

XCHANGE Energy Recovery

XCM-COMPACT MULTIFLOW ERV

XCM325C1 Technical Data



Technical Specifications

Nominal Airflow

Supply Air (l/sec)	325
Return Air (l/sec)	325

Supply Fan

Fan Type	Forward Curved Centrifugal
Fan Motor	Direct Drive
Motor Power (Watts)	425
External Static (Pa)	200
Speeds	3
Max Fan Speed (rpm)	1350
Motor Protection	Thermal Overload

Exhaust Fan

Fan Type	Forward Curved Centrifugal
Fan Motor	Direct Drive
Motor Power (Watts)	425
External Static (Pa)	200
Speeds	3
Max Fan Speed (rpm)	1350
Motor Protection	Thermal Overload

Electrical

Supply Fan (A)	3.6
Exhaust Fan (A)	3.6
Nominal Run Current (A)	7.2
Maximum Full Load (A)	8.0
Volt/Phase	240V/1ph
Connection	Lead & Plug

Controls

240V Controls	Included
Fan Fault	Not available

Heat Exchanger

*Rated at standard conditions of 35.5° db/24.0° wb

Enthalpy Media	Standard (Model XCM325C1E)
Sensible Media	Available (Model XCM325C1S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.63
Pressure Drop (Pa)	86.6
Kw Recovered (Cooling)*	4.30
Kw Recovered (Heating)*	5.49

Cabinet Construction

Casing	Galvanised Metal
Insulation Thickness (mm)	15/25mm
Hanging Brackets	Included

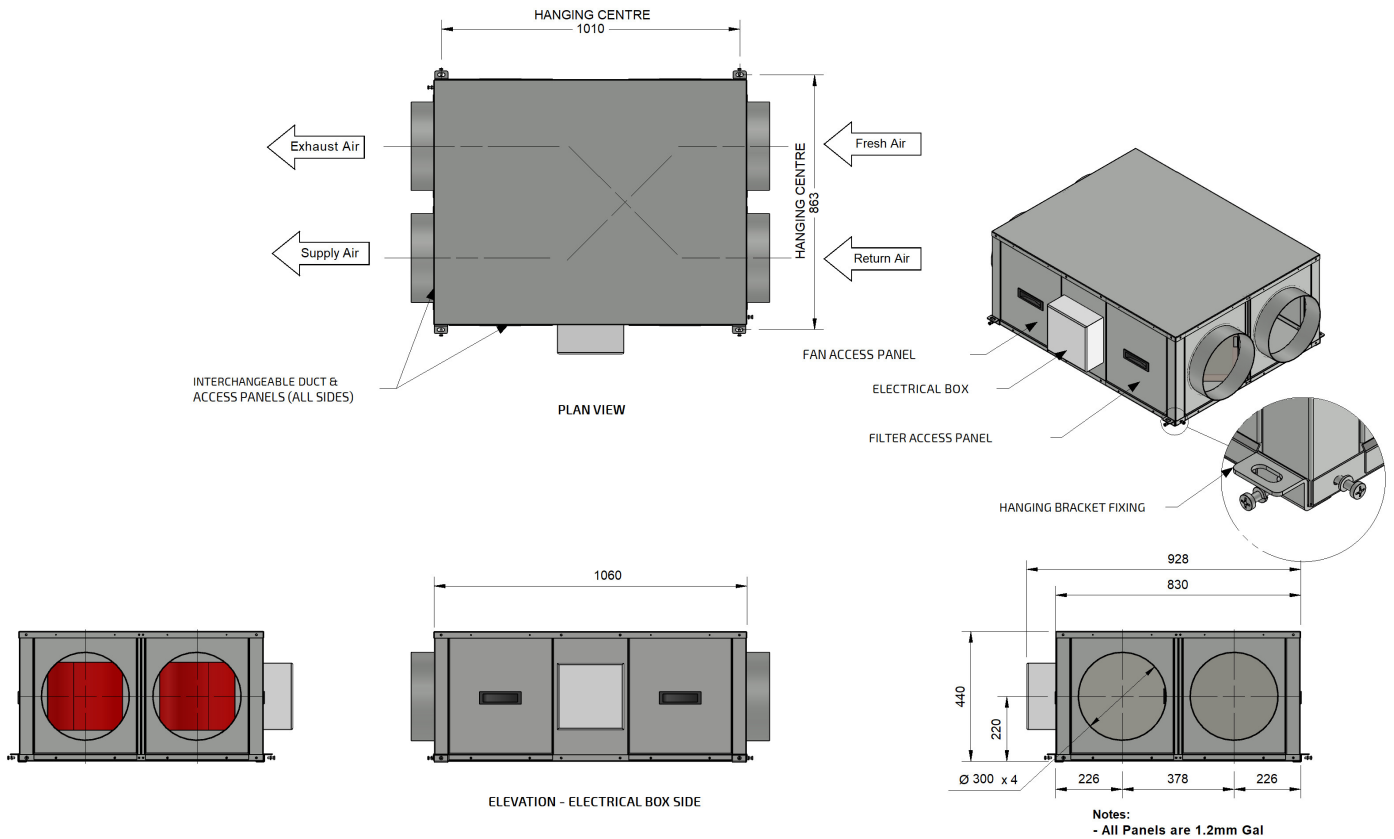
Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	495 x 395 x 45
Number of Filters	2

