

CORSAIRE®

10 SEER CONDENSING UNITS



1 1/2 THRU 3 1/2 TON MODEL
CONDENSING UNITS



4 AND 5 TON MODEL
CONDENSING UNITS

FADC- SERIES

Features

- Powder painted louvered steel cabinet for all-weather protection and enhanced appearance.
- Easily accessible control box.
- Patented grille/motor mount for quiet fan operation.
- Condenser coils constructed with copper tubing and enhanced aluminum fins.

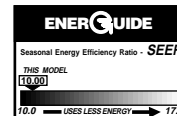
Accessories/Options

- Low Pressure Control (RXAC-A03)
- High Pressure Control (RXAB-A03)
- Low Ambient Control (RXAD-A04)
- Compressor Time Delay Control (RXMD-B01)
- Crankcase Heater (RXAF-A01)
- Start Components*
- Sound Enclosure*
- Filter Drier*

*Available through the Universal Parts® Department.

Applications

Outdoor condensing unit designed for ground level or rooftop installations. These units offer comfort and dependability for single, multi-family and light commercial applications.



"CERTIFIED UNDER THE
 A.R.I. CERTIFICATION
 PROGRAM—A.R.I.
 STANDARD 210"

Model Number Identification

F	A	D	C	—	018	J	A	S
CORSAIRE	REMOTE CONDENSING UNIT	STANDARD EFFICIENCY	DESIGN SERIES		NOMINAL COOLING CAPACITY	ELECTRICAL DESIGNATION	VARIATIONS	COOLING CONNECTION FITTINGS
					018 = 18,000 BTU/HR [5.28 kW] 024 = 24,000 BTU/HR [7.03 kW] 030 = 30,000 BTU/HR [8.79 kW] 036 = 36,000 BTU/HR [10.55 kW] 042 = 42,000 BTU/HR [12.31 kW] 048 = 48,000 BTU/HR [14.07 kW] 060 = 60,000 BTU/HR [17.58 kW]	J = 208/230-1-60		S = SWEAT FITTINGS Q = QUICK CONNECT

