Proven **PERFORMANCE.** Unmatched **SAVINGS.** Sustainable **SOLUTION.**



Rheem[®] Commercial Heat Pump Water Heaters (Split System)



Super Efficient, Surprisingly Versatile, Smart Decision

Rheem[®] Commercial Heat Pump Split Systems use heat extracted from the air and transfer it to water, so there's no need to choose between sustainability goals and the hot water needed for the business to operate. Although Rheem Commercial Heat Pump Systems are a relatively new option in the North American market, they've been helping businesses in Australia save energy, save money, and reduce their carbon footprint for more than a decade.

Whether you're interested in its super high efficiency design for saving money, reducing impact on the environment or positively contributing to regional decarbonization goals, Rheem[®] Commercial Heat Pumps are an ideal choice.





SUSTAINABILITY

Super High Efficiency – Exceeds 4.0 coefficient of performance (COP) at 80°F ambient and 60% relative humidity using less energy than electric, natural gas or propane water heaters. 135k BTU models are ENERGY STAR® certified

Decarbonization Qualification – Up to a 75% reduction in energy use and carbon footprint

Improved Building Ratings – Ideal for green building programs and increased efficiency ratings like LEED

Building Energy Compliance – Supports requirements set forth in legislative bills SB 350, AB 758, SB 1477, AB 3232

SAVINGS

Money & Energy Savings – Super high efficiency with 75% lower operating cost

Decarbonization Incentive Eligibility – Available rebates, incentives and tax credits offset initial capital costs

High ROI – Save upfront with rebates and incentives, and continue to save with energy cost savings

Low Maintenance Costs – With minimum moving parts and only an air filter to change, routine maintenance is fast and inexpensive

Sustainability, Savings and So Much More

Rheem[®] Commercial Heat Pumps deliver business advantages that go on and on.

PROVEN PERFORMANCE

Proven Performance – While new in the US, this Rheem solution has been used in Australia's challenging environments for over a decade

Suits Most Mild Climates – With automatic defrost and electric tank back-up for lower temps, system provides max hot water outlet temperature up to 150°F

Exceptional Durability – High quality components and epoxy-coated evaporator coils provide protection in corrosive environments. Rated for marine environments

FLEXIBLE INSTALLATION & SERVICE

Multiple Install Options – Reduced system footprint with stackable models. Vertical and Horizontal exhaust options allow a custom fit for layouts

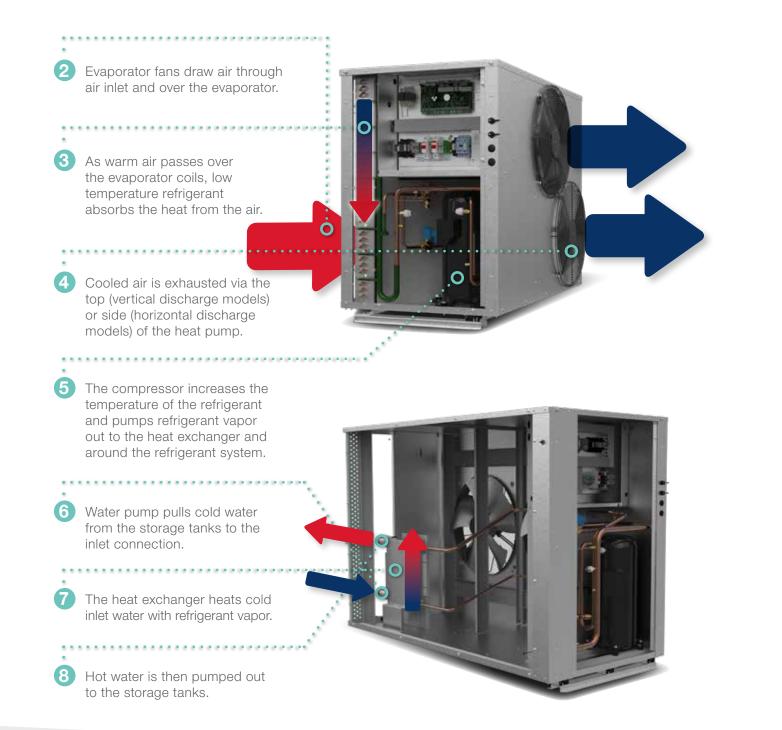
Design Customization – Single or multiple heat pumps and storage units easily meet the facility performance and layout requirements