Options

Internal Drain Tray	Available (Model XCM325C1-T)
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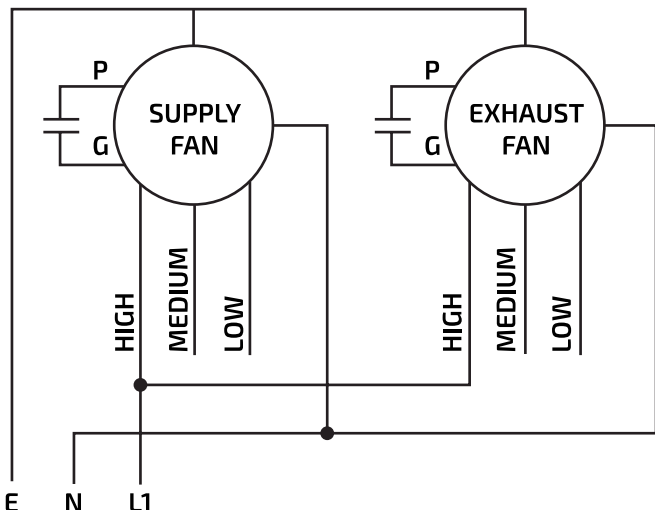
Technical Drawings – XCM325C1



Dimensions	
Height (mm)	440
Width (mm)	830
Length (mm)	1060
Weight (Kg)	90
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

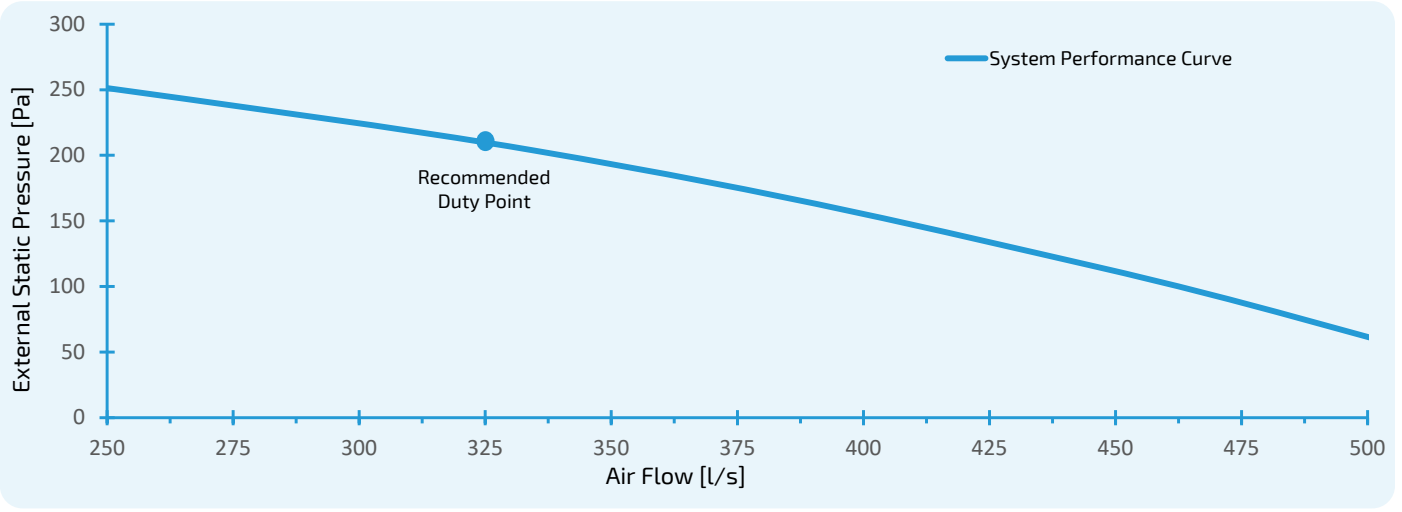
Duct Sizes	
Exhaust Air (mm)	300 Ø
Return Air (mm)	300 Ø
Supply Air (mm)	300 Ø
Fresh Air (mm)	300 Ø

