



AFSA10B

Electric Cooling Packaged Unit



Features

- Dedicated air conditioning for compact footprint
- All models feature side-by-side horizontal duct connections
- 4- and 5-ton models are convertible to downshot
- High external static pressure (up to 0.8" w.c.) allowing flexible installation
- Efficient reciprocating compressor is safeguarded by internal pressure relief valves and inherent thermal protection
- Adaptable for light commercial applications
- Compressor suction and service valve gauge ports are positioned to provide plenty of access room
- Coil, compressor and reversing valve are located behind slide-out panels
- Indoor air blower is mounted on slides for easy access
- Field-installed plug-in electric heat strips from 5-25 kW offer installation flexibility
- Dependable components such as the reciprocating compressor operate quietly and efficiently year after year
- Internal pressure relief valves and inherent thermal protection safeguard against unit failure
- Permanently lubricated condenser fan motor eliminates annual maintenance
- Durable cabinetry sheds water and locks out the weather in every season
- Naltex® Hail Guard™ protects against fin damage that can reduce efficiency
- All models ETL, ETLC and ARI listed

Efficiency:
10 SEER

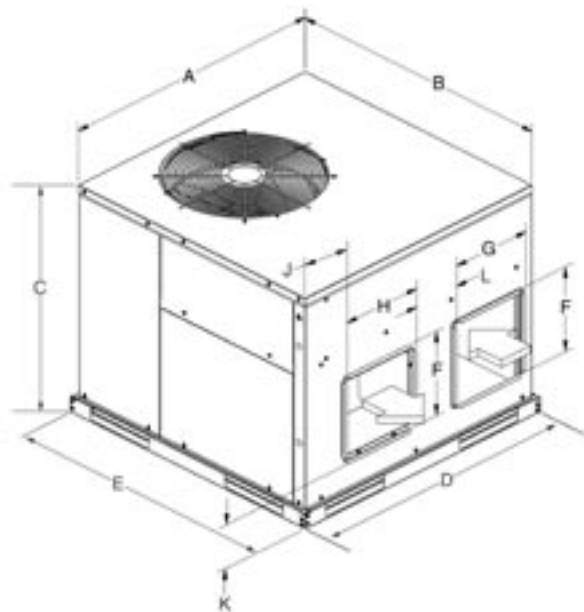
Warranty:
5-year limited—compressor
5-year limited—components