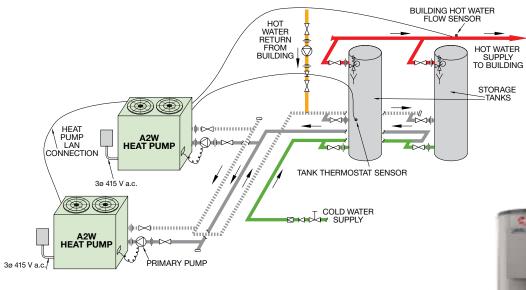
Faster Servicing – The control panel provides on board diagnostics, system configuration and optional high level BMS connectivity via Modbus or BACnet



How it Works

When there is a call for hot water, the evaporator fans, compressor and water pump activate.







Accessories – HPHD-60 and HPHD-135 Models

Pump	BMS Card	LAN Cable	Tank Options		
AP22760A CM 3-2 (60K BTU) AP22760B CM 10-1 (135K BTU)	17412 BACNET MS/ TP over RS485				
	17447 PCOWEB SE Ethernet Card IP Protocols	17495	ST Models – Storage E Models – Electric backup		
	17414 PCOS004850 Serial Card				



Typical Installation



BMS Connectivity

Rheem Commercial Heat Pumps (Split System) can be connected to a customer's Building Management System (BMS) or Building Automation System (BAS) via an interface card. Modbus or BACnet interface cards are available as accessories.

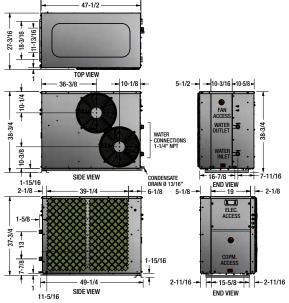
With this feature, the system is discoverable and can be remotely monitored and managed, making it easy for facility managers to receive equipment alarms on their dashboard and dispatch maintenance as needed.



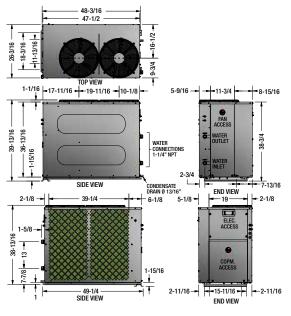
Air to Water 60k BTUh Heat Pump Specifications

Rheem Model Number	HPHD-60HNU-201 HPHD-60VNU-201 (Horizontal) (Vertical)					
ELECTRICAL INPUT						
Voltage/Phase		208/240 Volt/ 1	Phase / 60 Hz			
Full Load / Locked Rotor (Amps Per Phase)		29.5 FLA	/ 176 LRA			
Min. Circuit Amperage		40 A	mps			
Refrigerant		R1:	34a			
Heating Capacity, BTU/hr*		Up to	77,441			
Power Input, kW		5	.2			
COP*		Up to	6.17			
Noise Level, dBa @ 10ft		5	4			
Rated Load Amps @ 54°F SST / 113°F SCT		22	2.6			
TECHNICAL DATA						
	Compressor	Fan	Compressor	Fan		
Make	Copeland	EBM-Papst	Copeland	EBM-Papst		
Туре	Scroll 20129	Axial	Scroll 20129	Axial		
Number Per Unit	1	2	1	2		
FLA (Full Load Amps, each)	27.3	1.06	27.3	1.06		
Voltage / Phase	208/240v / 1 P 208/240v / 1 P 208/240v / 1 P 208/240v / 1 P					
Pole/RPM	2/3500 6/1060 2/3500 6/1060					
Air Flow, CFM	N/A 3240 N/A 3240					
HEAT EXCHANGER (Water Side)						
Type of Water Tube		Doubl	e Wall			
Design		Vented Br	azed Plate			
Flow Rate Excl. By Pass, gpm		17	7.4			
Max. Outlet Water Temp, °F	150**					
Design Pressure Drop, PSI	4.8					
Max. Operating Pressure, PSI	225					
GENERAL INFORMATION						
Water Connections	1-1/4" Copper					
Drain	3/4" Aluminium					
Defrost	Hot Gas Injection					
Cabinet Construction	18 Gauge Stucco Aluminium					
Approx. Shipping Weight, Ibs	500					
Size L x W x H	49.2" x 27	.2" x 38.7"	49.2" x 26	.2" x 39.8"		

