

# AIR HANDLING UNITS

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*Beyond Compare*



 **NORTEK**<sup>™</sup>  
AIR SOLUTIONS

# VENTROL QUALITY *Stands Apart*

Not all air handling units (AHUs) are the same. A Ventrol AHU gives you a superior cabinet that exceeds all expectations.

Take a look at how Ventrol has taken quality and design to the next level when compared to a leading competitor.



## CASING

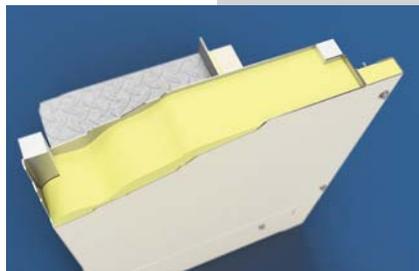
Ventrol AHU

VS

Brand "X" AHU

### ..... INJECTED-FOAM INSULATION .....

2" or 4" FG or injected foam standard. Injected foam fills all the voids and gaps on the interior, resulting in no surface condensation.



2" or 4" FG only, no injected foam. Foam boards only available on demand. Foam boards create additional issues. The insulation is not full and the boards contain voids between the outer and inner liners with no insulation – creating surface condensation.

### ..... THERMAL BREAK DESIGN .....

Thermal break (true no-through-metal) provided between exterior and interior liners, roof, walls and floor. Thermo-block is standard.



Inferior thermal break design with liners moved to exterior of panels.

# CASING CONTINUED

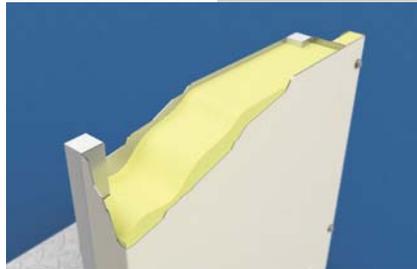
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## SOLID CASING LINERS

Exterior liner is a solid and formed panel. Maximum 24" wide panels for strength and rigidity. Interior liner includes a 5-degree bend for additional strength and eliminating waviness of liner. Exterior panels are pre-painted.



Liners inside panels create issues with dirt and debris sitting at panel edge. Panel not easy or ideal for KD units. Exterior panels are satin coated, bent inwards and exposed at end panels. Pre-painted exterior panels are far more superior than a satin coat.

## CONTINUOUS WELDED FLOOR

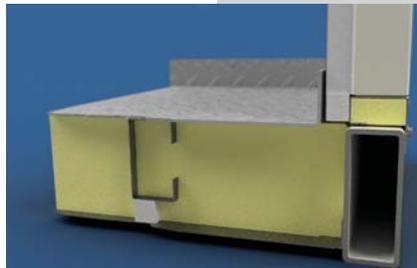
2" turned-up lip continuously welded at the corners and floor seams (no caulking). Potential for water leak is eliminated. Potential for a thermal bridge is minimized.



Z-bar is tack welded and caulked – NOT continuously welded. Water leak potential. Z-bar is a thermal bridge.

## FORMED C-CHANNELS

Formed C-channels in the floor provided every 12 to 16 inches and under each component (FANWALL, fans, coils, etc.).



Structural C-channel only, no HSS Tube. C-channel creates potential of dirt and debris to sit in the field, not smooth finishing. Hollow HSS tube is a better insulator than "C" channel; thermal short circuit with "C" channel can occur.

## SPRAY-FOAM FLOOR

Spray-foam floor insulation standard (3.5", 4", 5", etc. foam thickness also available for different floor thicknesses)



Optional spray foam. Standard fiberglass insulation provided in floor. Insulation is not provided in formed tubes in the floor.

# DOOR

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## SEALED FRAME

**Extruded aluminum door frame** (true no-through metal construction), eliminating the potential for condensation.



**Sheet metal door frame**, not thermal broken.

## ALIGNING HINGES

**Stainless steel three-way adjustable door hinges** standard to allow for adjustment of the door panel for a perfect fit. No risk of dirt or debris accumulation.



Hinges are not adjustable.