Performance Data @ ARI Standard Conditions—Cooling

Model Numbers		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					ARI Sound Rating ①	Indoor CFM [L/s]
Outdoor Unit FADC-	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
018JA	RCAB-A021 (RHQA-08)	16,500 [4.83]	11,700 [3.42]	4,800 [1.41]	9.40	10.00	7.6	600 [285]
	RCBA-2453 ②	17,000 [4.98]	12,200 [3.57]	4,800 [1.41]	9.25	10.00	7.6	600 [285]
	RCBA-2453 (RBEA-14)	17,000 [4.98]	12,200 [3.57]	4,800 [1.41]	9.45	10.10	7.6	600 [285]
	RCBA-2453 (FBHA-14)	17,000 [4.98]	12,200 [3.57]	4,800 [1.41]	9.45	10.10	7.6	600 [285]
	RCBA-2453 + RXMD-C02	17,000 [4.98]	12,200 [3.57]	4,800 [1.41]	9.25	10.20	7.6	600 [285]
	RCBA-2453 + RXMD-C02 (RBEA-14)	17,000 [4.98]	12,200 [3.57]	4,800 [1.41]	9.45	10.10	7.6	600 [285]
	RCBA-2453 + RXMD-C02 (FBHA-14)	17,000 [4.98]	12,200 [3.57]	4,800 [1.41]	9.45	10.10	7.6	600 [285]
	RCGA-24A1 ③	16,800 [4.92]	12,000 [3.51]	4,800 [1.41]	9.25	10.15	7.6	600 [285]
	RCGA-24A1 (RBEA-14) ③	16,900 [4.95]	12,100 [3.54]	4,800 [1.41]	9.40	10.25	7.6	600 [285]
	RCGA-24A1 (FBHA-14) ③	16,900 [4.95]	12,100 [3.54]	4,800 [1.41]	9.40	10.25	7.6	600 [285]
	RCHA-24A1 ③	16,800 [4.92]	12,000 [3.51]	4,800 [1.41]	9.25	10.15	7.6	600 [285]
	RCHA-24A1 (RBEA-14) ③	16,900 [4.95]	12,100 [3.54]	4,800 [1.41]	9.40	10.25	7.6	600 [285]
	RCHA-24A1 (FBHA-14) ③	16,900 [4.95]	12,100 [3.54]	4,800 [1.41]	9.40	10.25	7.6	600 [285]
RCLB-A024	17,300 [5.07]	12,700 [3.72]	4,600 [1.35]	9.40	10.15	7.6	600 [285]	
RCTB-A018 (RHQA-08) ③	16,300 [4.77]	11,700 [3.42]	4,600 [1.35]	9.35	10.10	7.6	600 [285]	
RCTH-A024 ③	17,400 [5.10]	13,000 [3.81]	4,400 [1.29]	9.40	10.40	7.6	600 [285]	
024JA	RCBA-2457 ②	22,400 [6.54]	16,000 [4.68]	6,400 [1.86]	9.35	10.00	7.6	800 [380]
	RCBA-2457 (RBEA-14)	22,600 [6.60]	16,100 [4.71]	6,500 [1.89]	9.55	10.15	7.6	800 [380]
	RCBA-2457 (FBHA-14)	22,600 [6.60]	16,100 [4.71]	6,500 [1.89]	9.55	10.15	7.6	800 [380]
	RCBA-2457 + RXMD-C02	22,400 [6.54]	15,900 [4.65]	6,500 [1.89]	9.35	10.10	7.6	800 [380]
	RCBA-2457 + RXMD-C02 (RBEA-14)	22,600 [6.60]	16,100 [4.71]	6,500 [1.89]	9.55	10.15	7.6	800 [380]
	RCBA-2457 + RXMD-C02 (FBHA-14)	22,600 [6.60]	16,100 [4.71]	6,500 [1.89]	9.55	10.15	7.6	800 [380]
