

# XCHANGE Energy Recovery

## XCM-COMPACT MULTIFLOW ERV

### XCM625C1 Technical Data



#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	625
Return Air (l/sec)	625

##### Supply Fan

Fan Type	Forward Curved Centrifugal
Fan Motor	Direct Drive
Motor Power (Watts)	750
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)	750
External Static (Pa)	200
Speeds	3
Max Fan Speed (rpm)	1350
Motor Protection	Thermal Overload

##### Electrical

Supply Fan (A)	4.9
Exhaust Fan (A)	4.9
Nominal Run Current (A)	9.8
Maximum Full Load (A)	13.0
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
Sensible Media	Available
Corrosion Resistant Media	Available
Velocity (m/sec)	1.95
Pressure Drop (Pa)	162.6
Kw Recovered (Cooling)*	9.03
Kw Recovered (Heating)*	11.65

##### Cabinet Construction

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

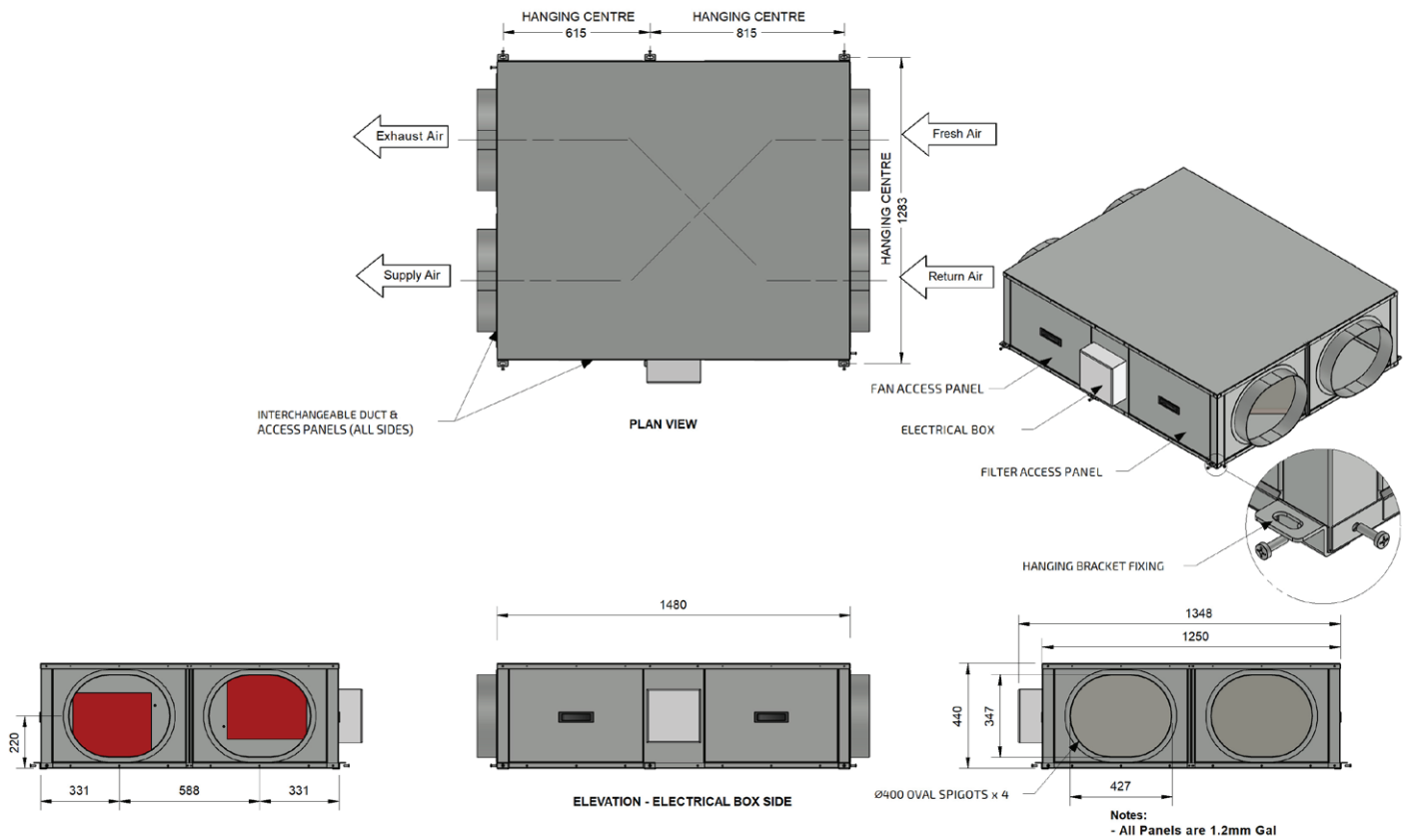
##### Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	795 x 395 x 45
Number of Filters	2

