



Railway/Metro Air Conditioning

CRW006, CRW030 & CRW030



CRW006

It is resistant to environmental conditions originating from outdoor sources.

Compact Monoblock Design

Low Weight And Low Dimensions

Double power supply option (AC – DC)

Project oriented mechanical design for full physical compatibility

Single And Double Circuit Options

Teamwork And Redundancy capability

High Strength And Durability with monoblock Aluminum Case

Long lifetime with High Quality Components

Low Noise Level And Energy Efficiency with EC Fans

Operation capability at extreme air conditions

Perfect Compatibility To Vehicle automation system with special Control System design

Alternative refrigeration options according to F-GAS directions

Fresh air regulation capability up to %100 fresh air

Service Interface without any maintenance software with embedded web server

Canopen, Modbus, Sntp, Bacnet protocols support

GENERAL DATA

Model	CRW006
Primary Circuit Type	Direct Expansion Air Cooled
Circuit Type	Single Circuit
Refrigerant	R407C

MAIN CIRCUIT

Return Air Temperature	°C	22
Outdoor Air Temperature	°C	35
Relative Humidity	%	50
Altitude	m	-
Air Flow	m³/h	2500
ESP (External Static Pressure)	Pa	20

COOLING PERFORMANCE AT DESIGN CONDITIONS

Gross Cooling Capacity	kW	7.71
Net Sensible Cooling Capacity	kW	6.89
SHR	kW/kW	0.90
EER	kW/kW	2.03
Total Power Input	kW	3.39
Outlet Air Temperature	°C	13.80
Outlet Air Relative Humidity	%	79.40

COOLING UNIT



COMPRESSOR(S)

Compressor Type		On/Off Scroll
Quantity	Nº	1
Power Consumption	kW	2.55
Nominal Operating Current	A	3.02

ELECTRICAL HEATER

Steps	Nº	3
Capacity	kW	6.00
Maximum Absorbed Current (FLA)	A	3x9.1
Power Supply	V/ph/Hz	3x220 / 1 / 150

FAN(S)

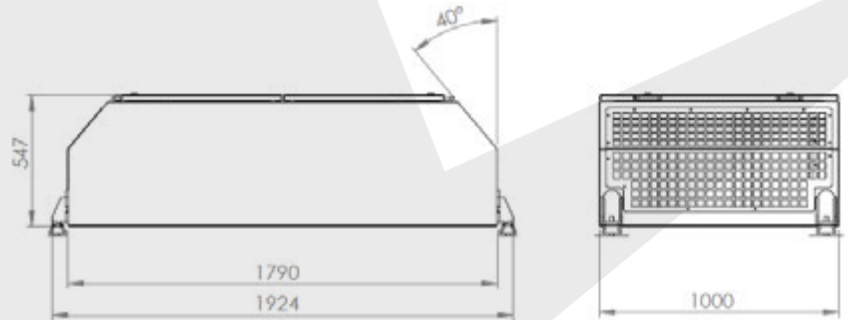
Fan Type		EC Radial
Quantity	Nº	1
Air Flow (Total)	m³/h	2500
Fans Power Input	kW	0.34
Nominal Operating Current	A	0.53

