

## ATTIC VENTILATION RECOMMENDATIONS FOR BEST EVAPORATIVE COOLER PERFORMANCE

Instructions: (A) Measure home's total living area. (B) Calculate  
Gross square footage of attic ventilation louvers. (C) Apply data from chart.

Approximate overall square footage of living areas of home = outside W x L (with typical 8' ceilings)	1,030 Gross Sq-Ft	1,250 Gross Sq-Ft	1,400 Gross Sq-Ft	1,500 Gross Sq-Ft	1,800 Gross Sq-Ft	2,400 Gross Sq-Ft	2,700 Gross Sq-Ft
Approximate net square foot area of home (inside living space after deducting walls, closets, etc.)	850 Net Sq-Ft	1,030 Net Sq-Ft	1,180 Net Sq-Ft	1,280 Net Sq-Ft	1,565 Net Sq-Ft	2,060 Net Sq-Ft	2,400 Net Sq-Ft
Indicated nominal gross capacity of existing or proposed evaporative cooling unit(s)	3,300 Nom. Hi-Spd CFM	4,000 Nom. Hi-Spd CFM	4,500 Nom. Hi-Spd CFM	5,500 Nom. Hi-Spd CFM	6,500 Nom. Hi-Spd CFM	7,500 Nom. Hi-Spd CFM	8,500 Nom. Hi-Spd CFM
Approximate net capacity of cooler at .3" external static pressure (or "air friction".)	2,800 Net Hi-Spd CFM	3,380 Net Hi-Spd CFM	3,900 Net Hi-Spd CFM	4,240 Net Hi-Spd CFM	5,160 Net Hi-Spd CFM	6,800 Net Hi-Spd CFM	7,860 Net Hi-Spd CFM
Approximate cubic foot per minute per square foot of net home area	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Number of minutes required for complete change of home air	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Square feet of 60% free-air attic louver face area required for adequate attic ventilation	5.7	6.8	7.8	8.5	10.3	13.6	15.7
Possible minimum existing square foot face area of 60% free-air attic venting	3.1	3.7	4.2	4.5	5.4	7.2	8.1
Possible square foot deficiency of existing attic ventilation of 60% free-air face area louvers	2.6	3.1	3.6	4	4.9	6.4	7.6

### SUGGESTED OPTIONS FOR THE IMPROVEMENT OF ATTIC VENTILATION

Increase sq. ft. face area of existing 60% free-air gable-end or other attic venting louvers	2.6 Sq-Ft	3.1 Sq-Ft	3.6 Sq-Ft	4.0 Sq-Ft	4.9 Sq-Ft	6.4 Sq-Ft	7.6 Sq-Ft
<u>OR</u> add rotary roof ventilators to compensate for inadequate existing ventilation louver area	2- 12"	3- 12"	3- 12"	3- 12"	4- 12"	5- 12"	6- 12"

**NOTE: Guidelines suggested above are estimates and may not reflect specific conditions of any individual home or the performance of any specific evaporative cooling unit. INSTALL 1 UP-DUX CEILING VENT FOR EACH 900 CFM COOLER'S NOMINALLY RATED HIGH SPEED AIR FLOW CAPACITY!**