Wiring Diagram



Electrical Connections		
E	Earth	Green/Yellow
N	Neutral	Blue
L	Active	Brown
H	High Speed	Brown
M	Medium Speed	Grey/Orange
L	Low Speed	White

Fan Performance Data

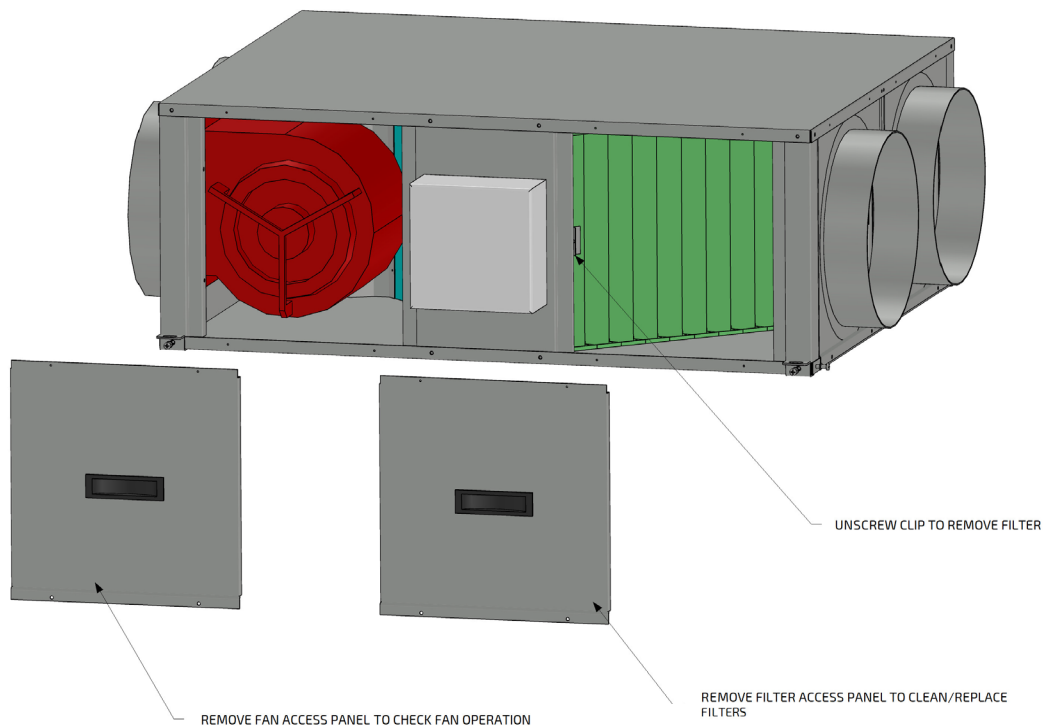


Sound Power Levels*

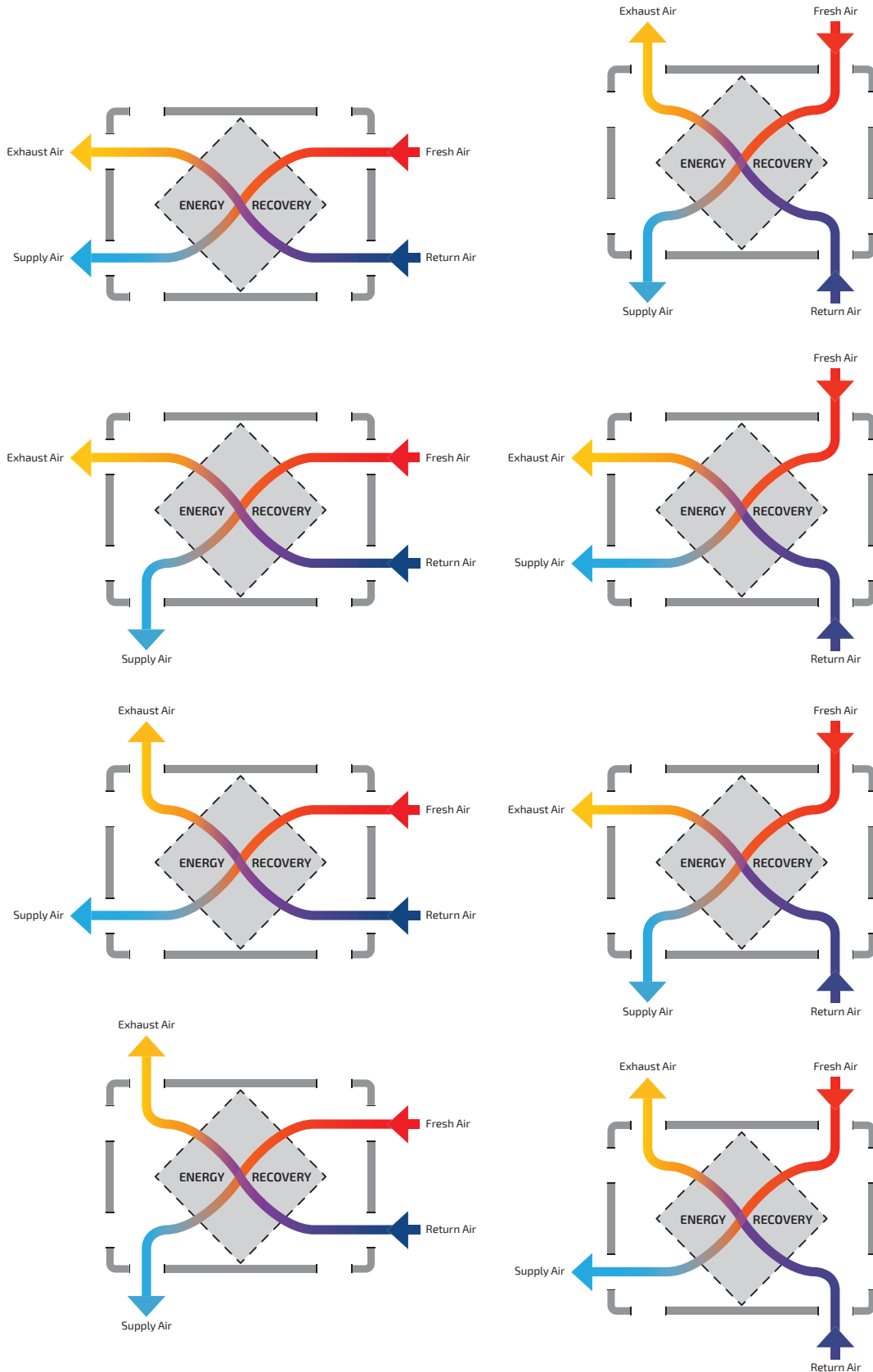
Inlet Rating dB		Outlet Rating dB	
63 Hz	64	63 Hz	66
125 Hz	61	125 Hz	63
250 Hz	70	250 Hz	70
500 Hz	68	500 Hz	70
1k Hz	64	1k Hz	70
2k Hz	63	2k Hz	71
4k Hz	61	4k Hz	67
8k Hz	55	8k Hz	60
LwA	71	LwA	76

* Sound Power Levels Recommended Operating Point.

Filter and Fan Access



Ductwork Connections



RETURN AIR: Air that is drawn from conditioned areas.

