



Vision™ Customized
Indoor Air Handlers

Engineered for flexibility and performance™

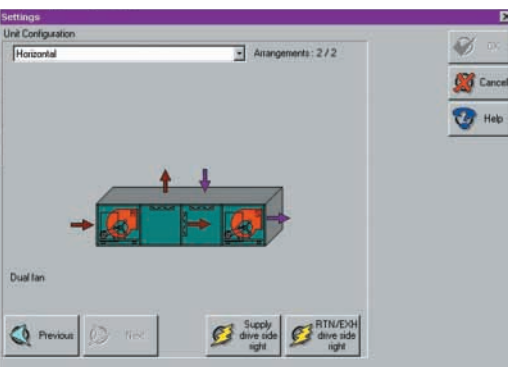


McQuay Vision™ Customized Indoor Air Handler

The Flexibility to Design Your Optimal Air Handling System



Whether you are a consulting engineer, contractor or building owner, a McQuay Vision indoor air handler can be the most effective way to achieve your project's air handling objectives. It's a patented product platform that gives you the flexibility to build the exact air handling system to meet your project's demands for operating efficiency, indoor air quality, quiet operation and low cost installation and maintenance.

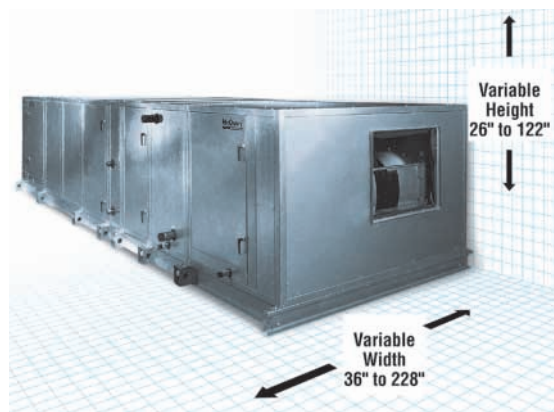


The Vision air handler's unique, custom-modular platform and Variable Dimensioning™ feature provide tremendous component and sizing flexibility, allowing you to configure the optimal air handling system for your client's environment. You can choose from a wide variety of unit sizes, fan assemblies and motors, plus many options to custom-build the best possible Vision air handler for your application. Our user-friendly, Windows®-based McQuay SelectTools selection software makes it easy to design your customized unit, and it generates drawings and specifications in minutes.

Industry-leading McQuay SelectTools™ selection software makes it easy to design your customized unit.



New, Extended-Size Vision indoor air handlers are now available in capacities up to 100,000 cfm with coil face areas up to 160 square feet.



Vision's Variable Dimensioning™ feature allows cabinet sizing on 2" increments to meet your space requirements (4" width increments over 142").



Vision cabinets are available in both galvanized and pre-painted steel finishes.



Quality Construction

For Quiet Operation, Superior IAQ, and Low Installation & Operating Costs

Quality construction makes Vision units capable of leakage rates of 0.5 cm/ft² (typically less than 1%). This is equal to or less than that of costly custom units, and is far superior to leakage rates of up to 10% for standard commercial units. The results for your client can be quieter units than standard commercial air handlers, with lower operating costs and optimal indoor air quality.

- A patented, insulated, internal splice collar, factory-installed gasketing, and double-wall, injected foam insulated panels help to preserve the airtight environment. They also eliminate fibers and stop dirt and moisture from penetrating the casing.
- A double-sloped drain pan (microbial-resistant coated galvanized or optional stainless steel) promotes superior IAQ by eliminating standing water. Easy access promotes cleaning and maintenance inspections.
- Vision's modular design can help reduce installation costs and the floor space required in mechanical rooms. Units can be shipped in one or multiple sections for maximum convenience in rigging and installation. Modules can be easily moved in and out of tight spaces such as doorways and elevators—an added advantage for retrofit projects.
- Extended coil connections, vents and drains simplify field connections, saving time, hardware and money.

