

AFHEAT 12B

Heat Pumps



Features

- Top discharge directs hot air and noise away from the living area
- Durable Copeland® scroll compressors with internal pressure relief valves and inherent thermal protection
- Temperature defrost system effectively keeps the unit defrosted with fieldselected intervals of 30, 60 or 90 minutes
- Thermostatic expansion value provides reliable performance over a broad range of heating conditions
- All units are run tested to ensure faultless operation
- Nailtex[®] Hail Guard[™] protects against fin damage that can reduce efficiency
- Easy-access electrical panels, pre-wired for easy hook-up
- Hinged control panels for simple access to internal components

- Service valve gauge ports positioned for access room for low-loss fittings
- External brass service/shut-off valve save refrigerant charge for safer operation
- Liquid line filter drier prevent moisture and compressor damage
- High quality condenser coil-copper tube with enhanced louvered fin for greater heat transfer
- Permanently lubricated condenser fan motor needs no annual maintenance
- Heavy-gauge, pre-painted cabinet for corrosion protection
- · Accumulator is standard on all models
- Precharged for 15 feet of interconnecting tubing
- ETL/ETLC approved
- ARI listed/certified

Efficiency:

12 SEER; 7.2 HSPF

Warranty:

10-year limited—compressor 5-year limited—parts

Capacity:

1-1/2 to 5-ton

AFHEAT12B Heat Pumps

Unit Specifications

		AFHEAT12B18	AFHEAT12B24	AFHEAT12B30	AFHEAT12B36	AFHEAT12B42	AFHEAT12B48	AFHEAT12B60
Face Area	(ft.²)	9.86	12.33	14.86	19.82	22.29	14.86	19.82
Tube/Fin M Tube Diam No. of Row	laterial	Grooved Cu/ Aluminum						
Tube Diam	eter	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
No. of Row	S	1	1	1	1	1	2	2
Fins per In	ch	20	20	20	20	20	20	20
Diameter (in.)	18"	18"	22"	22"	22"	22"	22"
No. of Blad	es	3	3	3	3	3	3	3
No. of Blad RPM Motor HP		1100	1100	1100	1100	1100	1100	1100
Motor HP		1/10	1/10	1/5	1/5	1/4	1/4	1/4
Liquid Line Connection		3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor Line Size Required		5/8"	5/8"	3/4"	3/4"	7/8"	7/8"	1-1/8"*
Vapor Line Connection		5/8"	5/8"	3/4"	3/4"	7/8"	7/8"	7/8"
Indoor Section		DBP18AA + TXV	DBP24AA + TXV	DBP30BA + TXV	DBP42BA + TXV	DBP42CA + TXV	DBP48DA + TXV	DBP60DA + TXV
Airflow (SCFM)		650	800	1050	1200	1400	1500	1900
Net Cooling Capacity (BTUH)		17,400	22,800	29,200	35,200	42,000	47,000	58,000
SEER (BTUH/WATT)		12.00	12.00	12.00	12.00	12.00	12.00	12.00
Net Heating Capacity (BTUH)		17,400	22,800	29,000	34,600	41,500	48,000	59,000
HSPF		7.20	7.50	7.50	7.50	7.50	8.00	8.00
Cabinet Width		22-1/2" x 22-1/2"	22-1/2" x 22-1/2"	30" x 30"				
Cabinet Depth		22-1/2" x 22-1/2"	22-1/2" x 22-1/2"	30" x 30"				
Height		27-1/2"	33-1/2"	27-1/2"	35-1/2"	39-1/2"	27-1/2"	35-1/2"

^{*}Field-supplied 7/8" to 1-1/8" adapter required. Use of 7/8" vapor line reduces performance approximately 3-4%. Certified in accordance with the ARI Standard 210/240 certification program, which is based on ARI Standard 210/240.

Electrical Data

		AFHEAT12B18	AFHEAT12B24	AFHEAT12B30	AFHEAT12B36	AFHEAT12B42	AFHEAT12B48	AFHEAT12B60
Unit	Rated Voltage (Volts)	208/230	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1
	Frequency (Hz.)	60	60	60	60	60	60	60
Com- pressor	Rated Load Amps	10.0	11.4	15.0	17.9	20.0	21.4	32.1
	Locked Rotor Amps	41.0	56.0	72.5	90.0	104	137	169
Fan Motor	Full Load Amps	0.75	0.75	1.4	1.4	1.4	2.0	2.0
	Locked Rotor Amps	1.4	1.4	2.4	2.4	3.4	4.3	4.3
= :	Max. Fuse Size*	15	20	30	35	40	45	60
	Min. Circuit Ampacity**	9.7	12.8	18.2	21.4	24.6	26.9	39.2

^{*}Time delay fuse/HACR Breaker

Accessories

	AFHEAT12B18	AFHEAT12B24	AFHEAT12B30	AFHEAT12B36	AFHEAT12B42	AFHEAT12B48	AFHEAT12B60
High Pressure Switch	70L70						
Low Pressure Switch	70L72						
Short Cycle Protection	Standard Factory-Installed						
Hard Start Kit	70L80	70L80	70L80	70L80	70L80	70L80	70L79
Crankcase Heater	70L84	70L84	70L84	70L84	70L84	70L84	70L83
Sound Blanket	70L87	70L87	70L87	70L88	70L88	70L88	70L86
Outdoor Thermostat	70L93						
Fossil Fuel Kit	70L92						

^{**}Refer to national Electrical Code (or Canadian Electrical Code) to determine wire size, fuse and disconnect size requirements.



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