	RCGA-24A2 ③	22,200 [6.48]	15,800 [4.62]	6,400 [1.86]	9.30	10.10	7.6	800 [380]
	RCGA-24A2 (RBEA-14) ③	22,400 [6.54]	16,000 [4.68]	6,400 [1.86]	9.55	10.30	7.6	800 [380]
	RCGA-24A2 (FBHA-14) ③	22,400 [6.54]	16,000 [4.68]	6,400 [1.86]	9.55	10.30	7.6	800 [380]
	RCHA-24A2 ③	22,200 [6.48]	15,800 [4.62]	6,400 [1.86]	9.30	10.10	7.6	800 [380]
	RCHA-24A2 (RBEA-14) ③	22,400 [6.54]	16,000 [4.68]	6,400 [1.86]	9.55	10.30	7.6	800 [380]
	RCHA-24A2 (FBHA-14) ③	22,400 [6.54]	16,000 [4.68]	6,400 [1.86]	9.55	10.30	7.6	800 [380]
	RCLB-A024	22,800 [6.66]	16,400 [4.80]	6,400 [1.86]	9.45	10.15	7.6	800 [380]
	RCLB-A024 (RHQA-08)	23,000 [6.72]	16,600 [4.86]	6,400 [1.86]	9.85	10.60	7.6	800 [380]
RCTB-A024 ③	22,800 [6.66]	16,600 [4.86]	6,200 [1.80]	9.45	10.25	7.6	800 [380]	
RCTB-A024 (RHQA-08) ③	23,000 [6.72]	16,800 [4.92]	6,200 [1.80]	9.90	10.70	7.6	800 [380]	
RCTH-A024 ③	23,000 [6.72]	16,900 [4.95]	6,100 [1.77]	9.50	10.30	7.6	800 [380]	
030JA	RCBA-3765 ②	29,000 [8.50]	20,600 [6.06]	8,400 [2.46]	9.65	10.00	7.6	1,000 [470]
	RCBA-3765 (RBEA-17)	29,200 [8.58]	20,800 [6.12]	8,400 [2.46]	9.95	10.20	7.6	1,000 [470]
	RCBA-3765 (FBHA-17)	29,200 [8.58]	20,800 [6.12]	8,400 [2.46]	9.95	10.20	7.6	1,000 [470]
	RCGA-37A1 ③	28,800 [8.44]	20,200 [5.94]	8,600 [2.52]	9.65	10.25	7.6	1,000 [470]
	RCGA-37A1 (RBEA-17) ③	29,000 [8.50]	20,400 [6.00]	8,600 [2.52]	9.95	10.50	7.6	1,000 [470]
	RCGA-37A1 (FBHA-17) ③	29,000 [8.50]	20,400 [6.00]	8,600 [2.52]	9.95	10.50	7.6	1,000 [470]
	RCHA-36A1 ③	28,800 [8.44]	20,200 [5.94]	8,600 [2.52]	9.65	10.25	7.6	1,000 [470]
	RCHA-36A1 (RBEA-17) ③	29,000 [8.50]	20,400 [6.00]	8,600 [2.52]	9.95	10.50	7.6	1,000 [470]
	RCHA-36A1 (FBHA-17) ③	29,000 [8.50]	20,400 [6.00]	8,600 [2.52]	9.95	10.50	7.6	1,000 [470]
	RCLB-A030	29,000 [8.50]	20,600 [6.06]	8,400 [2.46]	9.65	10.00	7.6	1,000 [470]
RCTB-A036 ③	29,000 [8.50]	20,800 [6.12]	8,200 [2.40]	9.65	10.25	7.6	1,000 [470]	
RCTH-A036 ③	29,200 [8.58]	22,000 [6.42]	7,200 [2.16]	9.55	10.25	7.6	1,000 [470]	
036JA	RCBA-3673 ②	34,000 [9.96]	24,200 [7.08]	9,800 [2.88]	9.20	10.00	7.6	1,200 [565]
	RCBA-3673 (RBEA-17)	34,200 [10.02]	24,400 [7.14]	9,800 [2.88]	9.40	10.15	7.6	1,200 [565]

