

XCHANGE Energy Recovery

XCC-COMPACT MULTIFLOW ERV WITH COILS

XCC425P1 Technical Data



Technical Specifications

Nominal Airflow

Supply Air (l/sec)	425
Return Air (l/sec)	425

Supply Fan

Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	500
External Static (Pa)	250
Fan Diameter	250
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

Exhaust Fan

Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	500
External Static (Pa)	250
Fan Diameter	250
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

Electrical

Supply Fan (A)	1.6
Exhaust Fan (A)	1.6
Nominal Run Current (A)	3.2
Maximum Full Load (A)	4.6
Volt/Phase	240V/1ph
Connection	Lead & Plug

Controls

0-10V DC (Fan Control)	Included
24V AC Control	Included
Fan Fault	Only Available

Heat Exchanger

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

Enthalpy Media	Standard (Model XCC425P1E)
Sensible Media	Available (Model XCC425P1S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.77
Pressure Drop (Pa)	112.3
Kw Recovered (Cooling)*	5.79
Kw Recovered (Heating)*	7.43

Cabinet Construction

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

Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	595 x 395 x 45
Number of Filters	2

Options

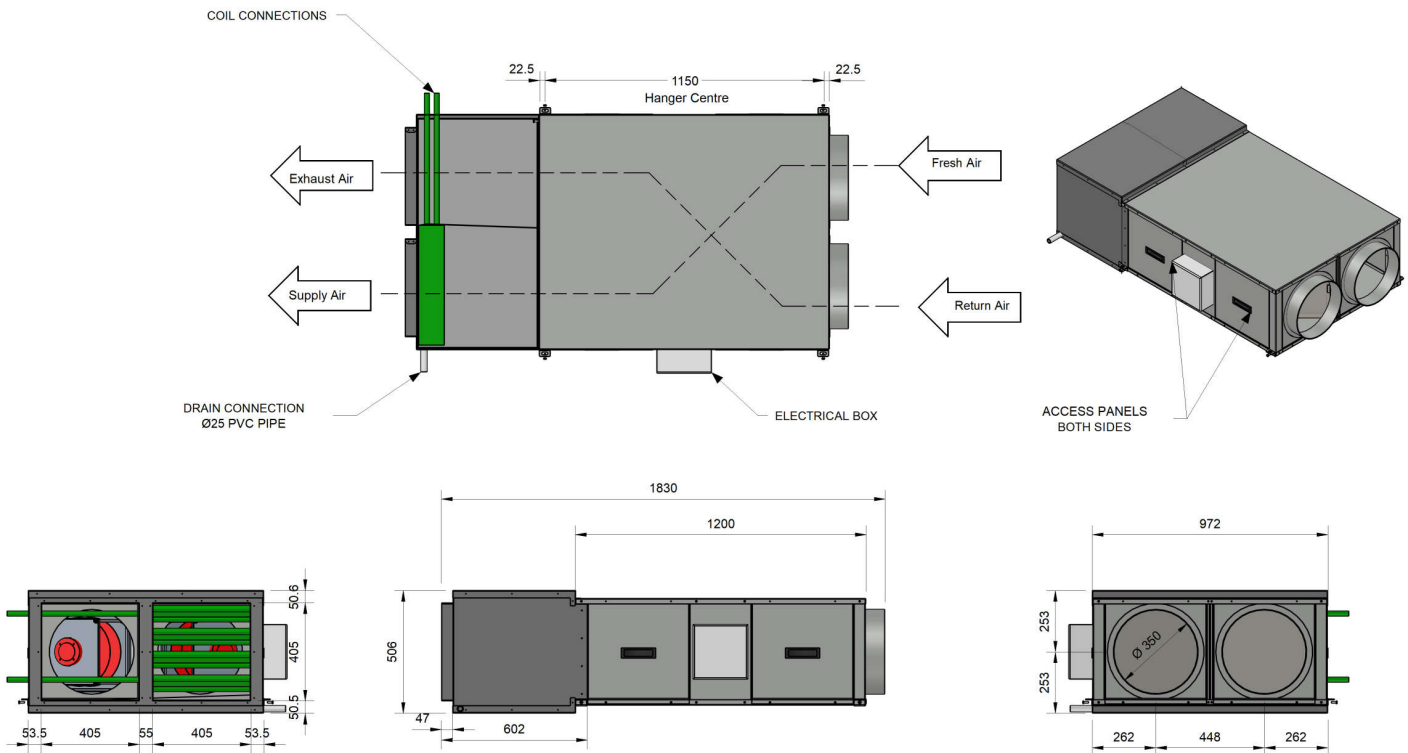
Hot Water Coil	Available (Model XCC425P1-H)
Chilled Water Coil	Available (Model XCC425P1-C)
Hot & Chilled Water	Available (Model XCC425P1-CH)
DX Coil	Available (Model XCC425P1-D)
Remote Condenser	Available (Model XCC425-RC)
Internal Drain Tray	Available (Model XCC425P1-T)

