



RCA SERIES AIR COOLED CONDENSING UNITS

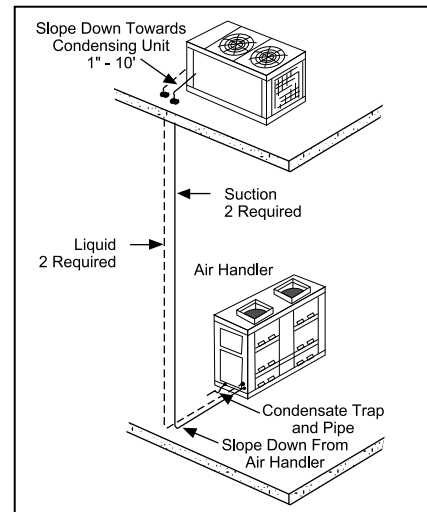
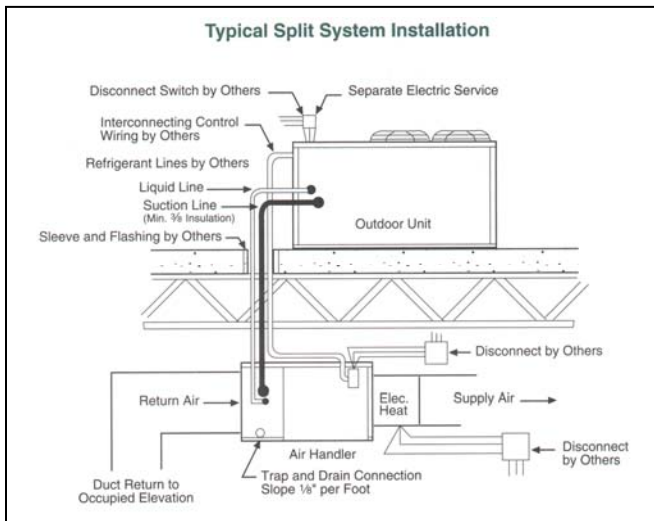
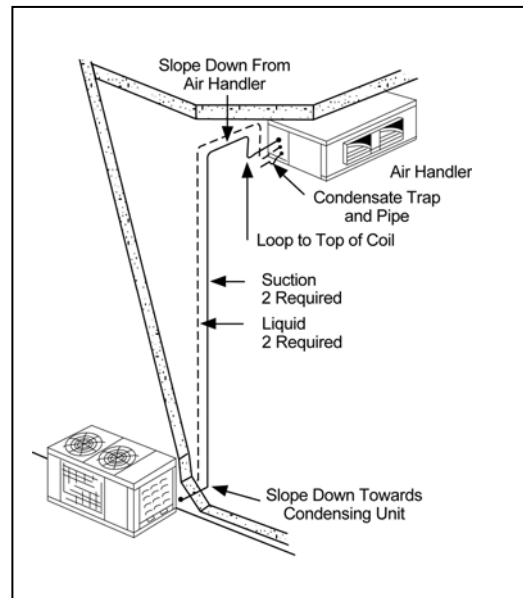
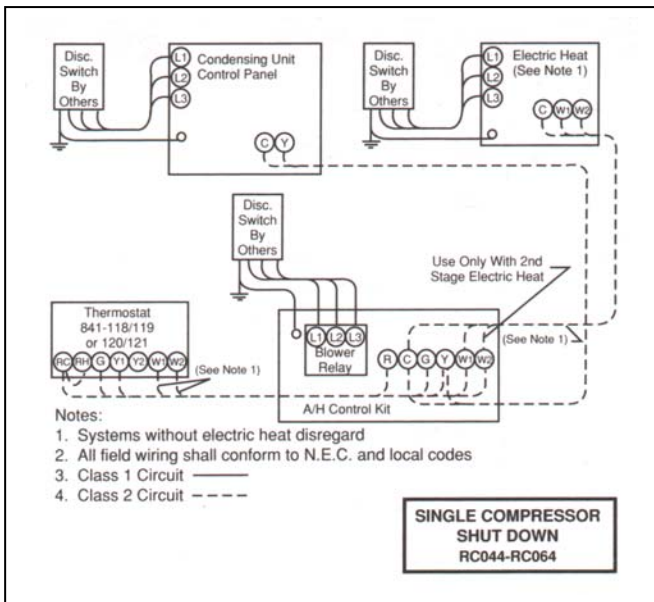
SPECIFICATIONS Rated in Accordance with ARI Standard 210/240		RCA051F			
COOLING	Rated with Optional Air Handler Model	VCA/HCA051 at 700 CFM			
	Total BTUH	49,400			
	Sensible BTUH	25,300			
	EER	10.7			
ELECTRICAL	ELECTRIC SERVICE	Voltage-Phase-Hz	208/230-1-60	208/230-3-60	460-3-60
	COMPRESSOR	Type (Qty) HP	Scroll (1)		
		RLA	18.9	12.5	6.5
		LRA	109	88	44
		IPLV	—		
	Capacity Reduction (Standard)		100/50/0		
	CONDENSER FAN MOTOR(S)	Qty	1		
		FLA (ea)	5.4	5.4	2.7
		Total CFM	4,000		
	UNIT	RLA	24.3	17.9	9.2
		Unit Minimum Circuit Ampacity	29.0	21.0	10.8
		Max. Time Delay Fuse or HACR Breaker	45	30	15
PHYSICAL DATA	CONDENSER COIL Alum. Fins on Copper Tubes	Face Area (sq.ft.)	7.7		
		Rows Deep — Fins per Inch	3 — 12		
		Suction Line OD	7/8		
		Liquid Line OD	3/8		
		Hot Gas Bypass	½		
		Hot Gas Reheat Suction	½		
		Hot Gas Reheat Return	½		
	WEIGHTS	Unit (lbs)	265		
		Shipping Weight (lbs)	315		

