Air purifier for smoke — CADR conversion table

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Room area (sq ft)	CADR at 2 air changes/hour (CFM)	CADR at 4 air changes/hour (CFM)	CADR at 6 air changes/hour (CFM)
100	27	53	80
200	53	107	160
300	80	160	240
400	107	213	320
500	133	267	400
600	160	320	480
700	187	373	560
800	213	427	640
900	240	480	720
1000	267	533	800

> **Formula:** CADR (CFM) = room area (ft²) × ceiling height (ft) × air changes per hour ÷ 60. Ceiling taken as 8 ft. Figures rounded to the nearest whole CFM.

Inputs and where they come from. Room area is your own floor area, measured. Ceiling height is taken as 8 ft — an assumption for a typical room, not a standard. The three air-change targets (2, 4 and 6 per hour) are assumptions for light, moderate and heavy cleaning, not an official figure. CADR is the smoke CADR the manufacturer publishes (AHAM-verified where stated). Change the ceiling or the target and the CADR changes with it.

This is our calculation, not a manufacturer figure. It matches the working shown in the CADR section of the page.

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