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Technical Drawings – XCC425P1



Notes:
 - All Panels are 1.2mm gal
 - Minimum 600mm Clearance Required from Access Panel

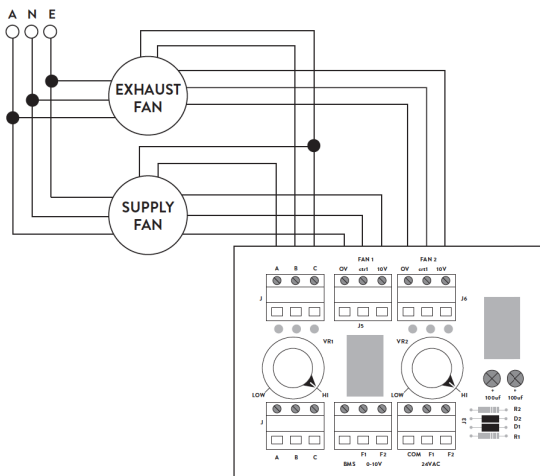
Dimensions

Height (mm)	506
Width (mm)	972
Length (mm)	1830
Weight (Kg) excl. coils	150
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

Duct Sizes

Exhaust Air (mm)	405 x 405 Square
Return Air (mm)	350 Ø
Supply Air (mm)	405 x 405 Square
Fresh Air (mm)	350 Ø