## THERMAL BREAK HANDLES

**Allegis door handles (no thermal bridge) standard** to prevent condensation on outer surfaces. Durable, pad-lockable and key-lockable handles available.



Handles are a **thermal bridge issue**. Hands can get scraped with door handle. External handle mounted on unit casing.

## WINDOW

**Dual thermal pane tempered glass window** with air barrier to eliminate the possibility of condensation occurring. UV resistant.



**Double-glazed tempered glass window**, not dual pane.

# COOLING COIL RACK

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## INTERMEDIATE DRAIN PANS

Insulated intermediate drain pans can be provided as needed. Double-walled intermediate drain pans are also available.



Auxiliary drain pan has potential for water overflow.

## NON-CASCADING DRAIN

Non-cascading copper drain (downspout) connections when three-coil-high section is required.



Cascading auxiliary drain connections can cause the lower auxiliary drain pan to overflow.

# 3RD-LAYER ROOF

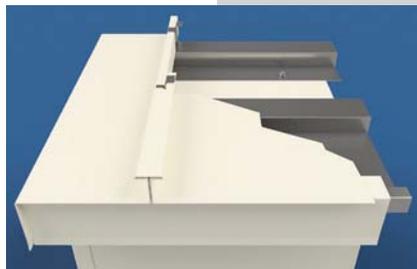
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## ROOF CONSTRUCTION

Third-layer roof system provided on outdoor units and can be easily added to any indoor unit without removing or modifying the existing roof panels. Third layer isolates the unit roof panel from exterior elements and provides an air barrier between the roof panel and third-layer roof system-eliminating the possibility of condensation.



Outdoor unit roofs are constructed with the same material as the unit exterior liner and panels are broken outwards. No air barrier is provided isolating the unit roof panels and roofing system. Possible point of condensation and water penetration.

# FLOOR DRAIN PAN

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## AUXILIARY DRAINS

**Auxiliary drain connection.**  
Allows floor to be drainable  
(2" drain connection available).



**Auxiliary drain connection.** 1-1/4" auxiliary drain connection provided.

## DOUBLE SLOPED

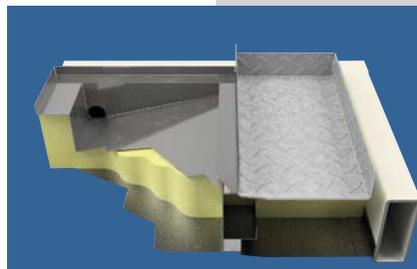
**Primary drain pan standard.**  
Stainless steel drain pans 3" deep with SST drain connection 1-1/4" diameter standard (2" drain connection available). Drain pan is double sloped toward the drain connection for complete drainage.



**Drain pan is sloped.**  
Stainless steel, double-sloped drain pan aimed towards 1-1/4" drain connection.

## INJECTED-FOAM INSULATION

**Injected-foam insulation** provided beneath drain pan filling all voids and eliminating any under pan condensation.



**Fiberglass insulation** provided beneath drain pan. Possible point of condensation.

# CUSTOM SOLUTIONS *For Your Needs*

Offering a broad range of options with units ranging from 1,000 – 300,000+ cfm, Ventrol customizes a solution to meet your indoor or outdoor application needs for new construction, renovation and repair projects. Our design and manufacturing expertise, coupled with flexible packaging options: fully assembled, shipped in sections, or transported in pieces, helps to reduce installation time and costs for our customers while minimizing building disruptions.



## **SINGLE-SOURCE RESPONSIBILITY**

Ventrol designs and manufactures its own key components – coils, fans, dampers, humidifiers – which improves its flexibility and response time to customers. The comfort of not having to worry about added design/production time as well as the installation hassle of assembling components on the jobsite is why more and more customers choose Ventrol.

## **CUSTOM CONFIGURATIONS**

- Steel, aluminum or stainless steel construction
- FANWALL TECHNOLOGY®
- Factory tested, ARI Certified™ performance on cooling and heating coils
- Sectional construction for ease of transport and installation
- Knock-down construction done either at the factory or jobsite

## FOR MORE INFORMATION

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*locate your local representative by visiting [www.nortekair.com](http://www.nortekair.com)*



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