

AERO™
Air-Handling Units



Turn to the Experts.™





With Aero™ air-handling units, Carrier takes an entirely new approach when it comes to air handling. Our Aero units provide advanced technology and custom features in a streamlined package. The Aero 39M Series revolutionary casing delivers indoor air quality (IAQ) benefits while remaining easy to install. And that's just the beginning. Our Aero air-handling units are well-suited for a long list of applications, from commercial to industrial to institutional facilities, with the same quality features and construction for both indoor and outdoor units. The proven ease of assembly and disassembly makes the 39M ideal for retrofit situations. Aero units will perform in the most demanding precision environments, including clean rooms and high-tech processing areas. With Aero air-handling units, Carrier delivers excellent performance and reliability, combined with an unprecedented flexibility of features, so you can create precisely what you need in an air handler.



AERO™ Air-Handling Units

Outstanding Life Cycle Performance

Indoor Air Quality

Aero air-handling units (AHUs) include highly efficient filtration options. HEPA filters are available on the Aero 39M Series. These units also have cleanable panels that can be easily wiped or washed down, as well as fully drainable sloped drain pans. For added cleanliness, the inner-panel liners of the Aero 39M units are available with Agion® antimicrobial-coated steel. This technology uses the controlled release of silver ions to provide continuous suppression of microbial growth on the interior surface of the AHU. The Aero 39M panels rest against ultratight seals. Carrier's patented "no through-metal thermal break" feature means no metal-to-metal conduction path, which reduces the likelihood of condensate forming on the outside of the unit.

Quiet Operation

The Aero 39M unit's patented-sealed double-wall insulation system not only provides superior thermal performance, it yields the added benefit of outstanding acoustics. For sound-sensitive applications, plenum fans are available. Aero AHU's extra-quiet operation can enhance the comfort of your building's occupants and the overall quality of their indoor environment.



Aero 39M Indoor Air Handler



Agion Antimicrobial Coating

Rigid Casing Construction

Thermal Break Design

Fully Painted Exterior



Flexible Features

Aero AHUs offer fan options for virtually any air-handling requirement. We help configure your choice for the pressures and efficiencies that will yield the best performance for your particular application. Our AHU Builder software can also plot a variable air volume (VAV) system curve based on the minimum airflow and static pressure set point. Fan types include forward curve, airfoil and plenum fans, for quiet operation and installation flexibility. Most fan types are available in multiple-wheel sizes.

Reliability

The Aero 39M AHU's construction system combines complex technology with clean, elegant design. A unique structural frame carries the unit's weight, enabling easy and safe removal of panels for servicing. The laminated steel-panel construction handles high-pressure applications easily, while delivering superb deflection performance. Optional prepainted, both inside and out, galvanized panels are available, to protect the unit and prevent the formation of unsightly "white rust."

The Right Level of Control

Factory-installed controls are available as an option on all Aero air-handling units. There are many available options, from factory-mounted sensors and actuators to the most flexible system on the market today — the Carrier 6400 Comfort Controller (CC6400). All controls are compatible with the i-Vu/Carrier Comfort Network® (CCN).

The CC6400 can respond to input from a variety of sensors to maintain ventilation requirements. It defends your system and building with a variety of safety functions. These functions protect against freezing coils, excessive humidity and other problems. The controller can take indoor and outdoor temperatures, humidity levels and scheduling information into account to determine and initiate the best, most economical occupied and unoccupied free-cooling solutions. The CC6400 also has built-in diagnostics that make maintenance easy and reduce service time.

Field time is also reduced by pre-wired quick connects that allow for easy assembly and disassembly of air handlers with controls.

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



39S
400 to 8,500 cfm



39M Aero™ (Outdoor)
1,500 to 60,500 cfm



39L
1,800 to 15,000 cfm

Selection Guide

Single Wall or Double Wall

Model 39L	03	06	08	10	12	15	18	21	25
Nominal Airflow (cfm)	1,500	3,000	4,000	5,000	6,000	7,500	9,000	10,500	12,500
Height (in.)	24	28	32	32	32	40	44	44	52
Width (in.)	38	46	50	58	65	65	65	77	77

Double Wall

Model 39M	03	06	08	10	12	14	17	21	25
Nominal Airflow (cfm)	1,500	3,000	4,000	5,000	6,000	7,000	8,500	10,500	12,500
Height (in.)*	39	39	42	42	49	49	52	62	62
Width (in.)*	33	46	54	67	67	72	79	79	86

Double Wall (cont.)

Model 39M	30	36	40	50	61	72	85	96	110
Nominal Airflow (cfm)	15,000	18,000	20,000	25,000	30,500	36,000	42,500	47,500	55,000
Height (in.)*	62	73	79	89	104	113	113	126	126
Width (in.)*	104	109	109	117	111	120	139	139	157

Single Wall or Double Wall

Model 39S	00	01	02	03	04	05	07	09	13	17
Nominal Airflow (cfm)	400	600	800	1,200	1,600	2,000	3,000	4,000	6,000	8,000
Height (in.)**	15	15	19	19	23	23	34	43	43	48
Width (in.)**	28	28	36	36	45	45	57	67	67	72

*indoor unit **SH model unit

Benefits at a Glance For Building Owners and Managers

- Easy to maintain
- Reliable performance
- Outstanding life cycle cost
- Advanced IAQ solutions

For Consulting Engineers

- ARI certified
- ASHRAE 62 compliant
- Simple to specify
- Agion antimicrobial coating
- System-integrated controls

For Contractors

- Easy to break down
- Reduced installation time
- Easy to service
- Ideal for replacement

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.



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