

Changeair VRF

Non-Compressorized Classroom Air Handler - Adapted for Mitsubishi VRF



Changeair Variable Refrigerant Flow

The Sound Leader for Classroom Ventilation

Changeair VRF provides all the features and benefits of a VRF heating and cooling solution integrated with a market leading Vertical Unit Ventilator. Now you can have the best of everything: Class leading energy efficiency, National Code and LEED meeting ventilation rates, at astonishingly low acoustic levels. All in one easy to install Solution!

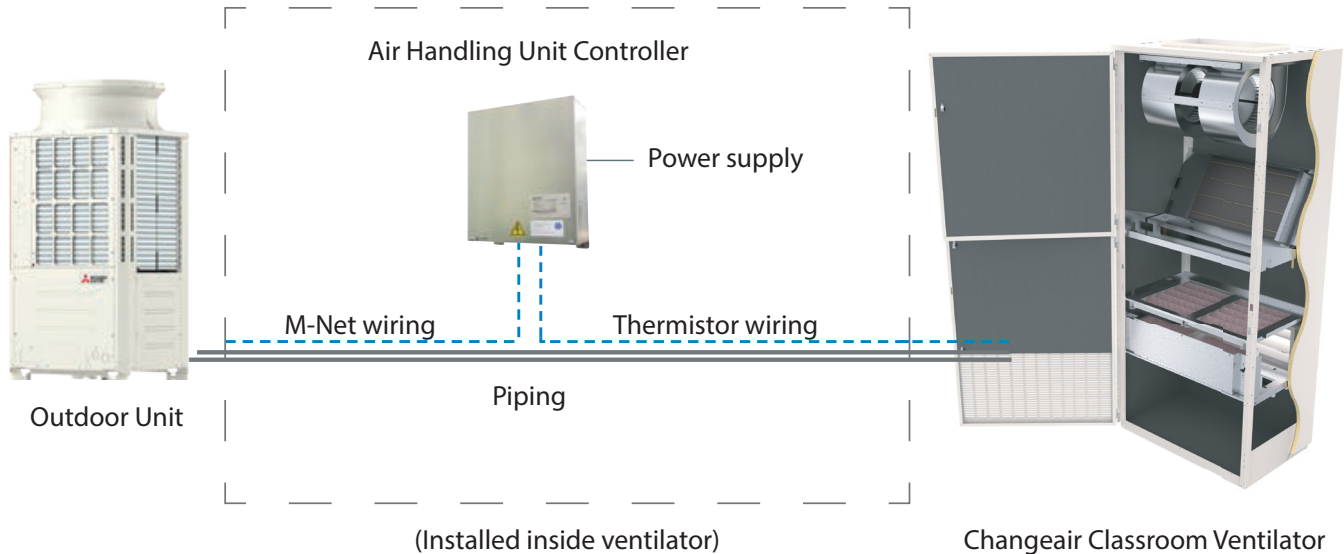
Changeair Intelligently Quiet supplies proven superior sound performance. Sound data you can trust from an accredited reverberant laboratory.



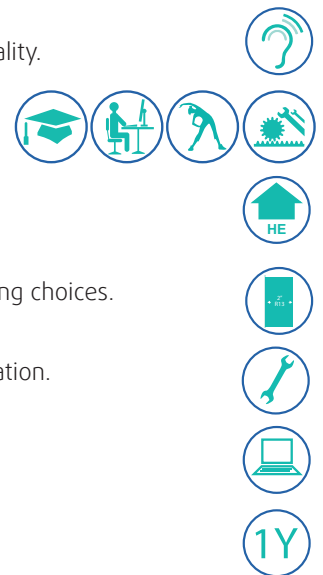
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QUICK REFERENCE

Parameter	Cabinet B	Cabinet C
Acoustics	Standard, or Intelligently Quiet (IQ) with Certified Sound Power Data	
Heating	Primary: VRF Split Variable Refrigerant Flow	Aux.: Hot Water, Steam, 94% Efficiency Gas or Electric
Cooling	VRF Split Refrigerant Flow	
Maximum Airflow	Up to 1,700 CFM	Up to 2,200 CFM
Dimensions	Cabinet B - 91"H x 39.75"W x 25"D	Cabinet C - 91"H x 46.75"W x 25"D
Filter, 1" or 2"	MERV 8, 11 or 13	MERV 8, 11 or 13
Voltage Options	208/230/1, 277/1, 230/3 or 460/3	208/230/1, 277/1, 230/3 or 460/3
Weight	750 lbs	950 lbs



- Unmatched sound performance**
 Sound Power Data from an AMCA Accredited Reverberant Sound Laboratory, NC30 classrooms are a reality.
- Flexible design**
 HVAC performance suitable for classrooms, office spaces, gyms and workshops.
- High efficiency performance**
 Energy recovery wheel, cores, EC Fans, COP, EER and Economizer efficiency options.
- Many heating & cooling options**
 VRV/F, hot water, steam, electric, high efficiency gas with or without chilled water, split DX heat & cooling choices.
- Easy service**
 All components are designed to facilitate maintenance, which ensures a long, reliable, stress-free operation.
- Building management system (BMS)**
 Select factory standalone or networked BACnet controls.
- Warranty**
 Backed by a one (1) year limited warranty, other options available upon request.



