

HEAT CONTROLLER

ENERGY  **KNIGHT**
HYDRONIC AIR HANDLERS

AHB Series
1-1/2 to 5 Tons



Blower Time Delay (30-45 sec.)

Warms coil before blower is energized

Line Voltage Terminal Block

Low Voltage Terminal Strip

Allows easy thermostat connection

High-Temp Nylon Drain Pans

Resists corrosion and bacterial growth

Slide-Out Blower Assembly

Multi-Position-Vertical, Horizontal left or right, Downflow (with conversion kit)

Factory Installed Air Filter

(standard sizes)

Heating and Cooling, Freeze Protection (standard)

Protects the entire system from harmful conditions
year round

3/4" Water Connections

Assures correct water supply lines

Cabinet Features

Galvanized pre-painted steel for maximum corrosion protection. Interlocking access panels and gasketed screws help eliminate air leakage.

Multi-position: vertical, horizontal left or right, and downflow with conversion kit.

Hydronic Coil

Built-in design

Aluminum fin/copper tube construction

Air bleed valves

3/4" water connections

Evaporator Coil

Aluminum fin/copper tube

Nylon drain pans

Primary and secondary drains

Coil carries 5-year warranty

Electrical

120 volt system

24 volt control circuit

Low voltage terminal strip

High voltage supply at top of cabinet

Post-purge timer for cooling

AHB-Hydronic Air Handlers (1½ - 5 tons)

- The **AHB** family of high efficient Hydronic Air Handlers offers the most standard features in the industry today.
- Includes a low voltage terminal strip and 24 volt transformer for easy wiring.
- A 30-45 second blower time delay preheats the hydronic coil.
- Multi-position-vertical, horizontal left or right, downflow with conversion kit.
- Freeze protection in both heat and cool modes for the ultimate in protection.
- The AHB family is ARI matched with Energy Knight® line of condensing units.

PERFORMANCE DATA

MODEL	TONS CLG.	REFRIGERANT CONN. SIZE	ARI MATCHED COND. UNIT	NOMINAL HEATING @180°F	NOM. CLG @.2esp w/coil	SHIP WEIGHT	FILTER SIZE
AHB24-52*	1.5	3/4" & 3/8"	RSC1018-1	52,000	600	135	16x20x1
AHB24-52	2.0	3/4" & 3/8"	RSC1024-1	52,000	800	135	16x20x1
AHB30-63	2.5	3/4" & 3/8"	RSC1030-1	63,000	1,000	135	16x20x1
AHB36-82	3.0	3/4" & 3/8"	RSC1036-1	82,000	1,330	185	20x25x1
AHB48-107*	3.5	7/8" & 3/8"	RSC1042-1Z	107,000	1,450	185	20x25x1
AHB48-107	4.0	7/8" & 3/8"	RSC1048-1Z	107,000	1,740	185	20x25x1
AHB60-125	5.0	7/8" & 3/8"	RSC1060-1Z	125,000	2,000	185	20x25x1

*-Piston change required, piston supplied with air handler.

BLOWER PERFORMANCE DATA

MODEL NUMBER	Motor @115 V. 60 Hz.		BLOWER WHEEL	MOTOR SPEEDS	SCFM vs.ESP (1)				
	HP.	FLA			0.1	0.2	0.3	0.4	0.5
AHB24-52	1/4	3.2	10x6	H	840	790	750	700	660
				M	820	760	755	680	630
				L	770	700	630	600	—
AHB30-63	1/3	6.2	10x7	H	1010	980	930	865	830
				M	975	935	895	845	800
				L	950	900	860	810	—
AHB36-82	1/3	6.2	10x8	H	1360	1310	1270	1230	1190
				M	1340	1250	1170	1090	1060
				L	1280	1170	1040	970	—
AHB48-107	3/4	9.5	11x9	H	1860	1740	1640	1530	1480
				M	1780	1620	1510	1390	1280
				L	1680	1500	1320	1250	—
AHB60-125	3/4	9.7	11x11	H	1950	1900	1845	1770	1720
				M	1820	1750	1620	1470	1440
				L	1750	1640	1390	1270	—

(1)- Based on unit w/nominal tonnage dry coil and filter installed.

