



Heating & Air Conditioning

Vertical Stack Hybrid Heat Pumps

Product Specifications

On-Demand Energy Efficient Comfort

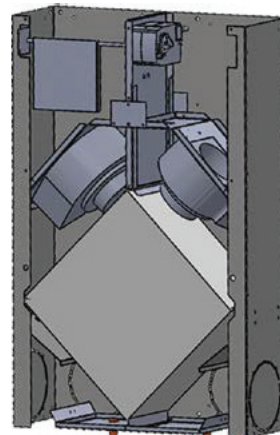
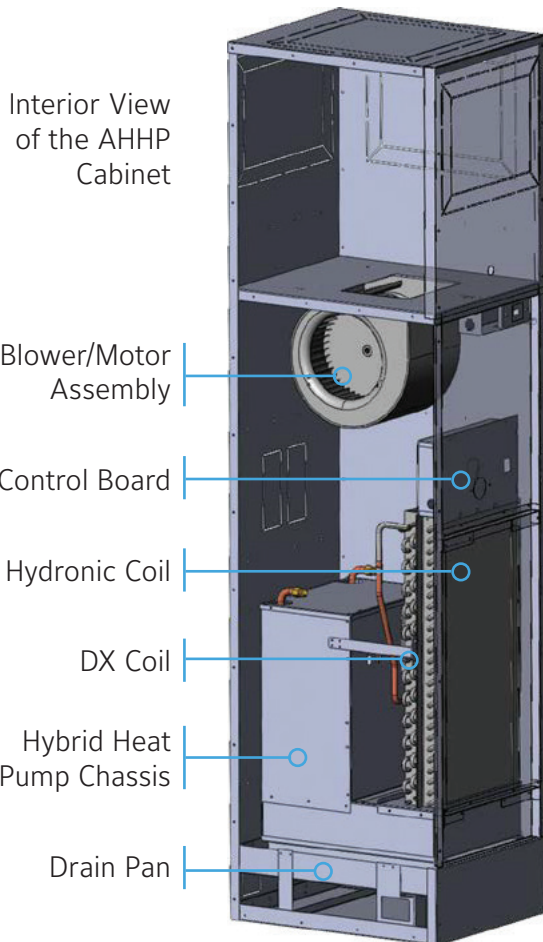
Heating

Heating is provided by a highly efficient hot water coil. Air flows through the coil and is circulated through the suite by a fan. The hydronic coil is connected to a building-wide hot water riser and boiler system.

Cooling

Cooling is provided by a refrigerant compressor and DX coil. Air flows through the cold coil and is distributed to the suite by a fan.

Components & Dimensions



Optional:
Integrated Energy
Recovery Ventilator (ERV)

	AHHP	AHHP-ERV
250 CFM (0.5 Ton)	80"H × 16"W × 19"D	84"H × 20"W × 22"D
350 CFM (0.75 Ton)	80"H × 16"W × 19"D	84"H × 20"W × 22"D
450 CFM (1.0 Ton)	80"H × 16"W × 19"D	84"H × 20"W × 22"D
550 CFM (1.25 Ton)	80"H × 18"W × 22"D	84"H × 20"W × 22"D
650 CFM (1.5 Ton)	80"H × 18"W × 22"D	84"H × 20"W × 22"D
800 CFM (2.0 Ton)	80"H × 22"W × 22"D	84"H × 22"W × 22"D
1,000 CFM (2.5 Ton)	80"H × 22"W × 26"D	84"H × 22"W × 26"D
1,200 CFM (3.0 Ton)	80"H × 22"W × 26"D	84"H × 22"W × 26"D