Please visit our website www.systemair.net for more information.
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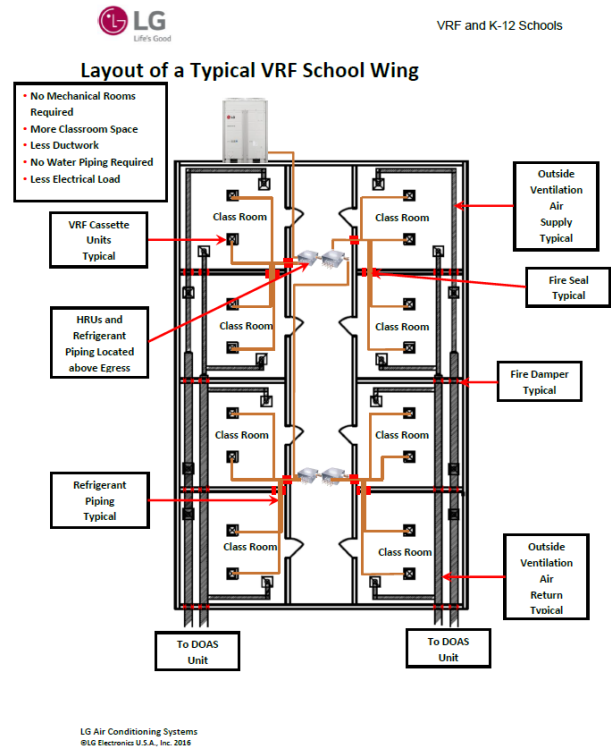
Classroom Vertical Unit Ventilators - Adapted for LG VRF

Changeair + provides all the features and benefits of a VRF heating cooling solution integrated with a market leading Vertical Unit Ventilator. Now you can have the best of everything: Class leading energy efficiency, National Code and LEED meeting ventilation rates, at astonishingly low acoustic levels. All in one easy to install Solution!

Changeair Intelligently Quiet supplies proven superior sound performance. Data you can trust from an accredited reverberant laboratory.

QUICK REFERENCE

Parameter	Cabinet B	Cabinet C
Acoustics	Standard Acoustical Sound Package or Intelligently Quiet (IQ) Sound Package	
Heating	Primary: Split Variable Refrigerant Flow (VRF) Aux.: Hot Water, Electric, Steam, or Gas	
Cooling	Split Variable Refrigerant Flow (VRF)	
Energy Recovery	With or without energy recovery wheel	
Maximum Airflow	1,800 CFM	2,200 CFM
Dimensions	91"H x 39.75"W x 25"D	91"H x 46.75"W x 25"D
Filter, 1" or 2"	MERV 8 or 13	MERV 8 or 13
Voltage Options	120V/1ph, 208-240/1ph, 230V/3ph, or 460/3ph	120V/1ph, 208-240/1ph, 230V/3ph, or 460/3ph
Weight	750 lbs	950 lbs



- **Unmatched sound performance**
With available Sound Power Data from an accredited reverberant Laboratory, NC 30 classrooms are a reality.
- **Flexible Applications**
HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms.
- **High Efficiency Unit**
Energy recovery wheel, EC Fans, COP, EER, VRF and Economizer efficiency options.
- **Many heating & cooling options**
VRF, Hot Water, Steam, Electric, High Efficiency Gas with or without Chilled Water, Split DX Heat & Cooling Choices.
- **Easy service**
All components are designed to facilitate maintenance, which ensures a long reliable operation.
- **Building management system (BMS)**
Factory Standalone or BACnet controls.
- **Warranty**
Changeair is backed by a 1 year limited warranty, other options available upon request.

