

AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control / Stackable

953018HS

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	15.4 FLA / 101 LRA (inc pump)
Min. Circuit Size	20.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	21.69 kW
Power Input	4.48 kW
COP	4.84 COP
Noise Level	54 dBa @ 3 m
Rated Load Amps @ 15°C SST / 50°C SCT	12.2 Amps

AIR SIDE

	Fan
Size	450mm
Type	Axial
Number Per Unit	2
Air Flow (at max. static pressure)	1600 L/s
Max. Static Pressure	5 Pa
Min. Ventilation per Inlet and Outlet (w/ cross flow ventilation)	2.0 m ² each

HEAT EXCHANGER (Water Side)

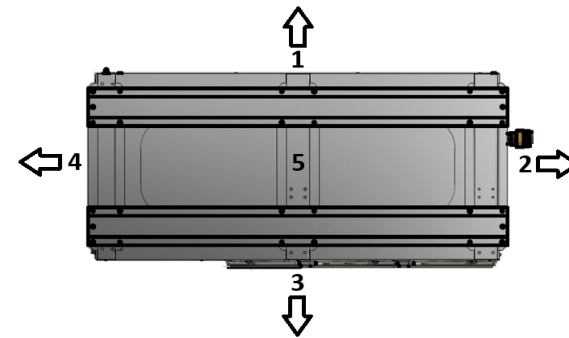
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	1.10 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	33 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Recommended Water Pump	Grundfos CM3-2
Max. Recommended Pump Current/Power Input	2.4 Amps 300 Watts

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 2.81 COP	12.85 kW 3.16 COP	14.51 kW 3.50 COP	16.17 kW 3.84 COP	17.83 kW 4.19 COP	19.76 kW 4.52 COP	21.69 kW 4.84 COP	23.62 kW 5.17 COP	25.55 kW 5.50 COP	
50 °C	11.07 kW 2.56 COP	12.70 kW 2.88 COP	14.33 kW 3.19 COP	15.96 kW 3.51 COP	17.59 kW 3.82 COP	19.42 kW 4.12 COP	21.25 kW 4.42 COP	23.08 kW 4.72 COP	24.91 kW 5.02 COP	
55 °C	10.96 kW 2.31 COP	12.65 kW 2.60 COP	14.16 kW 2.88 COP	15.76 kW 3.17 COP	17.36 kW 3.46 COP	19.08 kW 3.73 COP	20.81 kW 4.00 COP	22.54 kW 4.27 COP	24.27 kW 4.54 COP	
60 °C	N/A	12.42 kW 2.31 COP	13.98 kW 2.57 COP	15.55 kW 2.83 COP	17.12 kW 3.09 COP	18.75 kW 3.33 COP	20.38 kW 3.58 COP	22.00 kW 3.82 COP	23.63 kW 4.06 COP	
65 °C	N/A	12.32 kW 2.13 COP	13.88 kW 2.39 COP	15.42 kW 2.62 COP	16.97 kW 2.86 COP	18.54 kW 3.09 COP	20.10 kW 3.31 COP	21.67 kW 3.54 COP	23.24 kW 3.76 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

953018H0

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	15.4 FLA / 101 LRA (inc pump)
Min. Circuit Size	20.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	21.69 kW
Power Input	4.48 kW
COP	4.84 COP
Noise Level	54 dBa @ 3 m
Rated Load Amps @ 15°C SST / 50°C SCT	12.2 Amps

AIR SIDE

	Fan
Size	450mm
Type	Axial
Number Per Unit	2
Air Flow (at max. static pressure)	1600 L/s
Max. Static Pressure	5 Pa
Min. Ventilation per Inlet and Outlet (w/ cross flow ventilation)	2.0 m ² each

HEAT EXCHANGER (Water Side)

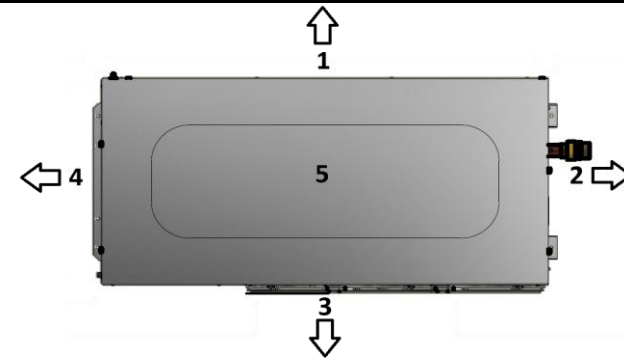
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	1.10 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	33 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Recommended Water Pump	Grundfos CM3-2
Max. Recommended Pump Current/Power Input	2.4 Amps 300 Watts

