

RAMA Series

Package Air Conditioner SPECIFICATIONS 20 Ton

CONVERTIBLE SINGLE PACKAGE AIR CONDITIONER

COMMERCIAL PACKAGE A/C FEATURES CAPACITY

20 Ton Cooling

SINGLE PACKAGE

• Single package cooling, self contained for year-round comfort. Systems can be installed on rooftop or ground level with the new convertible design.

CONSTRUCTION

• G-90 galvanized steel, phosphate coated with an epoxy based primer and a polyester finish coat for long lasting weatherproof construction. Access panels for easy for easy service. Side by side supply and return. Heavy 16 gauge base rails.

CABINET

 Sturdy galvanized steel, phosphate-coated with a tough Electro Powder Coated Polyester finish.

INTEGRAL BASE RAILS

 Fork-lift access on three sides. Holes provided for lifting lugs makes rooftop installation easier.

IMPROVED INSULATION

• Dual density insulation improves temperature separation.

COPPER TUBE/ALUMINUM FIN COILS

 Enhanced aluminium fins mechanically bonded to copper tubes for improved heat transfer.

FILTER DRIERS

• To insure refrigerant cleanliness.

HIGH & LOW PRESSURE SWITCHES

• To provide excellent compressor protection.

EXTERNALLY-MOUNTED GAUGE PORTS

· Allows for more accurate reading of operating conditions while servicing.

INNOVATIVE EVAPORATOR BLOWER DESIGN

• "No Difference" Design allows the evaporator blower to deliver the same static capability for either horizontal or down discharge applications.

INTERNAL AIR FILTERS

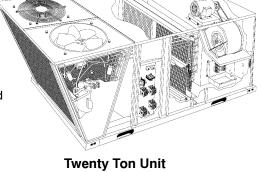
• Easy access air filters to maintain a clean evaporator coil.

PRE-WIRED FOR ECONOMIZER

• Designed for slide-in, plug-in economizer installation.

ACCESSORY ELECTRIC HEAT KITS

• 10 - 75 KW





513 31 1103 01

		MODELS	
Cooling	RAMA20H001	RAMA20F00A	RAMA20N001
ARI Rated Capacity	240,000	240,000	240,000
EER	8.5	8.5	8.5
PLV	8.3	8.3	8.3
Stages	2	2	2
Electrical		1	1
Volts / Phase Hertz	208/230-3-60	460-3-60	575-3-60
Voltage Range Min / Max	187 / 253	414 / 506	518 / 632
Minimum Circuit Ampacity	127.1	59.7	43.3
Total Unit Amps	117.7	55.4	40.2
Time Delay Fuse Size	140	70	50
Max. Fuse / HACR Breaker Size	160	70	50
Compressor			
Number of Independent Circuits	2	2	2
1st RLA /2nd RLA	37.8 / 37.8	17.2 / 17.2	12.4 / 12.4
1st LRA /2nd LRA	239.0 / 239.0	125.0 / 125.0	80.0 / 80.0
Number / Type	2 / Scroll	2 / Scroll	2 / Scroll
Condenser Fan Data			,
Quantity	2	2	2
Volts / Phase [] Hertz	208/230-3-60	460-3-60	575-3-60
1st FLA /2nd FLA	5.4 / 5.4	2.6 / 2.6	1.6 / 1.6
1st LRA /2nd LRA	23.0 / 23.0	11.5 / 11.5	8.0 / 8.0
Blades/Diameter / Pitch	5/24/40	5/24/40	5/24/40
Hp / Rpm / Speeds	1.5 / 1140 / 1	1.5 / 1140 / 1	1.5 / 1140 / 1
Bearing Type	Ball	Ball	Ball
Rotation (Shaft End)	CCW	CCW	CCW
Nominal CFM	16,000	16,000	16,000
Condenser Coil			
Rows / Fins per Inch	2 / 20	2 / 20	2 / 20
Total Face Area	2/19.83	2/19.83	2/19.83
Tube Diameter	3/8 Inch	3/8 Inch	3/8 Inch
Refrigerant			
Туре	R-22	R-22	R-22
Ounces, Circuit 1 / Circuit 2	260/260	260/260	260/260
Expansion Device	(2)TXV	(2)TXV	(2)TXV