Changeair Freshman

Non Compressorized Classroom Air Handler



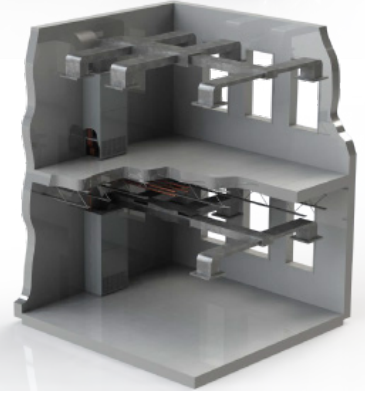
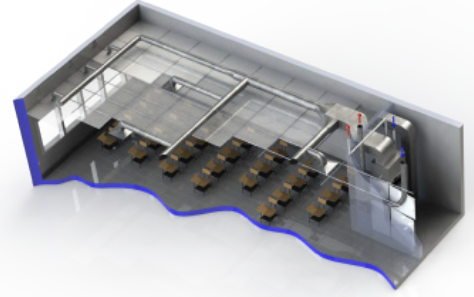
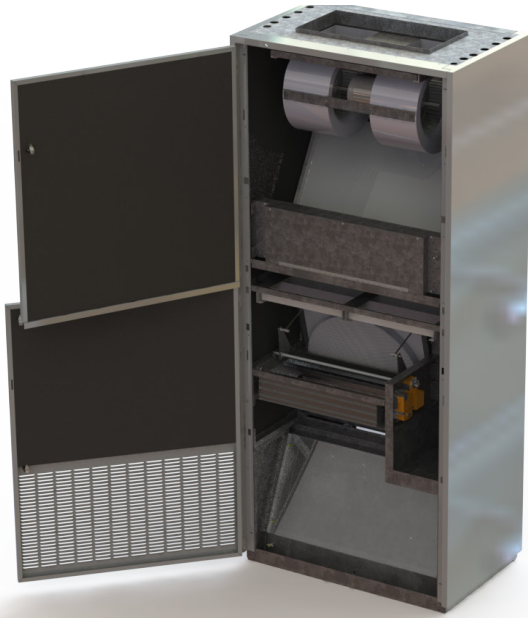
Changeair Freshman

The Sound Leader for Classroom Ventilation

You expect precise thermal control, great quality and value. And now, the Freshman Series is the first Single Room Air Handler to be certified for air and sound through AMCA.

Standard features such as: frame cabinet construction, front door maintenance access, and a wide selection of configurable options all make the Freshman series an incredibly versatile solution.





INFORMATIONS

Type	-	Standard Ventilator, Face & Bypass, Power Relief, Energy Recovery Wheel or Core, Dehumidification, Economizer	
Acoustics	-	Standard, or Intelligently Quiet (IQ) with Certified Sound Power Data	
Heating	-	Hot Water, Steam, Electric, 94% Efficient Gas, or Remote Heat Pump	
Cooling	-	Chilled Water, VRF, Split DX, or Remote Heat Pump	
Maximum Airflow	-	Up to 1,700 cfm	Up to 2,200 cfm
Dimensions	-	Cabinet B – 91”h x 39.75”w x 25”d	Cabinet C – 91”h x 46.75”w x 25”d
Filter, 1” or 2”	-	MERV 8, 11 or 13	
Weight	-	750 lbs	950 lbs

Unmatched Sound Performance

With AMCA Certified Sound Power Data from an accredited reverberant Laboratory, NC 30 classrooms are a reality.



Flexible Applications

HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms.



High Efficiency Unit

Energy recovery wheel, EC Fans, COP, EER and Economizer efficiency options.



Many Heating & Cooling Choices

Hot Water, Steam, Electric, High Efficiency Gas with or without Chilled Water, Split DX Heat & Cooling Choices.



Easy Service

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



Building Management System (BMS)

Select Factory Standalone or Networked BACnet controls, Controls by Others, or simple DDC terminal strip.



Warranty

Changeair is backed by a 1 year limited warranty, other options available upon request.



Please visit our website www.systemair.net for more information.