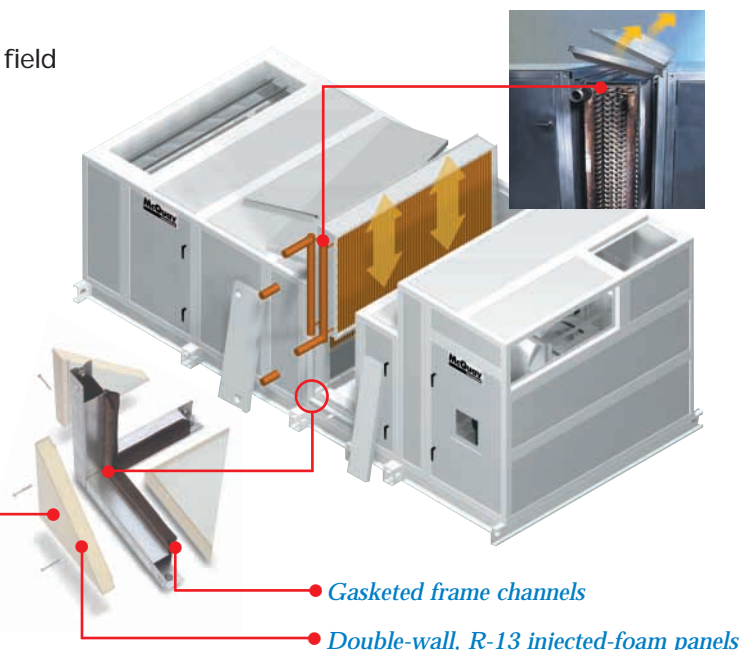


Our patented splice collar and extended coil connections simplify installation.

Panels and frame channels are easily removed for access to or retrofit of large components.



Rigid, injected foam panels provide superior strength, improve operating efficiency and reduce unit weight.



The Vision Advantage at a Glance

Flexibility

- Custom modular platform with Variable Dimensioning feature allows you to “customize” the system you need from a wide selection of components and sizes.
- Shipped assembled or by section to minimize install time, reduce installation costs and allow passage through doors, tight spaces and in elevators. Great for retrofit jobs.
- Widest selection of base rail heights, from 4 to 12 inches (8 to 12 on extended-size units) allows for adequate condensate trapping; eliminates costly housekeeping pad.

Indoor Air Quality and Operating Efficiency

- R-13 injected-foam panels and low-leakage, gasketed frame channel construction eliminates fibers in the airstream and provides superior cabinet thermal efficiency.
- Double-sloped, microbial-resistant, galvanized (standard) or stainless steel drain pan helps eliminate standing water and inhibits bacteria growth.
- Smooth interior surfaces reduce potential for microbial growth, dirt accumulation, and make cleaning easier.
- Patented splice collars keep out unfiltered, unconditioned air.
- Ultraviolet lights augment filtration to inhibit bacteria and mold growth.
- Fan and starter/inverter selection options provide the lowest possible BHP requirements and lower fan operating costs.
- Patented UltraSeal™ low-leak dampers maximize operating efficiency and reduce operating costs.

Easy, Low Cost Installation

- Extended coil connections with gasketed airseals, external drains and vents eliminate the need to remove panels for installation. This preserves the air-tight environment and can save time and money.
- Factory-mounted motor control options, including disconnects, starters and VFDs.
- Digital Ready Controls minimize coordination, field labor and cost to install controls by others.

Easy Maintenance and Serviceability

- Hinged access doors and easy-to-remove access panels make inspection and cleaning easy.
- Removable cross-member frame channels make top or side coil removal easy without disrupting unit integrity.
- Extended fan bearing lube lines make lubricating the fan system easier.
- Extended drain connections reduce coil maintenance time and promote complete coil draining.

Digital Ready™ Controls

- Specifying McQuay Vision Air Handlers equipped with factory-installed Digital Ready control components allows you to optimize air handler performance while minimizing the cost and potential problems associated with field-installation of control devices.
- Digital Ready control components include limit switches, pressure transducers, actuators and sensors. Each component is optimally located, factory-mounted and factory-wired to junction boxes on the outside of each shipping section of the unit.
- End device packages are available based on the preferences of major control companies, including Alerton, Automated Logic, Honeywell, Invensys, Johnson Controls and Siemens.
- All packages have been factory proven and set up as standard product options.