HPHD-60HNU-201 (Horizontal) 48-3/16 -



HPHD-60VNU-201 (Vertical)



COP Table* WATER

WATER	AMBIENT TEMPERATURE								
OUT °F	40°F	50°F	60°F	70°F	80°F	90°	100°F	110°F	UNITS
100°F	40,887	47,456	54,025	60,627	67,307	77,555	82,374	87,193	BTU/hr
100 F	3.11	3.62	4.12	4.52	4.65	5.74	5.95	6.17	COP
110°F	37,641	44,565	51,490	58,721	66,667	73,537	80,458	87,380	BTU/hr
TIOF	2.75	3.21	3.66	4.06	4.33	5.15	5.34	5.53	COP
120°F	37,893	44,710	51,527	58,282	64,890	71,678	76,318	80,958	BTU/hr
120 F	2.57	2.94	3.31	3.67	4.01	4.47	4.71	4.95	COP
130°F	41,405	46,726	52,048	57,866	64,844	69,604	73,436	77,269	BTU/hr
130 F	2.46	2.70	2.94	3.24	3.69	3.73	3.90	4.07	COP
140°F	39,811	45,518	51,225	57,421	64,761	69,646	73,486	77,326	BTU/hr
140 F	2.00	2.29	2.57	2.88	3.25	3.50	3.63	3.76	COP
150°F	N1/A	43,174	48,862	55,590	64,744	67,175	72,308	77,441	BTU/hr
150-1	N/A	1.96	2.18	2.51	3.10	2.70	2.99	3.28	COP

Unit Clearances

Direction	Description	Minimum Clearance Required		
		Horizontal Vertical		
1	Evaporator Coil	20"		
2	Water Connections	20"		
3	Plain Back	140" Nil		
4	Compressor Access	35"		
5	Top - Fan Discharge	20" 140"		

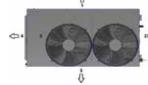
When units are placed side by side, allow at least 40° between evaporator coils. Rating Conditions: 80°F ambient, 60% RH, 100°F Water in, 110°F Water out. * At 60% RH

**Max outlet temperature when ambient is above 70°F.

HPHD-60HNU-201 (Horizontal)