Capacity:
2- to 5-ton cooling

AFSA10B Electric Cooling Packaged Unit

Unit Specifications

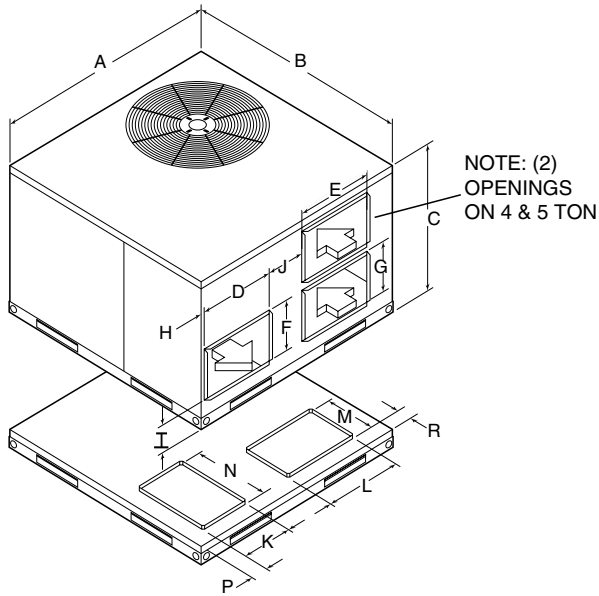
		AFSA10B24	AFSA10B30	AFSA10B36	AFSA10B42	AFSA10B48	AFSA10B60
Condensor Coil	Face Area (ft. ²)	6.71	6.71	6.71	6.71	11.97	11.97
	Tube/Fin Material	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum
	Tube Diameter	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	No. of Rows	1	2	2	3	2	2
	Fins per Inch	20	20	20	20	20	20
OD Fan	Diameter (in.)	18"	18"	18"	18"	22"	22"
	No. of Blades	3	4	4	4	3	3
	RPM	1100	1100	1100	1100	1100	1100
Evaporator Coil	Face Area (ft. ²)	2.67	2.67	2.67	2.67	4.67	4.67
	Tube/Fin Material	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum	Grooved Copper /Aluminum
	Tube Diameter (in.)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	No. of Rows	2	3	3	4	3	3
	Fins per Inch	14	16	16	16	16	16
	Indoor Blower Wheel (DxW)	10" x 8"	10" x 8"	10" x 8"	10" x 8"	10" x 10"	10" x 10"
	Refrigerant Charge, R-22 (oz.)	58	66	71	96	126	130
	Unit Weight (lbs.)	245	280	290	315	405	420
Dimensions	Cabinet Width (A)	39"	39"	39"	39"	47-3/8"	47-3/8"
	Cabinet Depth (B)	39"	39"	39"	39"	47-3/8"	47-3/8"
	Height (C)	31-7/8"	31-7/8"	31-7/8"	31-7/8"	35-7/8"	35-7/8"
	Baseraill Width (D)	40-3/8"	40-3/8"	40-3/8"	40-3/8"	48-3/4"	48-3/4"
	Baseraill Depth (E)	40-3/8"	40-3/8"	40-3/8"	40-3/8"	48-3/4"	48-3/4"
	Return Opening(s) (FxG)	12" x 12"	12" x 12"	12" x 12"	12" x 12"	10-9/16" x 16-1/16"	10-9/16" x 16-1/16"
	Supply Opening(s) (FxH)	12" x 12"	12" x 12"	12" x 12"	12" x 12"	10-9/16" x 16-1/16"	10-9/16" x 16-1/16"
	J	6-3/8"	6-3/8"	6-3/8"	6-3/8"	1"	1"
	K	5-7/8"	5-7/8"	5-7/8"	5-7/8"	5-3/4"	5-3/4"
	L	6-3/4"	6-3/4"	6-3/4"	6-3/4"	8"	8"
Duct Configuration		Dedicated Horizontal	Dedicated Horizontal	Dedicated Horizontal	Dedicated Horizontal	Convertible	Convertible



AFSA10B Electric Cooling Packaged Unit

Unit Dimensions – Downflow and Side Conversions

	AFSA10B48P/T	AFSA10B60P/T
Cabinet Width (A)	47-3/8"	47-3/8"
Cabinet Depth (B)	47-3/8"	47-3/8"
Height (C)	30-3/4"	30-3/4"
Supply Opening Hor. (D x F)	16 x 10-9/16	16 x 10-9/16
Return Opening Hor. (E x G)	16 x 10-9/16	16 x 10-9/16
Side of Unit to Supply Opening, Hor. (H)	1"	1"
Bottom of Unit to Supply & Return Openings, Hor. (I)	3-5/16"	3-5/16"
Supply to Return Openings, Hor. (J)	8-3/16"	8-3/16"
Supply Opening Downshot (K x N)	10-9/16 x 16"	10-9/16 x 16"
Return Opening Downshot (L x M)	16 x 10-9/16"	16 x 10-9/16"
Side of Unit to Supply Opening Downshot (P)	3-3/4"	3-3/4"
Back Edge to Supply & Return Downshot (R)	3-1/8"	3-1/8"



AFSA10B Electric Cooling Packaged Unit

Electrical Data

		AFSA10B24	AFSA10B30	AFSA10B36	AFSA10B42	AFSA10B48	AFSA10B60
Unit	Rated Voltage (Vac)	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	Frequency (Hz.)	60	60	60	60	60	60
	Approved Voltage Range	197-253	197-253	197-253	197-253	197-253	197-253
	Minimum Circuit Amps	12.8	17.5	19.3	23	32.8	38.2
	Maximum Fuse ¹	20	30	30	40	50	60
Com-pressor	Rated Load Amps	11.4	15.7	15.7	20	24.3	28.6
	Locked Rotor Amps	54	73	93	103	131	150
Fan Motor	Full Load Amps	0.8	1.1	1.1	2	2	2
	Horsepower	1/10	1/5	1/5	1/4	1/4	1/4
Indoor Blower	Full Load Amps	2.1	2.1	3.9	3.9	5.0	5.0
	Horsepower	1/3	1/3	1/2	1/2	9/10	9/10

¹ Time delay fue/HACR Breaker

Performance Data

		AFSA10B24	AFSA10B30	AFSA10B36	AFSA10B42	AFSA10B48	AFSA10B60
Cooling	Cooling Capacity ^{1,2}	23,000	29,200	34,200	40,000	46,000	56,500
	SEER ¹	10.5	10.5	10.5	10.00	10.7	10.3
	EER	9.6	9.5	9.3	8.6	9.5	9.3
	S/T ³	0.71	0.75	0.73	0.72	0.73	0.71
	Airflow (SCFM)	800	1050	1250	1450	1650	1920

¹ Certified in accordance with ARI Standard 210/40 certification program, which is based on ARI Standard 210/240.