Wiring Diagram



FIELD CONNECTIONS

OPTION 1

0-10V DC CONTROL VIA CONNECTION TO BMS
 0V = STOP / 1.5V = START / 10V = FULL SPEED

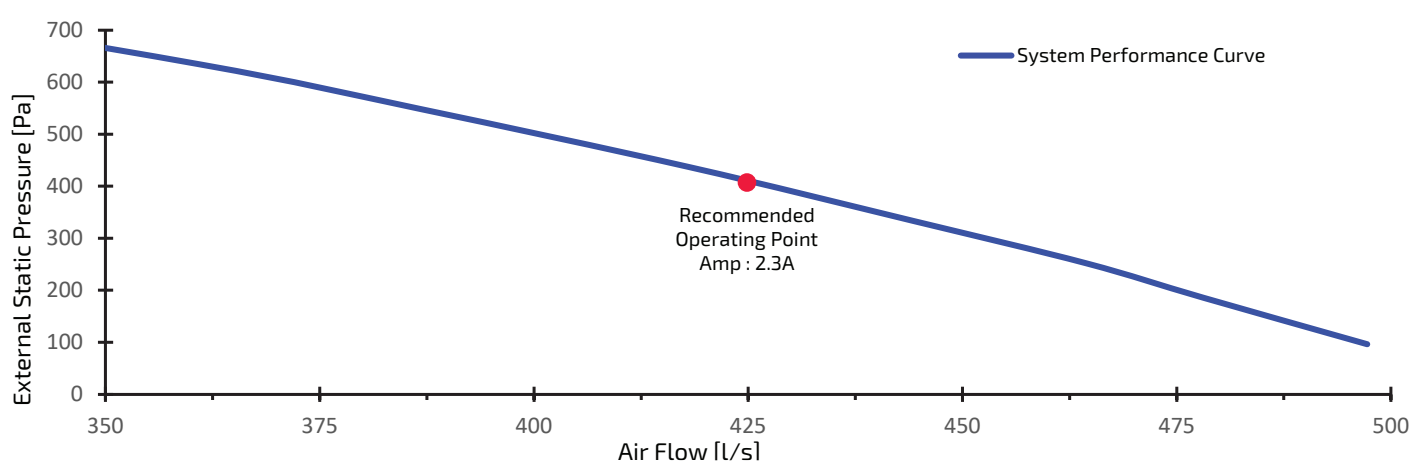
OPTION 2

24V AC ENABLE REGULATE FAN SPEED VIA POTS
 EXTERNAL 24V PROVIDED BY OTHERS

Do not turn main power on/off to enable/disable the unit operation. This must be done through the control circuit.

FAN FAULT NOT AVAILABLE.

