



FUJITSU



AIRSTAGE®

OFFERING VENTACITY HIGH EFFICIENCY
VENTILATION SOLUTIONS FOR
COMMERCIAL APPLICATIONS



The heating/cooling and fresh air ventilation of a building are necessary to have a comfortable and healthy indoor environment.

FUJITSU - VENTACITY PARTNERSHIP

Fujitsu General America has partnered with Ventacity Systems to provide the first VRF - HRV/ERV solution that is powered by the Ventacity HVAC² Smarter Building Platform. The Airstage VRF system provides a superior level of comfort with very high efficiency at part-load conditions. The Ventacity HVAC² Smarter Building Platform can measure key indoor air quality parameters and outdoor parameters. It then regulates the amount of fresh air and its temperature that is being supplied to the building. The Ventacity HRV/ERV system, with its 85%-93% sensible recovery efficiency, minimizes the amount of energy required to condition the fresh air. This translates to huge energy savings for the building owner.

Approximately 42% of a building's energy usage is consumed by the HVAC system.

The fresh air treatment requirement can be 25% or more of the total HVAC designed capacity depending on building usage type. Most HVAC designs combine heating, cooling and ventilation into one system, resulting in uncomfortable, unhealthy spaces, and much higher energy costs.

Fujitsu Airstage VRF systems provide an efficient heating and cooling solution that matches the actual building load requirement at all times.

But what about the other 25% of the system capacity being used for the fresh air requirements?

Is there a way to optimize the amount of fresh air required and reduce that energy use?

The Ventacity HVAC² Smarter Building Platform optimizes efficiency, health and comfort of the building while providing cloud based access. It is the built-in brain that integrates and networks all of Fujitsu's VRF Airstage and Ventacity HRV/ERV ventilation equipment enabling deployment of a fully integrated and coordinated complete HVAC system.

What does the Fujitsu-Ventacity solution bring?

Ventacity products integrate seamlessly with Fujitsu VRF systems, the following is a feature overview:

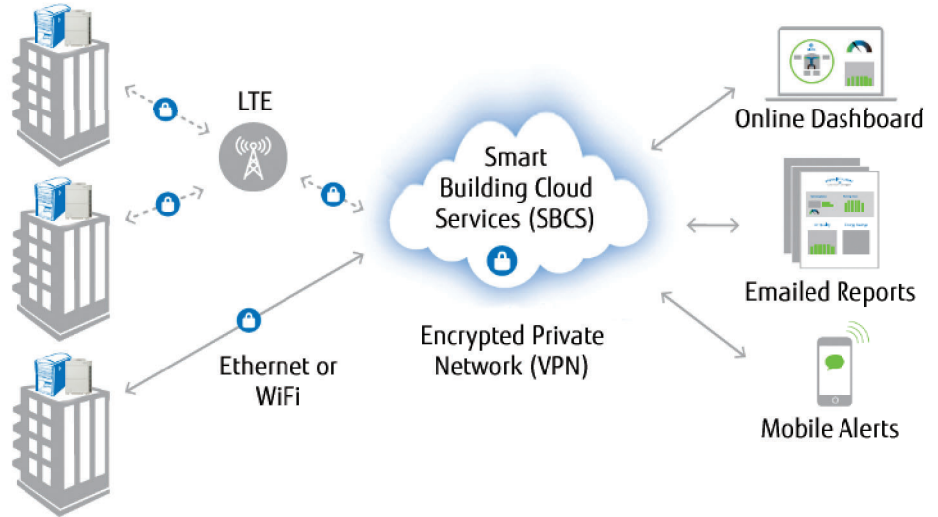
IMPROVED COMFORT AND HEALTH IN BUILDINGS

When the Ventacity HRV/ERV system is connected to optional sensors, it will optimize ventilation, providing just the right amount of fresh air when and where needed for maximum health and comfort. The combination of zoned heating and cooling from Airstage systems with fresh air from Ventacity's HRV/ERV systems provides a healthy environment for building occupants, translating into higher building value.

CLOUD-BASED SYSTEM MANAGEMENT

System monitoring and control decisions can be made both locally at each device or building and remotely using any web-enabled device. Remote monitoring lowers maintenance costs, increases profits through efficient scheduling of field technicians and greatly reduced training time.

Smarter Building Controller (SBC)
operating HRVs/ERVs and VRF



HIGH EFFICIENCY

The Airstage VRF system - which includes a variety of Building Management System controls - combined with a Ventacity HRV/ERV system makes an intelligent, ultra-efficient solution for buildings, offering tremendous Energy Use Intensity (EUI) reductions and savings in the building's annual energy use per unit area.