HPHD-60VNU-201 (Vertical) -0



Air to Water 135k BTUh Heat Pump Specifications

Rheem Model Number		HPHD-135HNU-483 (Horizontal)			
ELECTRICAL INPUT					
Voltage/Phase	480 Volts / 3 Phase / 60 H				
Full Load / Locked Rotor (Amps Per Phase)		26.9 FLA	/ 150 LRA		
Min. Circuit Amperage		35 A	Amps		
Refrigerant		R1	34a		
Heating Capacity, BTU/hr*		Up to ⁻	198,305		
Power Input, kW		1:	2.3		
COP*		Up to	5.94		
Noise Level, dBa @ 10ft		6	62		
Rated Load Amps @ 54°F SST / 113°F SCT		2	1.9		
TECHNICAL DATA					
	Compressor	Fan	Compressor		
Make	Copeland	EBM-Papst	Copeland		
Туре	Scroll 20133	Axial	Scroll 20133		
Number Per Unit	1	2	1		
FLA (Full Load Amps, each)	23.7	1.6	23.7		
Voltage / Phase	480 / 3	480 / 3	480 / 3		
Pole/RPM	2/3500	6/1065	2/3500		
Air Flow, CFM	N/A	6316	N/A		
HEAT EXCHANGER (Water Side)					
Type of Water Tube		Doub	le Wall		
Design		Vented Br	azed Plate		
Flow Rate Excl. By Pass, gpm		34	4.9		
Max. Outlet Water Temp, °F		15	i0**		
Design Pressure Drop, PSI	5.8				
Max. Operating Pressure, PSI	225				
GENERAL INFORMATION					
Water Connections	2" Copper				
Drain	3/4" Aluminium				
Defrost	Hot Gas Injection				
Cabinet Construction		18 Gauge Stu	cco Aluminium		
Approx. Shipping Weight, Ibs		8	00		
Size L x W x H	73.1" x 36	.6" x 48.0"	73.1" x 3		

COP Table*

AMBIENT TEMPERATURE							
40°F	50°F	60°F	70°F	80°F	90°	100°F	11
98,390	110,190	121,989	133,331	143,606	175,783	187,044	198
3.34	3.54	3.74	3.97	4.27	5.09	5.52	5
96,531	107,241	117,950	129,301	142,153	174,041	183,026	192
2.75	3.03	3.30	3.59	3.92	4.58	4.65	4
96,182	106,934	117,687	128,788	140,701	161,915	176,746	191
2.77	2.92	3.07	3.26	3.57	4.07	4.37	4
91,783	102,907	114,030	125,795	139,054	149,793	165,278	180
2.04	2.32	2.61	2.90	3.22	3.27	3.50	3
93,632	104,038	114,445	124,999	135,894	153,433	166,836	180
2.24	2.36	2.49	2.65	2.89	3.18	3.24	3
	102,682	111,211	120,373	131,015	145,039	162,508	179
IN/A	1.91	2.11	2.31	2.52	2.73	2.87	3
	98,390 3.34 96,531 2.75 96,182 2.77 91,783 2.04 93,632	98,390 110,190 3.34 3.54 96,531 107,241 2.75 3.03 96,182 106,934 2.77 2.92 91,783 102,907 2.04 2.32 93,632 104,038 2.24 2.36 N/A 102,682	98,390 110,190 121,989 3.34 3.54 3.74 96,531 107,241 117,950 2.75 3.03 3.30 96,182 106,934 117,687 2.77 2.92 3.07 91,783 102,907 114,030 2.04 2.32 2.61 93,632 104,038 114,445 2.24 2.36 2.49 N/A 102,682 111,211	98,390 110,190 121,989 133,331 3.34 3.54 3.74 3.97 96,531 107,241 117,950 129,301 2.75 3.03 3.30 3.59 96,612 106,934 117,687 128,788 2.77 2.92 3.07 3.26 91,783 102,907 114,030 125,795 2.04 2.32 2.61 2.90 93,632 104,038 114,445 124,999 2.24 2.36 2.49 2.65 MA 102,682 111,211 120,373	98,390 110,190 121,989 133,331 143,606 3.34 3.54 3.74 3.97 4.27 96,531 107,241 117,950 129,301 142,153 2.75 3.03 3.30 3.59 3.92 96,182 106,934 117,687 128,788 140,701 2.77 2.92 3.07 3.26 3.57 91,783 102,907 114,030 125,795 139,054 2.04 2.32 2.61 2.90 3.22 93,632 104,038 114,445 124,999 135,894 2.24 2.36 2.49 2.65 2.89 MA 102,682 111,211 120,373 131,015	98,390 110,190 121,989 133,331 143,606 175,783 3.34 3.54 3.74 3.97 4.27 5.09 96,531 107,241 117,950 129,301 142,153 174,041 2.75 3.03 3.30 3.59 3.92 4.58 96,182 106,934 117,687 128,788 140,701 161,915 2.77 2.92 3.07 3.26 3.57 4.07 91,783 102,907 114,030 125,795 139,054 149,793 2.04 2.32 2.61 2.90 3.22 3.27 93,632 104,038 114,445 124,999 135,894 153,433 2.24 2.36 2.49 2.65 2.89 3.18 MA 102,682 111,211 120,373 131,015 145,039	98,390 110,190 121,989 133,331 143,606 175,783 187,044 3.34 3.54 3.74 3.97 4.27 5.09 5.52 96,531 107,241 117,950 129,301 142,153 174,041 183,026 2.75 3.03 3.30 3.59 3.92 4.58 4.65 96,182 106,934 117,687 128,788 140,701 161,915 176,746 2.77 2.92 3.07 3.26 3.57 4.07 4.37 91,783 102,907 114,030 125,795 139,054 149,793 165,278 2.04 2.32 2.61 2.90 3.22 3.27 3.50 93,632 104,038 114,445 124,999 135,894 153,433 166,836 2.24 2.36 2.49 2.65 2.89 3.18 3.24 MA 102,682 111,211 120,373 131,015 145,039 162,508