Standard Features

- 1. Cabinet** – 20-gauge steel. Configured with front, back, left, right or top supply air openings. Cabinet is fully insulated with 1" fiberglass coated on the airstream side with an acrylic facing with 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, EMC motor is mounted to a centrifugal fan.
 - 3. Hydronic Hot Water Coil Assembly** – Coils are rated for a minimum working pressure of 450 PSIG.
 - 4. Stainless Steel Drain Pan** – A one-piece stamped stainless steel pan. The underside of the drain pan is insulated with 1/2" thick thermal insulation.
 - 5. Filter** – A 1" disposable filter is included with the return air grille.
 - 6. Risers** – Supply and return risers are type 'L' copper and condensate risers are type 'DWV'. Insulation available.
 - 7. Access Panel** – Powder-coated 20-gauge steel construction. Includes a hinged door for easy filter exchange.
 - 8. Grilles & Registers** – Double-deflection supply air grilles have adjustable vertical and horizontal louvers.
 - 9. Ball Valves** – Shut-off ball valves.
 - 10. Water Hoses** – Used to connect chassis to supply and return water connections. Isolates compressor noise from the building's pipe system.
 - 11. Unit Tagging** – Units can be tagged with specific room numbers, riser numbers, and other unique requirements.
- Optional Integrated ERV** – Include an integrated energy recovery ventilator (ERV) in your heat pump. ERVs bring in fresh air, exhaust stale air, and maximize energy savings.



Performance Schedule



Cooling Data									
Model No.	EAT-db (°F)	EAT-wb (°F)	Capacity (Total)	Capacity (Sensible)	WATT	EER	THR	EWT	LWT
AHHP-02	80.6	66.25	7,496	5,506	499	15.0	9,199	86	96.51
AHHP-03	80.6	66.25	9,398	7,061	624	15.1	11,527	86	95.22
AHHP-04	80.6	66.25	12,292	9,675	811	15.1	15,061	86	95.27
AHHP-05	80.6	66.25	15,463	11,661	993	15.6	18,850	86	95.42
AHHP-06	80.6	66.25	18,139	14,347	1,180	15.4	22,165	86	94.87
AHHP-08	80.6	66.25	25,832	19,570	1,686	15.3	31,584	86	96.53
AHHP-10	80.6	66.25	30,769	23,308	2,038	15.1	37,723	86	96.06
AHHP-12	80.6	66.25	34,229	25,946	2,490	13.7	42,724	86	95.49

Heating Data					
Model No.	EAT-db (°F)	EAT-wb (°F)	Capacity	EWT	LWT
AHHP-02	68	59	9,520	110	99.0
AHHP-03	68	59	12,490	110	99.9
AHHP-04	68	59	15,640	110	100.3
AHHP-05	68	59	18,140	110	100.8
AHHP-06	68	59	21,030	110	101.5
AHHP-08	68	59	27,450	110	100.8
AHHP-10	68	59	32,610	110	101.2
AHHP-12	68	59	37,340	110	100.8

General Data						
Model No.	Tonnes	CFM	ESP	GPM	Fluid	WPD
AHHP-02	0.50	250	0.10	1.75	Water	4.84
AHHP-03	0.75	340	0.10	2.50	Water	11.33
AHHP-04	1.00	450	0.10	3.25	Water	13.80
AHHP-05	1.25	540	0.10	4.00	Water	16.76
AHHP-06	1.50	650	0.10	5.00	Water	18.46
AHHP-08	2.00	800	0.15	6.00	Water	12.63
AHHP-10	2.50	1,000	0.15	7.50	Water	13.45
AHHP-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
AHHP-02	208-230/1/60	3.0	15.0	2.3	6.1 A	15 A
AHHP-03	208-230/1/60	3.7	22.0	2.3	6.9 A	15 A
AHHP-04	208-230/1/60	4.7	26.0	2.3	8.2 A	15 A
AHHP-05	208-230/1/60	5.50	26.0	2.3	9.2 A	15 A
AHHP-06	208-230/1/60	7.4	33.0	2.3	11.6 A	15 A
AHHP-08	208-230/1/60	10.9	61.6	2.8	16.4 A	25 A
AHHP-10	208-230/1/60	11.3	68.0	4.1	18.4 A	30 A
AHHP-12	208-230/1/60	15.5	83.9	4.1	23.6 A	35 A