##### Options

Hot Water Coil	Available (Model XCC625)
Chilled Water Coil	Available (Model XCC625)
Internal Drain Tray	Available (CM-MT625)

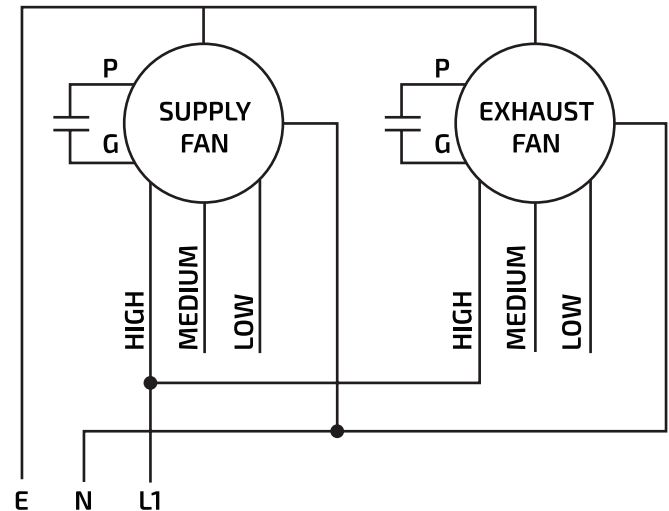
Technical Drawings – XCM625C1



Dimensions	
Height (mm)	440
Width (mm)	1250
Length (mm)	1480
Weight (Kg)	120
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

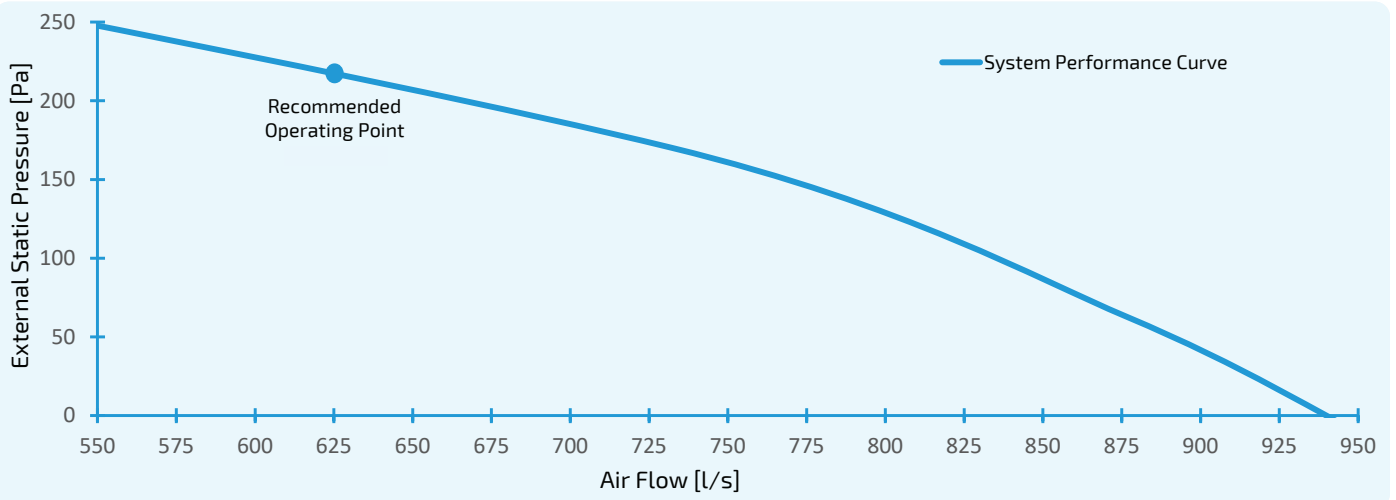
Duct Sizes	
Exhaust Air (mm)	400 Ø Oval
Return Air (mm)	400 Ø Oval
Supply Air (mm)	400 Ø Oval
Fresh Air (mm)	400 Ø Oval

