

AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Hi-Static / Stackable 952018HS

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	17.4 FLA / 101 LRA (inc pump)
Min. Circuit Size	20.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	21.69 kW
Power Input	4.86 kW
COP	4.46 COP
Noise Level	60 dBa @ 3 m
Rated Load Amps @ 15°C SST / 50°C SCT	14.1 Amps

TECHNICAL DATA

	Fan
Reference/Size	450mm
Type	Axial / Hi-Static
Number Per Unit	2
Air Flow	1944 L/s
Max. Static Pressure	92 Pa
Min. Ventilation per Inlet and Outlet (w/ cross flow ventilation)	2.0 m ² each

HEAT EXCHANGER (Water Side)

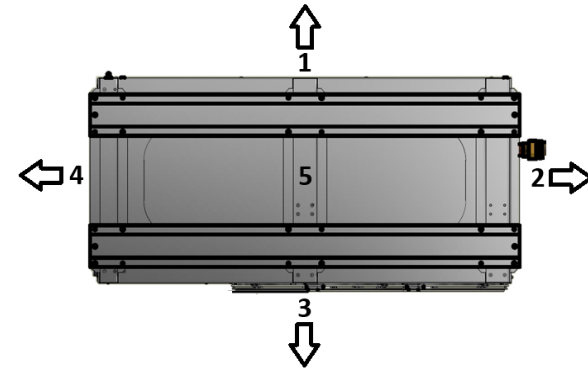
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	1.10 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	33 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Water Pump	Grundfos CM3-2
Max. Pump Current/Power Input	2.4 Amps 300 Watts

GENERAL INFORMATION

Water Connections	R 1-1/4" (Male 1-1/4" BSP)
Drain	20mm PVC
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. Shipping Weight	150 kg
Size L x W x H	1200 mm x 590 mm x 1035 mm

COP TABLE

Water Out °C	Ambient Temperature °C								
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C
45 °C	11.18 kW	12.85 kW	14.51 kW	16.17 kW	17.83 kW	19.76 kW	21.69 kW	23.62 kW	25.55 kW
	2.54 COP	2.87 COP	3.20 COP	3.51 COP	3.82 COP	4.15 COP	4.46 COP	4.76 COP	5.07 COP
50 °C	11.07 kW	12.70 kW	14.33 kW	15.96 kW	17.59 kW	19.42 kW	21.25 kW	23.08 kW	24.91 kW
	2.33 COP	2.63 COP	2.93 COP	3.22 COP	3.50 COP	3.80 COP	4.09 COP	4.37 COP	4.64 COP
55 °C	10.96 kW	12.56 kW	14.16 kW	15.76 kW	17.36 kW	19.08 kW	20.81 kW	22.54 kW	24.27 kW
	2.12 COP	2.40 COP	2.67 COP	2.93 COP	3.19 COP	3.46 COP	3.72 COP	3.97 COP	4.22 COP
60 °C	N/A	12.42 kW	13.98 kW	15.55 kW	17.12 kW	18.75 kW	20.38 kW	22.00 kW	23.63 kW
		2.16 COP	2.40 COP	2.64 COP	2.87 COP	3.11 COP	3.34 COP	3.57 COP	3.80 COP
65 °C	N/A	12.32 kW	13.88 kW	15.42 kW	16.97 kW	18.54 kW	20.10 kW	21.67 kW	23.24 kW
		2.00 COP	2.24 COP	2.46 COP	2.68 COP	2.90 COP	3.11 COP	3.33 COP	3.54 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	350 mm
2	Water Connections	500 mm
3	Side - Fan Discharge	1200 mm
4	Compressor Access	850 mm
5	Top - Clearance	200 mm

When units are placed side by side, allow at least 700mm distance between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C



Manufactured In Australia

Unit specifications subject to change without notice

AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Hi-Static 952018H0

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	17.4 FLA / 101 LRA (inc pump)
Min. Circuit Size	20.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	21.69 kW
Power Input	4.86 kW
COP	4.46 COP
Noise Level	60 dBa @ 3 m
Rated Load Amps @ 15°C SST / 50°C SCT	14.1 Amps

TECHNICAL DATA

	Fan
Reference/Size	450mm
Type	Axial / Hi-Static
Number Per Unit	2
Air Flow	1944 L/s
Max. Static Pressure	92 Pa
Min. Ventilation per Inlet and Outlet (w/ cross flow ventilation)	2.0 m ² each

HEAT EXCHANGER (Water Side)