ELECTRICAL PANEL

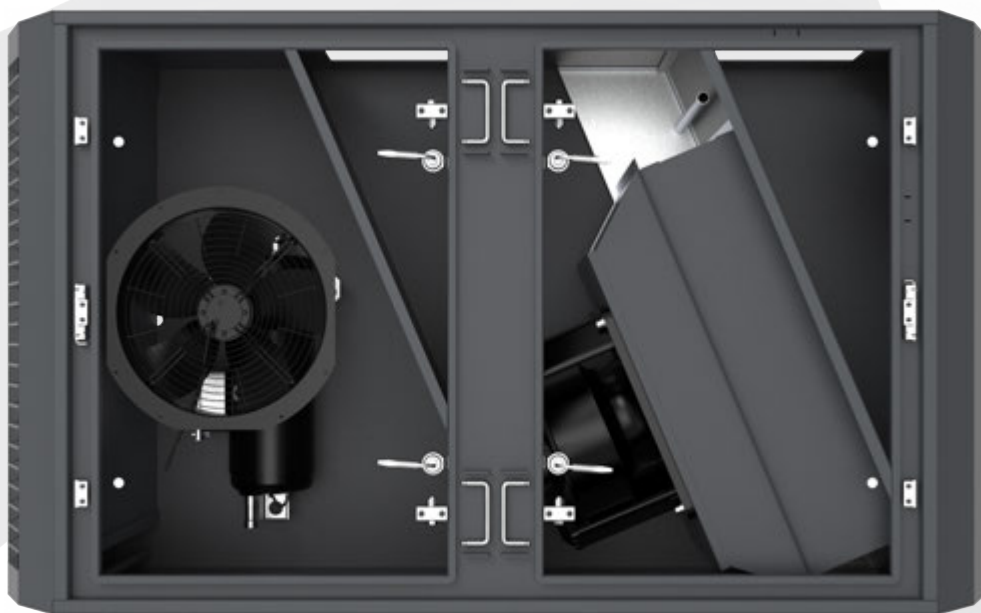
Nominal Operating Current	A	4.58
Maximum Operating Current	A	10.69
Nominal Power Consumption	kW	3.39
Power Supply	V/ph/Hz	380 / 3 / 50 AC & 110 VDC

WEIGHT & DIMENSIONS

Width	mm	1000
Depth	mm	1924
Height	mm	547
Weight	kg	570



ACCESSORIES



ACCESSORIES

Filter Type	G4	
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NOISE DATA

Sound Pressure	dB	75
Distance	m	7.5

CONDENSER

Code	CFH2310	
Quantity	Nº	1
Circuit(s)	Nº	1
Condensing Temperature	°C	50
Air Flow	m³/h	3750
Rejection Capacity	kW	10.29
Power Supply	V/Ph/Hz	400 / 3 / 50
Electrical Power Consumption (Total)	kW	0.50
Nominal Absorbed Current (Total)	A	1.03
Maximum Absorbed Current (Total)	A	1.70

COMPONENTS



COMPRESSOR

Type	Scroll
Description	Horizontal Refrigeration Compressor

EVAPORATOR FAN

Type	EC Radial
Description	Backward Curved



COMPRESSOR

Type	AC Axial
Description	Sickle Shaped Blades

CRW030

It is resistant to environmental conditions originating from outdoor sources.

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Canopen, Modbus, Snmp, Bacnet protocols support

GENERAL DATA

Model	CRW030
Primary Circuit Type	Direct Expansion Air Cooled
Circuit Type	Double Circuit
Refrigerant	R407C

MAIN CIRCUIT

Return Air Temperature	°C	22
Outdoor Air Temperature	°C	35
Relative Humidity	%	50
Altitude	m	-
Air Flow	m³/h	4500
ESP (External Static Pressure)	Pa	20

COOLING PERFORMANCE AT DESIGN CONDITIONS

Gross Cooling Capacity	kW	33.10
Net Sensible Cooling Capacity	kW	28.88
SHR	kW/kW	0.87
EER	kW/kW	2.28
Total Power Input	kW	12.64
Outlet Air Temperature	°C	12.50
Outlet Air Relative Humidity	%	84.90

COOLING UNIT



COMPRESSOR(S)

Compressor Type		On/Off Scroll
Quantity	N°	2
Power Consumption	kW	10.38
Nominal Operating Current	A	17.94

ELECTRICAL HEATER

Steps	N°	3
Capacity	kW	13.5
Maximum Absorbed Current (FLA)	A	3 x 20.45
Power Supply	V/ph/Hz	3 x 220 / 1 / 50

FAN(S)

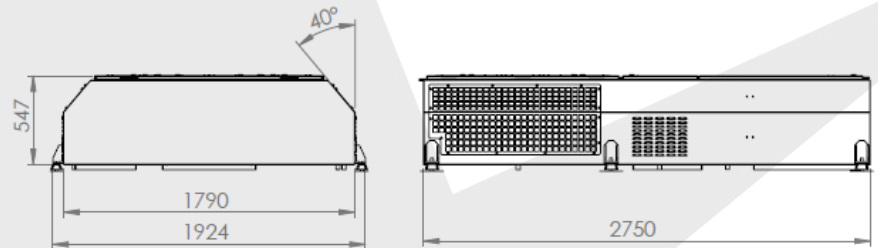
Fan Type		EC Radial
Quantity	N°	2
Air Flow (Total)	m³/h	4500
Fans Power Input	kW	0.70
Nominal Operating Current	A	2.12

