



# Commercial Water

## PRELIMINARY SUBMITTAL FORM

Commercial Electric Air to Water Heat Pump

Date: \_\_\_\_\_

Job: \_\_\_\_\_

Location: \_\_\_\_\_

Model: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

Prepared by: \_\_\_\_\_

Notes \_\_\_\_\_

Indoor  Outdoor

## COMMERCIAL ELECTRIC AIR TO WATER HEAT PUMP

Engineered for superior cold climate operation, this system ensures reliable hot water delivery while significantly reducing energy consumption compared to traditional heating methods.

The Commercial Heat Pump maximizes comfort and minimizes operational costs, making it the ideal choice for businesses seeking a cost-effective, eco-friendly solution.

### FEATURES

**Inverter technology** provides variable capacity control and allows the heat pump compressors to operate more efficiently

**Constant capacity** at cold climates prioritized delivering BTUs to provide hot water even in the coldest of temperatures

**Flexibility** with indoor or outdoor installation is available. A touch screen control is easy to install and navigate making set-up simple

#### Features and Benefits

- Low Ambient Performance (-13°F)
- Delivered Hot Water up to 160°F
- User Friendly Touch Screen Control Platform
- No Refrigerant Handling
- Low GWP Refrigerant: R-454B
- BMS Compatible

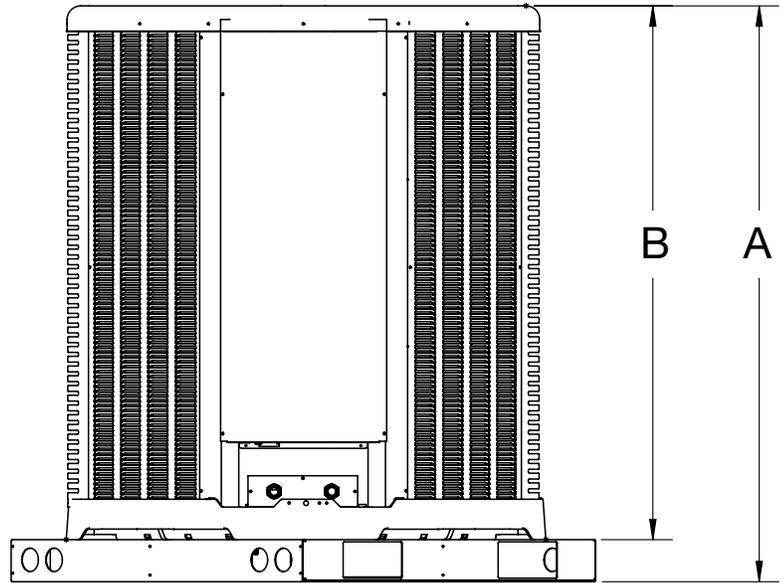
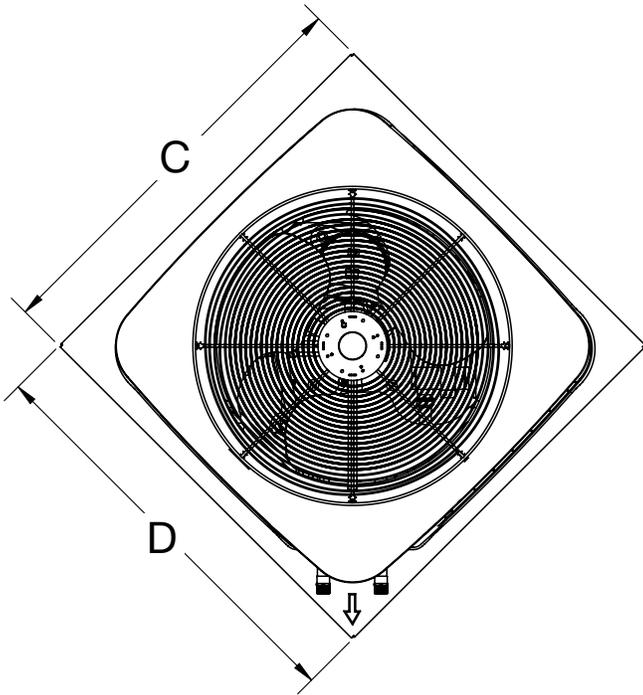
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Rheem Model	20 kW		35 kW	
<b>ELECTRICAL INPUT</b>				
Voltage/Phase	480 Volt/ 3 Phase / 60 Hz			
Full Load / Locked Rotor (Amps Per Phase)	19.12 A/ 94.5 A		32.5 A /143 A	
MCA - MOCP	27 A - 40A		40 A- 60 A	
Refrigerant	R454b			
Heating Capacity, BTU/hr*	69,502		118,880	
Power Input, kW	4.9		9.8	
COP*	4.53		4.52	
Noise Level, dBa @ 10ft	test pending		test pending	
Rated Load Amps @ 54°F SST / 113°F SCT	8.5 A		12.5 A	
<b>TECHNICAL DATA</b>				
	<b>Compressor</b>	<b>Fan</b>	<b>Compressor</b>	<b>Fan</b>
Type	Inverter	Axial	Inverter	Axial
Number Per Unit	1	1	1	1
FLA (Full Load Amps, each)	19.12	2.5	32.5	2.5
Pole/RPM	6P/7200	2/1100	6P/7200	2/1100
Air Flow, CFM	N/A	4000	N/A	5000
Max. Static Pressure for Ducting	0.15" W.C.		0.15" W.C.	
<b>HEAT EXCHANGER (Water Side)</b>				
Type of Water Tube	Double Wall - 316L Stainless Steel			
Design	Counter Flow Brazed Plate			
Flow Rate Excl. By Pass, gpm	15		20	
Max. Outlet Water Temp, °F	160		160	
Design Pressure Drop, PSI	4.8		4.8	
Max. Operating Pressure, PSI	140		140	
<b>GENERAL INFORMATION</b>				
Water Connections	1" Copper		1" Copper	
Drain	condensing pan integrated		condensing pan integrated	
Defrost	Hot Gas Injection			
Cabinet Construction	18 Gauge painted commercial steel outdoor specs			
Approx. Shipping Weight, lbs	250		500	
Size L x W x H	37 x 37" x 40"		37" x 37" x 55"	

\* DOE test standard, 80°F ambient with 63% humidity, inlet water temperature at 70°F, outlet water temperature at 120°F



DIMENSIONS AND SPECIFICATIONS FOR 20KW AND 35KW



Model Number	COP*	Heating Output BTU/hr	A	B	Width	Depth
RMHPHDA068VD00	4.53	69,508	39-1/5"	35-1/5"	39-3/4"	39-3/4"
RMHPHDA120VD00	4.52	118,880	55-1/5"	51-4/25"	39-3/4"	39-3/4"

\* DOE test standard, 80°F ambient with 63% humidity, inlet water temperature at 70°F, outlet water temperature at 120°F