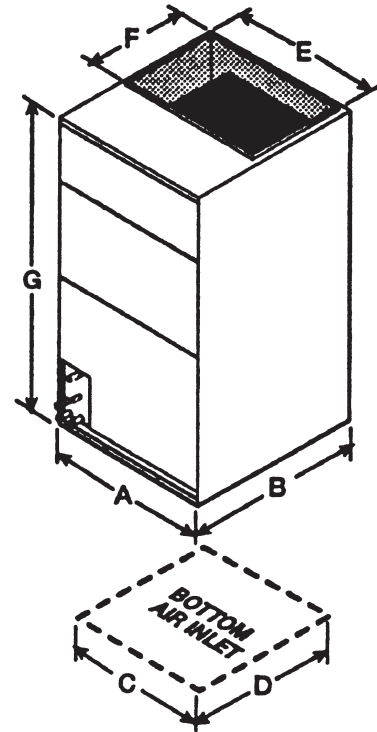
Use .96 as approximate correction factor for wet coil.

DIMENSIONS (Inches)

DIMENSIONS	A	B	C	D	E	F	G
AHB24, 30	17 ½	21	15	17 ½	16	12 ½	40 ¾
AHB36, 42, 48, 60	21 ½	25	19 ¼	22 ¼	19 ½	17 ¼	49 ¾

DOWNFLOW CONVERSION KITS

MODEL	KIT NUMBER
AHB24	7606-101
AHB30	7606-102
AHB36	7606-103
AHB48	7606-104
AHB60	7606-105



EXTENDED RANGE DATA (Water Temp.)

MODEL	HEATING NOM. SCFM†	130°F	140°F	150°F	160°F	170°F	180°F	GPM	P.D. FT. H ₂ O
AHB24-52	790H	29,000	33,000	38,000	42,800	47,600	52,000	4	2.3
AHB30-63	980H	34,000	39,000	43,000	48,500	56,000	62,500	4	2.3
AHB36-82	1170L	45,000	50,000	60,000	67,000	74,000	82,000	4	1.4
AHB48-107	1740H	59,000	67,000	78,000	88,000	97,000	107,000	4	.80
AHB60-125	1900H	69,000	80,000	91,000	102,500	113,500	125,000	7	2.5

† H=High L=Low

AHB EXTENDED RANGE DATA (BASED ON WATER FLOW)

Model Number	180°F ENTERING WATER							
	2.0 GPM	3.0 GPM	4.0 GPM	5.0 GPM	6.0 GPM	7.0 GPM	8.0 GPM	9.0 GPM
AHB24-52	43,250	48,250	52,000	54,200	55,800	N/A	N/A	N/A
AHB30-63	50,400	58,200	63,000	66,200	68,500	N/A	N/A	N/A
AHB36-82	65,000	74,500	82,000	87,000	90,700	N/A	N/A	N/A
AHB48-107	74,300	93,000	107,000	115,100	122,000	N/A	N/A	N/A
AHB60-125	75,900	95,700	109,500	119,600	123,300	125,000	128,600	133,000

**AHW Series Features Circulating Pump
with Relay for Hot Water Connection on the Top
AHW SERIES MATCHED SYSTEM PERFORMANCE**

MODEL	COOLING TONS	ARI MATCHED COND. UNIT	NOMINAL HEATING @ 140-deg. F	NOMINAL COOLING SCFM @.2esp w/coil	SHIP WEIGHT	FILTER SIZE
AHW24-33*	1.5-2.0	RSC1018-1	33,000	600	135	16x20x1
AHW24-33	2.0	RSC1024-1	33,000	800	135	16x20x1
AHW30-39	2.5	RSC1030-1	39,000	1,000	135	16x20x1
AHW36-50	3.0	RSC1036-1	50,000	1,330	185	20x25x1
AHW48-67*	3.5	RSC1042-1	67,000	1,450	185	20x25x1
AHW48-67	4.0	RSC1048-1	67,000	1,740	185	20x25x1
AHW60-80	5.0	RSC1060-1	80,000	2,000	185	20x25x1

*Piston change required, piston supplied with air handler

Ask about other Energy Knight® products for cool comfort...

- 10 S.E.E.R. Central Air Conditioners
- 12 S.E.E.R. Central Air Conditioners
- Wall-Mount Packaged Air Conditioners and Heat Pumps
- Packaged Air Conditioning and Mobile Home A/C
- HAH Series Air Handlers
- 10 S.E.E.R. Heat Pumps
- 12 S.E.E.R. Heat Pumps

Specifications and performance data subject to change without notice.

HEAT CONTROLLER, INC.

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THE QUALITY LEADER IN CONDITIONING AIR

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