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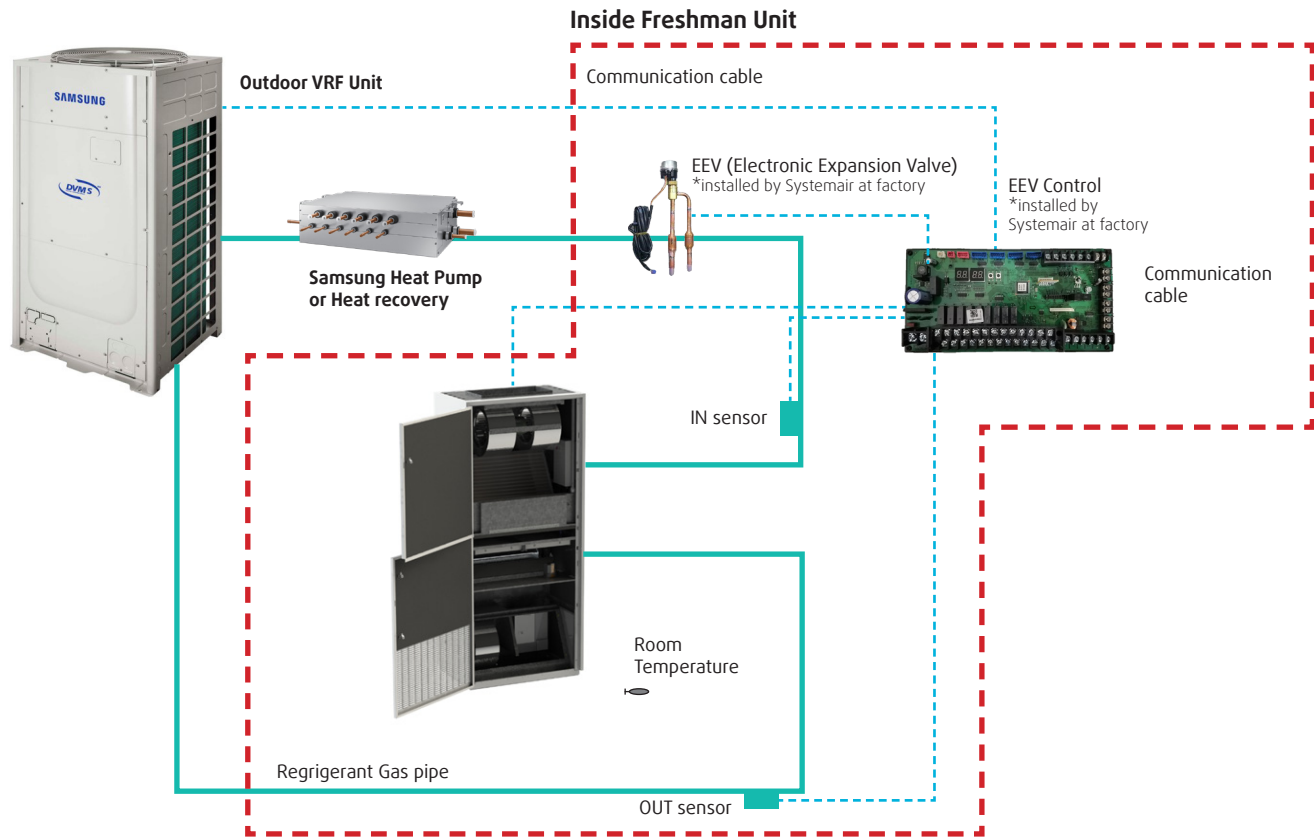
Classroom Vertical Unit Ventilators - Adapted for Samsung VRF

Changeair + provides all the features and benefits of a VRF heating cooling solution integrated with a market leading Vertical Unit Ventilator. Now you can have the best of everything: Class leading energy efficiency, National Code and LEED meeting ventilation rates, at astonishingly low acoustic levels. All in one easy to install Solution!

Changeair Intelligently Quiet supplies proven superior sound performance. Data you can trust from an accredited reverberant laboratory.

QUICK REFERENCE

Parameter	Cabinet B	Cabinet C
Acoustics	Standard Acoustical Sound Package or Intelligently Quiet (IQ) Sound Package	
Heating	Primary: Split Variable Refrigerant Flow (VRF) Aux.: Hot Water, Electric, Steam, or Gas	
Cooling	Split Variable Refrigerant Flow (VRF)	
Energy Recovery	With or without energy recovery wheel	
Maximum Airflow	1,800 CFM	2,200 CFM
Dimensions	91"H x 39.75"W x 25"D	91"H x 46.75"W x 25"D
Filter, 1" or 2"	MERV 8 or 13	MERV 8 or 13
Voltage Options	120V/1ph, 208-240/1ph, 230V/3ph, or 460/3ph	120V/1ph, 208-240/1ph, 230V/3ph, or 460/3ph
Weight	750 lbs	950 lbs



- **Unmatched sound performance**
With available Sound Power Data from an accredited reverberant Laboratory, NC 30 classrooms are a reality.
- **Flexible Applications**
HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms.
- **High Efficiency Unit**
Energy recovery wheel, EC Fans, COP, EER, VRF and Economizer efficiency options.
- **Many heating & cooling options**
VRF, Hot Water, Steam, Electric, High Efficiency Gas with or without Chilled Water, Split DX Heat & Cooling Choices.
- **Easy service**
All components are designed to facilitate maintenance, which ensures a long reliable operation.
- **Building management system (BMS)**
Factory Standalone or BACnet controls.
- **Warranty**
Changeair is backed by a 1 year limited warranty, other options available upon request.

Changeair VRF

Non Compressorized Classroom Air Handler - Adapted for Daikin VRV



Changeair Variable Refrigerant Flow

The Sound Leader for Classroom Ventilation

Changeair VRF provides all the features and benefits of a VRF/VRV heating cooling solution integrated with a market leading Vertical Unit Ventilator. Now you can have the best of everything: Class leading energy efficiency, National Code and LEED meeting ventilation rates, at astonishingly low acoustic levels; all in one easy to install Solution!