Fan Performance Data

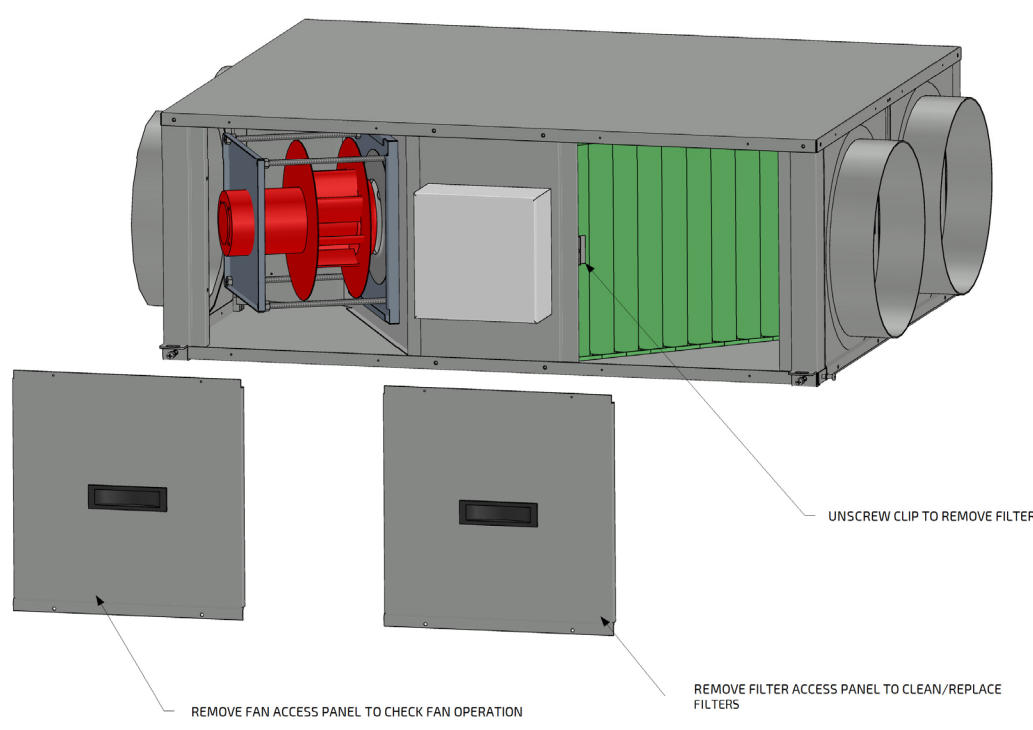


Sound Power Levels*

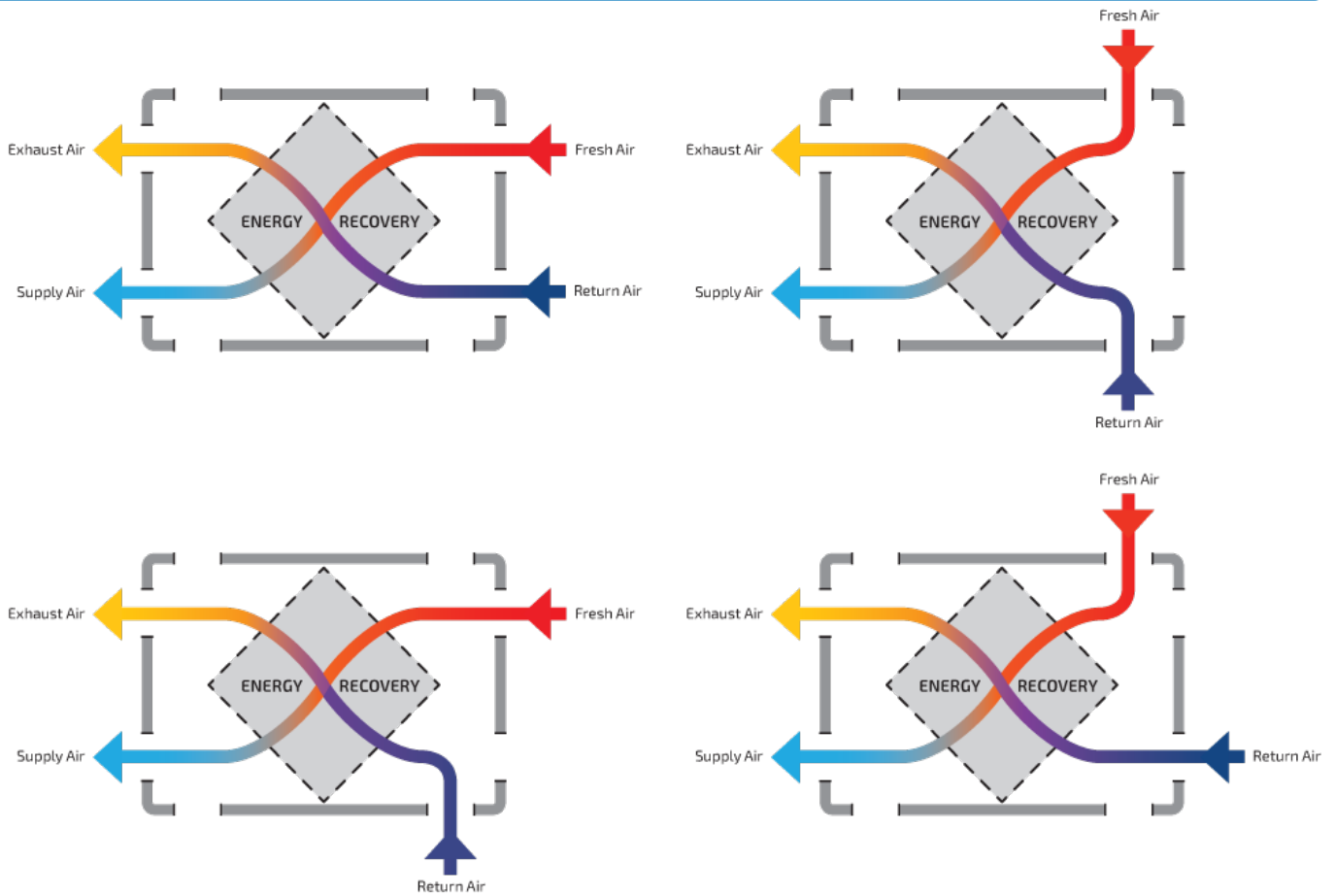
Inlet Rating dB		Outlet Rating dB	
63 Hz	69	63 Hz	71
125 Hz	62	125 Hz	64
250 Hz	69	250 Hz	71
500 Hz	78	500 Hz	80
1k Hz	70	1k Hz	72
2k Hz	63	2k Hz	65
4k Hz	53	4k Hz	55
8k Hz	62	8k Hz	64
LwA	80	LwA	82

* 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.

