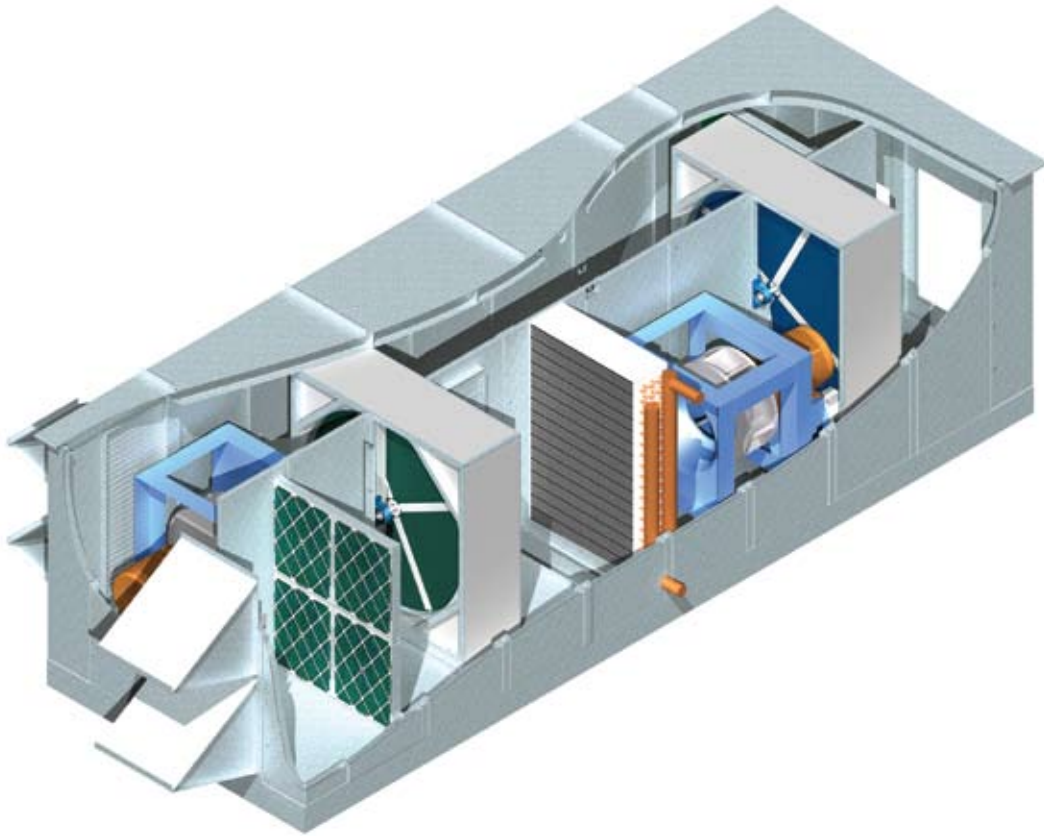


***VS Series
Midsize Packaged Ventilation System
2,500 - 15,000 cfm***



VS Series - Midsize Packaged Ventilation System

The VS Series is available in four cabinet sizes ranging in airflow capacity from 2,500 scfm to 15,000 scfm and can be used to precondition outdoor air going to other conventional air handling systems or as an integrated system that provides total space conditioning with the additional heating and cooling options available.

Standard Features

EXCLU-SIEVE® Total Energy Wheel

Certified total energy recovery performance (sensible & latent).

3Å molecular sieve-desiccant coating to avoid cross-contamination.

Wheel faces are coated to ensure long lasting anti-stick, corrosion resistant, antimicrobial protection.

Sensible-only wheel is polymer coated to avoid oxidation and future transfer of moisture.

All aluminum, structural spoke system eliminates mechanical fatigue & allows media replacement for wheels greater than size 9.

Non-wearing labyrinth seals.

Variable speed wheel control with auto summer/winter changeover, proportional heating control & digital temperature readout.

Factory set, field adjustable purge sector.

Casing

1" dual wall galvanized steel solid exterior skins and galvanized steel solid interior skins.

1" thick 8pcf mineral wool insulation with a U-factor of 0.24 BTU/(hr-ft²-deg).

Removable panels for easy access to components.

Gasketed double-wall hinged access doors with latches for all service compartments.

Painted formed steel base with standing seam floor and mineral wool insulation, protected by a galvanized steel cover.

Lifting lugs bolted to the formed base.

Supply and Exhaust Fans

Centrifugal Plenum Type, AMCA arrangement 4.

AMCA rated fans sized for quiet and efficient operation.

Fan assemblies are direct drive with the assembly mounted on spring isolators with flexible connections between fan and fan wall.

Integral fan airflow station.

Premium efficiency, NEMA frame, ODP motors are standard.

TEFC type motors are optional.

Fans will have modulating capability provided by VFD's.

VFD's are factory mounted.

Filter Sections

2" MERV 8 pleated filters are standard, 4" filters are optional.

Filter gauge.

Hoods and Dampers

Low-leakage motorized fresh air damper and gravity exhaust air

damper.

Outdoor units are provided with an intake and exhaust hood with bird screen.

