



Heating & Air Conditioning

# Vertical Stack Water Source Heat Pumps

Product Specifications

# Dimensions & Weights

Dimensions			
Model No.	Width	Depth	Height
AHP-02	16"	19"	80"
AHP-03	16"	19"	80"
AHP-04	16"	19"	80"
AHP-05	18"	22"	80"
AHP-06	18"	22"	80"
AHP-08	22"	26"	80"
AHP-10	22"	26"	80"
AHP-12	22"	26"	80"

Weights			
Model No.	Chassis (Operating)	Cabinet (Operating)	Cabinet (Shipping)
AHP-02	79 lbs.	133 lbs.	145 lbs.
AHP-03	81 lbs.	133 lbs.	145 lbs.
AHP-04	83 lbs.	133 lbs.	145 lbs.
AHP-05	122 lbs.	153 lbs.	165 lbs.
AHP-06	123 lbs.	153 lbs.	165 lbs.
AHP-08	132 lbs.	173 lbs.	185 lbs.
AHP-10	165 lbs.	173 lbs.	185 lbs.
AHP-12	175 lbs.	173 lbs.	185 lbs.



# Standard Features

Arcadian 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 steel. Configured with front, back, left, right or top supply air openings. Cabinet is fully insulated with 1" fibreglass.
- 2. Fan & Motor Assembly** – A thermally-protected, multi-speed EMC motor is mounted to a centrifugal fan.
- 3. Stainless Steel Drain Pan and Overflow Sensor** – A one-piece stamped stainless steel pan. The underside of the drain pan is insulated with ½" thick thermal insulation.
- 4. Risers** – Supply and return risers are type 'I' copper and condensate risers are type 'DVW'. Insulation available.
- 5. Filter** – A 1" disposable filter is included with the return air intake opening.
- 6. Access Panel** – Powder-coated 20-gauge steel construction. Includes a hinged door for easy filter exchange.
- 7. Supply Air Grilles & Registers** – Double-deflection supply air grilles have adjustable vertical and horizontal louvers.
- 8. Ball Valves** – Manual shut-off valves.
- 9. Water Hoses** – Used to connect chassis to supply and return water connections. Isolates compressor noise from the building's pipe system.
- 10. Unit Tagging** – Units can be tagged with specific room numbers, riser numbers, and other unique requirements.



# Performance Schedule



Cooling Data									
Model No.	EAT-db (°F)	EAT-wb (°F)	Capacity (Total)	Capacity (Sensible)	WATT	EER	THR	EWT	LWT
AHP-02	80.6	66.25	7,269	5,506	482	15.08	8,913	86	96.19
AHP-03	80.6	66.25	9,321	7,061	617	15.11	11,425	86	95.14
AHP-04	80.6	66.25	12,676	9,525	826	15.34	15,496	86	96.33
AHP-05	80.6	66.25	15,448	11,787	1,003	15.41	18,870	86	95.43
AHP-06	80.6	66.25	19,061	14,608	1,262	15.10	23,368	86	95.35
AHP-08	80.6	66.25	25,638	19,334	1,706	15.03	31,458	86	97.44
AHP-10	80.6	66.25	30,706	23,175	2,034	15.10	37,645	86	96.04
AHP-12	80.6	66.25	34,229	25,944	2,495	13.72	42,741	86	95.50

Heating Data									
Model No.	EAT-db (°F)	EAT-wb (°F)	Capacity	WATT	COP	THA	EWT	LWT	
AHP-02	68	59	7,415	497	4.37	5,718	68.3	61.8	
AHP-03	68	59	11,868	681	5.10	9,543	68.3	60.7	
AHP-04	68	59	15,438	931	4.86	12,259	68.3	60.1	
AHP-05	68	59	17,516	1,050	4.89	13,933	68.3	61.3	
AHP-06	68	59	22,866	1,408	4.76	18,062	68.3	61.1	
AHP-08	68	59	28,779	1,787	4.72	22,681	68.3	60.1	
AHP-10	68	59	32,756	2,025	4.74	25,845	68.3	61.4	
AHP-12	68	59	41,233	2,681	4.51	32,084	68.3	61.2	

General Data						
Model No.	Tonnes	CFM	ESP	GPM	Fluid	WPD
AHP-02	0.50	250	0.10	1.75	Water	4.84
AHP-03	0.75	340	0.10	2.50	Water	11.33
AHP-04	1.00	450	0.10	3.00	Water	11.80
AHP-05	1.25	540	0.10	4.00	Water	14.73
AHP-06	1.50	650	0.10	5.00	Water	13.66
AHP-08	2.00	810	0.15	5.50	Water	10.72
AHP-10	2.50	1,000	0.15	7.50	Water	13.45
AHP-12	3.00	1,200	0.15	9.00	Water	14.74



Electrical Data						
Model No.	Voltage / Phase / Hz	Compressor RLA	Compressor LRA	Blower FLA	MCA	Circuit Breaker
AHP-02	208-230/1/60	3.0	15.0	2.3	6.1 A	15 A
AHP-03	208-230/1/60	3.7	22.0	2.3	6.9 A	15 A
AHP-04	208-230/1/60	4.7	26.0	2.3	8.2 A	15 A
AHP-05	208-230/1/60	5.5	26.0	2.3	9.2 A	15 A
AHP-06	208-230/1/60	7.4	33.0	2.3	11.6 A	15 A
AHP-08	208-230/1/60	10.9	61.6	2.8	16.4 A	25 A
AHP-10	208-230/1/60	11.3	68.0	4.3	18.4 A	30 A
AHP-12	208-230/1/60	15.4	83.9	4.3	23.6 A	35 A