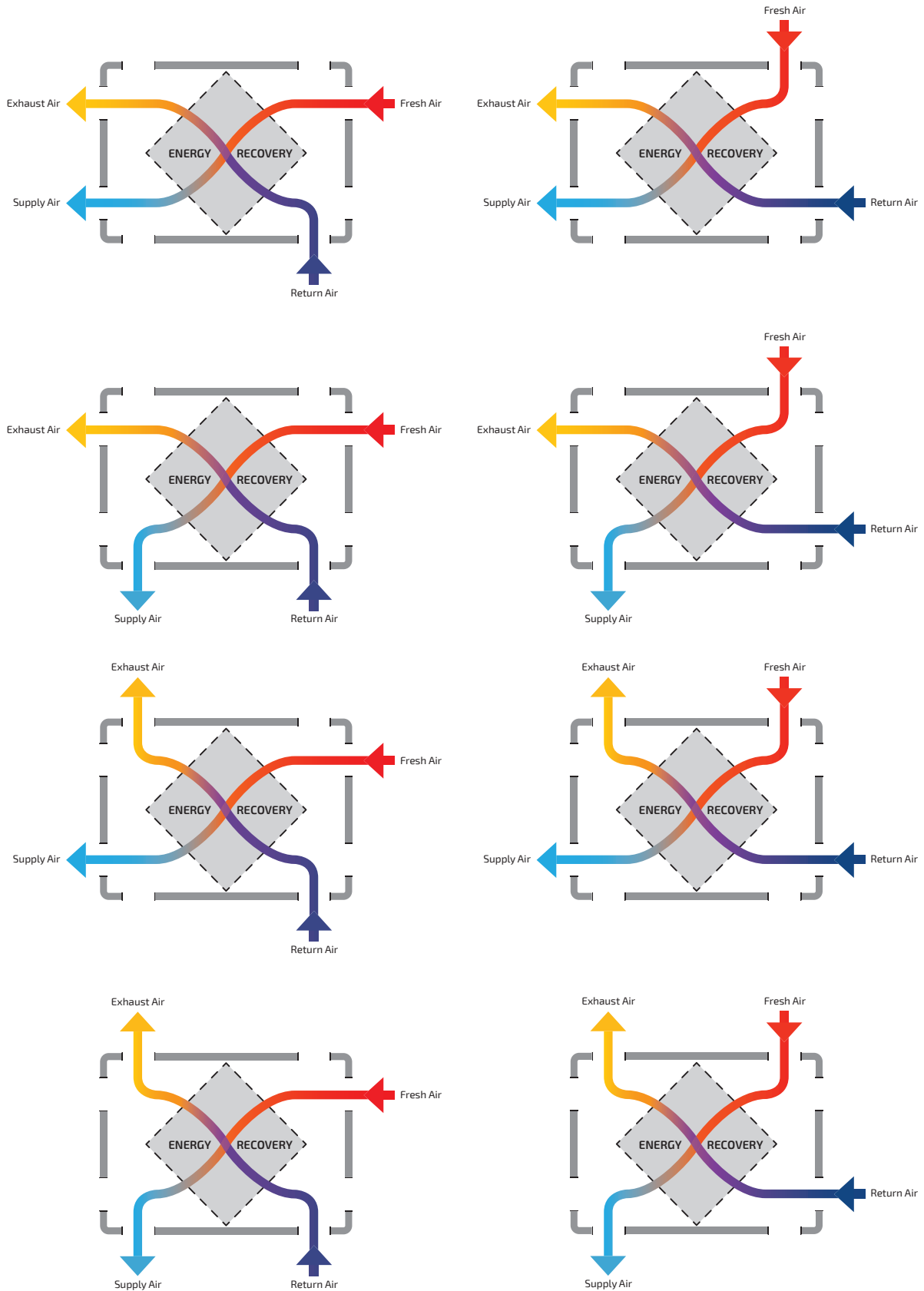
EXHAUST AIR: Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

FRESH AIR: Use a fresh air cowl or grill to introduce fresh air.

SUPPLY AIR: Connect to the airconditioning system or directly into the conditioned area.

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