² Net capacity based on 95F outdoor dry bulb, 80F indoor dry bulb, and 67F indoor wet bulb at rated airflow.

³ Net sensible capacity divided by net total capacity at ARI Standard 210/240 Test A.

AFSA10B Electric Cooling Packaged Unit

Airflow Data

External Static pressure (in w.c.)	AFSA10B24			AFSA10B30			AFSA10B36		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
0.10	800	1100	1260	800	1100	1260	1380	1560	1830
0.20	850	940	1100	1050	1160	1400	1050	1160	1400
0.30	800	890	1060	1020	1120	1350	1020	1120	1350
0.40	790	870	1000	1000	1080	1280	1000	1080	1280
0.50	770	840	940	950	1030	1200	950	1030	1200
0.60	750	800	880	910	980	1120	910	980	1120
0.70	670	720	800	840	900	1030	840	900	1030
0.80	600	660	720	750	780	920	750	780	920

External Static pressure (in w.c.)	AFSA10B42			AFSA10B48			AFSA10B60		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
0.10	1380	1560	1830	1990	2080	2160	1990	2080	2160
0.20	1480	1570	1640	1750	1920	2150	1750	1920	2150
0.30	1430	1500	1560	1720	1870	2100	1720	1870	2100
0.40	1360	1440	1500	1650	1790	2030	1650	1790	2030
0.50	1290	1340	1400	1600	1730	1950	1600	1730	1950
0.60	1230	1270	1300	1550	1650	1875	1550	1650	1875
0.70	1170	1200	1260	1480	1580	1750	1480	1580	1750
0.80	1050	1100	1160	1400	1500	1650	1400	1500	1650

External Static pressure (in w.c.)	AFSA10B48			AFSA10B60		
	Low	Medium	High	Low	Medium	High
0.10	2090	2180	2260	2090	2180	2260
0.20	2020	2100	2170	2020	2100	2170
0.30	1970	2060	2080	1970	2060	2080
0.40	1890	1960	2000	1890	1960	2000
0.50	1790	1880	1920	1790	1880	1920
0.60	1700	1770	1820	1700	1770	1820
0.70	1590	1660	1710	1590	1660	1710
0.80	1490	1560	1610	1490	1560	1610

¹ Wet coil, 230V, no filter.

AFSA10B Electric Cooling Packaged Unit

Accessories

	AFSA10B24	AFSA10B30	AFSA10B36	AFSA10B42	AFSA10B48	AFSA10B60
High Pressure Switch	20442501	20442501	20442501	20442501	20442501	20442501
Low Pressure Switch	20442502	20442502	20442502	20442502	20442502	20442502
Low Ambient Kit	20442504	20442504	20442504	20442504	20442504	20442504
Short Cycle Protection	Factory-Installed	Factory-Installed	Factory-Installed	Factory-Installed	Factory-Installed	Factory-Installed
Hard Start Kit	20442707	20442707	20442707	20442707	20442707	20442706
Crank Case Heater Kit	20442803	20442803	20442803	20442803	20442803	20442802
Sound Blanket	20442903	20442903	20442904	20442904	20442904	20442902
Roof Curb	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20490001	20490001
Manual Outside Air Damper	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20490101	20490101
Motorized Outside Air Damper	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20490201	20490201
Economizer	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20490301	20490301
Round Duct Adapter	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20490401	20490401
Filter Rack	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20490501	20490501

Accessory Heat Kits						
BHC05P	20491304	20491304	20491304	20491304	20491304	20491304
BHP05P	20491301	20491301	20491301	20491301	20491301	20491301
BHC07P	20491305	20491305	20491305	20491305	20491305	20491305
BHP07P	20491302	20491302	20491302	20491302	20491302	20491302
BHC10P	20491306	20491306	20491306	20491306	20491306	20491306
BHP10P	20491303	20491303	20491303	20491303	20491303	20491303
BHC15P	20491307	20491307	20491307	20491307	20491307	20491307
BHC20P	20491308	20491308	20491308	20491308	20491308	20491308
No Heat Kit ¹	20491401	20491401	20491401	20491401	20491401	20491401

¹ No Heat Kit required for operation if electric heat is not installed.

