

AeroFarms™ HVAC Unit Estimation Chart

Construction is:	No air RH modification	In arid climates	In humid climates	Recommended turns per hour
Loose	\$5.00/cfm	\$10.00/cfm	\$12.00/cfm	6
Average	\$3.50/cfm	\$8.00/cfm	\$10.00/cfm	8
Tight	\$2.00/cfm	\$5.00/cfm	\$8.00/cfm	10

Note: Because CO₂ must be maintained, there are more turns in a tight building. Indeed, it is recommended that the typical CO₂ HVAC sensor be reversed to ensure near ambient CO₂ levels inside.

Process to calculate:

Note: The estimate does not include the installation costs (freight and taxes, electrical, architectural, and structural)

To calculate:	Example:
Determine construction type	Average air tightness
Determine cubic feet to be conditioned	10,000 sq. ft.
Determine Cubic Feet per Minute (CFM) [Space times turns divided by 60 minutes/hour]	$10,000 * 8 / 60 = 1,333$ CFM
Determine base cost	$\$3.50 * 1,333 = \$4,666.67$
Determine add for arid or humid climates ¹	Humid - $\$10 * 1,333 = \$13,333.33$
Total	$\$13,333.33 + \$4,666.66 = \$18,000$

¹An arid climate will require humidification and a humid climate will require dehumidification for typical buildings and uses.

Courtesy: C&S Companies, Syracuse, NY.