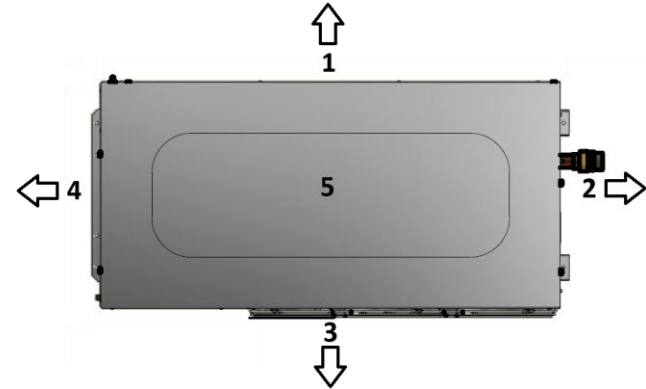
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	1.10 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	33 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Water Pump	Grundfos CM3-2
Max. Pump Current/Power Input	2.4 Amps 300 Watts

GENERAL INFORMATION

Water Connections	R 1-1/4" (Male 1-1/4" BSP)
Drain	20mm PVC
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. Shipping Weight	130 kg
Size L x W x H	1180 mm x 590 mm x 960 mm

COP TABLE

Water Out °C	Ambient Temperature °C								
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C
45 °C	11.18 kW	12.85 kW	14.51 kW	16.17 kW	17.83 kW	19.76 kW	21.69 kW	23.62 kW	25.55 kW
	2.54 COP	2.87 COP	3.20 COP	3.51 COP	3.82 COP	4.15 COP	4.46 COP	4.76 COP	5.07 COP
50 °C	11.07 kW	12.70 kW	14.33 kW	15.96 kW	17.59 kW	19.42 kW	21.25 kW	23.08 kW	24.91 kW
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55 °C	10.96 kW	12.56 kW	14.16 kW	15.76 kW	17.36 kW	19.08 kW	20.81 kW	22.54 kW	24.27 kW
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60 °C	N/A	12.42 kW	13.98 kW	15.55 kW	17.12 kW	18.75 kW	20.38 kW	22.00 kW	23.63 kW
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65 °C	N/A	12.32 kW	13.88 kW	15.42 kW	16.97 kW	18.54 kW	20.10 kW	21.67 kW	23.24 kW
		2.00 COP	2.24 COP	2.46 COP	2.68 COP	2.90 COP	3.11 COP	3.33 COP	3.54 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	350 mm
2	Water Connections	500 mm
3	Side - Fan Discharge	1200 mm
4	Compressor Access	850 mm
5	Top - Clearance	200 mm

When units are placed side by side, allow at least 700mm distance between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C



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AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Hi-Static

95201800

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	17.4 FLA / 101 LRA (inc pump)
Min. Circuit Size	20.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	21.69 kW
Power Input	4.86 kW
COP	4.46 COP
Noise Level	60 dBa @ 3 m
Rated Load Amps @ 15°C SST / 50°C SCT	14.1 Amps

TECHNICAL DATA

	Fan
Reference/Size	450mm
Type	Axial / Hi-Static
Number Per Unit	2
Air Flow	1944 L/s
Max. Static Pressure	92 Pa
Min. Ventilation per Inlet and Outlet (w/ cross flow ventilation)	2.0 m ² each

HEAT EXCHANGER (Water Side)

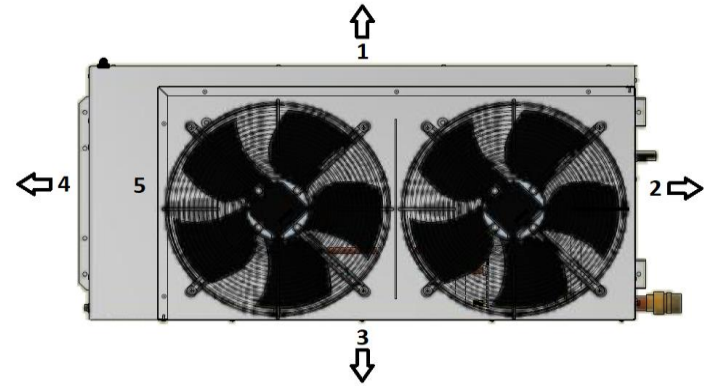
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	1.10 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	33 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Water Pump	Grundfos CM3-2
Max. Pump Current/Power Input	2.4 Amps 300 Watts

GENERAL INFORMATION

Water Connections	R 1-1/4" (Male 1-1/4" BSP)
Drain	20mm PVC
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. Shipping Weight	130 kg
Size L x W x H	1180 mm x 565 mm x 1015 mm