UNIT SPECIFICATIONS			
		MODELS	
Evaporator Fan	RAMA20H00	RAMA20F00	RAMA20N00
Quantity	1	1	1
Volts / Phase / Hertz	208/230-3-60	460-3-60	575-3-60
Size / Class	15x15A	15x15A	15x15A
Type Drive (Belt or Direct)	Belt	Belt	Belt
Nominal CFM	8000	8000	8000
Max Continuous Bhp	11.5	11.5	11.5
FLA	31.4	15.7	12.4
Frame Size	215T	215T	215T
Fan Rpm Range	1314 - 1556	1314 - 1556	1314 - 1556
Bearing Type	Ball	Ball	Ball
Max. Fan Rpm	1800	1800	1800
Motor Pulley, Browning #	1VP71	1VP71	1VP71
Motor Shaft Diameter	1-3/8	1-3/8	1-3/8
Blower Pulley, Browning #	BK80	BK80	BK80
Blower Shaft Diameter	1-1/4	1-1/4	1-1/4
Belt Type, Browning #	BX-71	BX-71	BX-71
Rows / Fins per Inch	4 / 14	4 / 14	4 / 14
Total Face Area	16.11	16.11	16.11
Tube Diameter	3/8	3/8	3/8
Controls			
Transformer VA	75	75	75
Compressor IPR Valve (psi)	450	450	450
High Press. Switch Auto Reset - Open / Close (psi)	420 / 300	420 / 300	420 / 300
Low Press. Switch Auto Reset - Open / Close (psi)	5 / 20	5 / 20	5 / 20
Compressor Anti Cycle Timer	5 Min.	5 Min.	5 Min.
Evaporator Freeze Thermostat Open / Close (F)	30 / 50	30 / 50	30 / 50
Misc.			
Air Filters Size & (Quantity)	20x25x2 (4)	20x25x2 (4)	20x25x2 (4)
Unit Shipping Weight	1750	1750	1750
Unit Operating Weight	1730	1730	1730

ELECTRIC	AL DATA - ELECTRIC HI	EAT ACC	ESSORY					
Voltage	Heater Model - Weight	kw	Nominal BTUH	Heater Amps	Motor Amps	Total Amps	Min. Circuit Amp.	Fuse
	AEB030EHA - 62	30	102,420	72.3	25.3	97.6	122.0	150
240-3-60	AEB045EHA - 68	45	153,630	108.4		133.7	167.1	200
	AEB060EHA - 69	60	204,840	144.5		169.8	212.2	250
	AEB075EHA - 83	75	256,050	180.6		205.9	257.3	300
	AEB030ELA - 62	30	102,420	36.1	12.7	48.8	61.0	80
480-3-60	AEB045ELA - 68	45	153,630	54.2	1	66.9	83.6	100
	AEB060ELA - 69	60	204,840	72.3	ĺ	85.0	106.2	110
	AEB075ELA - 83	75	256,050	90.3		103.0	128.7	150
	AEB030ESA - 62	30	102,420	28.9	11.5	40.4	50.5	50
600-3-60	AEB045ESA - 68	45	153,630	43.4	1	54.9	68.6	80
	AEB060ESA - 69	60	204,840	57.8	1	69.3	86.6	100
	AEB075ESA - 83	75	256,050	72.3	<u> </u>	83.8	104.7	110

