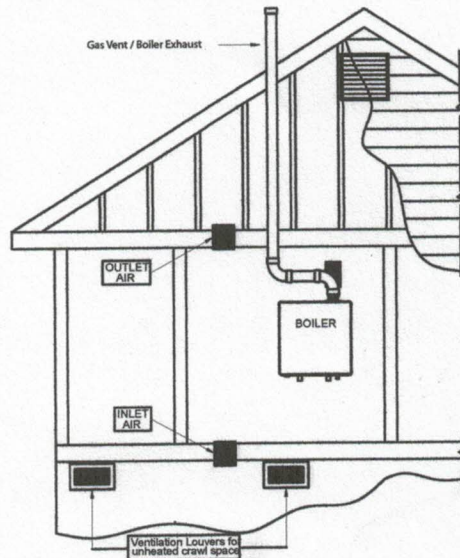
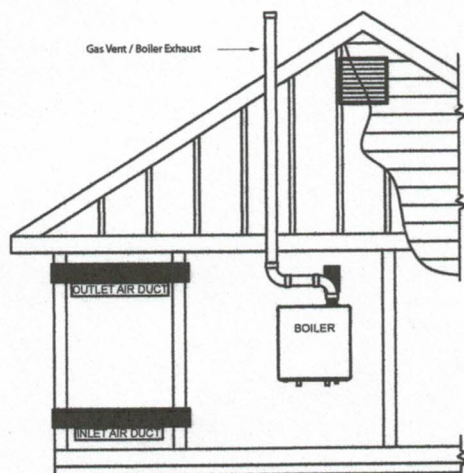
Outdoor air can be provided to a confined space through two permanent openings, one commencing within 12 in. (300mm) of the top and one commencing within 12" (300mm) of the bottom, of the confined space. The openings shall communicate to the outside by one of two ways:

- directly through horizontal ducts
- indirectly through vertical ducts

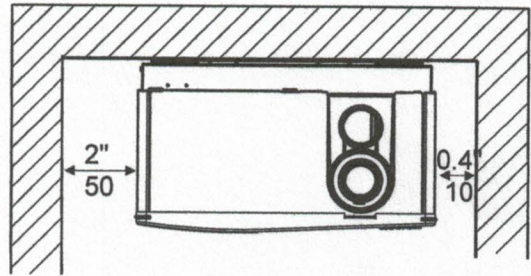
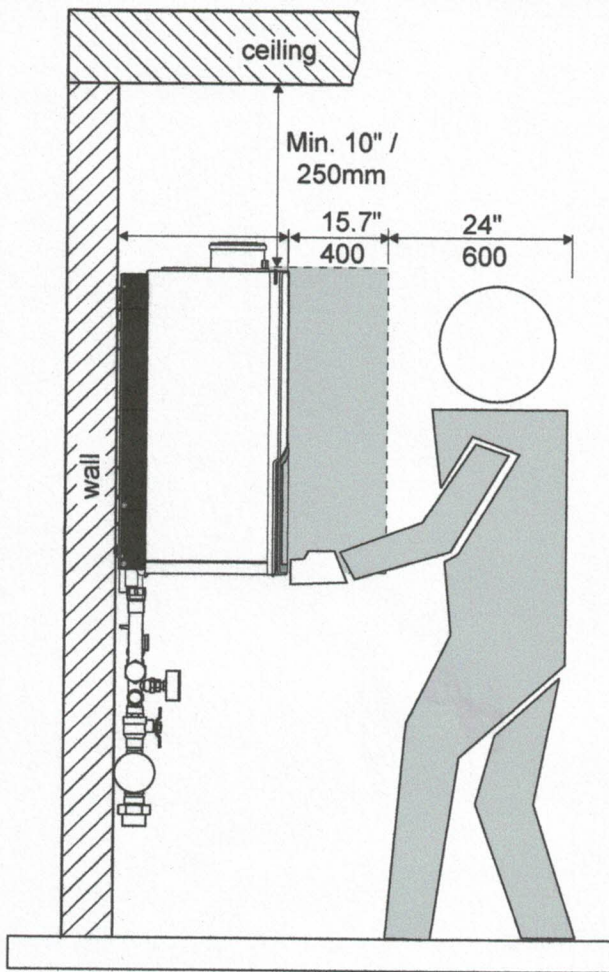
When communicating directly with the outdoors through horizontal ducts, each opening shall have a minimum free area of 1 in²/2000 Btu/hr (1100 mm²/kW) of total input rating of all appliances in the confined space.

Note: If ducts are used, the cross sectional area of the duct must be greater than or equal to the required free area of the openings to which they are connected.

When communicating indirectly with the outdoors through vertical ducts, each opening shall have a minimum free area of 1 in²/4000 Btu/hr (550 mm²/kW) of total input rating of all appliances in the confined space. Combustion air to the appliance can be provided from a well ventilated attic or crawl space.



5.3.2 Clearances from boiler



service clearances to the boiler

figure 4

	Minimum required clearances to combustibles	Minimum required clearances to non-combustibles	Recommended service clearances
	All types inch / mm	All types inch / mm	All types inch / mm
Top of boiler	2" / 50	2" / 50	10" / 250
Back of boiler	0"	0"	0
Front of boiler	6" / 150	6" / 150	24" / 600
Left side of boiler	2" / 50	2" / 50	2" / 50
Right side of boiler	2" / 50	2" / 50	2" / 50
Floor / Ground	12" / 300	12" / 300	30" / 762
Vent clearances to the boiler	0"	0"	0"

table 3

For closet installation: clearance is 1" / 25mm from the front.

Low Loss Header

Clearances to combustible and non-Combustible is 0 inch for sides, top, front and floor/ground