



Vertical Stack Water Source Heat Pump



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PRODUCT SPECIFICATIONS
VERTICAL STACK WATER SOURCE HEAT PUMP

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UVHP Series

Sizes	UVHP-02	UVHP-03	UVHP-04	UVHP-05	UVHP-06	UVHP-08	UVHP-10	UVHP-12
Width (in)	16	16	16	18	18	22	22	22
Depth (in)	19	19	19	22	22	26	26	26
Height (in)	80	80	80	80	80	80	80	80

Weight (lbs)	UVHP-02	UVHP-03	UVHP-04	UVHP-05	UVHP-06	UVHP-08	UVHP-10	UVHP-12
Chassis (Operating)	79	81	83	122	123	132	165	175
Cabinet (Operating)	133	133	133	153	153	153	173	173
Cabinet (Shipping)	145	145	145	165	165	165	185	185

For more information, contact info@uniluxvhp.com or visit www.uniluxvhp.com.



Performance Schedule

General Data						
Model	Tonne(s)	CFM	ESP	GPM	Fluid	WPD
UVHP-02	0.50	250	0.10	1.75	Water	4.84
UVHP-03	0.75	340	0.10	2.50	Water	11.33
UVHP-04	1.00	450	0.10	3.00	Water	11.80
UVHP-05	1.25	540	0.10	4.00	Water	14.73
UVHP-06	1.50	650	0.10	5.00	Water	13.66
UVHP-08	2.00	810	0.15	5.50	Water	10.72
UVHP-10	2.50	1000	0.15	7.50	Water	13.45
UVHP-12	3.00	1200	0.15	9.00	Water	14.74

Cooling Data									
Model	EAT-db	EAT-wb	Capacity Total	Capacity Sensible	WATT	EER	THR	EWT	LWT
UVHP-02	80.6	66.25	7269	5506	482	15.08	8913	86	96.19
UVHP-03	80.6	66.25	9321	7061	617	15.11	11425	86	95.14
UVHP-04	80.6	66.25	12676	9525	826	15.34	15496	86	96.33
UVHP-05	80.6	66.25	15448	11787	1003	15.41	18870	86	95.43
UVHP-06	80.6	66.25	19061	14608	1262	15.10	23368	86	95.35
UVHP-08	80.6	66.25	25638	19334	1706	15.03	31458	86	97.44
UVHP-10	80.6	66.25	30706	23175	2034	15.10	37645	86	96.04
UVHP-12	80.6	66.25	34229	25946	2495	13.72	42741	86	95.50

Heating Data								
Model	EAT-db (°F)	EAT-wb (°F)	Capacity	WATT	COP	THA	EWT	LWT
UVHP-02	68	59	7415	497	4.37	5718	68.3	61.8
UVHP-03	68	59	11868	681	5.10	9543	68.3	60.7
UVHP-04	68	59	15438	931	4.86	12259	68.3	60.1
UVHP-05	68	59	17516	1050	4.89	13933	68.3	61.3
UVHP-06	68	59	22866	1408	4.76	18062	68.3	61.1
UVHP-08	68	59	28779	1787	4.72	22681	68.3	60.1
UVHP-10	68	59	32756	2025	4.74	25845	68.3	61.4
UVHP-12	68	59	41233	2681	4.51	32084	68.3	61.2

Electrical Data (w/ECM)						
Model	Voltage/Phase/Hz	Compressor RLA	Compressor LRA	Blower FLA	MCA	Circuit Breaker
UVHP-02	208-230/1/60	3.00	15.0	2.3	6.1 A	15 A
UVHP-03	208-230/1/60	3.70	22.0	2.3	6.9 A	15 A
UVHP-04	208-230/1/60	4.70	26.0	2.3	8.2 A	15 A
UVHP-05	208-230/1/60	5.50	26.0	2.3	9.2 A	15 A
UVHP-06	208-230/1/60	7.40	33.0	2.3	11.6 A	15 A
UVHP-08	208-230/1/60	10.90	61.6	2.8	16.4 A	25 A
UVHP-10	208-230/1/60	11.30	68.0	4.3	18.4 A	30 A
UVHP-12	208-230/1/60	15.40	83.9	4.3	23.6 A	35 A

*277V is also available.

Model UVHP – Standard Features

Unilux vertical stack heat pumps are designed to meet industry-leading performance requirements and are ETL tested. The units are ETL listed for safety requirements UL 1995 / CSA22.2 #236 - Issue 2011 / UL 60335-2-40 2nd Edition. They conform to ANSI/AHRI/ASHRAE ISO STANDARD 13256-1.

1. Cabinet

20-gauge galvanized steel. Configured with front, back, left, right or top supply air openings. Cabinet is fully insulated with 1" fiberglass with a thermosetting resin. It is coated on the air stream side with an acrylic facing without the use of flammable adhesives. Insulation inside the unit: Flame-spread rating no more than 25; Smoke-developed rating no more than 50.

2. Fan & Motor Assembly

A thermally-protected, multi-speed ECM motor is resiliently mounted to a centrifugal fan which has a galvanized steel forward-curved DWDI wheel in a galvanized housing.

3. Refrigeration Chassis

A completely removable, floating-design chassis minimizes vibration and allows easy access for service. The chassis is complete with a rotary or scroll compressor enclosed in a sound dampening and isolated box, coax heat exchanger, TX valve, 4-way reversing valve, balancing valve, 2-way valve and motorized actuator, DX coil and R410a refrigerant piping.

4. Stainless Steel Drain Pan and Overflow Sensor

Stainless-steel drain pan with neoprene insulation. A flex hose will connect the drain pan with the condensate riser and will be easily accessible for cleaning. The pan includes an overflow sensor to detect rising water levels and turn off the unit to prevent flooding.

5. Risers

Supply and return risers are type 'L' copper and condensate risers are type 'DWV'. All have deep expanded ends to facilitate field installation. Supply and return risers can be protected by a galvanized steel enclosure covering the length of the cabinet. Insulation to be provided as per specifications.

6. Unilux Microprocessor-Based Controller

The proprietary Unilux micro-processor controls all operations, including a wall-mount touchscreen thermostat with Wi-Fi control capabilities. Control comfort settings from anywhere at anytime with the Universe app.

7. Filter

A 1" MERV 10 disposable filter is included with the return air intake opening.

8. Access Panel

20-gauge steel construction finished in a durable baked enamel powder coat. Includes a hinged door for easy filter exchange.

9. Supply Air Grilles & Registers

Double-deflection supply air grilles have adjustable vertical and horizontal louvers. They are constructed with light-gauge, powder-coated metal.

10. Ball Valves

Manual shut-off valves.

11. Water Hoses

Flexible supply and return lines isolate compressor noise from the building's pipe system.

12. Unit Tagging

Units can be tagged with specific room numbers, riser numbers and other unique requirements.

BA-21-4521

Our state-of-the-art designs are demanded by today's best developers, engineers and owners. Contact us to learn why Unilux VHP is the preferred choice of professionals throughout North America for vertical stack heat pumps.

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