EXPANDED PERFORMANCE DATA (COOLING) - 20 Ton - (GROSS Capacity) Outdoor Ambient Temperature - Degrees F. Dry Bulb 65 85 105 115 Airflow Entering Indoor Temperature - Degrees F. Wet Bulb IDB* CFM 59 63 59 63 59 63 67 59 63 59 63 59 63 MBh 251.7 260.9 285.9 245.9 254.9 279.2 240.0 248.8 272.6 234.2 242.7 265.9 222.5 230.6 252.6 206.1 213.6 234.0 0.71 0.60 0.41 0.74 0.62 0.43 0.76 0.63 0.44 0.78 0.65 0.45 0.81 0.68 0.47 0.82 0.68 0.47 8064 S/T 22.53 22.96 23.61 24.08 24.55 25.26 25 45 25 96 26 72 26.66 27.20 28.01 27 69 28 25 29 11 28.57 29.16 30.05 MBh 244.4 253.3 277.5 238.7 247.4 271.1 233.0 241.5 264.6 227.4 235.6 258.2 200.1 207.4 227.2 216.0 223.9 245.3 70 7200 S/T 0.68 0.57 0.39 0.70 0.59 0.41 0.72 0.60 0.42 0.75 0.62 0.43 0.77 0.65 0.45 0.78 0.65 0.45 ΚW 22.38 22.80 23.44 23.91 24.37 25.08 25.27 25.77 26.53 26.46 26.99 27.80 27.48 28.04 28.89 28.35 28.94 29.82 226.8 235.1 257.5 221.4 229.5 251.4 190.1 197.0 215.8 MBh 232.2 240.7 263.7 216.0 223.9 245.3 205.2 212.7 233.0 6336 **S/T** 0.65 0.54 0.38 **KW** 22.06 22.47 23.10 0.68 0.56 0.39 0.69 0.58 0.60 0.41 0.43 0.75 0.62 0.40 0.71 0.74 0.62 0.43 23.56 24.02 24.71 24.89 25.38 26.13 26.06 26.58 27.38 27.06 27.61 28.44 27.92 28.49 29.36 MBh 256.0 263.6 285.3 306.2 250.1 257.5 278.7 244.1 251.3 272.0 292.0 238.1 245.2 265.4 284.8 226.2 232.9 252.1 209.6 215.8 233.6 250.7 8064 S/T 0.81 0.73 0.55 0.35 0.84 0.75 0.57 0.37 0.86 0.77 0.58 0.38 0.89 0.80 0.60 0.39 | 0.92 0.83 0.62 0.40 0.93 0.83 0.63 0.41 ΚW 22.70 23.13 23.78 24.47 24.26 24.74 25.46 26.21 25.65 26.16 26.93 27.75 26.87 27.41 28.23 29.10 27.90 28.47 29.34 30.25 28.80 29.39 30.29 31.24 **MBh** 248.6 255.9 277.0 297.3 242.8 250.0 270.6 237.0 244.0 264.1 283.5 290.4 231.2 238.1 257.7 276.5 219.6 226.2 244.8 262.7 203.5 209.5 226.8 243.4 75 7200 0.52 0.34 0.80 0.72 0.54 0.35 0.82 0.73 0.56 0.36 0.85 0.76 0.57 0.37 0.88 0.79 0.60 0.38 0.79 22.54 22.96 23.61 24.30 24.09 24.56 25.27 26.02 25.46 25.96 26.73 27.54 26.66 27.20 28.02 28.88 27.69 28.26 29.11 30.02 28.58 29.16 30.06 MBh 236.1 243.1 263.1 282.4 230.6 237.5 257.0 275.9 225.1 231.8 250.9 269.3 219.6 226.2 244.8 262.7 208.7 214.8 232.5 249.6 