



SUBMITTAL FORM

Torin™ Commercial Air to Water Heat Pump

TORIN™ COMMERCIAL AIR TO WATER HEAT PUMP

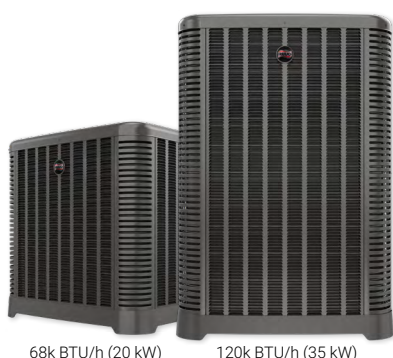
Engineered for superior cold climate operation, this system ensures reliable hot water delivery while significantly reducing energy consumption compared to traditional heating methods.

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

Date:_____ Model:_____ Prepared By:_____

Job:_____ Engineer:_____ Notes:_____

Location:_____ Contractor:_____



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 150°F
- User Friendly Touch Screen Control Platform
- No Refrigerant Handling
- Low GWP Refrigerant: R-454B
- BMS Compatible

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Ruud Model	RMHPHDA068VD000		RMHPHDA120VD000	
ELECTRICAL INPUT				
Voltage/Phase	480 Volt / 3 Phase / 60 Hz			
Full Load	25 A		34 A	
MCA	33.5 A		44.8 A	
Overcurrent protection device size	40 A		50 A	
Refrigerant	R454b			
Heating Capacity, BTU/hr*	68,000		120,000	
Power Input, kW	4.9		9.8	
COP*	4.5		4.5	
Noise Level, dBa @ 10ft	75		75	
Rated Load Amps @ DOE Conditions	8.5 A		12.5 A	
TECHNICAL DATA				
	Compressor	Fan	Compressor	Fan
Type	Inverter	Axial	Inverter	Axial
Number Per Unit	1	1	1	1
FLA (Full Load Amps, each)	25	2.5	34	2.5
Pole/RPM	6P/7200	2/1100	6P/7200	2/1100
Air Flow, CFM	N/A	6000	N/A	6000
Max. Static Pressure for Ducting	0.15" W.C.		0.15" W.C.	
HEAT EXCHANGER (Water Side)				
Type of Water Tube	Double Wall - 316L Stainless Steel			
Design	Counter Flow Brazed Plate			
Flow Rate Excl. By Pass, gpm	5 - 15		5 - 20	
Max. Outlet Water Temp, °F	150		150	
Design Pressure Drop, PSI	4.5		2.5	
Max. Operating Pressure, PSI**	65		65	
GENERAL INFORMATION				
Water Connections	1" Copper		1" Copper	
Drain	1 1/4 socket connection		1 1/4 socket connection	
Defrost	Hot Gas Injection			
Cabinet Construction	18 Gauge painted commercial steel outdoor specs			
Approx. Shipping Weight, lbs	360		483	
Size L x W x H	40" x 40" x 42"		40" x 40" x 58"	

