



The Name to Remember.

# NJ SERIES

## CUSTOMIZED AIR HANDLING UNIT



### FEATURES

- ✓ Rigid Structural Design
- ✓ Superior Thermal Performance
- ✓ Low Sound Levels
- ✓ Easy Serviceability
- ✓ Efficient Energy Recovery
- ✓ Dehumidification Systems

**1,500 – 120,000<sup>+</sup> CFM**

*REPLACEMENT UNITS— DESIGNED FOR EXISTING ENVIRONMENTS TO ACCOMMODATE FLOOR SPACE, CURB REQUIREMENTS, AND DUCT WORK.*

*Elimination of panel removal with double wall-hinged access doors, making the fan, motor, drives, filters, dampers, coils and controls fully accessible.*

*Individually selected fans match external static, sound, efficiency, and space design criteria according to your needs and specifications.*

*Complete customization and extreme flexibility describes the NJ. From your heating choice to your coil preference—even your structural steel base frame is custom manufactured according to your requirements.*



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Custom Engineered...

Unlimited Variety...

## Customization

*Optimally configured for individual applications—differentiated by higher quality construction and virtually unlimited choices in unit components, material, configuration, cabinet size and aspect ratios—*

**AAON'S NJ air handler unit has it all.**



*As customer demand for greater flexibility and customization grows, AAON continues to develop innovative solutions to bring to each market. Just to name a few, we have designed custom air handler units for:*

- ✦ **Educational and commercial buildings**
- ✦ **Hospitals**
- ✦ **Clean rooms**
- ✦ **Grocery stores**
- ✦ **Pharmaceutical firms**

*With superior performance flexibility, the NJ can be applied in a number of different applications, meeting specific needs, such as:*

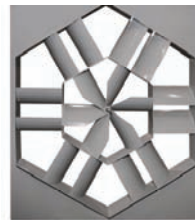
- ✦ **Variable air volume**
- ✦ **Unique footprint or selectable air tunnel dimensions**
- ✦ **Special humidification/dehumidification**
- ✦ **Ultra-quiet**
- ✦ **Energy recovery**
- ✦ **Make-up air**
- ✦ **Water source heat pump**
- ✦ **Factory-mounted components, such as pumps, humidifiers, UV lights, etc.**



Increased Efficiency... *Quite the Investment.*

## Construction

AAON cabinets are both water and air tight implementing electrically-welded base frames—constructed of integral iron channel or heavy duty formed steel. Heavy gauge galvanized panels protect the cabinet from inclement weather and caustic environments.



Options include:

- ✦ **Metal thickness variations and alloys, accommodating weight and corrosion requirements**
- ✦ **Hinged access doors with compression latches, ensuring unit integrity and low air leakage**
- ✦ **Optional windows, allowing for convenient observation of internal components**

Unit components are supported off the base instead of the sidewalls, and engineers can specify the type of liners and insulation required to meet acoustic, thermal or corrosion requirements.

Special construction requirements include:

- ✦ **Penthouse designs**
- ✦ **Service corridors**
- ✦ **Service platforms**

## Fans

Fans are individually selected to match external static, sound efficiency and space design criteria.

**Need housed airfoil? Housed backward inclined or housed forward curved? Airfoil plenums or vane axial?** AAON can provide it. Fans are available with open drip proof (ODP) or totally enclosed, fan-cooled (TEFC) motors. Variable frequency drive are also available when adjustable air flow applications are specified.

## Coils

- ✦ **ARI-certified 1/2 inch and 5/8 inch coils**
- ✦ **Low pressure drop and high performance**
- ✦ **Aluminum or copper fins from .006 to .012 inch thicknesses in galvanized or stainless casings**
- ✦ **Tube walls from .024 to .049 inches thick**
- ✦ **Intertwined, face-split or condensing unit matched circuiting**
- ✦ **Special coil coatings for highly corrosive**



## Filtration

Filtration Mount Locations

- ✦ **Standard (Upstream of Coil)**
- ✦ **Pre- (Upstream of Fan)**
- ✦ **Final (Outlet of Unit)**

Available Pre-Filters

- ✦ **Two-inch**
- ✦ **Four-inch**
- ✦ **Roll Media**

Specialty filtration systems

- ✦ **Carbon for odor absorption**
- ✦ **HEPA for higher filtration requirements**
- ✦ **Rigid, bag, cartridge or electronic filters**

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## CUSTOMIZED AIR HANDLING UNIT

# Self-Contained Controls

CONTROL FLEXIBILITY IS ANOTHER FEATURE THAT MAKES AAON'S NJ SERIES SUPERIOR IN THE MARKET.

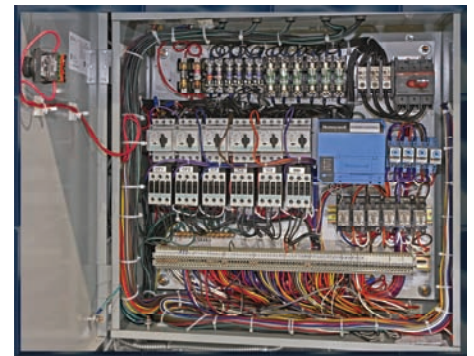
Factory-installed 'controls by others' is a feature provided by AAON that allows you to specify the type and manufacturer of the controller that is preferred to be used in your AAON equipment.

For jobs that involve field-installed controls, AAON offers 'no-factory' wiring, so that all wiring can be done to the controls contractor's specifications.

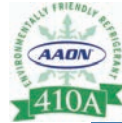
AAON control options allow integration into open protocol environments or building automation systems.

AAON offers:

- ❖ 'No-factory wiring' for field-installed applications
- ❖ Unit factory-wiring with all points connected to a terminal strip for lower labor costs
- ❖ Pre-engineered, factory-mounted commissioned controls for higher quality and consistency
- ❖ Variety of controls options from stand-alone, interconnected or networked



## Other AAON Product Lines:



**ALL AAON PRODUCT LINES  
AVAILABLE WITH R-410A**

2-230 Ton Rooftop Units



800-68,000 CFM Outdoor Air Handlers



2-5 Ton Residential Air Conditioners & Heat Pumps

2-230 Ton Condensing Units



800-52,000 CFM Indoor Air Handlers



35-365 Ton Chillers  
500-6,000 MBH Boiler Combinations



1,000-120,000+ CFM Custom Equipment



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It is the intent of AAON to provide accurate up-to-date specification data. However, in the interest of ongoing product improvement, AAON, Inc. reserves the right to change specifications and/or design of any product without notice, obligation, or liability.

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AAON products are covered by one or more of the following U.S. Patents: 7,010,920; 6,929,452; 6,802,543; 6,792,767; 6,715,312; 6,437,469; 6,431,979; 5,839,505; 5,826,641; 5,738,167