SAMPLE – FOR ILLUSTRATION ONLY, NOT FOR PERMIT USE

Loadpol

Whole-house ventilation

Sample Home · LP-SAMPLE-0001 · ASHRAE 62.2-2010 / IRC

Project	Sample Home (LP-SAMPLE-0001)	Location	100 Sample Lane (fictional address), Austin, TX
Building	2,160 sq ft conditioned, 2 stories (40 × 27 ft each), 3 bedrooms	Climate	IECC zone 2A · Front door faces north
Prepared by	Loadpol team in Wrightsoft Right-Suite Universal 2026	Date	November 12, 2026

Whole-house mechanical ventilation rate

$$Q_{fan} = 0.01 \times A_{floor} + 7.5 \times (N_{br} + 1)$$

Conditioned floor area A_{floor}	2,160 sq ft	0.01 × 2,160 = 21.6 cfm
Bedrooms N_{br}	3	7.5 × (3 + 1) = 30.0 cfm
Required continuous rate		**51.6 cfm → 52 cfm**

Ventilation system

Energy recovery ventilator (ERV), 50% sensible and latent recovery, 52 cfm continuous, central ventilation through the air handler.

Method

ASHRAE 62.2-2010 / IRC formula, as entered in the Wrightsoft calculation.

Ventilation loads in the Manual J

	Heating	Sensible cooling	Latent cooling
Central vent 52 cfm, ERV 50% SER / LER	1,115 Btu/h	641 Btu/h	525 Btu/h

Values from the Project Summary of the sample Wrightsoft report. Your jurisdiction decides which ventilation method applies; a real report states the method used.

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