193.3 199.0 215.4 231.2 S/T 0.74 0.66 0.50 0.32 0.77 0.69 0.52 0.33 0.79 0.70 0.53 0.34 0.81 0.73 0.55 0.35 0.84 0.75 0.57 0.37 0.85 0.76 0.58 22.22 KW 22.64 23.27 23.94 23.74 24.20 24.89 25.08 25.57 26.33 27.12 26.26 27.59 28.43 27.27 27.82 28.14 28.71 29.59 25.63 26.79 28.66 29.55 30.51 MBh | 260.6 266.2 284.5 304.1 | 254.5 260.1 277.8 297.0 | 248.4 253.9 271.2 289.9 | 242.4 247.7 264.6 282.9 | 230.3 235.3 251.4 268.7 | 213.3 218.0 232.9 248.9 8064 S/T 0.89 0.83 0.68 0.51 0.92 0.86 0.70 0.53 0.94 0.89 0.72 0.54 1 00 0.91 0.74 0.56 | 1.00 0.95 0.77 0.58 1 00 0.96 0.78 0.58 KW 22 86 23 30 23 96 24 66 24 44 24 92 25 65 26 41 25.84 26.35 27.14 27.96 27.07 27.62 28.45 29.33 28.12 28.69 29.57 30.49 29.02 29.62 30.53 31.49 244 1 **MBh** 253.0 258.5 276.2 295.2 247.1 252.5 269.7 288.4 241 2 246.5 263.3 281.5 235.3 240.5 256.9 274.6 223.6 228.4 260.9 207.1 211.6 226.1 80 7200 S/T 0.85 0.80 0.65 0.48 0.88 0.82 0.67 0.50 0.90 0.85 0.69 0.51 0.93 0.87 0.71 0.53 0.97 0.91 0.74 0.55 0.97 0.91 0.74 0.56 ΚW 22.70 23.13 23.79 24.48 24.27 24.74 25.65 26.16 26.87 27.41 28 24 29.10 27.90 28.48 30.25 28.80 25.46 26.21 26.93 27.75 29.34 29.39 **MBh** 240.3 245.6 262.4 280.5 234.7 239.9 256.3 273.9 244.1 229.1 234.1 250.2 267.4 223.6 228.4 **2**60.9 212.4 217.0 231.9 247.9 196.7 201.0 214.8 229.6 6336 0.62 0.46 0.84 0.79 0.48 0.86 0.89 0.84 0.68 0.51 **KW** 22.38 22.80 23.44 24.12 23.91 24.37 25.08 25.82 26.53 27.32 26.46 26.99 27.80 28.65 27.48 28.04 MBh 265.1 270.2 283.0 302.0 258.9 264.0 276.4 294.9 252 8 257.7 269.9 287.9 246.6 251.4 263.3 280.9 234.3 238.8 250.1 266.8 217.0 221.2 231.7 247.2 S/T 0.81 0.66 0.97 0.68 0.86 0.99 0.93 0.90 0.93 0.84 0.99 0.96 0.70 1.00 0.89 0.72 1.00 1.00 0.92 0.75 0.76 1.00 0.93 23 02 23 46 24 13 24 84 24 62 25 10 25 84 26 03 26 55 27 34 28 18 27 28 27 83 28 67 29 80 26 61 29 56 28 33 28 92 30 73 29 25 29 85 30 77 MBh 257.4 262.4 274.8 293.2 251.4 256.3 268.4 286.3 245.4 250.2 262.0 279.5 239.4 244.1 255.6 272.7 227.5 231.9 242.8 259.1 210.7 214.8 224.9 240.0 7200 85 S/T 0.89 0.86 0.77 0.63 0.92 0.89 0.80 0.65 0.94 0.91 0.82 0.67 0.98 0.94 0.85 0.69 1.00 0.98 0.88 0.72 1.00 0.98 0.89 0.72