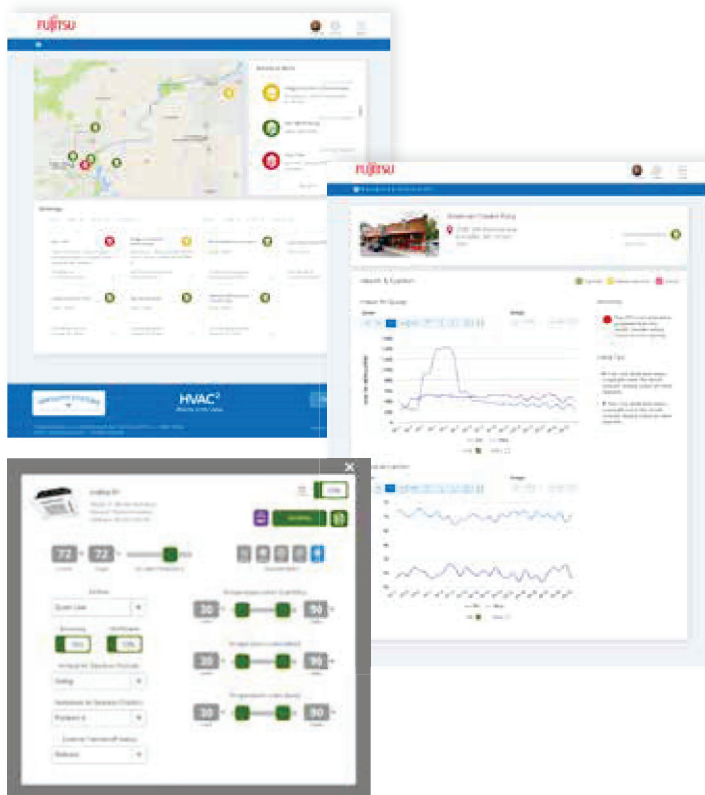
SBC100 SMARTER BUILDING CONTROLLER

The SBC100 Smarter Building Controller offers significant savings by providing the best, most feature rich VRF central controller at a competitive cost. Compared to other HVAC control systems, the SBC100 requires fewer components and much less integration time. The SBC100 connects a variety of devices to the HVAC² Smarter Building Platform over a secure network via LTE or Ethernet, and uses a cloud-based user interface, which is available from any Internet connected device. This offers immediate access to critical information to monitor energy efficiency and lower operating costs throughout a building's lifecycle.



PLUG AND PLAY HVAC SYSTEM

Upon installation, Airstage VRF systems are automatically detected and added to the secure Ventacity HVAC² Smarter Building Platform network, dramatically reducing installation and system integration time and expense.



PASSIVE HOUSE CERTIFIED

Ventacity's VS1000RT is the first Passive House, UL, CSA Certified counterflow heat recovery ventilation (HRV) product in North America.



SPECIFICATIONS

Indoor Mount Ductless



Roof Top Mounted Ducted



Roof Top Mounted Ducted



MODEL NAME		VS500SQ / VS500Sqe	VS1000RT/RTe	VS3000RT/RTe
Ventilation Flow - Max	cfm	539 cfm	1,020 cfm	3,300 cfm
Ventilation Flow - Typical	cfm	117 to 500 cfm	180 to 1,000 cfm	750 to 3,000 cfm
Ventilation Type		Heat Recovery Ventilator (HRV) / Energy Recovery Ventilator (ERV)		
Heat Exchanger		Counterflow Aluminum Static Plate / Counterflow Polymer Static Plate		
Heat Recover - Max	%	90 / 83	92 / 85	90 / 85
Temperature Range	°F	40 to 104	-13 to 140	-13 to 122
Modes		CAV, DCV, Economizer	CAV, DCV, VAV, BMS, Economizer	
MECHANICAL				
Weight	lbs.	280 / 288	618 / 662	1654 / 1720
Dimensions	in.	84.3 x 44 x 17.9	63.6 x 35.2 x 52.5	86.3 x 48.3 x 73.5
OA Filter (2" or 4") MERV13	in.	15.16 x 16 x 3.75	17.5 x 28 x 3.75	51 x 26.5 x 3.75
RA Filter (2") MERV8	in.	10.6 x 16.7 x 2	16.5 x 28 x 17.5	51 x 25.25 x 3.75
ELECTRICAL				
Power Supply	kW	5.1	7	20.2
Voltage		240 VAC, 1-Phase, 60Hz	240 VAC, 1-Phase, 60Hz or 208/240 VAC, 3-Phase, 60Hz	"208/240 VAC, 3-Phase, 60Hz or 480 VAC, 3-Phase, 60Hz"
De-Ice Preheater	kW	2.1	6	16.3
Maximum Power - 1 Fan	W	322	500	1,900

DUCTLESS

The VS500SQ is a ductless HRV/ERV for decentralized applications. The VS500SQ optimizes for energy efficiency and healthy indoor air quality, while offering ultra-quiet operation and no drafts.

Top Applications: Classrooms, offices and conference rooms.



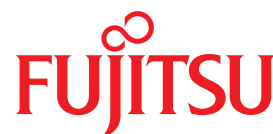
DUCTED

VS1000RT and VS3000RT make up a line of Smart Ventilation™ Management systems with a rugged design for easy rooftop or mechanical room installation that optimize healthy indoor air quality while minimizing building energy usage.

Top Applications: New and existing retail spaces, offices, restaurants, schools, public spaces and multifamily residential buildings.



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