

Table 501.3.3(3)
Procedure to Determine Makeup Air Quantity for Exhaust Equipment in Existing Dwellings
(Refer to Item 6 in Section 501.3.3 to determine applicability of this table)
Use the Appropriate Column to Estimate House Infiltration

	One or multiple power vent or direct vent appliances or no combustion appliances ^A	One or multiple fan-assisted appliances and power vent or direct vent appliances ^B	One atmospherically vented gas or oil appliance or one solid fuel appliance ^C	Multiple atmospherically vented gas or oil appliances or solid fuel appliances ^D
1a) pressure factor (cfm/sf)	0.25	0.15	0.10	0.05
b) conditioned floor area (sf) (including unfinished basements)				
Estimated House Infiltration (cfm): [1a x 1b] or				
Alternative Calculation (by using blower door test) ^E				
c) conversion factor	0.75	0.45	0.30	0.15
d) CFM50 value (from blower door test)				
Estimate House Infiltration (cfm): [1c x 1d]				
2. Exhaust Capacity				
a) continuous exhaust-only ventilation system (cfm) (not applicable to balanced ventilation systems)				
b) clothes dryer (cfm)	135	135	135	135
c) 80% of largest exhaust rating (cfm): (not applicable if recirculating system or if powered makeup air is electrically interlocked with exhaust)				
d) 80% of next largest exhaust rating (cfm) (not applicable if recirculating system or if powered makeup air is electrically interlocked with exhaust)	not applicable			
Total Exhaust Capacity (cfm): [2a+2b+2c+2d]				
3. Makeup Air Requirement				
a) Total Exhaust Capacity (from above)				
b) Estimated House Infiltration (from above)				
Makeup Air Quantity (cfm): [3a – 3b] (if value is negative, no makeup air is needed)				
4. For Makeup Air Opening Sizing, refer to Table 501.3.2				

- ^A Use this column if there are other than fan-assisted or atmospherically vented gas or oil appliances or if there are no combustion appliances.
- ^B Use this column if there is one fan-assisted appliance per venting system. Other than atmospherically vented appliances may also be included.
- ^C Use this column if there is one atmospherically vented (other than fan-assisted) gas or oil appliance per venting system or one solid fuel appliance.
- ^D Use this column if there are multiple atmospherically vented gas or oil appliances using a common vent or if there are atmospherically vented gas or oil appliances and solid fuel appliances.
- ^E As an alternative, the Estimated House Infiltration may be calculated by performing a blower door test and multiplying the conversion factor by the CFM50 value.