



# H3/V3 Series



## HORIZONTAL AND VERTICAL INDOOR AIR HANDLERS



### Features:

- 1,200 -10,000 CFM with overlapping cabinet sizes provides application flexibility
- Horizontal or vertical models with left or right hand connections
- R-410A or chilled water cooling coils
- Heat pump, electric, hot water, or steam heating
- Backward curved plenum supply fans
- Double wall high performance composite panel construction
- Service access doors with stainless steel hinges and zinc cast handles
- Labeled components for quick and easy installation
- Labeled controls components with color-coded wiring that matches wiring diagrams included in the controls compartment
- Matching condensing units available for a complete split system solution

Application Flexibility  
Minimizes Installation Time and Reduces Cost

○ *Make-up Air Applications  
Up to 100% Outside Air*

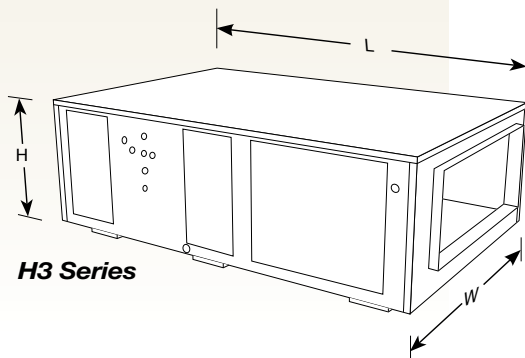
○ *Dehumidification  
and Filtration Capabilities*

○ *Easy Installation  
and Maintenance*

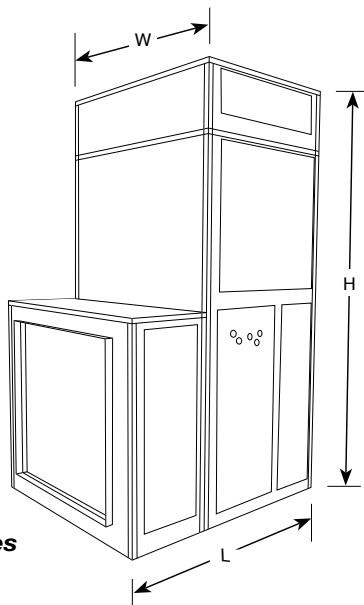
○ *Air or Water-Source Heat Pump  
Split Systems*

# H3/V3 Series Indoor Air Handlers

*H3/V3 Series air handlers have been designed and engineered for a wide variety of heating, cooling, dehumidifying, filtering, and ventilating applications. Double wall foam insulated cabinet construction and backward curved plenum fans provide quiet, energy efficient operation. Horizontal and vertical models in the range of 1,200-10,000 CFM provide application flexibility.*



**H3 Series**



**V3 Series**

## Superior Features

- Cabinet construction consists of Rigid Polyurethane Foam panels constructed of G90 galvanized steel on both sides with a closed cell polyurethane foam interior core. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean.
- One inch high performance foam insulated panels have an R-value of 6.25 or greater, which exceeds the R-value of a cabinet with two inch thick fiberglass construction. Double wall, polyurethane foam insulated panels make the cabinet more rigid and resistant to damage and provide increased sound dampening.
- Access doors with stainless steel hinges and zinc cast handles allow the unit to be easily serviced.
- Belt driven backward curved plenum fan assembly provides energy efficient airflow.
- Single point power connection and 24V control circuit transformer allow for quick start up.
- Sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream. Drain connections available on either side of the unit ease installation.
- Factory installed Thermal Expansion Valves (TXV) optimize efficiency.

## Premier Options

- Energy efficient ECM direct drive backward curved plenum fan varies speed to maintain a constant airflow under differing static pressures.
- Chilled water or R-410A DX unit cooling coil options.
- Heat pump, electric, hot water, or steam heat options provide heating design flexibility.
- 2" or 4" MERV 7 and 4" MERV 11, 13, and 14 pleated filter options.
- Humidity control options including high capacity cooling coils and the split system modulating humidity control option.
- External hot gas bypass for coil freeze protection, especially in make up air applications.
- Factory installed mixing boxes for application flexibility.
- Polymer e-coated coils, copper finned coils, and stainless steel coil casings are available to extend the life of the coils and protect them in corrosive environments.
- SCR (Silicon Controlled Rectifier) electric heat control for reduced power consumption, longer heater life, and improved occupant comfort.
- Unit control options including factory installed controls by others.

# Efficiency and Application Flexibility

## Facts about AAON H3/V3 Air Handlers

**Energy Efficient** . . . . When matched with AAON condensing units, AAON DX split systems provide consistent comfort with low energy consumption. Factory installed chilled water, hot water, and steam coil options allow H3/V3 air handlers to be included in a wide variety of energy efficient systems.

**Lower in First Cost** . . . . Many factory installed options and standard factory wiring and piping allow AAON air handlers to be ready for quick and easy field installation, saving time and money on the job site. All H3/V3 Series air handlers and components are factory assembled for quick job site start up.