① Sound rating in accordance with ARI Standard 270.

② Highest sales volume tested combination required by D.O.E. test procedures.

③ Requires hard start components.

Performance Data @ ARI Standard Conditions—Cooling (Continued)

Model Numbers		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					ARI Sound Rating ①	Indoor CFM [L/s]
Outdoor Unit FADC-	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
036JA	RCBA-3673 (FBHA-17)	34,200 [10.02]	24,400 [7.14]	9,800 [2.88]	9.40	10.15	7.6	1,200 [565]
	RCGA-36A2 ③	33,800 [9.90]	24,000 [7.02]	9,800 [2.88]	9.15	10.10	7.6	1,200 [565]
	RCGA-36A2 (RBEA-17) ③	34,000 [9.96]	24,200 [7.08]	9,800 [2.88]	9.40	10.25	7.6	1,200 [565]
	RCGA-36A2 (FBHA-17) ③	34,000 [9.96]	24,200 [7.08]	9,800 [2.88]	9.40	10.25	7.6	1,200 [565]
	RCHA-36A2 ③	33,800 [9.90]	24,000 [7.02]	9,800 [2.88]	9.15	10.10	7.6	1,200 [565]
	RCHA-36A2 (RBEA-17) ③	34,000 [9.96]	24,200 [7.08]	9,800 [2.88]	9.40	10.25	7.6	1,200 [565]
	RCHA-36A2 (FBHA-17) ③	34,000 [9.96]	24,200 [7.08]	9,800 [2.88]	9.40	10.25	7.6	1,200 [565]
	RCLB-A036	34,200 [10.02]	25,100 [7.36]	9,100 [2.64]	9.25	10.00	7.6	1,200 [565]
	RCTB-A036 ③	34,200 [10.02]	25,500 [7.50]	8,700 [2.52]	9.25	10.10	7.6	1,200 [565]
	RCTB-A037 ③	35,200 [10.26]	25,800 [7.56]	9,400 [2.76]	9.45	10.50	7.6	1,200 [565]
RCTH-A036 ③	34,200 [10.02]	24,800 [7.27]	9,400 [2.76]	9.25	10.10	7.6	1,200 [565]	
042JA	RCBA-4878 ②	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.20	10.00	8.1	1,400 [660]
	RCBA-4878 (RBEA-21)	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.20	8.1	1,400 [660]
	RCBA-4878 (FBHA-21)	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.20	8.1	1,400 [660]
	RCGA-48A1	41,000 [12.00]	29,500 [8.65]	11,500 [3.37]	9.15	10.15	8.1	1,400 [660]
	RCGA-48A1 (RBEA-21)	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.25	8.1	1,400 [660]
	RCGA-48A1 (FBHA-21)	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.25	8.1	1,400 [660]
	RCHA-48A1	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.15	8.1	1,400 [660]
	RCHA-48A1 (RBEA-21)	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.25	8.1	1,400 [660]
	RCHA-48A1 (FBHA-21)	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.45	10.25	8.1	1,400 [660]
	RCLB-A048	41,000 [12.00]	29,500 [8.65]	11,500 [3.37]	9.15	10.00	8.1	1,350 [635]
	RCMB-A048	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.25	10.10	8.1	1,350 [635]
	RCTB-A048	41,000 [12.00]	29,500 [8.65]	11,500 [3.37]	9.25	10.10	8.1	1,400 [660]
RCTH-A048	41,500 [12.15]	30,000 [8.82]	11,500 [3.37]	9.25	10.25	8.1	1,400 [660]	
048JA	RCBA-4876 ②	46,000 [13.50]	35,400 [10.38]	10,600 [3.15]	9.45	10.00	8.2	1,600 [755]
	RCBA-4876 (RBEA-21)	46,500 [13.65]	35,900 [10.50]	10,600 [3.15]	9.75	10.20	8.2	1,600 [755]
	RCBA-4876 (FBHA-21)	46,500 [13.65]	35,900 [10.50]	10,600 [3.15]	9.75	10.20	8.2	1,600 [755]
	RCBA-4876 + RXMD-C02	46,000 [13.50]	35,400 [10.38]	10,600 [3.15]	9.45	10.10	8.2	1,600 [755]