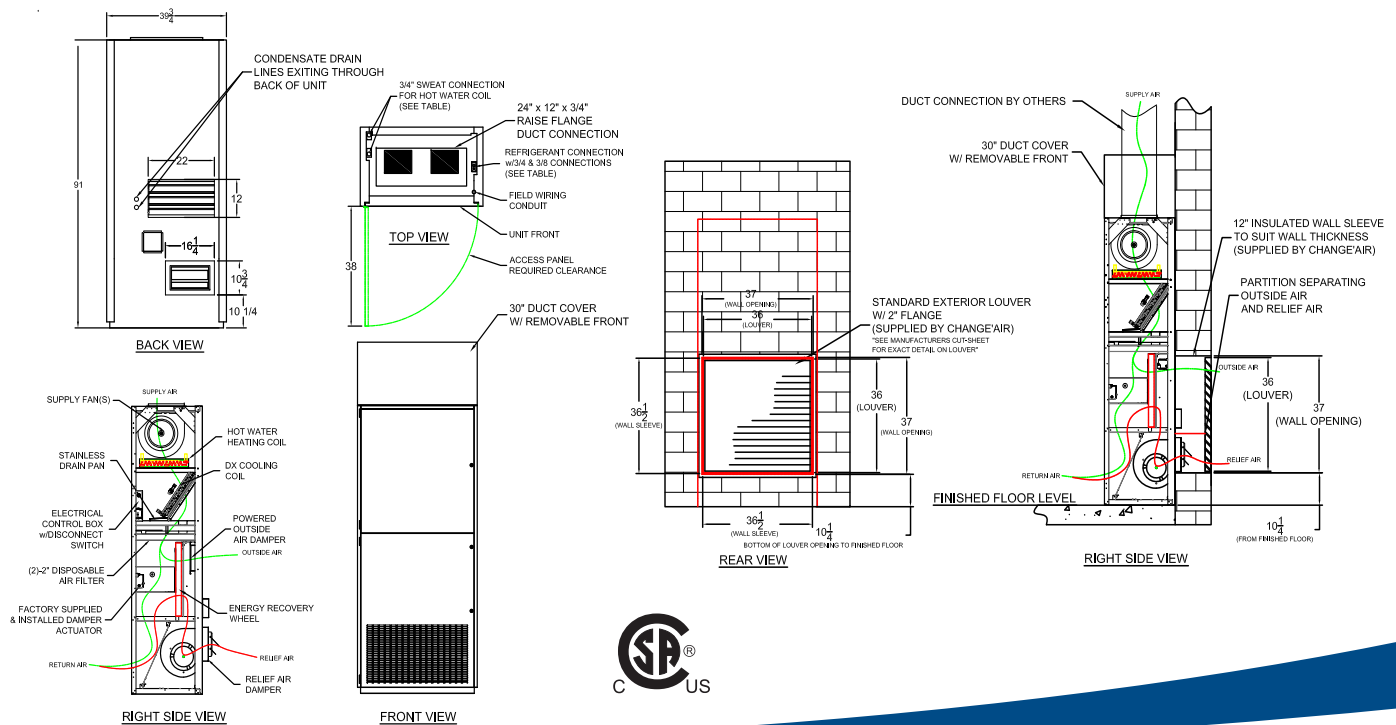
Intelligently Quiet VRF/VRV UVs supply superior sound performance with data you can trust from an accredited reverberant laboratory.



Quick reference

Parameter	Unit	Cabinet B - 91" h x 39.75" w x 25" d	Cabinet C - 91" h x 46.75" w x 25" d
Voltage	V / ~	Up to 460 / 3	
Maximum airflow	cfm	up to 1,800	up to 2,400
Heating	-	Primary Daikin VRV Kit Split Variable Refrigerant Flow Aux. Hot water, Steam, Hi Efficiency Gas or Electric	
Cooling	-	Daikin VRV Kit Split Variable Refrigerant Flow	
Design types	-	Acoustic: Standard or Intelligently Quiet Recovery: Standard or energy recovery wheel	
Filter, 2" or 4"	-	MERV 8 or 13	
Weight	lbs	750	950

Typical Diagram B Cabinet



- **Unmatched Sound Performance**

With available Sound Power Data from an accredited reverberant Laboratory, NC 30 classrooms are a reality

- **Flexible Applications**

HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms

- **High efficiency unit**

Energy recovery wheel, EC Fans, COP, EER, VRF and Economizer efficiency options

- **Many Heating & Cooling Choices**

VRV/F, Hot Water, Steam, Electric, Hi Efficiency Gas with or without Chilled Water, Split DX Heat & Cooling Choices

- **Easy service**

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

- **Building Management System (BMS)**

Factory Standalone or BACnet controls

- **Warranty**

Changeair is backed by a 1 year limited warranty, other options available upon request

Representative Logo
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Changeair +