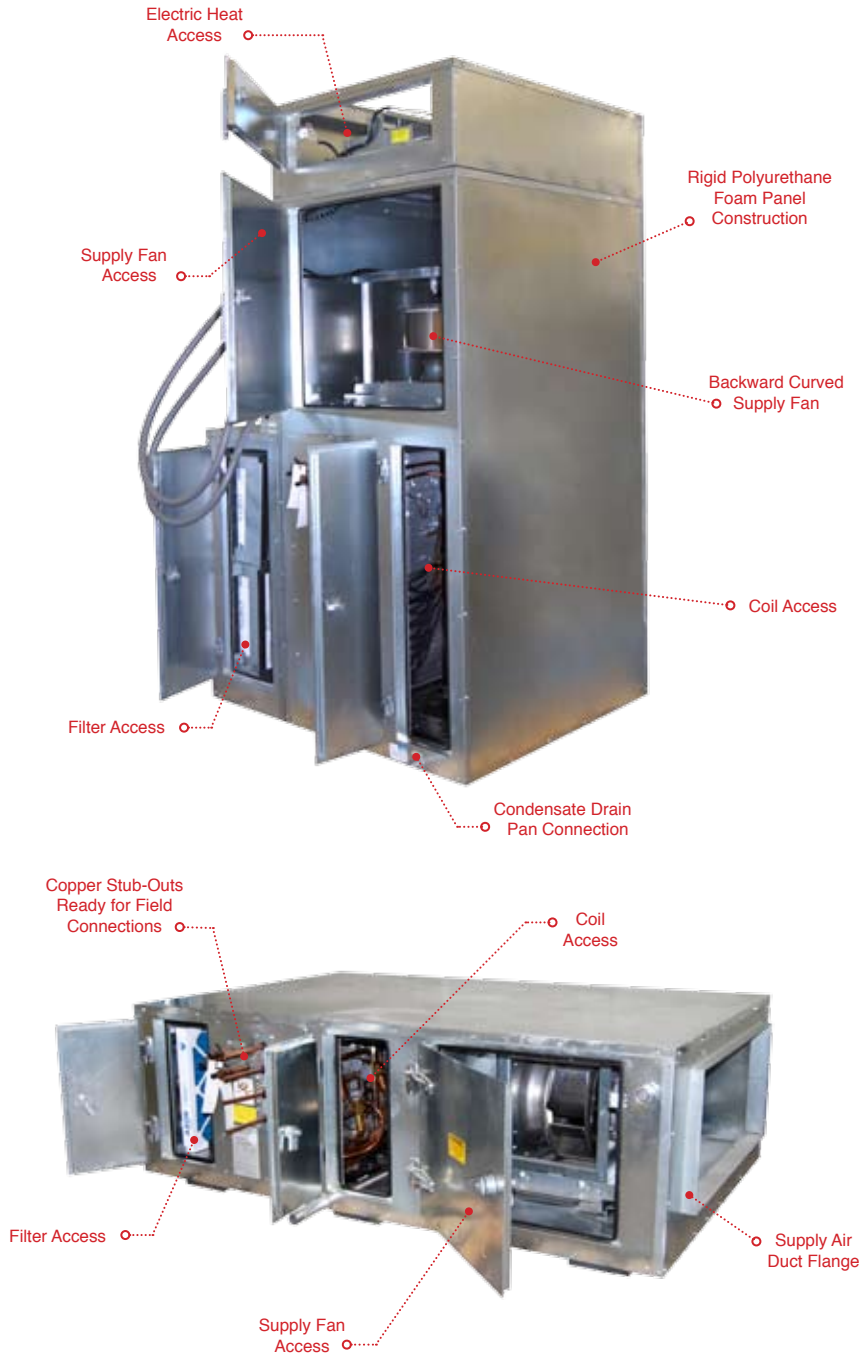
**Lower in Maintenance Cost** . . . . Service access doors with stainless steel hinges, zinc cast handles, and labeled components with color-coded wires and wiring diagram make servicing the unit less time consuming.

**Reliability** . . . . Construction features, such as a double wall construction, and serviceability features, such as filter access doors with handles, make H3/V3 air handlers long lasting. Factory engineered, designed, and installed options are more reliable than field installed add-on options.

**Wide CFM Range** . . . . H3/V3 Series air handlers are available from 1,200 to 10,000 CFM with overlapping cabinet sizes that allow the air handler to match the exact job requirements.

AAON manufactures a variety of indoor air handlers available from 800-51,500 CFM with a wide range of configurations to meet job requirements. Additionally, AAON outdoor air handlers are available from 800 to 100,000+ CFM with a wide array of features and options.

**Flexibility** . . . . AAON air handlers can be used in many different applications such as educational facilities, health care buildings, office space and much more. With superior features and premier options, AAON provides air handling solutions.



H3-V3 Model	Nominal CFM	Width	Height*	Length*
H3-B	1,200-2,000	42	22	66
H3-C	2,000-4,000	60	27	72
H3-D	4,000-6,000	84	27	72
H3-E	6,000-10,000	100	36	72
V3-B	1,200-2,000	30	53	51
V3-C	2,000-4,000	42	73	51
V3-D	4,000-6,000	56	73	53
V3-E	6,000-10,000	56	93	53

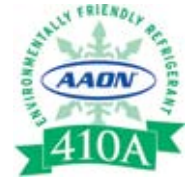
All dimensions are in inches

\*Height and Length may vary depending on options selected

**H3/V3** Series  
Indoor Air Handlers

# AAON Environmentally Friendly HVAC Product Family

**Customer Commitment** – AAON encourages environmentally responsible design by incorporating many energy saving features into our superior heating and cooling products. In addition to energy efficiency, AAON also offers environmentally friendly R-410A refrigerant capability in all our cooling and heat pump equipment. As countries throughout the world phase out CFC and HCFC refrigerants, R-410A is becoming the global standard and AAON is leading the way!



## Rooftop Units



## Condensing Units



## Air-Cooled or Evaporative-Cooled Chiller



## Self Contained



## Outdoor Air Handling Units



## Indoor Air Handling Units



## Boiler



## Custom Indoor or Outdoor Air Handling Units



Defining Quality. Building Comfort.

It is the intent of AAON to provide accurate and current product information. However, in the interest of product improvement, AAON reserves the right to change pricing, specifications, and/or design of its product without notice, obligation, or liability.

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