



Air Conditioning & Heating

AH SERIES

Vertical Hydronic Heat Air Handler

1½ to 3 Ton
[5.1 kW to 10.6 kW]



Large Chassis



Small Chassis

The AH vertical hydronic heat air handler is designed to be wall- or stud-mounted.

Standard Equipment Features

- Direct-drive, multi-speed motor permits air volume flexibility
- Equipped with a check flowrater for cooling-only and heat pump operation
- Thermoplastic drain pan with bottom primary and secondary drain connections
- Factory-installed hydronic coil
- Factory-installed circulator pump and check valve
- Secondary check valve included for field installation
- Built-in filter rack (filter included)
- Wall hanging bracket provided
- Flue gas door switch
- Small chassis front or bottom return
- Large chassis front return only
- -1FP models have a factory-installed freeze protection control

Cabinet Construction

- Galvanized steel cabinet construction
- Insulated cabinet

Compatibilities

- TWC 10 SEER wall mount condensing unit
- CK/CKL 10 SEER upflow condensing unit
- CPKE/CPL 10 SEER upflow heat pump condensing unit
- CKJ/CLJ 12 SEER upflow condensing unit
- CPKJ/CPLJ 12 SEER upflow heat pump condensing unit
- May be installed with any properly sized gas or oil-fired water heater

Accessories

- Freeze Protection Kit (FP-01)
- Water Circulator Timer Kit (WCK-01)
- WAD-1 fits AH18&24
- WAD-2 fits AH30&36



PRODUCT SPECIFICATIONS

Physical Data

Model	Blower		Refrigeration Connection		Water Connection		Drain Connection NPT	Approximate Shipping Weight (lb.)
	Diameter	Width	Liquid	Suction	In	Out		
AH1826-1/-1FP*	9"	6"	3/8"	5/8"	7/8"	7/8"	3/4"	95
AH2429-1/-1FP*	10"	6"	3/8"	5/8"	7/8"	7/8"	3/4"	100
AH3043-1FR/-1FRFP*	9"	8"	3/8"	3/4"	7/8"	7/8"	3/4"	135
AH3645-1FR/-1FRFP*	10"	8"	3/8"	3/4"	7/8"	7/8"	3/4"	140

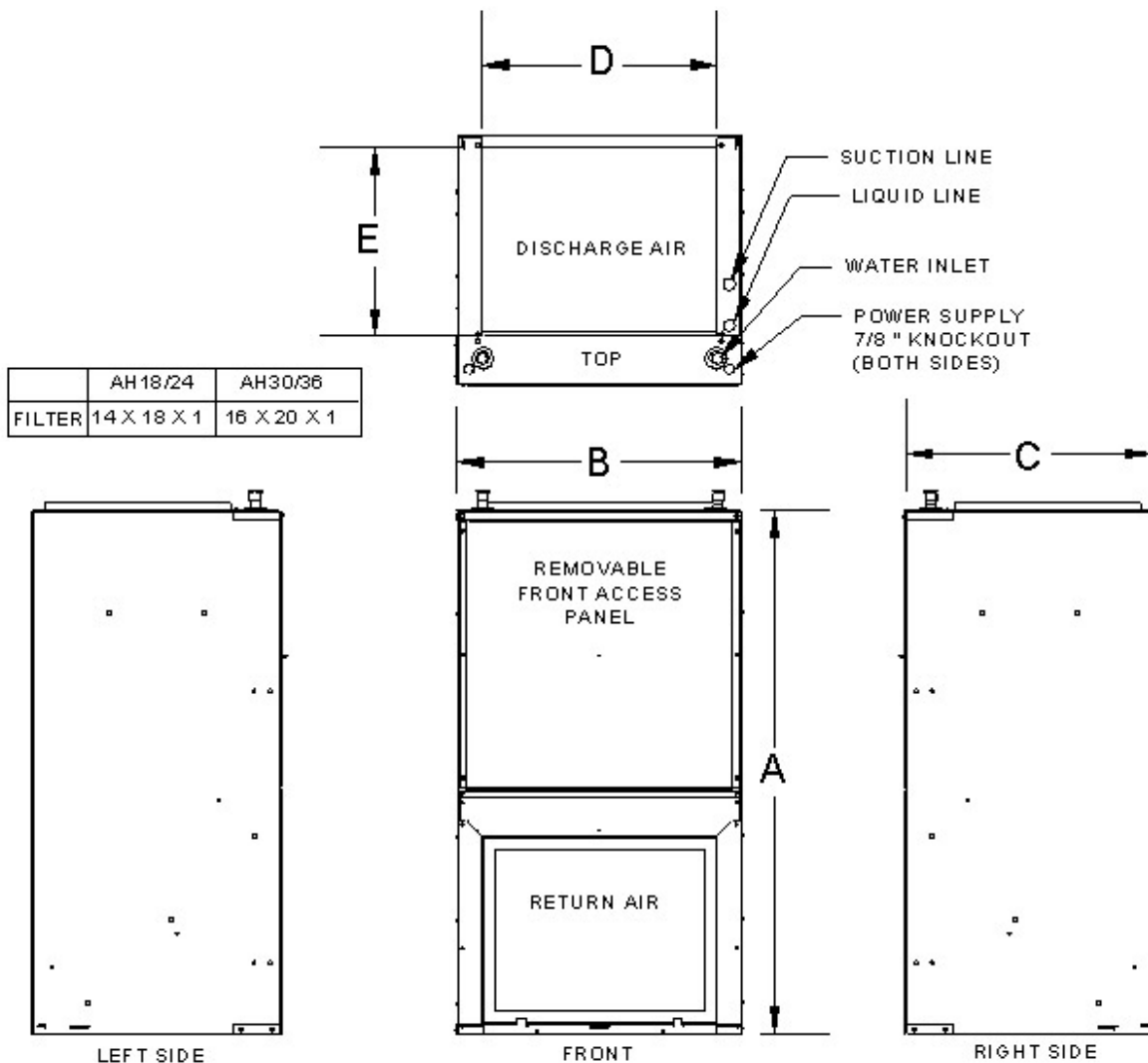
* -1FP designates models with a factory-installed freeze protection control

