



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 Carrier 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. Our units are designed to provide occupants with the ultimate in quiet and comfort.

AIRSTREAM™ Unit Ventilators

The Utmost in Product Flexibility

Flexibility

Our 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

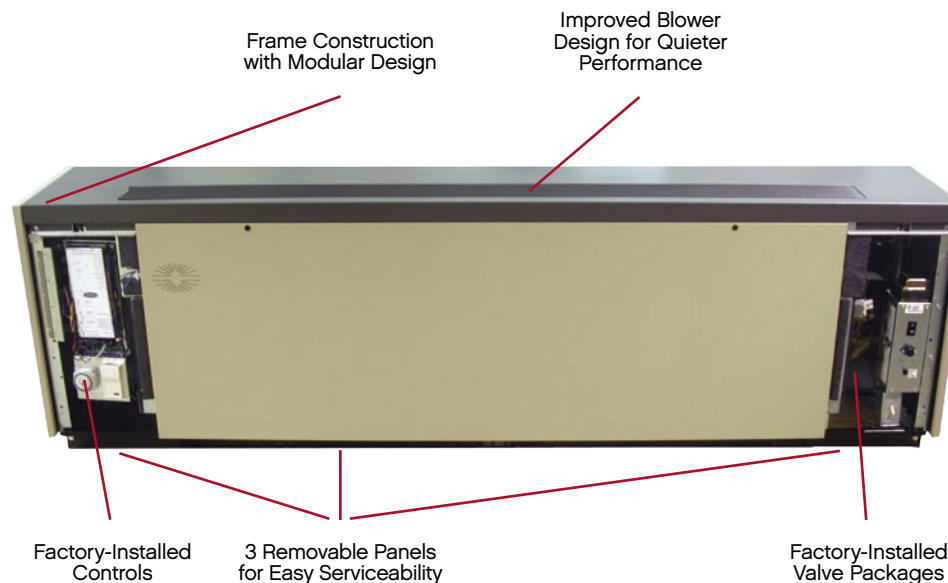
Our AirStream units are built to operate unobtrusively, with quiet motors and fans. A rugged, rigid construction also ensures vibration-free operation, providing leading sound levels as low as 8 dB's lower than previous designs.



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.

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
- Fused in or Exposed

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 Comfort Network® (CCN). The unit ventilator 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 CCN controls, electronically communicated 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.

Selection Guide

Configuration	Airflow (CFM)	Air Inlet	Colors	Controls
Vertical	500–1500	Front Return	Polar Ice	Carrier Controls
		Draft Stop Return	Beige	
Horizontal	750–2000	Bottom Return	Gray	DDC Ready
			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 & Managers

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

For Consulting Engineers

- Simple to select
- Quiet operation
- System-integrated controls
- Single-source system design
- UL and ARI certified products

For Contractors

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

Turn to the Experts

Whatever your HVAC needs, from specifying and purchasing to installation and maintenance, Carrier has the solution. As the world leader in heating, ventilation and air conditioning, Carrier is committed to continually improving the quality of comfort for our customers.

From concept to finished product, your local Carrier sales representatives walk with you every step of the way.

Whether you have one building, multiple sites nationwide or special equipment and facility requirements, Carrier sales representatives will recommend a solution that fits your scope and budget.



Turn to the Experts.™

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