BHC = Accessory heat kit with circuit breaker.

BHP = Accessory heat kit with pigtail only (no breaker).

AFSA10B Electric Cooling Packaged Unit

Accessory Heat Kits Electrical Rating Information

					AFSA10B24	AFSA10B30	AFSA10B36	AFSA10B42	AFSA10B48	AFSA10B60
BHP05P BHC05P	Circuit #1	208V	MCA ¹	3.6 kw	24.3	24.3	25.9	25.9	27.9	27.9
			MOP ²		25	25	30	30	30	30
	240V	MCA ¹	4.8 kw	27.6	27.6	29.3	29.3	31.3	31.3	
		MOP ²		30	30	30	30	35	35	
BHP07P BHC07P	Circuit #1	208V	MCA ¹	5.4 kw	35.1	35.1	36.8	36.8	38.8	38.8
			MOP ²		40	40	40	40	40	40
	240V	MCA ¹	7.2 kw	40.1	40.1	41.8	41.8	43.8	43.8	
		MOP ²		45	45	45	45	45	45	
BHP10P BHC10P	Circuit #1	208V	MCA ¹	7.2 kw	46	46	47.6	47.6	49.6	49.6
			MOP ²		50	50	50	50	50	50
	240V	MCA ¹	9.6 kw	52.6	52.6	54.3	54.3	56.3	56.3	
		MOP ²		60	60	60	60	60	60	
BHP15P BHC15P	Circuit #1	208V	MCA ¹	7.2 kw	46	46	47.6	47.6	49.6	49.6
			MOP ²		50	50	50	50	50	50
		240V	MCA ¹	9.6 kw	52.6	52.6	54.3	54.3	56.3	56.3
			MOP ²		60	60	60	60	60	60
	Circuit #2	208V	MCA ¹	3.6 kw	21.7	21.7	21.7	21.7	21.7	21.7
			MOP ²		25	25	25	25	25	25
	208V	MCA ¹	4.8 kw	25	25	25	25	25	25	
		MOP ²		25	25	25	25	25	25	
	Single Point Power Supply	208V	MCA ¹	10.8 kw	67.6	67.6	69.3	69.3	71.3	71.3
			MOP ²		70	70	70	70	80	80
240V		MCA ¹	14.4 kw	77.6	77.6	79.3	79.3	81.3	81.3	
		MOP ²		80	80	80	80	90	90	
BHP20P BHC20P	Circuit #1	208V	MCA ¹	7.2 kw	—	—	47.6	47.6	49.6	49.6
			MOP ²		—	—	50	50	50	50
		240V	MCA ¹	9.6 kw	—	—	47.6	47.6	47.6	47.6
			MOP ²		—	—	47.6	47.6	47.6	47.6
	Circuit #2	208V	MCA ¹	7.2 kw	—	—	43.3	43.3	43.3	43.3
			MOP ²		—	—	45	45	45	45
	240V	MCA ¹	9.6 kw	—	—	54.3	54.3	56.3	56.3	
		MOP ²		—	—	60	60	60	60	
	Single Point Power Supply	208V	MCA ¹	14.4 kw	—	—	104.3	104.3	106.3	106.3
			MOP ²		—	—	110	110	110	110
240V		MCA ¹	19.2 kw	—	—	104.3	104.3	106.3	106.3	
		MOP ²		—	—	110	110	110	110	

1 MCA = Minimum circuit capacity. Wire must be sized properly per NEC or CEC.
2 MOP = Maximum Overcurrent Protection.



2100 Lake Park Boulevard
Richardson, TX 75080
1.800.982.2333

www.aireflo-hvac.com



All models 208-230 volt/1-phase/60 Hz. 36/48/60 models also available in 208-230 volt/
3-phase/60 Hz. Certified in accordance with the ARI standard 210/240 certification program,
which is based on ARI standard 210/240.