Dimensions

Model		A	B	C	D	E
AH1826-1/-1FP*	Small Chassis	39 ³ / ₄ "	20 ³ / ₁₆ "	16 ¹ / ₈ "	16"	11"
AH2429-1/-1FP*		39 ³ / ₄ "	20 ³ / ₁₆ "	16 ¹ / ₈ "	16"	11"
AH3043-1FR/-1FRFP*	Large Chassis	44 ¹ / ₄ "	24"	21"	19 ⁷ / ₈ "	16"
AH3645-1FR/-1FRFP*		44 ¹ / ₄ "	24"	21"	19 ⁷ / ₈ "	16"

* -1FP designates models with a factory-installed freeze protection control

Dimensional Data



PRODUCT SPECIFICATIONS

Electrical Data

Model	Volt	Min Volt	Max Volt	Minimum Ampacity	Maximum Overcurrent Protection	Blower Motor		Circulator Motor FLA
						FLA	HP	
AH1826-1/-1FP*	115	103	126	7.2	15 A	5.2	1/3	0.74
AH2429-1/-1FP*	115	103	126	7.2	15 A	5.2	1/3	0.74
AH3043-1FR/-1FRFP*	115	103	126	7.2	15 A	5.2	1/3	0.74
AH3645-1FR/-1FRFP*	115	103	126	7.2	15 A	5.2	1/3	0.74

May use fuses or HACR type Circuit Breakers of the same size as noted.

+ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

* -1FP designates models with a factory-installed freeze protection control

Performance Ratings

Model	Capacity Cooling Nominal BTUH	Capacity Heating ENT. Water Temp °F		
		120°	140°	180°
AH1826-1/-1FP*	18,000	18,400	26,000	40,500
AH2429-1/-1FP*	24,000	20,600	29,000	45,800
AH3043-1FR/-1FRFP*	30,000	30,500	43,000	67,000
AH3645-1FR/-1FRFP*	36,000	32,000	45,000	71,000

* -1FP designates models with a factory-installed freeze protection control

Blower Performance (Wet Coil)

Model	Motor Speed	CFM Delivered Against External Static Pressure				
		0.1	0.2	0.3	0.4	0.5
AH1826-1/-1FP*	Low	680	620	570	510	450
	Med	755	690	635	570	505
	High	800	730	675	600	535
AH2429-1/-1FP*	Low	720	675	640	595	540
	Med	810	760	720	670	610
	High	870	815	775	720	665
AH3043-1FR/-1FRFP*	Low	970	920	860	800	730
	Med	1080	1020	960	890	820
	High	1140	1080	1020	950	870
AH3645-1FR/-1FRFP*	Low	1020	995	945	905	835
	Med	1150	1120	1060	1010	940
	High	1310	1250	1190	1130	1060

Note: When matching the outdoor unit to the indoor unit, refer to the piston kit chart for proper piston selection

* -1FP designates models with a factory-installed freeze protection control



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