



Geniox

The Next Generation of Air Handling Units

Geniox is the next generation in air handlers. Geniox is designed to combine performance and quality usually only found in full custom AHU's with the lead time and convenience of a modular air handling unit. Geniox+ is equipped with fully integrated VRF, making it the smartest, easiest way to provide fresh air to a Mitsubishi Electric VRF system.

GENIOX

- **One box, many uses**

DOAS, MUA, ERV or integrated VRF module, perfect for offices, schools and shopping centers.

- **High performance casing design**

Our new, double wall, thermal break design casing provides the best choice for minimal energy loss.

- **Easy service**

All components are designed to facilitate maintenance, which ensures a long reliable operation.

- **Building management system (BMS)**

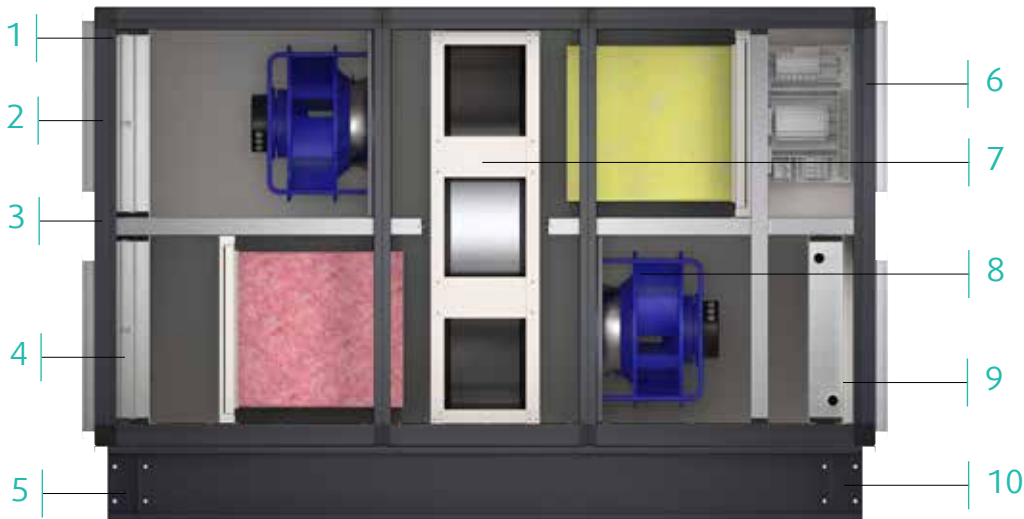
Geniox is supported by the most common communication standards such as BacNet.

- **High efficiency unit**

Using only the best internal components, ensures an energy efficient and sustainable ventilation solution.

- **SystemairCLICK - easy selection**

Our design program ensures an optimal dimensioning of the Geniox's functions, quickly and easily.



1 Casing. High performance casing for minimal energy loss.

- Thermal break casing design
- Double wall panel, 2.4" R-14 injected foam insulation
- Minimized air leakage rate with a complex gasket design (< 1% @ +/- 8" w.g. ASHRAE 111 SMACNA Class 6)
- < L/240 @ +/- 8 in. w.g. panel and door deflection

2 Panels. Elimination of thermal bridges due to separation between inner skin and outer skin with a plastic gasket on the edges and removing metal-to-metal contact.

3 Frame/profiles.

- High corrosion resistance
- External powder coated, galvanized steel profiles
- Internal aluzinc
- Galvanized G90 steel profiles **GENIOX+**

4 Filters. Compact bag filters, Merv9-Merv14, ensure a low initial differential pressure. Panel Filters, Merv8-Merv13, are also available.

5 Corners. Designed of ABS thermoplastic polymer ensures minimal thermal bridging.

Handles and hinges. Practical lockable handles and hinges make it possible to disassemble all doors and provide a space-saving solution that is easy to service.

Service and maintenance. All panels, doors and openings have easy access for cleaning and service.

6 Control system. Geniox can be furnished with our fully tested, preconfigured BACnet MS/TP controller. Or, we can deliver with your 3rd party controls factory installed, or, DDC ready with or without controls panel.

7 Energy recovery (optional). High quality and energy efficient exchangers are available: Wheel (Sensible, 3A Enthalpy) and Plate Exchanger (Sensible, Enthalpy).

8 Fan/motor. Variable-speed EC motors, or AC motors with optional factory VFD ensures your selection of the most energy efficient system.

9 Dampers. Aerodynamically profiled blades and best in class low leakage. Tightness class 1A (AMCA 500-D).

10 Base Frame with Factory Supplied Roof Curb. The roof curb offers a 12" raised frame made of 16Ga Galv G90 sheet metal that hugs the perimeter of the Geniox unit. The new base frame combined with the roof curb also ensures protection from water ingress into the building through the roof.