Electrical Package

208, 240 and 480 volt 3Ø single point connections are available.

All motors, VFD's, main disconnect and a HOA switch are factory wired & mounted.

Controls

Automated Logic Control system with BACnet over IP communication.

Optional Features

Hot water heating coil.

Chilled water cooling coil.

DX cooling coil.

6" deep final filters with a choice of MERV 11, 13 or 14 ratings.

CO₂ based demand control.

Recirculation damper with actuator.

BACnet over MSTP.

BACnet over ARCnet.

Benefits

Independently certified wheel performance in accordance with ASHRAE Standard 84-91 and ARI 1060 with regard to:

Latent Heat Transfer Efficiency

Sensible Heat Transfer Efficiency

Pressure Loss across wheel

Equal latent and sensible heat transfer.

Wheel media independently certified to pass NFPA 90A requirements for flame spread and smoke generation based upon ASTM E84.

Proven wheel design and performance.

Reliable operation and minimum maintenance.

Suitable for new construction or retrofit applications.

Indoor or outdoor applications.

Precools and dehumidifies outdoor air during the cooling season.

Preheats and pre-humidifies outdoor air during the heating season.

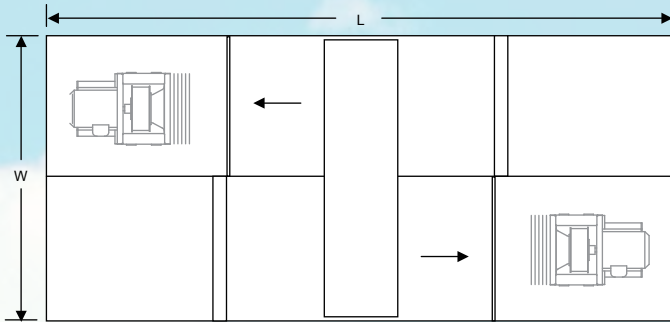
Supplies preconditioned outdoor air to conventional HVAC systems, allowing them to effectively increase outdoor air percentages.

Preconditioned outdoor air can be introduced to the return air plenum serving a central HVAC system.