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



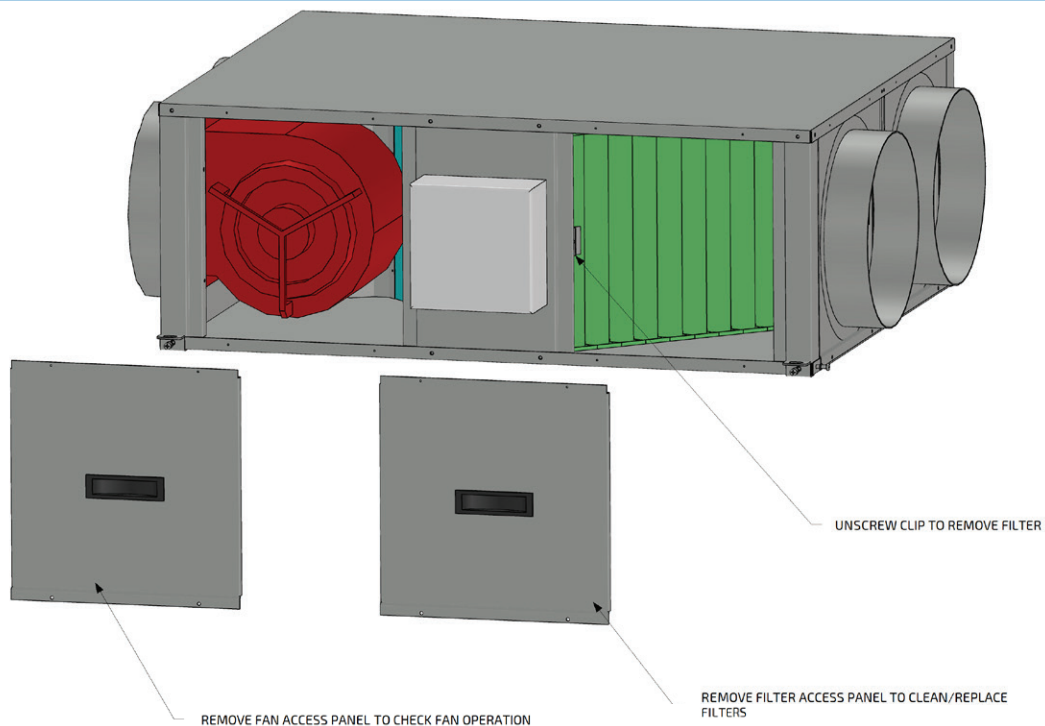
### Sound Power Levels\*

#### Outlet Rating dB