COP TABLE

Water Out °C	Ambient Temperature °C								
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C
45 °C	11.18 kW	12.85 kW	14.51 kW	16.17 kW	17.83 kW	19.76 kW	21.69 kW	23.62 kW	25.55 kW
	2.54 COP	2.87 COP	3.20 COP	3.51 COP	3.82 COP	4.15 COP	4.46 COP	4.76 COP	5.07 COP
50 °C	11.07 kW	12.70 kW	14.33 kW	15.96 kW	17.59 kW	19.42 kW	21.25 kW	23.08 kW	24.91 kW
	2.33 COP	2.63 COP	2.93 COP	3.22 COP	3.50 COP	3.80 COP	4.09 COP	4.37 COP	4.64 COP
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60 °C	N/A	12.42 kW	13.98 kW	15.55 kW	17.12 kW	18.75 kW	20.38 kW	22.00 kW	23.63 kW
		2.16 COP	2.40 COP	2.64 COP	2.87 COP	3.11 COP	3.34 COP	3.57 COP	3.80 COP
65 °C	N/A	12.32 kW	13.88 kW	15.42 kW	16.97 kW	18.54 kW	20.10 kW	21.67 kW	23.24 kW
		2.00 COP	2.24 COP	2.46 COP	2.68 COP	2.90 COP	3.11 COP	3.33 COP	3.54 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	350 mm
2	Water Connections	500 mm
3	Plain Back	Nil
4	Compressor Access	850 mm
5	Top - Fan Discharge	2500 mm

When units are placed side by side, allow at least 700mm distance between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C



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Unit specifications subject to change without notice

AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Hi-Static / Stackable 952040HS

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	34.9 FLA (inc pump) / 174 LRA
Min. Circuit Size	40.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	49.05 kW
Power Input	11.52 kW
COP	4.26 COP
Noise Level	69 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	30.3 Amps

TECHNICAL DATA

	Fan
Reference/Size	630mm
Type	Axial
Number Per Unit	2
Air Flow (at max static pressure)	4306 L/s
Max. Static Pressure	126 Pa
Min. ventilation per Inlet and Outlet	4.0 m ²

HEAT EXCHANGER (Water Side)

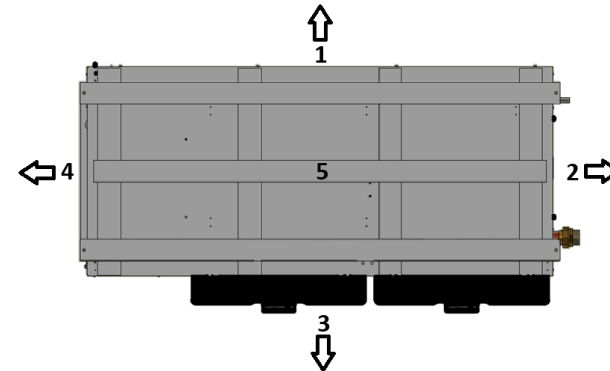
Type of Water Tube	Double Wall	
Design	Vented Brazed Plate	
Flow Rate Excl. By Pass	2.20 L/s	
Max. Outlet Water Temp	65°C*	
Design Pressure Drop	40 kPa	
Max. Operating Pressure	1,550 kPa +200/-300 kPa	
Water Pump	Grundfos CM10-1	
Max. Pump Current/Power Input	4.4 Amps	670 Watts

GENERAL INFORMATION

Water Connections	R2 (Male 2" BSP)
Drain	20mm Aluminium
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	325 kg
Size L x W x H	1860 mm x 945 mm x 1245 mm