Available Unit Configurations

VS Series

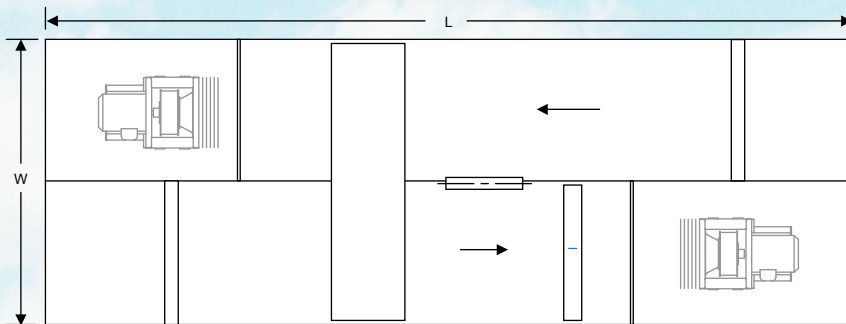
Single wheel



Model	W	L	H
VS-5	77	169	65
VS-9	79	169	78
VS-13	96	169	89
VS-18	113	169	101

VSC Series

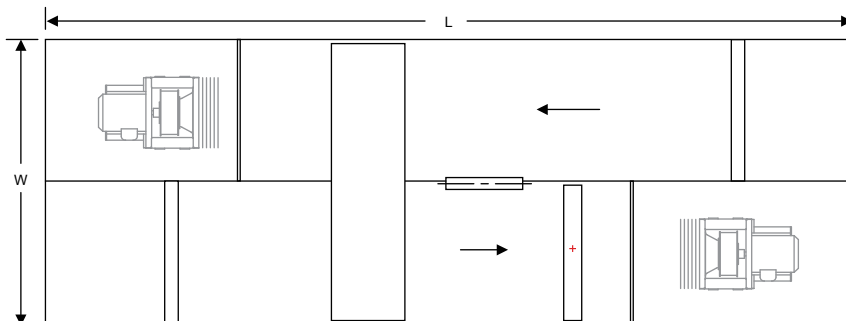
Single wheel + Cooling options



Model	W	L	H
VSC-5	77	193	65
VSC-9	79	193	78
VSC-13	96	193	89
VSC-18	113	193	101

VSH Series

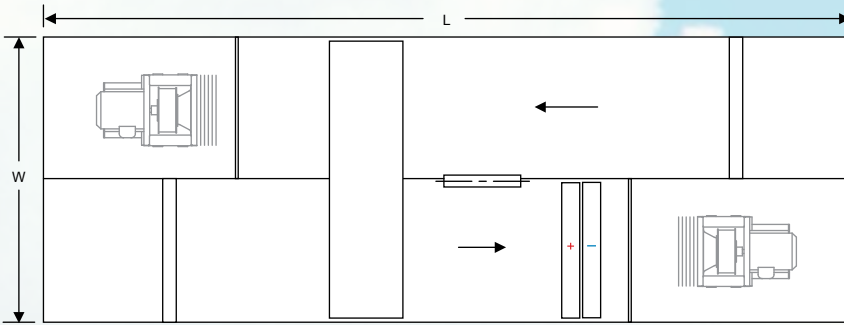
Single wheel + Heating options



Model	W	L	H
VSH-5	77	193	65
VSH-9	79	193	78
VSH-13	96	193	89
VSH-18	113	193	101

VSHC Series

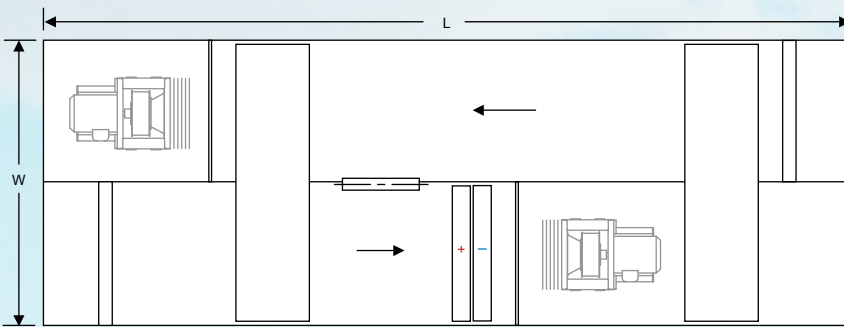
Single wheel & Heating + Cooling options



Model	W	L	H
VSHC-5	77	193	65
VSHC-9	79	193	78
VSHC-13	96	193	89
VSHC-18	113	193	101

VSD Series

Dual wheel & Heating + Cooling options



Model	W	L	H
VSD-5	77	218	65
VSD-9	79	218	78
VSD-13	96	242	89
VSD-18	113	242	101

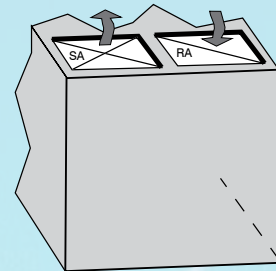
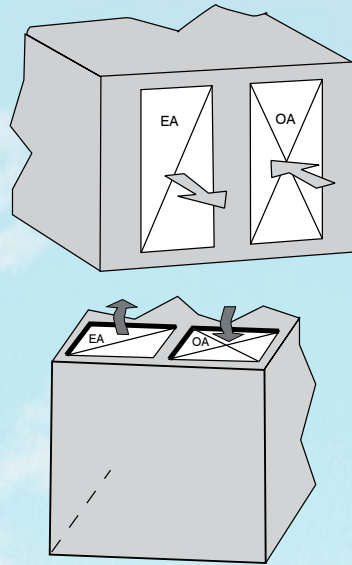
VS Series Airflow Capacities & Base Effectiveness

Model	Single Wheel	Minimum Airflow	Maximum Airflow
VS-5	•	2,500 / 82%	4,500 / 77%
VS-9	•	4,000 / 82%	8,000 / 75%
VS-13	•	6,000 / 84%	10,000 / 77%
VS-18	•	8,000 / 85%	15,000 / 76%

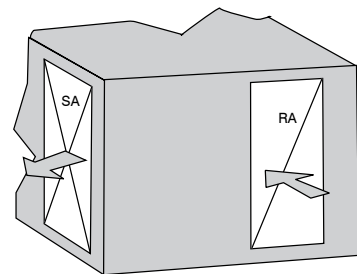
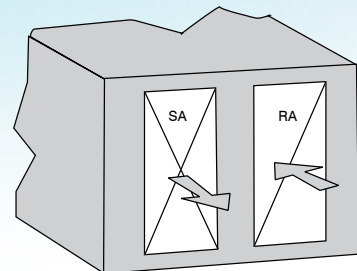
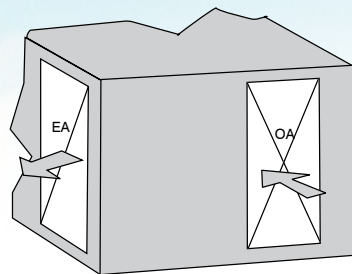
Model	Dual Wheel	Minimum Airflow	Maximum Airflow
VSD-5	•	3,000 / 81%	4,000 / 77%
VSD-9	•	4,500 / 82%	7,300 / 76%
VSD-13	•	6,000 / 84%	8,800 / 79%
VSD-18	•	8,000 / 85%	14,000 / 77%

VS Series Openings

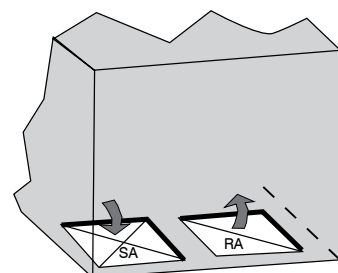
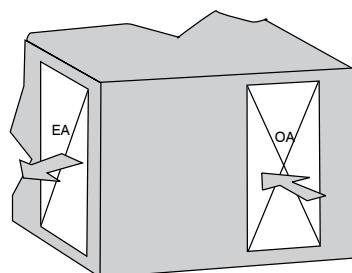
Indoor Units



Indoor / Outdoor Units



Outdoor Units



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