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 2.81 COP	12.85 kW 3.16 COP	14.51 kW 3.50 COP	16.17 kW 3.84 COP	17.83 kW 4.19 COP	19.76 kW 4.52 COP	21.69 kW 4.84 COP	23.62 kW 5.17 COP	25.55 kW 5.50 COP
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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

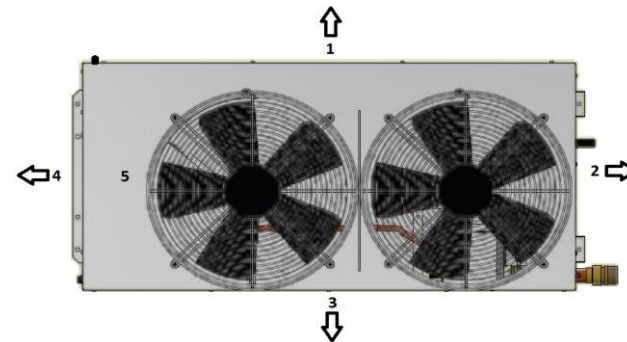
Vented Brazed Plate Heat Exchanger / Rheem IQ Control

95301800

ELECTRICAL INPUT	
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	15.4 FLA / 101 LRA (inc pump)
Min. Circuit Size	20.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	21.69 kW
Power Input	4.48 kW
COP	4.84 COP
Noise Level	54 dBa @ 3 m
Rated Load Amps @ 15°C SST / 50°C SCT	12.2 Amps
AIR SIDE	
	Fan
Size	450mm
Type	Axial
Number Per Unit	2
Air Flow (at max. static pressure)	1600 L/s
Max. Static Pressure	5 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
Recommended Water Pump	Grundfos CM3-2
Max. Recommended 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 2.81 COP	12.85 kW 3.16 COP	14.51 kW 3.50 COP	16.17 kW 3.84 COP	17.83 kW 4.19 COP	19.76 kW 4.52 COP	21.69 kW 4.84 COP	23.62 kW 5.17 COP	25.55 kW 5.50 COP
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65 °C	N/A	12.32 kW 2.13 COP	13.88 kW 2.39 COP	15.42 kW 2.62 COP	16.97 kW 2.86 COP	18.54 kW 3.09 COP	20.10 kW 3.31 COP	21.67 kW 3.54 COP	23.24 kW 3.76 COP



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

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 / Stackable

953040HS

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	34.0 FLA / 174 LRA (inc pump)
Min. Circuit Size	40.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	49.05 kW
Power Input	9.93 kW
COP	4.94 COP
Noise Level	62 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	28.6 Amps

AIR SIDE

	Fan
Size	630mm
Type	Axial
Number Per Unit	2
Air Flow (at max static pressure)	4306 L/s
External Static Pressure	5 Pa
Min. ventilation per Inlet and Outlet	4.0 m ²

HEAT EXCHANGER (Water Side)

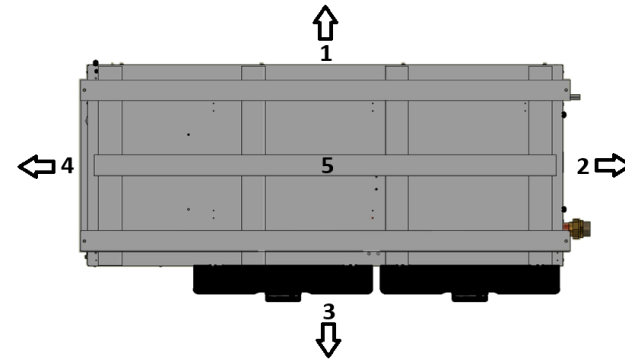
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	2.20 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	40 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Recommended Water Pump	Grundfos CM10-1
Max. Recommended Pump Current/Power Input	4.4 Amps 670 Watts

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	22.63 kW 2.33 COP	26.60 kW 2.72 COP	29.07 kW 2.97 COP	33.96 kW 3.46 COP	39.55 kW 4.02 COP	46.04 kW 4.65 COP	49.05 kW 4.94 COP	52.11 kW 5.23 COP	54.57 kW 5.45 COP
50 °C	22.18 kW 2.07 COP	26.06 kW 2.42 COP	28.46 kW 2.64 COP	33.16 kW 3.07 COP	38.53 kW 3.55 COP	44.73 kW 4.11 COP	47.60 kW 4.37 COP	50.53 kW 4.62 COP	52.88 kW 4.83 COP
55 °C	21.85 kW 1.88 COP	25.65 kW 2.20 COP	27.98 kW 2.39 COP	32.54 kW 2.78 COP	37.72 kW 3.22 COP	43.70 kW 3.72 COP	46.46 kW 3.95 COP	49.28 kW 4.18 COP	51.53 kW 4.36 COP
60 °C	N/A	25.25 kW 2.00 COP	27.52 kW 2.17 COP	31.94 kW 2.52 COP	36.93 kW 2.91 COP	42.68 kW 3.36 COP	45.33 kW 3.56 COP	48.04 kW 3.77 COP	50.21 kW 3.93 COP
65 °C	N/A	24.80 kW 1.77 COP	27.00 kW 1.93 COP	31.23 kW 2.23 COP	35.98 kW 2.56 COP	41.44 kW 2.95 COP	43.96 kW 3.13 COP	46.52 kW 3.31 COP	48.58 kW 3.45 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 5°C