	RCBA-4876 + RXMD-C02 (RBEA-21)	46,500 [13.65]	35,900 [10.50]	10,600 [3.15]	9.75	10.30	8.2	1,600 [755]
	RCBA-4876 + RXMD-C02 (FBHA-21)	46,500 [13.65]	35,900 [10.50]	10,600 [3.15]	9.75	10.30	8.2	1,600 [755]
	RCGA-48A1	45,500 [13.35]	33,500 [9.84]	12,000 [3.54]	9.40	10.00	8.2	1,600 [755]
	RCGA-48A1 (RBEA-21)	46,000 [13.50]	34,000 [9.96]	12,000 [3.54]	9.65	10.20	8.2	1,600 [755]
	RCGA-48A1 (FBHA-21)	46,000 [13.50]	34,000 [9.96]	12,000 [3.54]	9.65	10.20	8.2	1,600 [755]
	RCHA-48A1	45,500 [13.35]	33,500 [9.84]	12,000 [3.54]	9.40	10.00	8.2	1,600 [755]
	RCHA-48A1 (RBEA-21)	46,000 [13.50]	34,000 [9.96]	12,000 [3.54]	9.65	10.20	8.2	1,600 [755]
	RCHA-48A1 (FBHA-21)	46,000 [13.50]	34,000 [9.96]	12,000 [3.54]	9.65	10.20	8.2	1,600 [755]
	RCLB-A048	45,500 [13.35]	34,000 [9.96]	11,500 [3.37]	9.45	10.00	8.2	1,550 [730]
	RCLB-B048	46,500 [13.65]	34,800 [10.20]	11,700 [3.45]	9.55	10.10	8.2	1,550 [730]
	RCMB-A048	46,500 [13.65]	34,800 [10.20]	11,700 [3.45]	9.50	10.15	8.2	1,550 [730]
	RCMB-A048 (RHQA-16)	47,000 [13.80]	35,300 [10.32]	11,700 [3.45]	9.70	10.40	8.2	1,550 [730]
RCTB-A048	46,000 [13.50]	34,700 [10.14]	11,300 [3.36]	9.35	10.35	8.2	1,600 [755]	
RCTB-A048 (RHQA-16)	46,000 [13.50]	34,700 [10.14]	11,300 [3.36]	9.65	10.65	8.2	1,600 [755]	
RCTH-A048	46,500 [13.65]	35,100 [10.26]	11,400 [3.39]	9.50	10.45	8.2	1,600 [755]	
060JA	RCBA-6089 ②	56,000 [16.35]	43,100 [12.60]	12,900 [3.75]	9.45	10.00	8.4	2,000 [945]
	RCBA-6089 (RBEA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.20	8.4	2,000 [945]
	RCBA-6089 (FBHA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.20	8.4	2,000 [945]
	RCBA-6089 + RXMD-C02	56,000 [16.35]	43,100 [12.60]	12,900 [3.75]	9.45	10.10	8.4	2,000 [945]
	RCBA-6089 + RXMD-C02 (RBEA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.30	8.4	2,000 [945]
	RCBA-6089 + RXMD-C02 (FBHA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.30	8.4	2,000 [945]
	RCGA-60A1	55,500 [16.20]	40,865 [12.00]	14,635 [4.20]	9.40	10.00	8.4	2,000 [945]
	RCGA-60A1 (RBEA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.4	2,000 [945]
	RCGA-60A1 (FBHA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.4	2,000 [945]
	RCHA-60A1	55,500 [16.20]	40,865 [12.00]	14,635 [4.20]	9.40	10.00	8.4	2,000 [945]
	RCHA-60A1 (RBEA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.4	2,000 [945]
	RCHA-60A1 (FBHA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.4	2,000 [945]
	RCLB-A060	54,000 [15.90]	41,000 [12.00]	13,000 [3.90]	9.25	10.00	8.4	1,990 [940]
	RCMB-A060	54,500 [15.90]	41,200 [12.00]	13,300 [3.90]	9.35	10.00	8.4	1,950 [920]
	RCMB-A060 (RHQA-20)	54,500 [15.90]	41,200 [12.00]	13,300 [3.90]	9.40	10.05	8.4	1,950 [920]
	RCTB-A060	54,000 [15.90]	41,000 [12.00]	13,000 [3.90]	9.30	10.00	8.4	2,000 [945]
	RCTB-B060	54,500 [15.90]	41,200 [12.00]	13,300 [3.90]	9.35	10.00	8.4	1,950 [920]
	RCTB-B060 (RHQA-20)	54,500 [15.90]	41,200 [12.00]	13,300 [3.90]	9.40	10.05	8.4	1,950 [920]
RCTH-A060	55,000 [16.05]	41,800 [12.30]	13,200 [3.75]	9.35	10.00	8.4	2,000 [945]	