Non-Compressorized Classroom Air Handler - Adapted for Daikin VRV

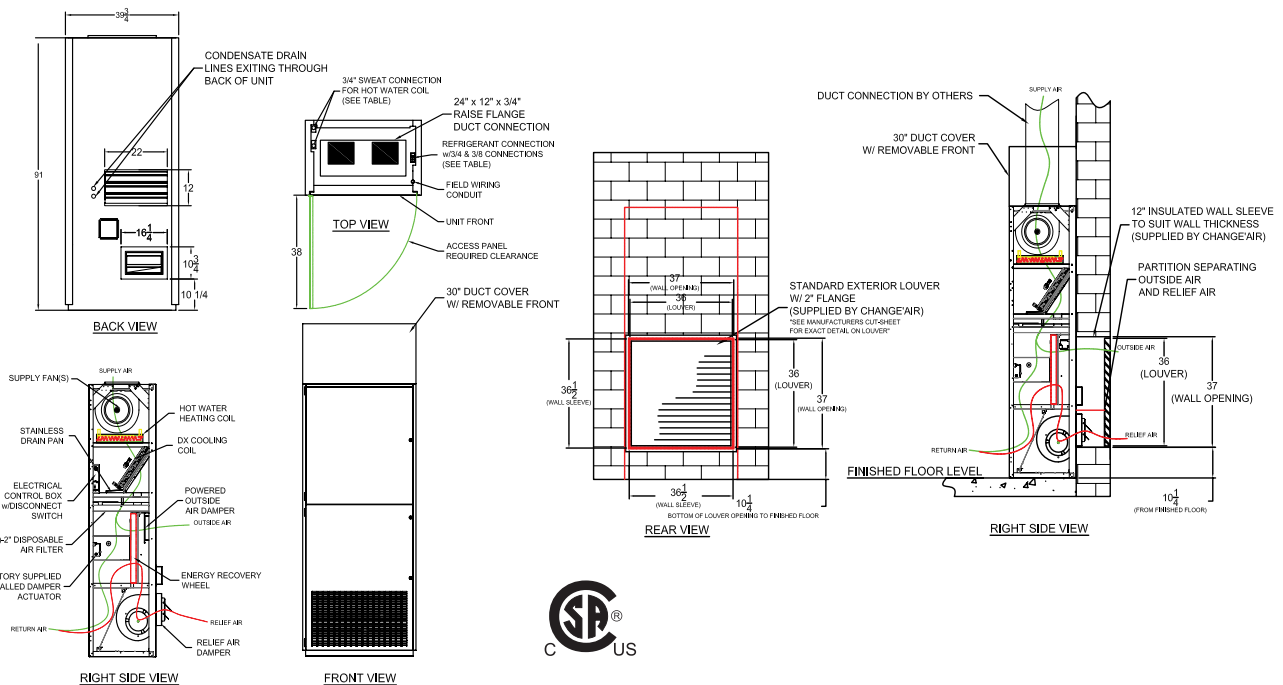
Changeair + provides all the features and benefits of a VRV heating cooling solution integrated with a market leading Vertical Unit Ventilator. Now you can have the best of everything: Class leading energy efficiency, National Code and LEED meeting ventilation rates, at astonishingly low acoustic levels; all in one easy to install Solution!

Intelligently Quiet VRV UVs supply superior sound performance with data you can trust from an accredited reverberant laboratory.

QUICK REFERENCE

Parameter	Cabinet B	Cabinet C
Acoustics	Standard Acoustical Sound Package or Intelligently Quiet (IQ) Sound Package	
Heating	Primary: Daikin Kit Split Variable Refrigerant Volume (VRV) Aux.: Hot Water, Electric, Steam, or Gas	
Cooling	Split Variable Refrigerant Volume (VRV)	
Energy Recovery	With or without energy recovery wheel	
Maximum Airflow	1,800 CFM	2,200 CFM
Dimensions	91"H x 39.75"W x 25"D	91"H x 46.75"W x 25"D
Filter, 1" or 2"	MERV 8 or 13	MERV 8 or 13
Voltage Options	Up to 460 / 3ph	Up to 460 / 3ph
Weight	750 lbs	950 lbs

TYPICAL DIAGRAM B CABINET



- **Unmatched sound performance**

With available Sound Power Data from an accredited reverberant Laboratory, NC 30 classrooms are a reality.

- **Flexible design**

HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms.

- **High efficiency performance**

Energy recovery wheel, EC Fans, COP, EER, VRV and Economizer efficiency options.

- **Many heating & cooling options**

VRV, hot water, steam, electric, high efficiency gas with or without chilled water, split DX heat & cooling choices.

- **Easy service**

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

- **Building management system (BMS)**

Factory Standalone or BACnet controls.

- **Warranty**

Backed by a one (1) year limited warranty, other options available upon request.