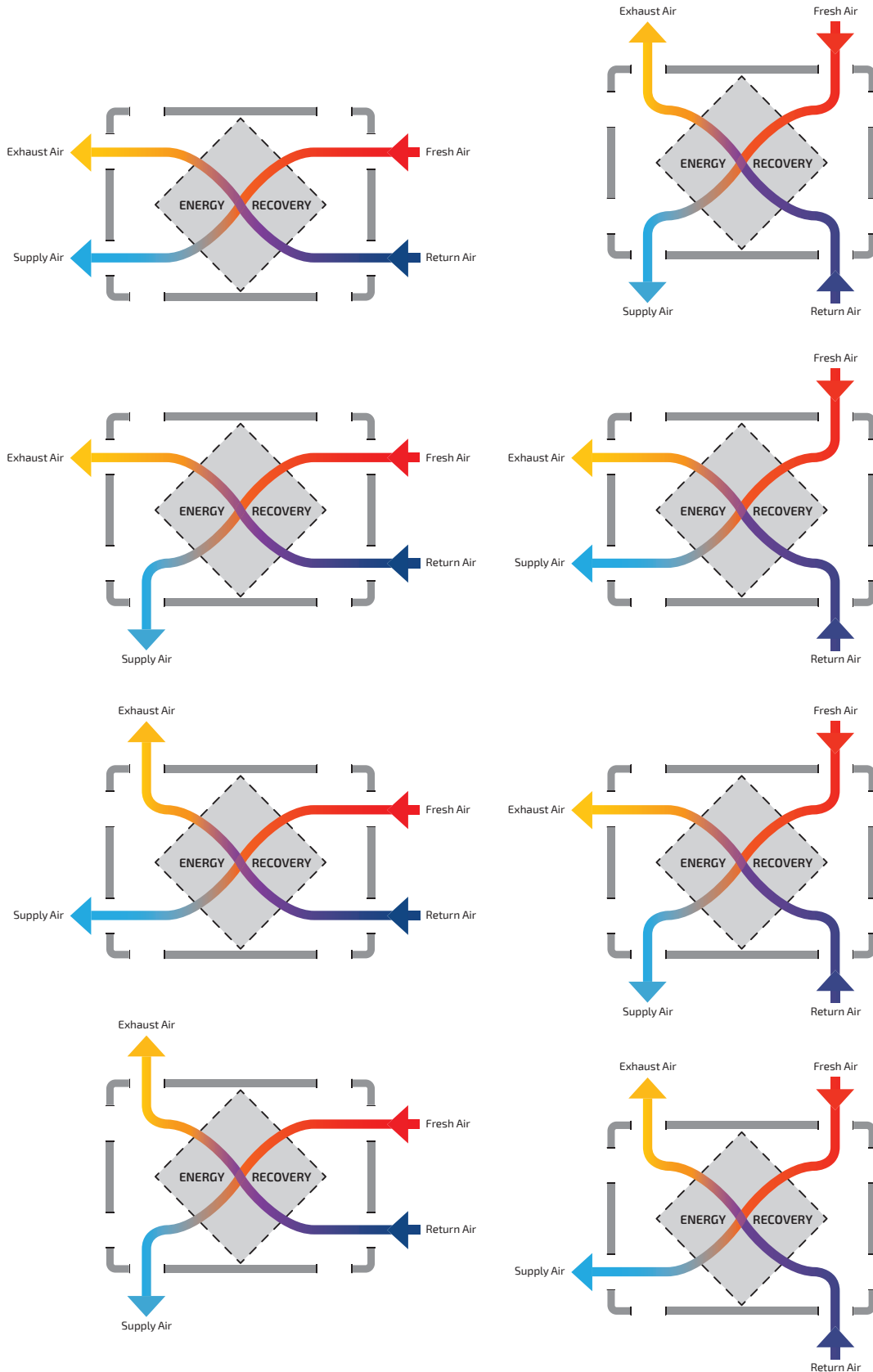
63 Hz	74
125 Hz	85
250 Hz	87
500 Hz	78
1k Hz	76
2k Hz	74
4k Hz	71
8k Hz	67
LwA	83

\* Sound Power Levels Recommended Operating Point.

