

RAH040

Item		Unit	Refrigerant System		
Performance Test Condition			AHRI 550/590		
Cooling Capacity		Condition (Ambient/Water) °F	A95W44		
		BTU/h (kW)	34,800 (10.2)		
Cooling EER		W/W	2.9		
Heating Capacity		Condition (Ambient/Water) °F	A44W95	A35W95	
		BTU/h (kW)	41,000 (12)	41,000 (12)	
Heating COP		W/W	4.8	3.53	
Air Flow		ft³/min (m³/min)	Cooling: 3620 (102.4), Heating: 2870 (81.3)		
Refrigerant Control Device			Electronic Expansion Valve		
Refrigerant Oil (FW50S)		fl oz. (cm³)	40.58 (1200)		
Refrigerant (R32)		lbs (kg)	3.53 (1.60)		
R32	GWP		675		
	CO2eq (ton) (Precharged / Maximum)		1.080 / -		
Compressor (Rotary)	Type		Hermetic		
	Motor Type		Brushless (4-poles)		
	Rated Output	Btu/h (kW)	10236 (3)		
Item		Unit	Refrigerant System		
Fan	Motor Type		DC (8-poles)		
	Output Power	W	60		
	Fan Speed	rpm	Cooling: Top: 680, Bottom: 720 Heating: Top: 520, Bottom: 560		
Fin-Tube Heat Exchanger	Fin Material		Aluminum (Pre Coat)		
	Fin Type		Corrugated Fin		
	Row x Stage x FPI		2 x 51 x 19		
	Size (W x H X L)	inch (mm)	1-1/2 (38.1) x 49-5/8 (1260.5) x 35-5/8 (904.9)		
Item		Unit	Mono bloc Unit		
Dimension	Height	inch (mm)	55-5/8 (1412.9)		
	Width	inch (mm)	50-5/8 (1285.9)		
	Depth	inch (mm)	12-5/8 (320.7)		
Net Weight		lbs (kg)	308.6 (140)		
Noise Level @3.2 ft.			A95W44	A44W95	A35W95
		dB(A)	Cooling: 52	Heating: 52	Heating: 52
		Power level dB	Cooling: 69	Heating: 61-65	Heating: 61-65
Power Source (Phase, Voltage, Cycle)		Ø	Single		
		V	208/240		
Input Power		Condition (Ambient/Water) °F	A95W44	A44W95	A35W95
		kW	Cooling: 4.14	Heating: 2.50	Heating: 3.40
Maximum Input Power for Heatpump System		kW	6.54		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)		1Ø / 29.0 / 6.54k			
Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)		1Ø / 27.2 / 6.00k			
Starting current		A	19.1		
Running Current		Condition (Ambient/Water) °F	A95W44	A44W95	A35W95
		A	Cooling: 19.1	Heating: 11.6	Heating: 15.7
RLA		A	29		
MCA		A	36.25		
MOCP		A	65.25		
Power Factor		Condition (Ambient/Water) °F	A95W44	A44W95	A35W95
Power factor means total figure of compressor and outdoor fan motor.		%	Cooling: 94	Heating: 94	Heating: 94
Item		Unit	Water System		
Performance Test Condition			AHRI 550/590		

Operation Range	Outdoor Ambient	°F (min. / max.)	Cooling: 50 / 109,Heating: -4 / 95
	Water Outlet	°F (min. / max.)	Cooling: 41 / 68 Heating: 68/131 (Below Ambient -4°F) ^{*3} 68/140 (Ambient 5~32°F) or Above Ambient 77°F) ^{*3} 68/149 (Ambient 41~68°F) ^{*3,4}
Internal Pressure Differential		psi	Cooling: 8
			Heating: 8
Water Connections	Inlet/Outlet	inch	1-1/4 NPT
Water Drain Hose Inner Diameter		inch (mm)	5/8 (15.9)
Pump	Motor Type		DC Motor
	Input Power	W	173
Braze Plate Heat Exchanger	No. of Plates		38
	Size (H x W x L)	inch (mm)	2-7/8 (73) x 4-7/8(123.9) x 13-1/8 (333.4)
	Water Flow Rate (Min/Max)	gal/min (m³/h)	Cooling: 1.3 (0.3) / 9.1 (2.1)
			Heating: 1.3 (0.3) / 7.7 (1.8)
Pressure Relief Valve Water Circuit		psi	Open: 116, Close: 93 and below
Flow Switch	Type		Electronic Sensor
Protection Device		A	Residual Current Circuit Breaker (40)
Expansion Vessel	Volume	gal	2.6
	MWP	psi (bar)	14.5 (1)
Capacity of Integrated Electric Heater		kW / °F	3.33

Notes:

- Cooling capacities are based on outdoor air temperature of 95°F Dry Bulb with controlled indoor water inlet temperature of 54°F and 44°F.
- Heating capacities are based on outdoor air temperature of 44°F Dry Bulb, 42°F Wet Bulb with controlled indoor water inlet temperature of 86°F and water outlet temperature of 95°F.
- Specifications are subject to change without prior notice for further improvement.
- Flow rates indicated are based on nominal capacity adjustment of leaving water temperature (LWT) 95°F and Δ9°F.

*3 Between outdoor ambient -4°F and 5°F, the water outlet temperature gradually decreases from 140°F to 131°F.

*3 Between outdoor ambient 5°F and 32°F, the water outlet temperature gradually decreases from 149°F to 140°F.

*3 Between outdoor ambient 68°F and 77°F, the water outlet temperature gradually decreases from 149°F to 140°F.

*4 Only when ΔT is set to 27°F, the set temperature above 140°F will take effect.