22.86

KW

6336 S/T



27.14 27.96 27.07 27.62

0.93 0.90

MBh 244.5 249.3 261.0 278.5 238.8 243.5 255.0 272.0 233.1 237.7 248.9 265.5 227.5 231.9 242.8 259.1 216.1 220.3 230.7 246.1 200.2 204.0 213.7 228.0

0.64

0.79

26.41

0.62 0.90 0.87

25.84 26.35

FORMULAS AND NOTES FOR USING EXPANDED PERFORMANCE DATA

To find leaving wet bulb and dry bulb from the expanded performance charts on the next two pages, use the following formulas.

Direct interpolation is permissible. Do not extrapolate.

 t /db = t edb - <u>sensible capacity (Btuh)</u> 1.10 x cfm

^t/wb = Wet-bulb temperature corresponding to enthalpy of air leaving evaporator coil (^h/wb).

23.30 23.96 24.66 24.44 24.92 25.65

22.53 22.96 23.61 24.29 24.08 24.55 25.26 26.01 25.45

0.60 0.88 0.85 0.77

h/wb = hewb - sensible capacity (Btuh)4.5 x cfm

Where: hewb = Enthalpy of air entering evaporator coil.

LEGEND

28.45 29.33 28.12

0.81 0.66

0.97

25.96 26.72 27.53 26.66 27.20 28.01 28.87 27.69 28.25 29.11 30.01 28.57 29.16 30.05 30.99

MBh = Total Capacity (Gross) **S/T** = Sensible to Total Ratio

29.57

30.49 29.02

0.68

29.62 30.53

28.69

KW = Unit Operating Watts **IDB** = Indoor Dry Bulb

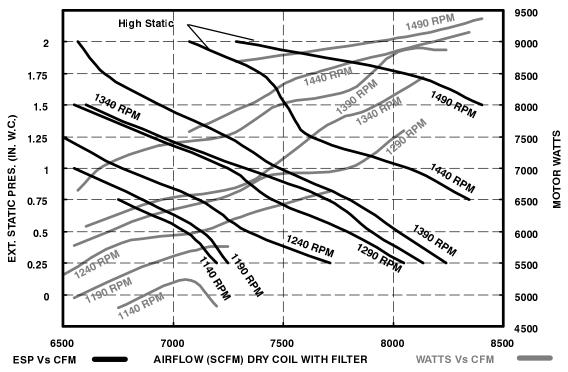
t/db = Leaving Dry Bulb t/wb = Leaving Wet Bulb

edb = Entering Dry Bulb ewb = Entering Wet Bulb

h/wb = Enthalpy of leaving wet bulb

^{*}Entering Indoor Temperature-Degrees F. DryBulb

CIRCULATING BLOWER PERFORMANCE DATA - 20 TON UNITS



NOTES: 1) Maximum motor Watts is 12,275 Watts. 2) Maximum blower wheel speed is 1800 RPM. 3) Contact factory for applications requiring operation outside standard cooling operating range. 4) Airflow data based on dry coil with filters. For wet coil add 0.08 inches to ESP. Downflow has the same ESP as horizontal flow. 5) Add 0.20 inches to ESP for horizontal economizer, downflow economizer, or manual air dampers. 6) Pulley turns refers to turns out. In other words, 0 turns is a narrower sheave than 5 turns. 7) Blower speed MUST be set to give the correct air temperature rise through the unit as marked on the Rating Plate.

		EXTERNAL STATIC PRESSURE IN INCHES WATER COLUMN (PASCALS)														
CFM	.25	(62)	.50 (124)	.75 (186)	1.0 ((249)	1.25	(311)	1.50	(373)	1.75	(435)	2.0 (4	497)
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
6750													1390	7100	1410	7300
7000					1220	5800	1265	6250	1350	6650	1380	7200	1410	7400	1430	7600
7250	1190	5760	1220	5920	1260	6300	1290	6550	1390	7500	1410	7700	1425	7750	1480	8600
7500	1220	6150	1255	6500	1300	6950	1390	8010	1420	8250	1440	8400	1460	8650		
7750	1250	6750	1280	6850	1360	8000	1420	8450	1450	8700	1460	9750	1475	8800		
8000	1280	7300	1380	8800	1420	8800	1433	8870	1455	8950	1470	9000	1480	9050		
8250	1400	8890	1420	9150	1432	9200	1455	9250	1470	9270	1480	9300				