Changeair +

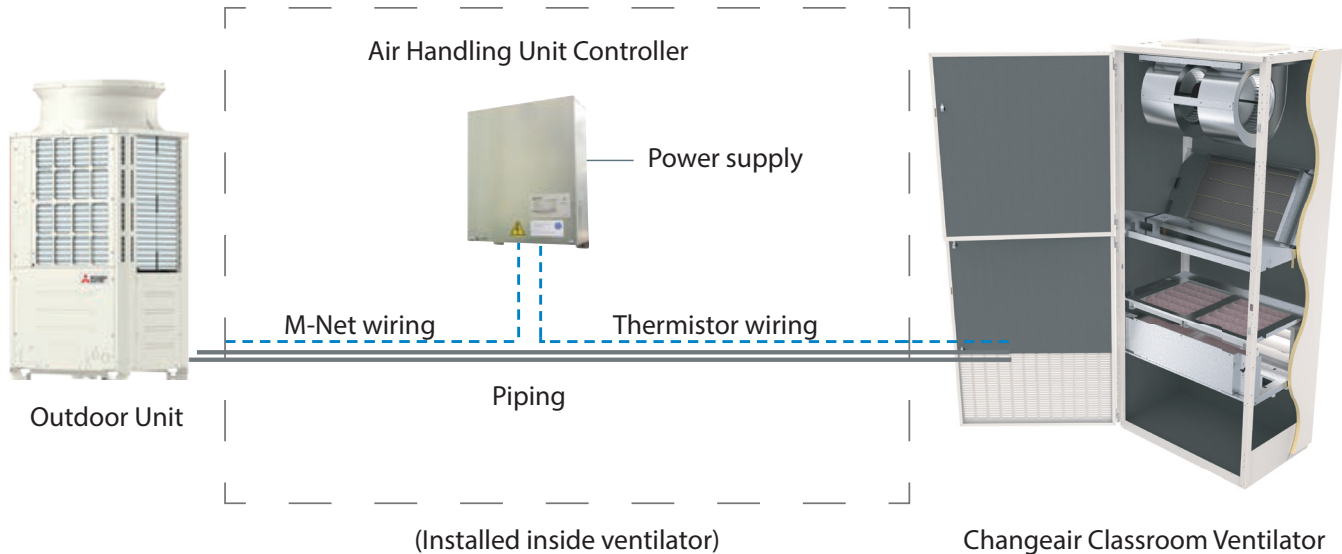
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Parameter	Cabinet B	Cabinet C
Acoustics	Standard Acoustical Sound Package or Intelligently Quiet (IQ) Sound Package	
Heating	Primary: Split Variable Refrigerant Flow (VRF) Aux.: Hot Water, Electric, Steam, or Gas	
Cooling	Split Variable Refrigerant Flow (VRF)	
Energy Recovery	With or without energy recovery wheel	
Maximum Airflow	1,800 CFM	2,200 CFM
Dimensions	91"H x 39.75"W x 25"D	91"H x 46.75"W x 25"D
Filter, 1" or 2"	MERV 8 or 13	MERV 8 or 13
Voltage Options	120V/1ph, 208-240/1ph, 230V/3ph, or 460/3ph	120V/1ph, 208-240/1ph, 230V/3ph, or 460/3ph
Weight	750 lbs	950 lbs



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- **Flexible design**
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- **High efficiency performance**
Energy recovery wheel, cores, EC Fans, COP, EER and Economizer efficiency options.
- **Many heating & cooling options**
VRV/F, hot water, steam, electric, high efficiency gas with or without chilled water, split DX heat & cooling choices.
- **Easy service**
All components are designed to facilitate maintenance, which ensures a long, reliable, stress-free operation.
- **Building management system (BMS)**
Select factory standalone or networked BACnet controls.
- **Warranty**
Backed by a one (1) year limited warranty, other options available upon request.

Changeair Cross-Flow Plate Unit

Classroom Air Handler - Integrated enthalpic cross-flow plate exchanger core

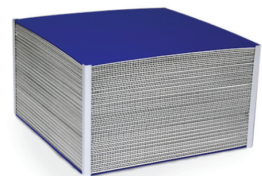


Changeair Energy Recovery Ventilator

Class leading acoustics, industry leading performance

Some of the world's best products are a combination of two great things: peanut butter and chocolate, phone and a camera, french fries and ketchup; Sysemair brings you Changeair with an integrated cross-flow plate exchanger core.

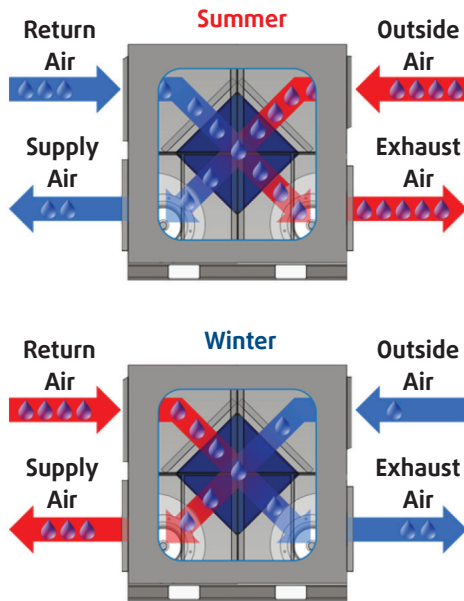
Configure your Changeair unit with gas, hot water, electric or VRF heat, add optional non compressorized cooling and gain the zero crossover, enthalpic recovery benefits of patented polymer membrane technology.