Manufactured In Australia

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AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control

95304000

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	34.0 FLA / 174 LRA (inc pump)
Min. Circuit Size	40.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	49.05 kW
Power Input	9.93 kW
COP	4.94 COP
Noise Level	62 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	28.6 Amps

AIR SIDE

	Fan
Size	630mm
Type	Axial
Number Per Unit	2
Air Flow (at max static pressure)	4306 L/s
External Static Pressure	5 Pa
Min. ventilation per Inlet and Outlet	4.0 m ²

HEAT EXCHANGER (Water Side)

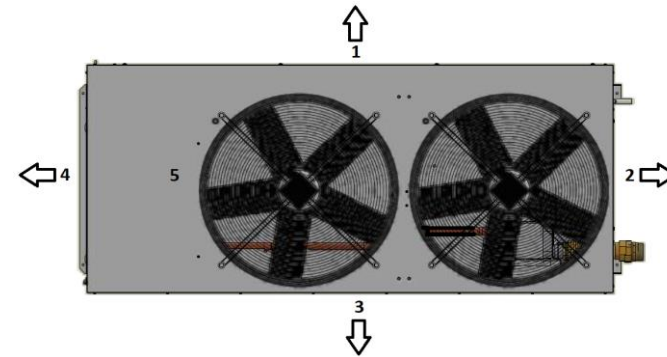
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	2.20 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	40 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Recommended Water Pump	Grundfos CM10-1
Max. Recommended Pump Current/Power Input	4.4 Amps 670 Watts

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
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65 °C	N/A	24.80 kW 1.77 COP	27.00 kW 1.93 COP	31.23 kW 2.23 COP	35.98 kW 2.56 COP	41.44 kW 2.95 COP	43.96 kW 3.13 COP	46.52 kW 3.31 COP	48.58 kW 3.45 COP



UNIT CLEARANCES

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

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 5°C



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AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control

953040H0

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	34.0 FLA / 174 LRA (inc pump)
Min. Circuit Size	40.0 Amps
Refrigerant	R134a
Nominal Heating Capacity	49.05 kW
Power Input	9.93 kW
COP	4.94 COP
Noise Level	62 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	28.6 Amps

AIR SIDE

	Fan
Size	630mm
Type	Axial
Number Per Unit	2
Air Flow (at max static pressure)	4306 L/s
External Static Pressure	5 Pa
Min. ventilation per Inlet and Outlet	4.0 m ²

HEAT EXCHANGER (Water Side)

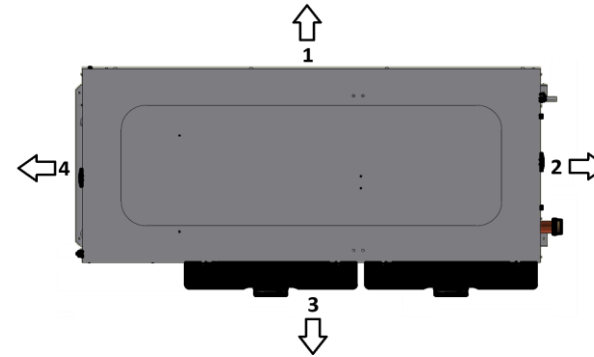
Type of Water Tube	Double Wall
Design	Vented Brazed Plate
Flow Rate Excl. By Pass	2.20 L/s
Max. Outlet Water Temp	65°C*
Design Pressure Drop	40 kPa
Max. Operating Pressure	1,550 kPa +200/-300 kPa
Recommended Water Pump	Grundfos CM10-1
Max. Recommended Pump Current/Power Input	4.4 Amps 670 Watts

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

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60 °C	N/A	25.25 kW 2.00 COP	27.52 kW 2.17 COP	31.94 kW 2.52 COP	36.93 kW 2.91 COP	42.68 kW 3.36 COP	45.33 kW 3.56 COP	48.04 kW 3.77 COP	50.21 kW 3.93 COP
65 °C	N/A	24.80 kW 1.77 COP	27.00 kW 1.93 COP	31.23 kW 2.23 COP	35.98 kW 2.56 COP	41.44 kW 2.95 COP	43.96 kW 3.13 COP	46.52 kW 3.31 COP	48.58 kW 3.45 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 5°C



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