NOTE: DO NOT EXCEED LISTED AMPS ON BLOWER MOTOR AT ANY POINT

High Static Data / Standard

31.8 AMPS / 208-230V, 14.7 AMPS / 460V, 13.4 AMPS / 575V

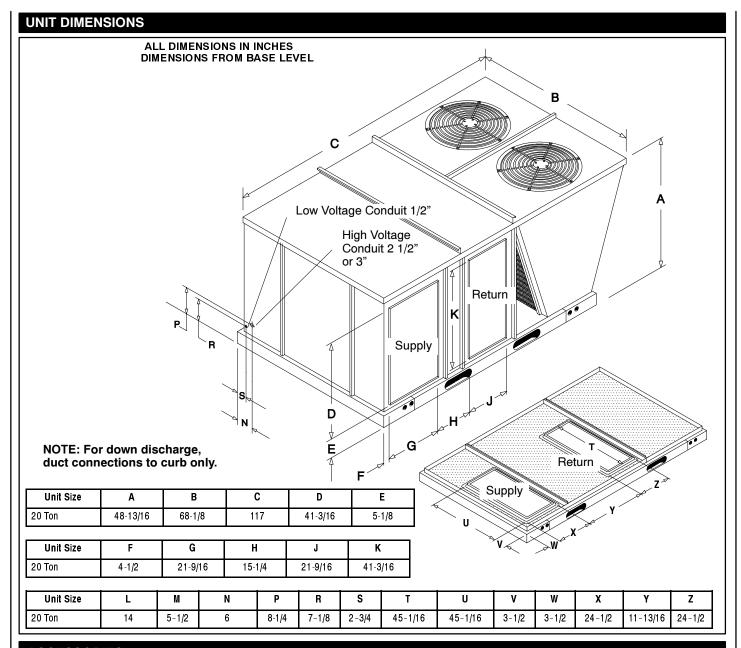
F	PULLEY TURNS OPEN	0	1	2	3	4	5	6
FAN	STD PULLEY	1556	1518	1481	1439	1398	1357	1314
RPM	LOW STATIC PULLEY	1332	1289	1246	1204	1162	1119	1076

AIRFLOW CORRECTION FACTORS - 20 TON								
CFM - ACTUAL	5760	6480	7200	7920	8640			
TOTAL MBH	0.95	0.98	1.00	1.02	1.05			
SENSIBLE MBH	0.90	0.95	1.00	1.05	1.10			
POWER KW	0.98	0.99	1.00	1.01	1.02			

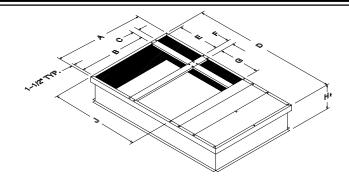
NOTES: 1) Multiply correction factor times gross performance
data. 2) Resulting sensible capacity cannot exceed total ca-
nacity

FACTORY SETTING TURNS OPEN						
10 HP STD PULLEY	10 HP STD PULLEY 5					
10 HP LOW STATIC PULLEY	See NOTE					

NOTE: Low static pulleys are field installed and MUST be adjusted by the installing technician.



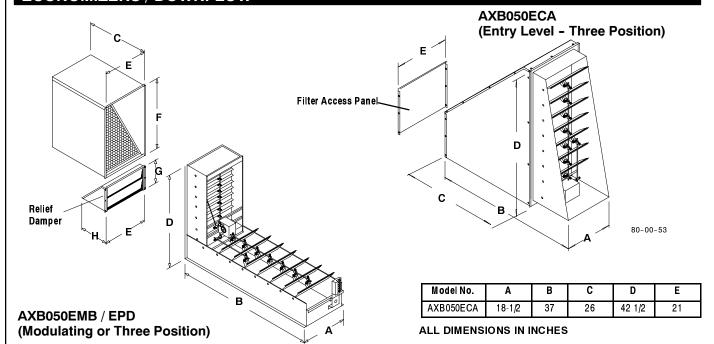
ACCESSORIES



ROOF CURB DIMENSIONS										
Model No.	Unit Size	Α	В	С	D	E	F	G	Н	J
AXB050C*A 20 Ton 61-1/2 44 3-1/2 93-3/8 28-1/2 3-1/4 28-1/2 * 61-3/4										