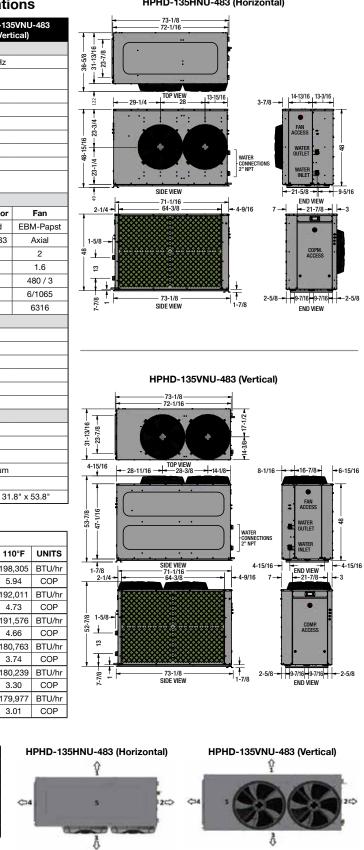
Unit Clearances

Direction	Description	Minimum Clearance Required		
		Horizontal Vertical		
1	Evaporator Coil	20"		
2	Water Connections	20"		
3	Plain Back	140" Nil		
4	Compressor Access	35"		
5	Top - Fan Discharge	20" 140"		

When units are placed side by side, allow at least 40" between evaporator coils. Rating Conditions: 80°F ambient, 60% RH, 100°F Water in, 110°F Water out. * At 60% RH

**Max outlet temperature when ambient is above 70°F.

HPHD-135HNU-483 (Horizontal)





Why Rheem Commercial?

Behind every product solution is the support of Rheem commercial experts. Rheem will be with customers every step of the way through application and design, install, start up, maintenance and service—for an unmatched experience.



Sizing Support Application Engineers

Rheem Applications Engineers are standing by to help you determine the right solution for your next project—get help with specifying products and pro-active replacements for location layouts

Installation, Start-up & Technical Support Training, technical assistance and easily accessible live support when you need help





Stocked Solution

Units and system parts are stocked and available through distributor locations in California and Utah, ensuring quick turnaround on orders, getting you what you need in days versus months

Contractor Network

Our network is trained in every aspect of our commercial heat pump product from application to technical support and servicing



Learn more about Rheem Commercial Heat Pump Solutions at Rheem.com/CommercialHPWH

To get in touch with our sizing pros, email: application.engineering@rheem.com



In keeping with its policy of continuous progress & program improvement, Rheem reserves the right to make changes without notice. PRINTED IN THE USA • 10/21 • WP • HPWHSS-101