COP TABLE

Water Out °C	Ambient Temperature °C									
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
45 °C	22.63 kW	26.60 kW	29.07 kW	33.96 kW	39.55 kW	46.04 kW	49.05 kW	52.11 kW	54.57 kW	56.28 kW
	2.00 COP	2.34 COP	2.56 COP	2.98 COP	3.46 COP	4.01 COP	4.26 COP	4.51 COP	4.71 COP	4.84 COP
50 °C	22.18 kW	26.06 kW	28.46 kW	33.16 kW	38.53 kW	44.73 kW	47.60 kW	50.53 kW	52.88 kW	54.51 kW
	1.81 COP	2.11 COP	2.30 COP	2.68 COP	3.11 COP	3.60 COP	3.82 COP	4.05 COP	4.23 COP	4.35 COP
55 °C	21.85 kW	25.65 kW	27.98 kW	32.54 kW	37.72 kW	43.70 kW	46.46 kW	49.28 kW	51.53 kW	53.11 kW
	1.66 COP	1.94 COP	2.11 COP	2.45 COP	2.84 COP	3.28 COP	3.49 COP	3.69 COP	3.86 COP	3.97 COP
60 °C	N/A	25.25 kW	27.52 kW	31.94 kW	36.93 kW	42.68 kW	45.33 kW	48.04 kW	50.21 kW	51.72 kW
		1.78 COP	1.94 COP	2.24 COP	2.59 COP	2.99 COP	3.18 COP	3.36 COP	3.51 COP	3.61 COP
65 °C	N/A	24.80 kW	27.00 kW	31.23 kW	35.98 kW	41.44 kW	43.96 kW	46.52 kW	48.58 kW	50.01 kW
		1.63 COP	1.77 COP	2.05 COP	2.36 COP	2.72 COP	2.88 COP	3.05 COP	3.18 COP	3.27 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	500 mm
2	Water Connections	500 mm
3	Side - Fan Discharge	2000 mm
4	Compressor Access	850 mm
5	Top Clearance	200 mm

When units are placed side by side, allow at least 1000mm between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C



AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Hi-Static 952040H0

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	34.9 FLA (inc pump) / 174 LRA
Min. Circuit Size	40.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	49.05 kW
Power Input	11.52 kW
COP	4.26 COP
Noise Level	69 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	30.3 Amps

TECHNICAL DATA

	Fan
Reference/Size	630mm
Type	Axial
Number Per Unit	2
Air Flow (at max static pressure)	4306 L/s
Max. Static Pressure	126 Pa
Min. ventilation per Inlet and Outlet	4.0 m ²

HEAT EXCHANGER (Water Side)

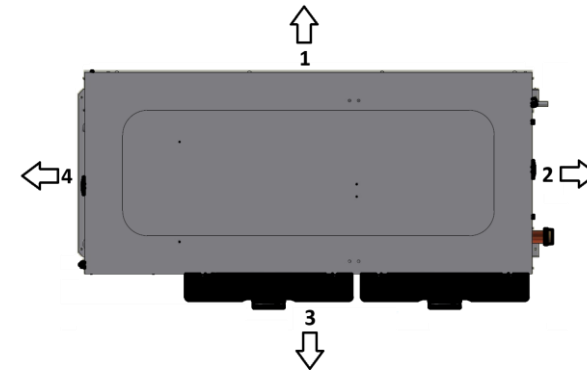
Type of Water Tube	Double Wall	
Design	Vented Brazed Plate	
Flow Rate Excl. By Pass	2.20 L/s	
Max. Outlet Water Temp	65°C*	
Design Pressure Drop	40 kPa	
Max. Operating Pressure	1,550 kPa +200/-300 kPa	
Water Pump	Grundfos CM10-1	
Max. Pump Current/Power Input	4.4 Amps	670 Watts

GENERAL INFORMATION

Water Connections	R2 (Male 2" BSP)
Drain	20mm Aluminium
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	300 kg
Size L x W x H	1860 mm x 945 mm x 1245 mm

COP TABLE

Water Out °C	Ambient Temperature °C									
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
45 °C	22.63 kW	26.60 kW	29.07 kW	33.96 kW	39.55 kW	46.04 kW	49.05 kW	52.11 kW	54.57 kW	56.28 kW
	2.00 COP	2.34 COP	2.56 COP	2.98 COP	3.46 COP	4.01 COP	4.26 COP	4.51 COP	4.71 COP	4.84 COP
50 °C	22.18 kW	26.06 kW	28.46 kW	33.16 kW	38.53 kW	44.73 kW	47.60 kW	50.53 kW	52.88 kW	54.51 kW
	1.81 COP	2.11 COP	2.30 COP	2.68 COP	3.11 COP	3.60 COP	3.82 COP	4.05 COP	4.23 COP	4.35 COP
55 °C	21.85 kW	25.65 kW	27.98 kW	32.54 kW	37.72 kW	43.70 kW	46.46 kW	49.28 kW	51.53 kW	53.11 kW
	1.66 COP	1.94 COP	2.11 COP	2.45 COP	2.84 COP	3.28 COP	3.49 COP	3.69 COP	3.86 COP	3.97 COP
60 °C	N/A	25.25 kW	27.52 kW	31.94 kW	36.93 kW	42.68 kW	45.33 kW	48.04 kW	50.21 kW	51.72 kW
		1.78 COP	1.94 COP	2.24 COP	2.59 COP	2.99 COP	3.18 COP	3.36 COP	3.51 COP	3.61 COP
65 °C	N/A	24.80 kW	27.00 kW	31.23 kW	35.98 kW	41.44 kW	43.96 kW	46.52 kW	48.58 kW	50.01 kW
		1.63 COP	1.77 COP	2.05 COP	2.36 COP	2.72 COP	2.88 COP	3.05 COP	3.18 COP	3.27 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	500 mm
2	Water Connections	500 mm
3	Side - Fan Discharge	2000 mm
4	Compressor Access	850 mm
5	Top Clearance	200 mm