Diamond Plate Floor. Aluminum tread plate ensures safety against slips and sturdy construction for withstanding weight and corrosion.

GENIOX+

- **Integrated VRF module**

Full VRF integration within the AHU, installed and piped (optional) at our factory with tailored Systemair controls (optional).

- **Factory coordination**

When the factory installs your VRF components within the Geniox+, you save time, you save on installation headaches, and you save on back and forth coordination, ensuring a seamless project management process.

- **In-house controls integration**

Easy, integrated, optimized communication between Geniox+ and VRF system, ensuring less time networking with on-site BMS system. The controls package comes delivered and working together.

- **High performance casing design**

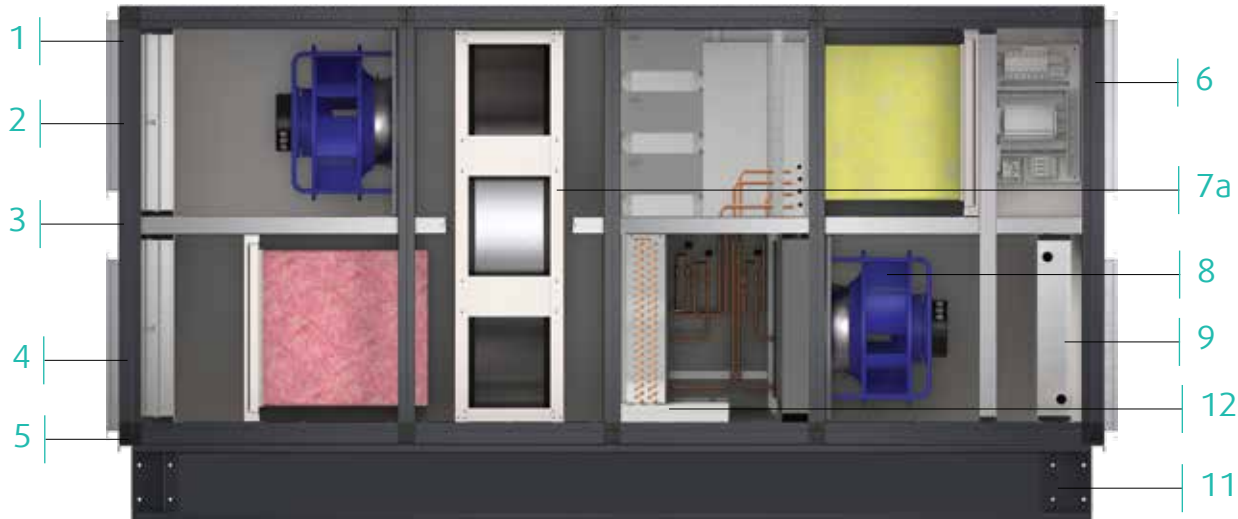
Thermal break and double walled R-14 foam injected panel design ensures minimal thermal transmittance and bridging for superior energy efficiency, which translates to greater savings.

- **More filtration options for better IAQ**

Compact bag filters, Merv9/14 and Panel Filters, Merv8/13, promotes a clean, healthy environment.

- **High efficiency unit**

High efficiency air handling unit coupled with the energy savings of a VRF system = more savings and an efficient overall building system.



7a Energy recovery (optional). High quality and energy efficient Wheel (Sensible, 3A Enthalpy) exchangers are available.

11 Base Frame with Factory Supplied Roof Curb. The new base frame combined with the roof curb also ensures protection from water ingress into the building through the roof.

VRF Module. Integrated VRF module, specific to Mitsubishi Electric VRF manufacturer.

VRF DX primary coil. Primary cooling coil installed within the Geniox unit by Systemair.

VRF Reheat coil. If applicable, secondary coil for reheat, installed within the Geniox unit by Systemair.

12 VRF LEV kit installed in the air handler. LEV kits piped and installed within the air handler to control the flow of refrigerant entering the coil.

VRF Communication Modules installed at our factory. Ensure proper communication between AHU and VRF system – wired and installed safely within the air handling unit cabinet to the Geniox controller.



Y-Series model



LEV Kit Controller



Factory piping for full VRF refrigerant integration. Remove the complexity of piping in the field. Piping is brazed and soldered with care and craftsmanship to ensure no leaks and perfect refrigerant flow. This provides easy connection between Geniox+ and outdoor condensing units.

Factory wiring to control module. Geniox controls experts carefully wire the LEV kit to AHU Control panel for seamless operation and reduced labour in the field.

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