^{*} Roof Curbs come in 3 heights: Model # Letter L = 8", M = 14", H = 24"

ECONOMIZERS / DOWNFLOW



Model No.	Α	В	С	D	E	F	G	Н
AXB050E**	23 3/4	56	25 1 <i>[</i> 2	41-3/4	23 11/16	31-3/4	9-1/2	11 1/2

Description	Model Number	Used on
Fully Modulating (1)	AXB050EMB	20 Ton
Three Position (2)	AXB050EPD	
Entry Level Three Position (3)	AXB050ECA	

- Ambient/Enthalpy Control; Includes Return Air Damper & Relief Damper.
 Ambient Control Only; Includes Return Air Damper & Relief Damper.
 Ambient Control Only; No Return Air Damper; No Relief Damper.

All Economizers Feature Enthalpy and/or ambient temperature control providing outdoor air ventilation and "free cooling" when outdoor conditions are favorable.

Return Air and Pressure Relief dampers for proper air balance, on most models.

Interconnecting wiring furnished.

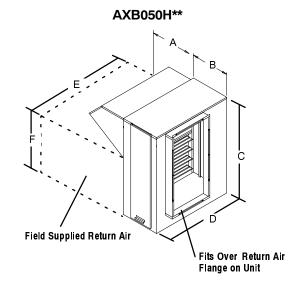
Center controlled dual action dampers with gaskets to provide proper seal.

Description	Model Number	Used on
Fully Modulating (1)	AXB050HEB	20 Ton
Three Position (2)	AXB050HPD	

- (1) Ambient/Enthalpy Control; Includes Return Air Damper & Relief Damper. (2) Ambient Control Only; Includes Return Air Damper & Relief Damper.

NOTES:

ECONOMIZERS / HORIZONTAL



HORIZONTAL ECONOMIZER DIMENSIONS								
Model No. A B C D E F								
AXB050 20-7/8 20-1/8 50-3/8 42-1/2 40-13/16 21-1/4								

ACCESSORIES (CONT...)

FOR DETAILED INFORMATION ON ACCESSORIES, SEE SYSTEM ACCESSORY GUIDE P.N. 401 10 1001 00.

ALL WEIGHTS ARE INSTALLED & IN POUNDS

ROOF CURBS		
Description	Model Number / Weight	Used on
8"	AXB050CLA / 100	20 Ton
14"	AXB050CMA / 124	20 Ton
24"	AXB050CHA / 167	20 Ton

ECONOMIZERS - DOWNFLOW				
Description	Model Number / Weight	Used on		
Fully Modulating	AXB050EMB / 175	20 Ton		
Three Position, no Return Air Damper	AXB050ECA / 140	20 Ton		
Three Position, with Return Air Damper	AXB050EPC / 175	20 Ton		

ECONOMIZERS - HORIZONTAL				
Description	Model Number / Weight	Used on		
Fully Modulating	AXB050HEB / 250	20 Ton		
Three Position	AXB050HPC / 250	20 Ton		

PART NUM	PART NUMBERS FOR APPROVED HIGH/LOW STATIC CONVERSIONS*					
Unit Size	t Size Motor Motor Pulley Blower Pulley Belt					
20 Ton	No Change	1083410	No Change	No Change		

^{*} Available through Service Parts

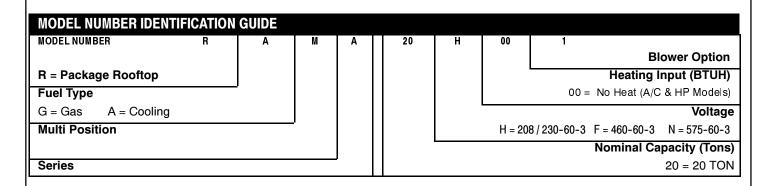
OUTDOOR AIR DAMPERS				
Description Model Number / Weight Used on				
Manua∣ 0- 25%	AXB050FAB / 26	20 Ton		
Motorized - 25%	AXB050FMB / 41	20 Ton		