When units are placed side by side, allow at least 1000mm between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C



AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Hi-Static 95204000

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	34.9 FLA (inc pump) / 174 LRA
Min. Circuit Size	40.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	49.05 kW
Power Input	11.52 kW
COP	4.26 COP
Noise Level	69 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	30.3 Amps

TECHNICAL DATA

	Fan
Reference/Size	630mm
Type	Axial
Number Per Unit	2
Air Flow (at max static pressure)	4306 L/s
Max. Static Pressure	126 Pa
Min. ventilation per Inlet and Outlet	4.0 m ²

HEAT EXCHANGER (Water Side)

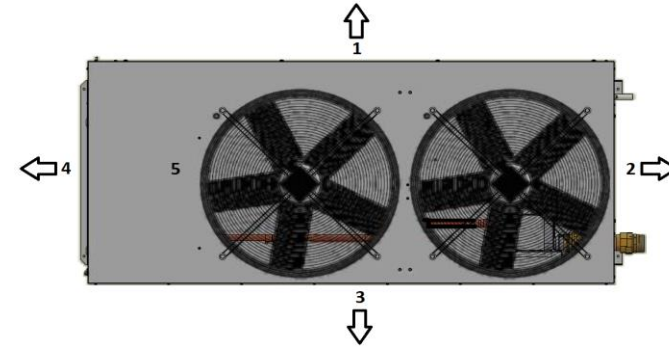
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	2.20 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	40 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Water Pump	Grundfos CM10-1
Max. Pump Current/Power Input	4.4 Amps / 670 Watts

GENERAL INFORMATION

Water Connections	R2 (Male 2" BSP)
Drain	20mm Aluminium
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	300 kg
Size L x W x H	1860 mm x 805 mm x 1380 mm

COP TABLE

Water Out °C	Ambient Temperature °C									
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
45 °C	22.63 kW	26.60 kW	29.07 kW	33.96 kW	39.55 kW	46.04 kW	49.05 kW	52.11 kW	54.57 kW	56.28 kW
	2.00 COP	2.34 COP	2.56 COP	2.98 COP	3.46 COP	4.01 COP	4.26 COP	4.51 COP	4.71 COP	4.84 COP
50 °C	22.18 kW	26.06 kW	28.46 kW	33.16 kW	38.53 kW	44.73 kW	47.60 kW	50.53 kW	52.88 kW	54.51 kW
	1.81 COP	2.11 COP	2.30 COP	2.68 COP	3.11 COP	3.60 COP	3.82 COP	4.05 COP	4.23 COP	4.35 COP
55 °C	21.85 kW	25.65 kW	27.98 kW	32.54 kW	37.72 kW	43.70 kW	46.46 kW	49.28 kW	51.53 kW	53.11 kW
	1.66 COP	1.94 COP	2.11 COP	2.45 COP	2.84 COP	3.28 COP	3.49 COP	3.69 COP	3.86 COP	3.97 COP
60 °C	N/A	25.25 kW	27.52 kW	31.94 kW	36.93 kW	42.68 kW	45.33 kW	48.04 kW	50.21 kW	51.72 kW
		1.78 COP	1.94 COP	2.24 COP	2.59 COP	2.99 COP	3.18 COP	3.36 COP	3.51 COP	3.61 COP
65 °C	N/A	24.80 kW	27.00 kW	31.23 kW	35.98 kW	41.44 kW	43.96 kW	46.52 kW	48.58 kW	50.01 kW
		1.63 COP	1.77 COP	2.05 COP	2.36 COP	2.72 COP	2.88 COP	3.05 COP	3.18 COP	3.27 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	500 mm
2	Water Connections	500 mm
3	Plain Back	Nil
4	Compressor Access	850 mm
5	Top – Fan Discharge	3500 mm

When units are placed side by side, allow at least 1000mm between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C