① Sound rating in accordance with ARI Standard 270.

② Highest sales volume tested combination required by D.O.E. test procedures.

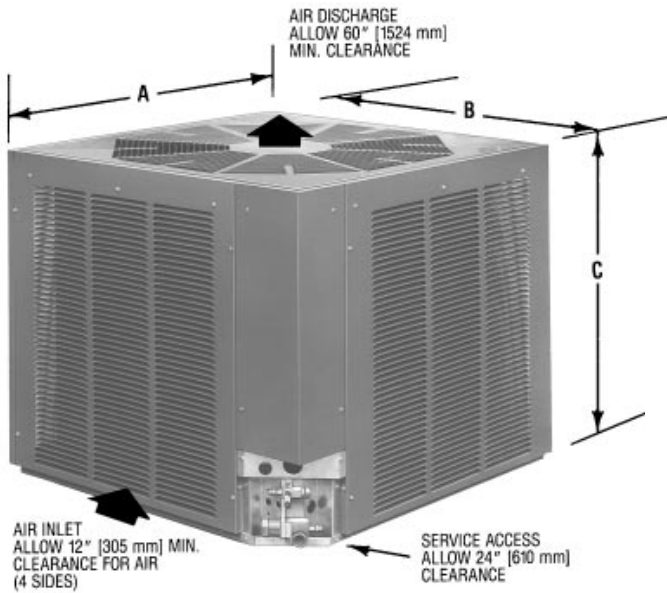
③ Requires hard start components.

Unit Dimensions

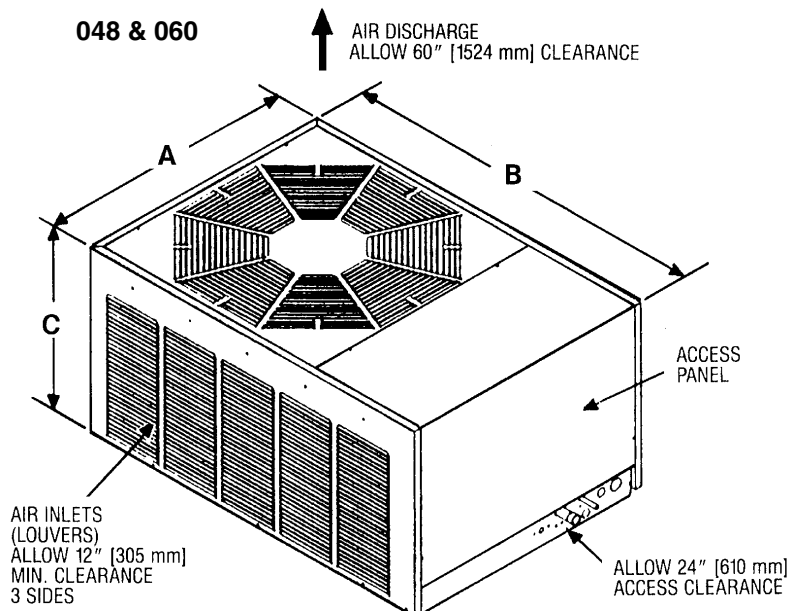
Model No. FADC-	Unit Dimensions		
	A Inches [mm]	B Inches [mm]	C Inches [mm]
018, 024, 030, 036, 042	23 ⁵ / ₁₆ [592.14]	23 ⁵ / ₁₆ [592.14]	26 ¹ / ₈ [663.58]
048, 060	31 [787]	42 ⁹ / ₁₆ [1081]	26 ³ / ₄ [679]

018, 024, 030, 036 & 042

[] Designates Metric Conversions



(Sweat Fittings Shown)



Electrical and Physical Data

Model Number FADC-	ELECTRICAL							PHYSICAL						
	Phase Frequency [HZ] Voltage [Volts]	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			R22 Oz. [g]	Weight		
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Area Sq. Ft. [m ²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]	
018JA	1-60-208-230	9.0/9.0	49	.9	13/13	15/15	20/20	5.7 [.530]	1.00	1662 [784]	48 [1361]	133 [60.3]	141 [64.0]	
024JA	1-60-208-230	11.5/11.5	60	.9	16/16	20/20	25/25	7.5 [.697]	1.00	1930 [911]	61 [1729]	139 [63.0]	147 [66.7]	
030JA	1-60-208-230	14.1/14.1	75	.9	19/19	25/25	30/30	8.5 [.790]	1.00	2100 [991]	70 [1984]	155 [70.3]	163 [73.9]	
036JA	1-60-208-230	17.3/17.3	96	1.3	23/23	30/30	40/40	11.3 [1.050]	1.00	2240 [1057]	80 [2268]	155 [70.3]	163 [73.9]	
042JA	1-60-208-230	18.3/18.3	107.4	1.3	25/25	30/30	40/40	11.3 [1.050]	1.00	2350 [1109]	90 [2551]	169 [76.7]	179 [81.2]	
048JA	1-60-208-230	21.5/21.5	110	2.0	29/29	35/35	50/50	15.8 [1.468]	1.00	4100 [1935]	113 [3203]	220 [99.8]	230 [104.3]	
060JA	1-60-208-230	28.2/28.2	169	2.0	38/38	45/45	60/60	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]	

