



AirStream™ Unit Ventilators



500 to 2,000 CFM



The Utmost in Product Flexibility

The overall environment in classrooms is vital to the learning process. Without the discomfort and distraction of high noise levels, damp or dry air, pollutants or temperature variations, students can learn better and faster. How do you create such an environment and at the same time, minimize your investment, energy use and operating costs? By making AirStream™ unit ventilators part of your heating and cooling system.

Carrier's AirStream unit ventilators operate with sensitive controls, so that you can open the room to outside fresh air as needed and the controls will determine the correct blend with conditioned air to provide a safe, comfortable learning environment. In either vertical or horizontal configurations, AirStream units are cost-efficient and easy to install and maintain. AirStream units are designed to provide occupants with the ultimate in quiet and comfort.

FLEXIBILITY

AirStream unit ventilators come in both vertical and horizontal configurations to conform to a variety of room layouts, providing optimal comfort levels with flexible installation alternatives. Vertical units are typically mounted against an exterior wall or under a window, in either a classroom or a hall. The horizontal configuration models can be ceiling-mounted, either fully exposed or recessed.

EFFICIENCY

Carrier's AirStream unit ventilators have few moving parts, which helps to lower operating costs by enhancing reliability and making service easier. Full-diameter, permanently lubricated ball bearings align the blower shaft, reducing sound, and do not require scheduled service. A one-piece outdoor/return air damper incorporates a dual-blade seal for positive control of ventilated air and better seals against cold outside air.

QUIET OPERATION

AirStream units are built to operate unobtrusively, with quiet motors and fans. A rugged, rigid construction also ensures vibration-free operation, providing leading sound levels as low as 8 dB lower than previous designs.

DURABILITY

Carrier's AirStream unit ventilators have a modular chassis fabricated from heavy-gage, die-formed galvanized steel, which prevents deformation and inhibits corrosion. Each unit's sturdy frame resists vibration and ensures correct alignment of the fan shaft and bearings. All coils are constructed of copper tubing that is mechanically bonded to corrugated aluminum plate fins. For ease of maintenance, the modular design allows components to be removed without disassembling the unit.

THE RIGHT LEVEL OF CONTROL

AirStream unit ventilators achieve their full potential and capability to tie both temperature controls and CO₂ air-quality sensors together when they operate as part of the Carrier i-Vu Open control system, a fully-integrated BACnet® building automation system. The unit ventilator plug-and-play controller interface provides heating, cooling, ventilation and dehumidification functions for total environment control. It's the Carrier total heating, ventilation and air-conditioning (HVAC) air-quality solution.

Two efficient methods of providing air comfort, valve control or face and bypass control can be selected. Unit ventilators can be supplied with factory-mounted Carrier or third-party controls to meet any application. Controls can comply with ASHRAE® control cycle I, II or III recommendations.