ELECTRICAL PANEL

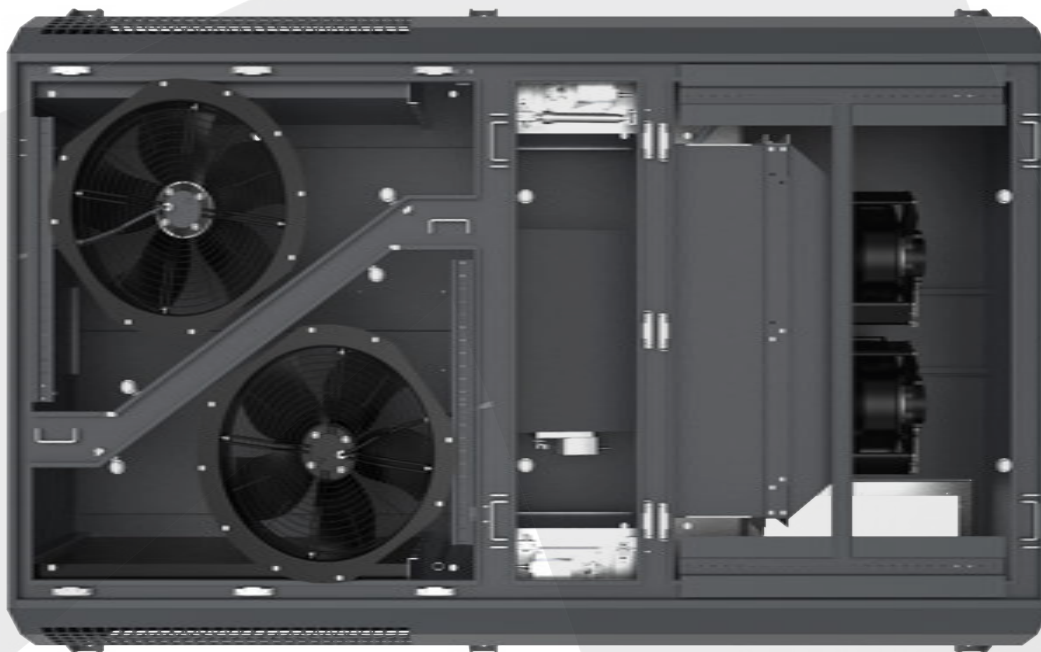
Nominal Operating Current	A	23.00
Maximum Operating Current	A	35.15
Nominal Power Consumption	kW	12.64
Power Supply	V/ph/Hz	380 / 3 / 50 AC & 110 VDC

WEIGHT & DIMENSIONS

Width	mm	2750
Depth	mm	1924
Height	mm	547
Weight	kg	570



ACCESSORIES



ACCESSORIES

Filter Type	G4	
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NOISE DATA

Sound Pressure	dB	75
Distance	m	7.5

CONDENSER

Code	CFH2320	
Quantity	N°	2
Circuit(s)	N°	1
Condensing Temperature	°C	50
Air Flow	m³/h	6600
Rejection Capacity	kW	20.35
Power Supply	V/Ph/Hz	400 / 3 / 50
Electrical Power Consumption (Total)	kW	1.56
Nominal Absorbed Current (Total)	A	2.94
Maximum Absorbed Current (Total)	A	3.40

COMPONENTS



COMPRESSOR

Type	Scroll
Description	Horizontal Refrigeration Compressor

EVAPORATOR FAN

Type	EC Radial
Description	Backward Curved



COMPRESSOR

Type	AC Axial
Description	Sickle Shaped Blades

CRW035

It is resistant to environmental conditions originating from outdoor sources.