LOW AMBIENT CONTROLS *				
Description Model Number - Weight Used on				
To 0° F	1082357 / 5	20 Ton		

^{*} Available through Service Parts

CONCENTRIC DIFFUSER (FLUSH MOUNT)				
Description Model Number / Weight Used on				
Concentric Diffuser (F.M.)	AXB058CFA / 335	20 Ton		

CONCENTRIC DIFFUSER (STEP DOWN)				
Description Model Number / Weight Used on				
Concentric Diffuser (S.D.)	AXB058CSA / 360	20 Ton		



GUIDE SPECIFICATION

CABINET

The cabinet shall be made of sturdy G-90 galvanized steel, phosphate coated with an epoxy based primer and polyester finish coat for long lasting weatherproof construction. Base rails shall be made of 16 gauge steel and have fork lift slots plus holes provided for lifting shackles. Unit shall be designed with convertible airflow and are shipped ready for downflow applications with conversion to horizontal airflow being accomplished by relocating two panels. The indoor blower compartment interior cabinet surfaces shall be insulated with a minimum 1/2" thick, flexible glass fiber insulation, coated on the air side. Aluminum foil faced glass fiber insulation shall be used in the furnace compartment.

COOLING SECTION

Units shall be factory charged and operationally ready upon delivery. The unit shall have two independent refrigerant systems providing two stage cooling operation. Each refrigerant circuit shall have a high efficiency, fully hermetic compressor with internal overload protection, high and low pressure switches, filter drier, and copper tube / aluminum fin evaporator and condenser coils. The unit shall be designed for two-stage cooling operation down to 40⁰ F. as shipped, as well as pre-wired for economizertype accessories.

COILS

The evaporator and condenser coils shall be fabricated with aluminum fins mechanically bonded to copper tubing. Both coils shall be pressure tested prior to assembly into the unit and electronically leak tested after assembly into the unit. The evaporator coil shall be protected from dust and debris on the return air side by factory installed 2" low velocity glass fiber air filters. Filter face velocity shall not exceed 480 FPM for the 20 ton at nominal airflows.

CONDENSER FAN(S)

The 20 ton units shall have two condenser fan assemblies. The assemblies shall be mounted directly to a vertical-discharge grille that is easily removable for service. Motors shall be rated at 1100 RPM and shall have permanently lubricated ball bearings and internal overload protection.

RIGGING DETAILS

D

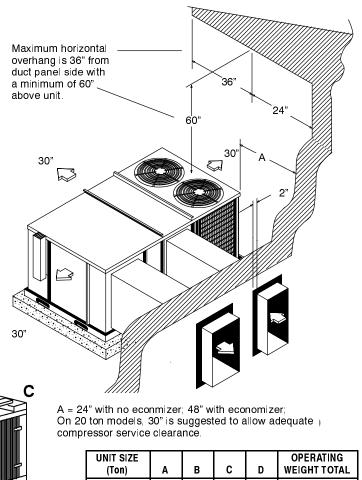
EVAPORATOR BLOWER

The 20 ton units shall have a single belt driven evaporator blower (56 frame) and it shall have permanently lubricated ball bearings and internal overload protection. An adjustable motor drive sheave for matching air flow requirements shall be standard. Additionally, high static kits shall be available for air flows above the standard requirement. The external static capability of the unit shall be the same for horizontal and downflow discharge.

HEATING SECTION

The units shall have aluminized steel tubular heat exchangers located on the discharge side of the evaporator blower and equipped with a two stage gas valve. The units shall have in-shot burners that are ignited by an electronic spark with flame proving feature and protected by both a limit switch and flame roll-out switch. The induced draft blower shall have a twospeed motor and shall be interlocked with a proven air pressure safety de-

INSTALLATION CLEARANCES



UNIT SIZE (Ton)	Α	В	С	D	OPERATING WEIGHT TOTAL
20	315	415	510	510	1,750