Use Your Vision

Vision Customized Options

Use McQuay Vision as a product platform on which to build the ideal air handler for your specific application. Factory-installed customized options include:

- Variable Dimensioning cabinet sizing on 2" increments height and width (4" width increments over 142")
- Painted cabinet
- Variable base rail heights: 4"-12" (8"-12" on Extended-Size units)
- Dual-path configurations
- Multiple liner options
- Starters and inverters
- Static mixer options
- Sound attenuator options
- Multiple coil section depths and configurations
- Integral face and bypass coil
- Energy recovery sections
- Fan selections (forward curved, airfoil, belt or direct drive plenum, inline* and twin fans*)
- Flush-mounted filter gauges
- Digital Ready options for controls by others
- Multiple filter types and efficiencies
- Ultraviolet lights
- Electric heaters*
- Doors (outward or inward swinging)
- Windows, marine lights, receptacles
- Manual sections to accommodate special components
- Multiple access section depths
- Flexibility in shipping arrangements
- Humidifier manifold
- IBC seismic certification*

* These options are not available on Extended-Size units.



Multiple filter types



Lights and receptacles



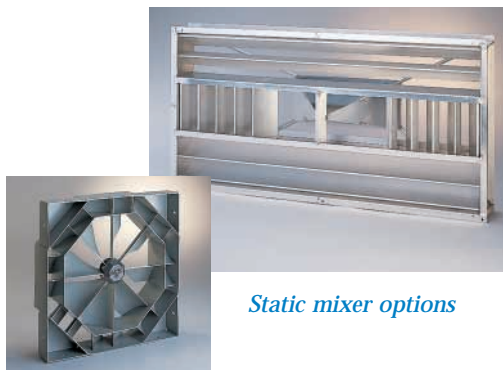
Sound attenuators



Starter/inverter options



Fan options



Static mixer options

Energy recovery options





Vision's Unique Standard Features

3 to 160 ft² Coil Face Area, 900 to 100,000 CFM



Extended Coil Connections

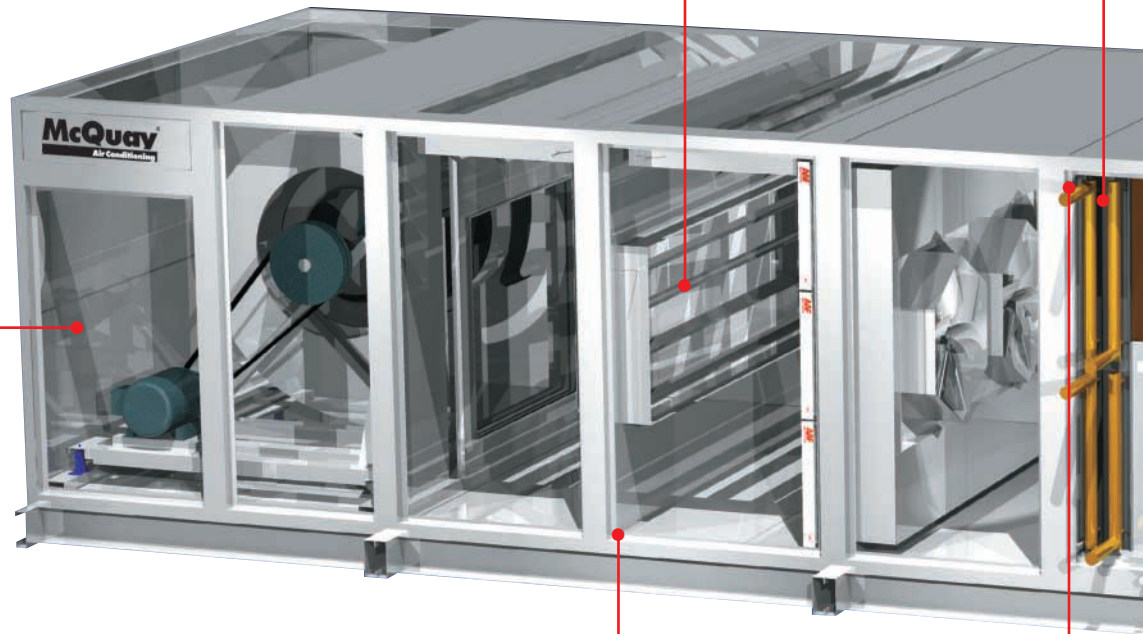
- Reduces installation costs
- Reduces maintenance time
- Aids proper drainage

Patented UltraSeal™ Low-Leak Dampers

- Maximizes operating efficiency
- Reduces operating cost

Rugged Cabinet Enclosure

- Rigid, thermally efficient (R-13) injected-foam panels are strong and light weight
- Promotes longer unit life



Gasketed Frame Channel & R-13 Injected-Foam Panels

- Eliminates metal-to-metal contact between paneling and framework
- Minimizes cabinet condensate and corrosion
- Facilitates top and side component removal
- Promotes long life