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Canopen, Modbus, Snmp, Bacnet protocols support

GENERAL DATA

Model	CRW035
Primary Circuit Type	Direct Expansion Air Cooled
Circuit Type	Double Circuit
Refrigerant	R134a

MAIN CIRCUIT

Return Air Temperature	°C	28
Outdoor Air Temperature	°C	35
Relative Humidity	%	40
Altitude	m	-
Air Flow	m³/h	3600
ESP (External Static Pressure)	Pa	50

COOLING PERFORMANCE AT DESIGN CONDITIONS

Gross Cooling Capacity	kW	36,96
Net Sensible Cooling Capacity	kW	20,9
SHR	kW/kW	0,56
EER	kW/kW	1,368
Total Power Input	kW	15,272
Outlet Air Temperature	°C	12,5
Outlet Air Relative Humidity	%	95,1

COOLING UNIT



COMPRESSOR(S)

Compressor Type		On/Off Scroll
Quantity	N°	2
Power Consumption	kW	12,54
Nominal Operating Current	A	23,28

ELECTRICAL HEATER

Steps	N°	3
Capacity	kW	21
Maximum Absorbed Current (FLA)	A	28
Power Supply	V/ph/Hz	750 VDC

FAN(S)

Fan Type		EC Radial
Quantity	N°	2
Air Flow (Total)	m³/h	3600
Fans Power Input	kW	0,748
Nominal Operating Current	A	1,2

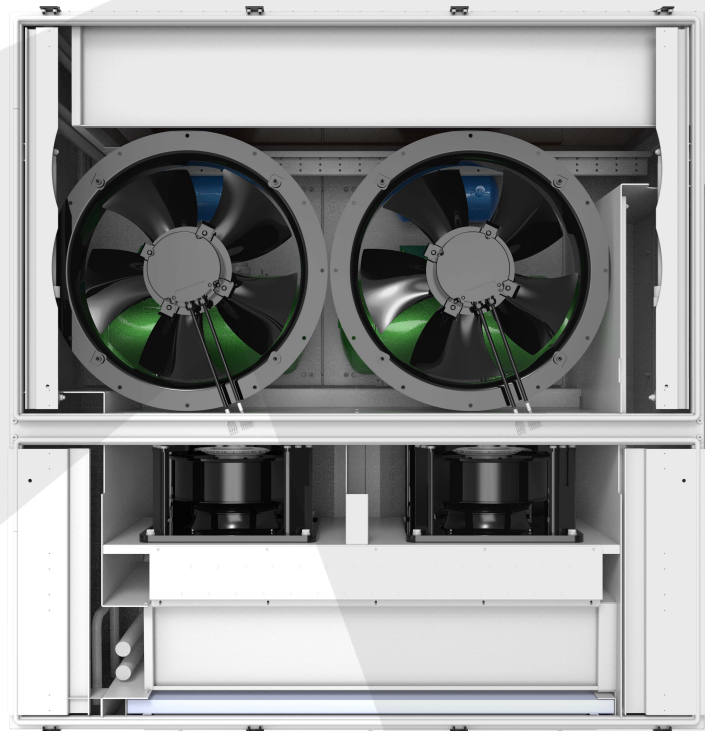
TOTAL ELECTRICAL DATA(S)

Nominal Operating Current	A	27,48
Maximum Operating Current	A	50
Nominal Power Consumption	kW	15,272
Power Supply	V/ph/Hz	380/3+N/50

WEIGHT & DIMENSIONS

Width	mm	1730
Depth	mm	1612
Height	mm	755
Weight	kg	550

ACCESSORIES



ACCESSORIES

Filter Type	G4	
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NOISE DATA

Sound Pressure	dB	65
Distance	m	2

CONDENSER

Quantity	N°	1
Circuit(s)	N°	2
Condensing Temperature	°C	52,1
Air Flow	m³/h	10250
Rejection Capacity	kW	49,444
Number of Fan(s)	N°	2
Power Supply	V/Ph/Hz	380/3/50
Electrical Power Consumption (Total)	kW	1,984
Nominal Absorbed Current (Total)	A	3
Maximum Absorbed Current (Total)	A	3,2

COMPONENTS



COMPRESSOR

Type	Scroll
Description	Horizontal Refrigeration Compressor

EVAPORATOR FAN

Type	EC Radial
Description	Backward Curved



COMPRESSOR

Type	AC Axial
Description	Sickle Shaped Blades

CoolAer

HEATING & COOLING SYSTEMS