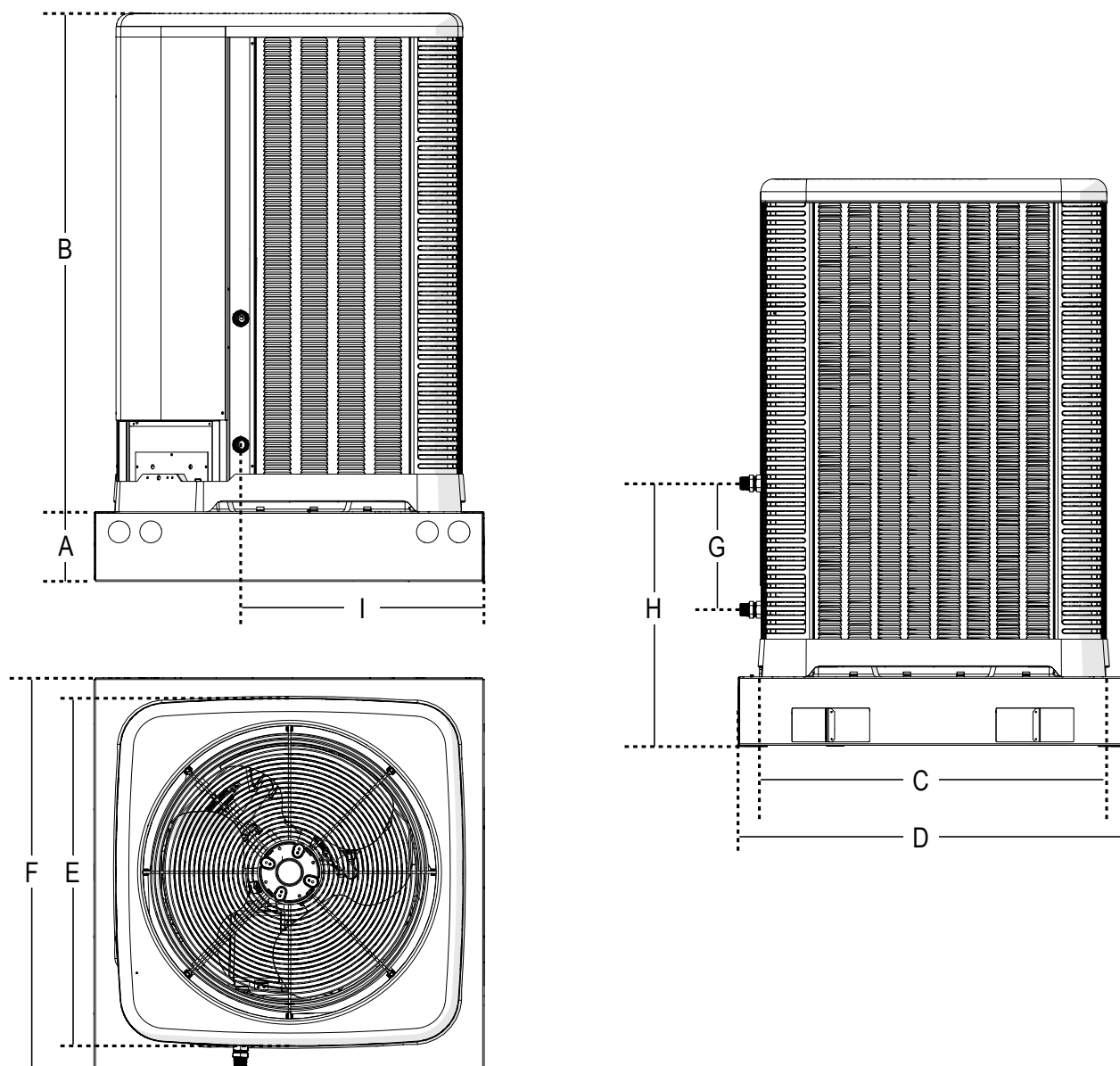
* DOE test standard, 80°F ambient with 63% humidity, inlet water temperature at 70°F, outlet water temperature at 120°F.

** Absolute maximum system pressure is 120 psi.



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DIMENSIONS AND SPECIFICATIONS FOR 68K BTU/H AND 120K BTU/H



Note: The unit shown is the 120K BTU/h model.

MODEL NUMBER	DIMENSIONS								
	A	B	C	D	E	F	G	H	I
RMHPHDA068V000	7"	35"	36"	40"	36"	40"	13"	27"	25"
RMHPHDA120V000	7"	51"	36"	40"	36"	40"	13"	27"	25"



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PARTS FOR 68K BTU/H AND 120K BTU/H

PART	DESCRIPTION	QTY	PART NUMBER
Unit Control / Display	Sky 35 Unit Control (min. 1 required)		016-204
Primary Circulation Pump	ECM High-Efficiency Circulator Pumps		VM3450-DD1-RS2W00
Valve	Motorized Ball Valve Stainless Steel 1 in. NPT		JFMSV00009
Control Interface	BACnet® and Modbus® Interface (ProtoNode)		100-10004301
Storage Tank Thermistor	Tank Well Thermistor		011932K
Seismic Tie Down	Hurricane Tie Down Bracket		10-105931-02K
	Screw - Self-Drilling 3/4 in.		63-105938-01K
Transformer	Ruud Step-Up Transformer Dry Type model (208V / 480V 3-phase)		T3045K0013B
	Ruud Step-Up Transformer Dry Type model (208V / 480V 3-phase)		T3030K0013B

PART	DESCRIPTION	QTY	PART NUMBER
Storage Tank (Non-Jacketed)	200-950 Gallon Storage Tank (Non-Jacketed)		STU950A
			STU750A
			STU500A
			STU430A
			STU320A
			STU200A
Storage Tank (Jacketed)	200-950 Gallon Storage Tank (Jacketed)		ST950A
			ST750A
			ST500A
			ST430A
			ST320A
			ST260A
			ST200A
Storage Tank	80-175 Gallon Storage Tank		ST80(A)
			ST120(A)
			ST175(A)