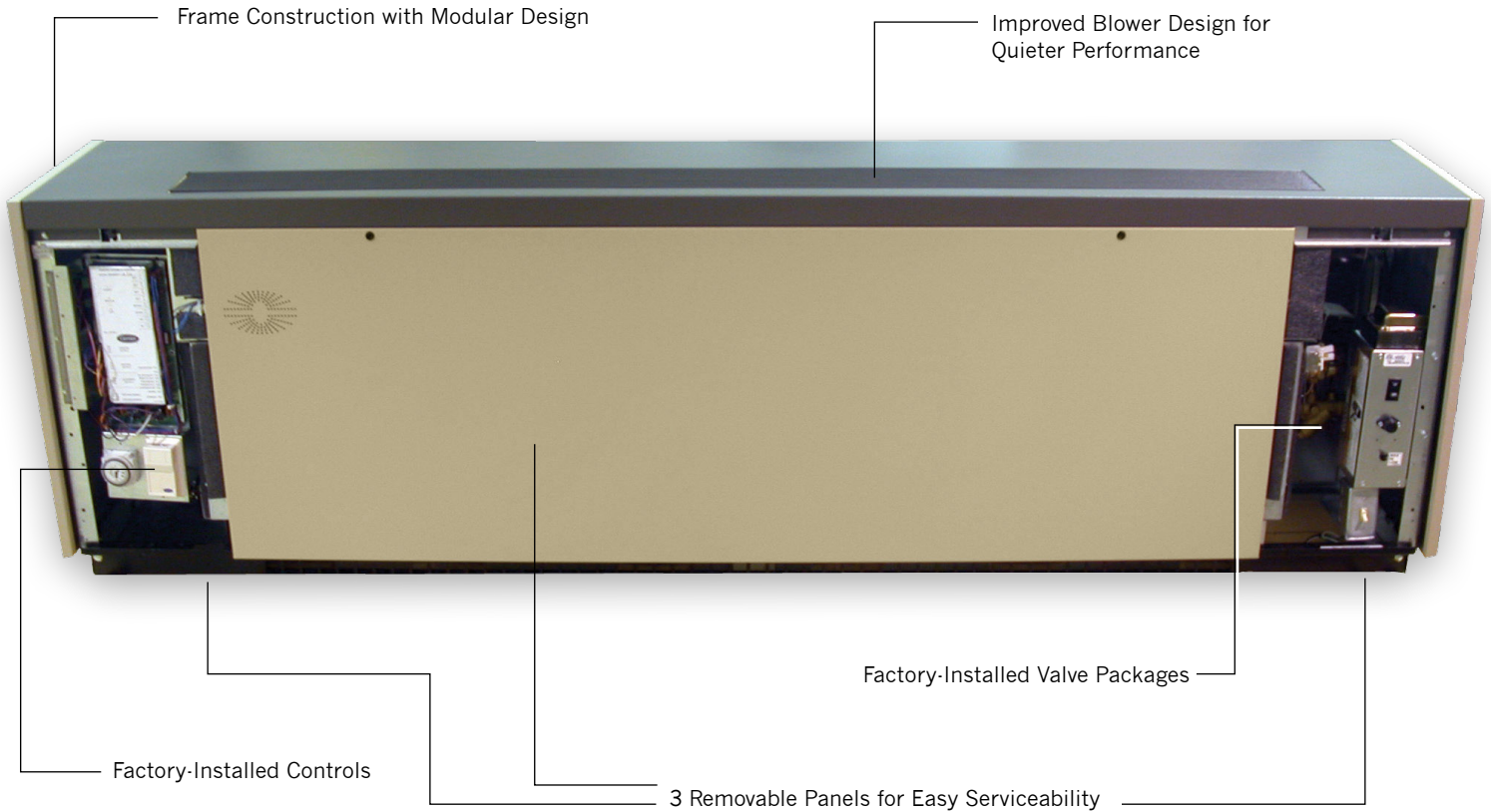
Standard with Carrier unit vent open controls, electronically commutated motors (ECMs) have a higher efficiency and are automatically controlled to adjust their speed to compensate for variable resistance in the air stream, such as dirty filters. Thus, the unit ventilator will reliably deliver its nominal airflow rate (±5%) at each defined speed.

For all your comfort needs, Carrier has the right level of control.

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BACnet is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Airstream™ 40UV



40UV Vertical

- 500 to 1500 Cubic Feet/Minute (CFM)
- 16-5/8" and 21-7/8" Depths
- Front Toe or Draft Stop Returns
- Multiple Colors Available



40UH Horizontal

- 750 to 2000 Cubic Feet/Minute (CFM)
- Bottom or Rear Returns
- Front or Bottom Supply
- Furred in or Exposed

AIRSTREAM™

Selection Guide

Configuration	Airflow (CFM)	Air Inlet	Colors	Controls
Vertical	500 – 1,500	Front Return	Polar Ice	
		Draft Stop Return	Beige	Carrier Unit Vent Open Controls
			Gray	DDC Ready
Horizontal	750 – 2,000	Bottom Return	White	3rd Party Factory-Installed
		Rear Return	Charcoal Bronze	

Control Type	Cooling Coil	Heating Coil	Motors	Valve Packages
Valve Control	Cold Water	Hot Water	PSC	2-Way Valves
Face & Bypass	DX	Steam	ECM	3-Way Valves
		Electric		

Benefits at a Glance

For Building Owners and Managers

- Reliable operation
- Delivers great occupant comfort
- Reduced operating costs
- Quiet operation
- Easy to maintain

For Consulting Engineers

- Simple to specify
- Quiet operation
- System-integrated controls
- Single-source system design
- ETL and AHRI certified products

For Contractors

- Extensive factory-installed options
- Reduced installation expenses
- Ideal for replacement
- Easy to service

A LEGACY OF TRAINING



Willis H. Carrier began training members of the heating, ventilation, air conditioning and refrigeration industry in 1905. Carrier continues to promote technical expertise in the industry with the expansion of its sustainable solutions curriculum and has recently been named a U.S. Green Building Council Education Provider (USGBC EP).

To earn this status, Carrier's course materials were reviewed by a panel of USGBC peers and deemed to provide the high level of quality required for training Leadership in Energy and Environmental Design (LEED®) professionals. The courses and workshops supporting LEED-Accredited Professional and Green Associates credential maintenance are administered through Carrier University.

