

CALCULATION WORKSHEET: COMBUSTION AIR, STANDARD METHOD

Step 1:

- Calculate the room volume.

Room volume: Room length: _____
 Room width: _____
 Room height: _____

Room volume: = Length × width × height
 = _____

Step 2:

- Calculate the total input of all appliances in the room.
- Enter the input rating of all appliances in Table 1. (Per 9.3.1.1, Exception 2, dryers are not included.)
- Total the column.
- Divide the total by 1000 (of Btu/hr).

Table 1 Appliances Table

Appliance	Input rating (Btu/hr)
Furnace	
Water heater	
Space heater	
Range	
Other	
Total	
Total/1000	

Step 3:

- Calculate the required volume. Divide room volume (Step 1) by total/1000 (Step 2).
- If less than 50, additional air is needed.
- If greater than or equal to 50, no additional air is needed.

Required volume:

Additional air needed? (Check one) Yes No

ALTERNATE CALCULATION METHOD

Step 1:

- Calculate the room volume.

Room volume = _____ (from Step 1 above)

Step 2:

- Calculate the maximum appliance input.

Maximum appliance input: = Room volume × 20
 = _____ × 20
 = _____

Step 3:

- Determine if additional air is needed.
- If less than max., no additional air is needed.
- If greater than or equal to max., additional air is needed.

Total appliance input: = _____

Additional air needed? (Check one) Yes No

Job: _____ **Prepared by:** _____ **Date:** _____