### Filter and Fan Access



Ductwork Connections



**RETURN AIR:** Air that is drawn from conditioned areas.

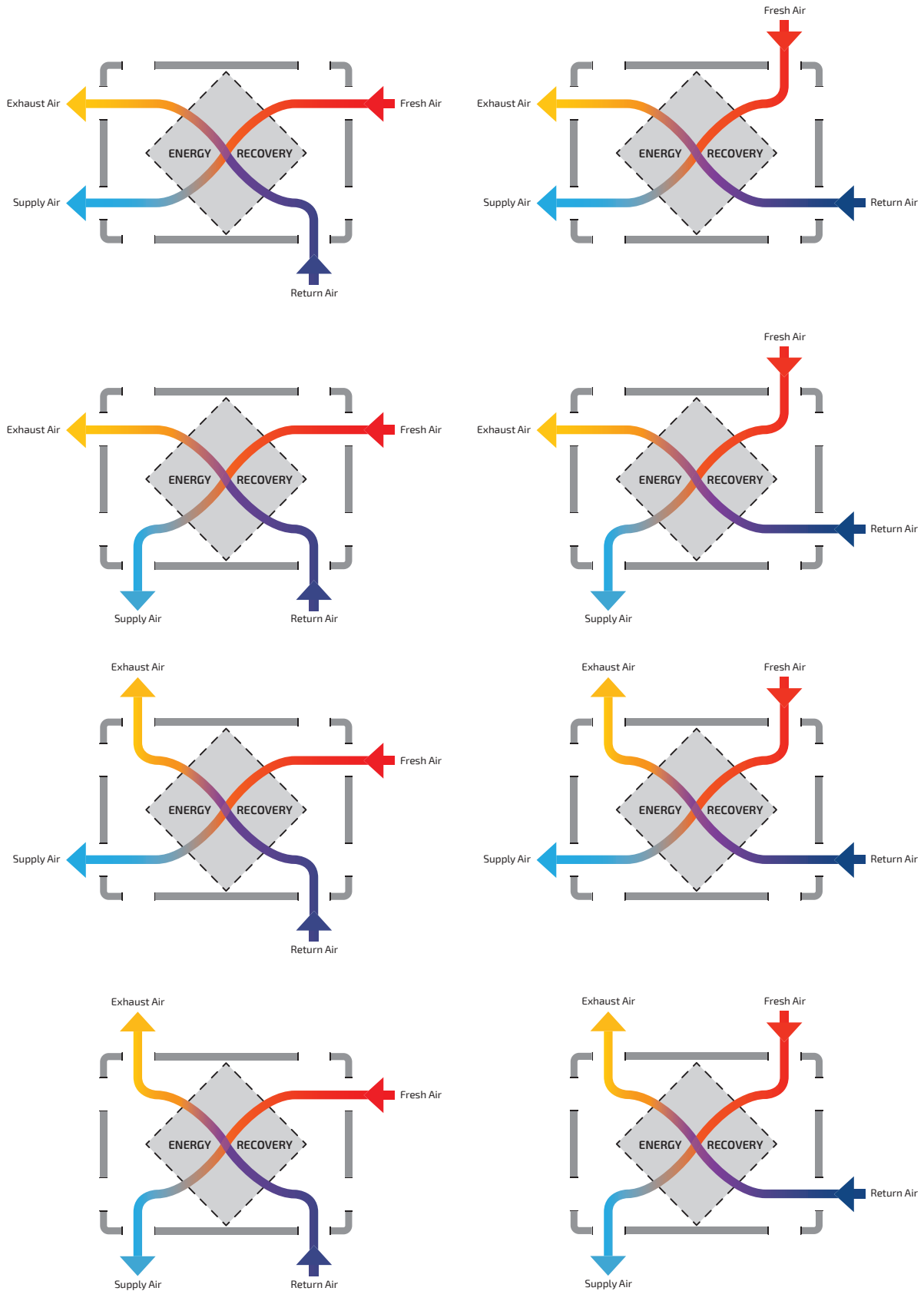
**EXHAUST AIR:** Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

**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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