Quick reference

Parameter	Unit	Compatible with Freshman Units
Voltage	V/-	120/1/60 Up to 460/3/60
Maximum airflow	-	up to 2,200 cfm
Recovery	-	Recovery: Cross-flow plate exchanger (enthalpy or total)
Effectiveness	-	Sensible Effectiveness = 60% Total Effectiveness = 50%
Heating	-	Primary: 80 or 40 MBH *93% High Efficiency Gas, Hot Water, Electric or VRF
Cooling	-	VRF Kit Split Variable Refrigerant Flow, Split DX, Chilled Water or none
Filters 2"	-	MERV 8 to 13

* As tested for Thermal Efficiency in accordance with the 10-CFR - §431.76 "Uniform test method for the measurement of energy efficiency of commercial warm air furnaces" and the relevant procedures in ANSI Z21.47/CSA 2.3-2012 "Standard for Gas-fired Central Furnaces," and ANSI/ASHRAE Standard 103-2007, "Method of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers" (incorporated by reference) .



- **Patented Polymer Membrane**
Blocks odors, viruses, and VOCs while facilitating the transport of heat and water vapor, AHRI 1060 certified
- **Unmatched Sound Performance**
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- **Flexible Applications**
HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms
- **High Efficiency Unit**
Energy recovery wheel, ERV HRV Cores EC Fans, COP, EER, VRV/F and Economizer efficiency options
- **Many Heating & Cooling Choices**
High Efficiency Gas, VRV/F, Hot Water, with or without Chilled Water, Split DX, Cooling Choices
- **Easy Service**
All components are designed to facilitate maintenance, which ensures a long, reliable operation
- **Building Management System (BMS)**
Factory Standalone or BACnet controls
- **Warranty**
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Changeair Variable Refrigerant Flow

The Sound Leader for Classroom Ventilation

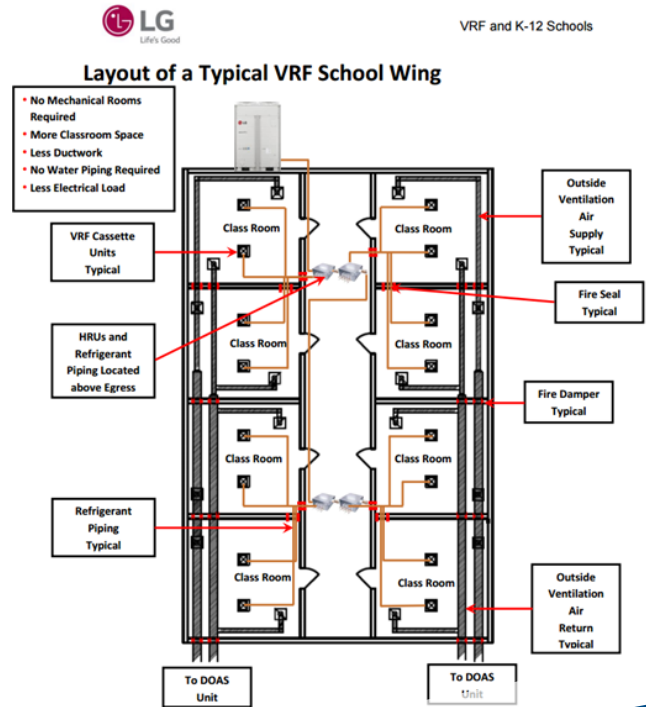
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Quick reference

Parameter	Unit	Cabinet B - 91" h x 39.75" w x 25" d	Cabinet C - 91" h x 46.75" w x 25" d
Voltage	V / ~	Up to 460 / 3	
Maximum airflow	cfm	up to 1,800	up to 2,400
Heating	-	Primary LG VRF Kit Split Variable Refrigerant Flow Aux. Hot water, Steam, 94% Efficiency Gas or Electric	
Cooling	-	LG VRF Kit Split Variable Refrigerant Flow	
Design types	-	Acoustic: Standard or Intelligently Quiet Recovery: Standard or energy recovery wheel	
Filter, 2" or 4"	-	MERV 8 or 13	
Weight	lbs	750	950



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- **Flexible Applications**

HVAC performance suitable for classrooms, office spaces, gyms, workshops and meeting rooms

- **High Efficiency Unit**

Energy recovery wheel, EC Fans, COP, EER, VRF and Economizer efficiency options

- **Many Heating & Cooling Choices**

VRF, Hot Water, Steam, Electric, High Efficiency Gas with or without Chilled Water, Split DX Heat & Cooling Choices

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