[] Designates Metric Conversions

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY*

The manufacturer will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

Condenser Coil leaks caused by
 factory defects.....Five (5) Years
 Compressor.....Five (5) Years
 Any Other Part.....One (1) Year

***For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.**

Condensing Unit Refrigerant Line Size Information

System Capacity Tons [kW]	Line Size (Inch O.D.) [mm]	Liquid Line Size Outdoor Unit Above Indoor Coil						Liquid Line Size Outdoor Unit Below Indoor Coil					
		Total Length—Feet [m]						Total Length—Feet [m]					
		25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]
		Vertical Separation—Feet [m]						Vertical Separation—Feet [m]					
1.5 [5.28]	1/4* [6.35]	25 [7.62]	50 [15.24]	70 [21.34]			25 [7.62]	23 [7.01]	8 [2.44]				
	5/16 [7.94]			36 [10.97]	42 [12.80]	48 [14.63]	54 [16.46]			36 [10.97]	30 [9.14]	24 [7.32]	18 [5.49]
2 [7.03]	1/4* [6.35]	25 [7.62]	50 [15.24]					25 [7.62]	23 [7.01]				
	5/16 [7.94]		24 [7.32]	34 [10.36]	44 [13.41]	54 [16.46]	64 [19.51]		48 [14.63]	38 [11.58]	28 [8.53]	18 [5.49]	8 [2.44]
2.5 [8.79]	1/4* [6.35]	25 [7.62]	50 [15.24]					25 [7.62]	23 [7.01]				
	5/16 [7.94]		19 [5.79]	33 [10.06]	47 [14.33]	61 [18.59]			50 [15.24]	39 [11.89]	25 [7.62]	11 [3.35]	
	3/8 [9.53]					11 [3.35]	15 [4.57]						57 [17.37]
3 [10.55]	5/16* [7.94]	25 [7.62]	50 [15.24]	70 [21.34]				25 [7.62]	23 [7.01]	9 [2.74]			
	3/8 [9.53]			34 [10.36]	40 [12.19]	46 [14.02]	52 [15.85]			38 [11.58]	32 [9.75]	26 [7.92]	20 [6.10]
3.5 [12.30]	5/16* [7.94]	25 [7.62]	50 [15.24]	75 [22.86]				25 [7.62]	23 [7.01]	9 [2.74]			
	3/8 [9.53]			32 [9.75]	39 [11.89]	46 [14.02]	53 [16.15]			40 [12.19]	33 [10.06]	26 [7.92]	19 [5.79]
4 [14.06]	3/8* [9.53]	25 [7.62]	44 [13.41]	53 [16.15]	61 [18.59]	70 [21.34]		25 [7.62]	28 [8.53]	19 [5.79]	11 [3.35]	3 [0.91]	
	1/2 [12.7]					37 [11.28]	39 [11.89]					35 [10.67]	33 [10.06]
5 [17.58]	3/8* [9.53]	25 [7.62]	48 [14.63]	61 [18.59]	72 [21.95]			25 [7.62]	23 [7.01]	11 [3.35]	3 [0.91]		
	1/2 [12.7]				35 [10.67]	38 [11.58]	41 [12.50]					37 [11.28]	34 [10.36]

*Standard line size

NOTES:

- ① This chart is applicable for condensing units.
- ② If the separation height exceeds the table values, **reduce** the indoor coil flow-check piston two sizes plus one size for each additional 10 feet [3.05 m].
Example 1: A 5 ton [17.58 kW] *condensing unit* with a total line length of 125 feet [38.10 m] with a vertical separation of 101 feet [30.78 m] utilizing a 1/2" [12.7 mm] liquid line: Table = 38 feet [11.58 m] maximum vertical separation for 125 feet [38.10 m] run. Separation exceeds table by (101-38) = 63 feet [19.20 m]. Therefore, reduce the indoor coil flow-check piston 2 + 6 = 8 sizes (For example, a #89 piston would reduce to a #81 piston)
- ③ Do not exceed 120 feet [36.58 m] maximum vertical separation.
- ④ No changes are required for expansion valve coils.
- ⑤ Do not exceed table values for capillary tube coils.
- ⑥ Always use the smallest liquid line possible to minimize system charge.
- ⑦ Chart may be used to size horizontal runs.

NOTES:

- ① This chart is applicable for condensing units.
Example 1: A 2.5 ton [8.79 kW] *condensing unit* with a total line length of 75 feet [22.86 m] with a vertical separation of 30 feet [9.14 m] requires a liquid line size of 5/16" [7.94 mm].
- ② This chart may also be used to size horizontal runs.
Example 2: A 5 ton [17.58 kW] *condensing unit* may have a total horizontal run of 100 feet [30.48 m] if using the 3/8" [9.53 mm] liquid line. The total horizontal run if using 1/2" [12.7 mm] liquid line size will be 150 feet [45.72 m]
- ③ Do not exceed vertical separation as indicated on the chart.
- ④ Always use the smallest liquid line possible to minimize system charge.
- ⑤ No changes required for flow-check pistons or expansion valve coils.

Suction Line Length/Size versus Capacity Multiplier

FADC-	018	024	030	036	042	048	060
Unit Suction Line Connection Size	5/8" [15.88 mm] I.D. Sweat	3/4" [19.05 mm] I.D. Sweat	7/8" [22.23 mm] I.D. Sweat	1 1/8" [28.58 mm] I.D. Sweat*			
Suction Line Run—Feet [m]	5/8" [15.88 mm] O.D. Standard 3/4" [19.05 mm] O.D. Optional	5/8" [15.88 mm] O.D. Optional 3/4" [19.05 mm] O.D. Standard 7/8" [22.23 mm] O.D. Optional	3/4" [19.05 mm] O.D. Optional 7/8" [22.23 mm] O.D. Standard 1 1/8" [28.58 mm] O.D. Optional	7/8" [22.23 mm] O.D. Optional 1 1/8" [28.58 mm] O.D. Standard 1 3/8" [34.93 mm] O.D. Optional			
25' [7.62]	Optional Standard Optional	— 1.00 1.01	.98 1.00 1.01	— 1.00 1.01	.99 1.00 1.01	— 1.00 1.01	.99 1.00 1.01
50' [15.24]	Optional Standard Optional	— .98 1.00	.96 .99 1.00	— .99 1.00	.97 .99 1.01	— .99 1.01	.97 .99 1.01
100' [30.48]	Optional Standard Optional	— .96 .99	.93 .98 .99	— .97 .99	.93 .98 1.00	— .98 1.00	.96 .99 1.00
150' [45.72]	Optional Standard Optional	— .97 .98	— .97 .98	— .95 .97	— .97 .99	— .96 .99	.93 .98 .99

NOTES: Capacity Multiplier x Rated Capacity = Actual Capacity. Additional compressor oil is not required for runs up to 150 feet [45.72 m]. Oil traps in vertical runs are not required for any height up to 125 feet [38.10 m]. See Liquid Line chart for Vertical Separation Requirements and Limitations.

*Adapter to 1 1/8" [28.58 mm] factory supplied.

[] Designates Metric Conversions

NOTES

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

RHEEM
AIR CONDITIONING
DIVISION
5600 Old Greenwood Road, Fort Smith, Arkansas 72908

"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."