Frame Channel Disassembly

- Allows two-sided access
- Easier, faster service and maintenance



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Custom-Modular Design

- Allows custom selection and configuration of components
- Allows design of system to meet space and performance requirements

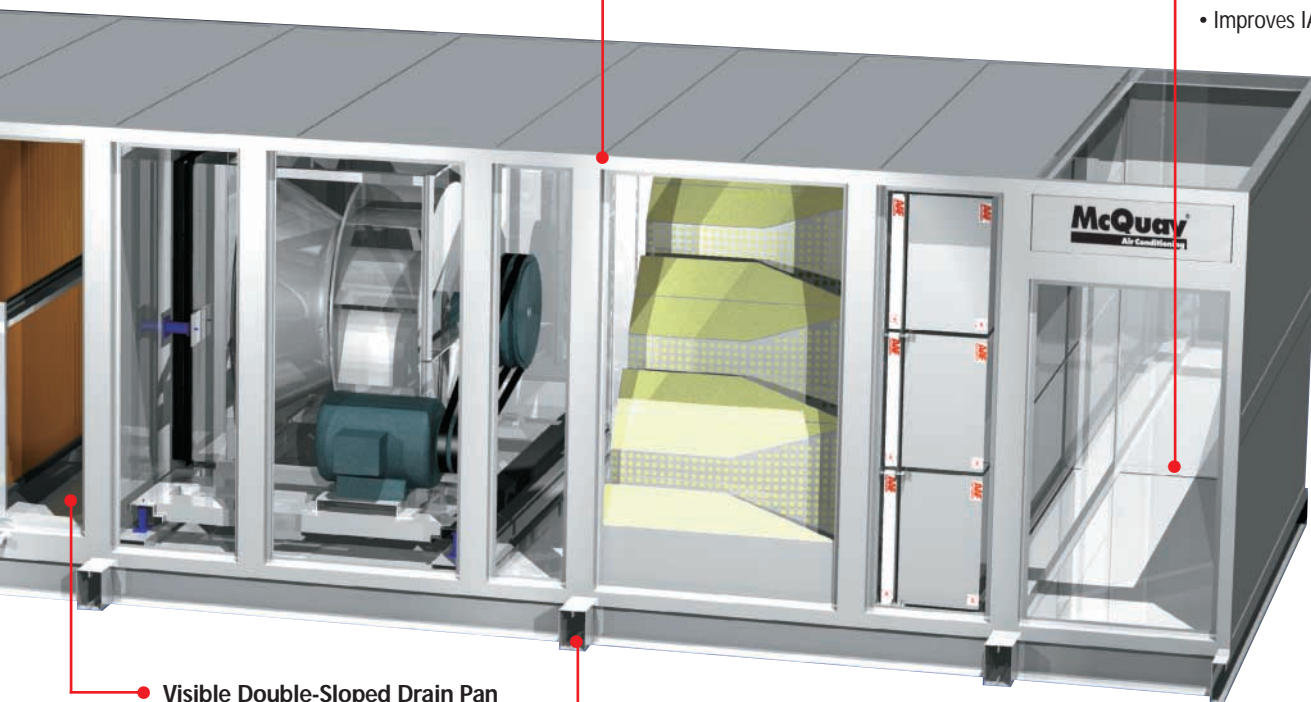


Patented Splice Collar

- Reduces installation cost
- Creates an air tight environment

Smooth Interior Surface

- Reduces dirt accumulation
- Facilitates cleaning
- Improves IAQ



Visible Double-Sloped Drain Pan

- Makes inspection and cleaning easier
- Improves IAQ

Base Rail Heights Up To 12"

- Eliminates costly housekeeping pad
- Allows for adequate condensate trapping



Air Handler Products



*Destiny™ Indoor Air Handler
(600 to 15,000 cfm)*



*RoofPak™ Rooftop Air Handler
(4000 to 50,000 cfm)*



*Vision™ Customized Indoor Air Handler
(900 to 100,000 cfm)*



*Fan Coils
(200 to 3000 cfm)
vertical, horizontal, vertical stacking, large capacity, unit heaters, cabinet unit heaters*



*Skyline™ Outdoor Air Handler
(900 to 65,000 cfm)*



*Coils
water and evaporator cooling coils, water heating coils, steam coils, booster coils*

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