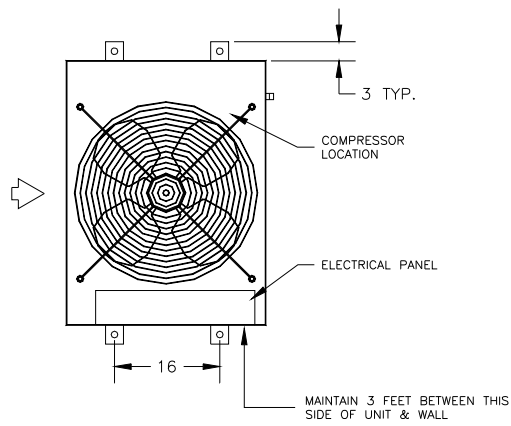
Rated With Air Handler Model	CFM	Capacity	ENTERING AIR DRY BULB TEMPERATURE								
			90° F DB			95° DB			100° DB		
			76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB
VCA/HCA 051	400	Total	39,200	40,900	42,600	38,400	40,100	41,800	37,600	39,200	40,900
		Sensible	19,700	18,800	17,800	21,500	20,600	19,700	23,300	22,400	21,500
		Watts	3,910	3,970	4,030	4,030	4,100	4,160	4,160	4,230	4,300
		Lvg. Db/Wb	45.3/45.3	47.3/47.3	49.5/49.5	46.2/46.2	48.2/48.2	50.3/50.3	47.0/47.0	49.1/49.1	51.2/51.2
	500	Total	42,700	44,400	46,200	41,700	43,400	45,200	40,700	42,400	44,100
		Sensible	21,700	20,500	19,300	24,000	22,900	21,700	26,300	25,200	24,000
		Watts	4,080	4,140	4,200	4,200	4,270	4,340	4,340	4,410	4,480
		Lvg. Db/Wb	50.5/50.5	52.7/52.7	54.9/54.9	51.3/51.3	53.4/53.4	55.6/55.6	52.1/52.1	54.2/54.2	56.4/56.4
	600	Total	45,100	46,900	48,700	44,100	45,900	47,600	43,000	44,700	46,500
		Sensible	23,500	22,000	20,600	26,400	24,900	23,500	29,200	27,900	26,400
		Watts	4,210	4,270	4,340	4,340	4,410	4,480	4,480	4,550	4,600
		Lvg. Db/Wb	54.4/54.4	56.6/56.6	58.8/58.8	55.0/55.0	57.2/57.2	59.4/59.4	55.7/55.7	57.8/57.8	60.0/60.0
	700	Total	47,000	48,800	50,600	45,900	47,700	49,400	44,700	46,500	48,200
		Sensible	25,200	23,500	21,800	28,600	27,000	25,300	32,000	30,400	28,700
		Watts	4,320	4,380	4,450	4,450	4,520	4,600	4,600	4,670	4,750
		Lvg. Db/Wb	57.3/57.3	59.5/59.5	61.7/61.7	57.8/57.8	60.0/60.0	62.2/62.2	58.4/58.4	60.5/60.5	62.7/62.7

Note: Above performance data gives gross evaporator capacity with 25' refrigerant lines and full condenser operation at 60 HZ.

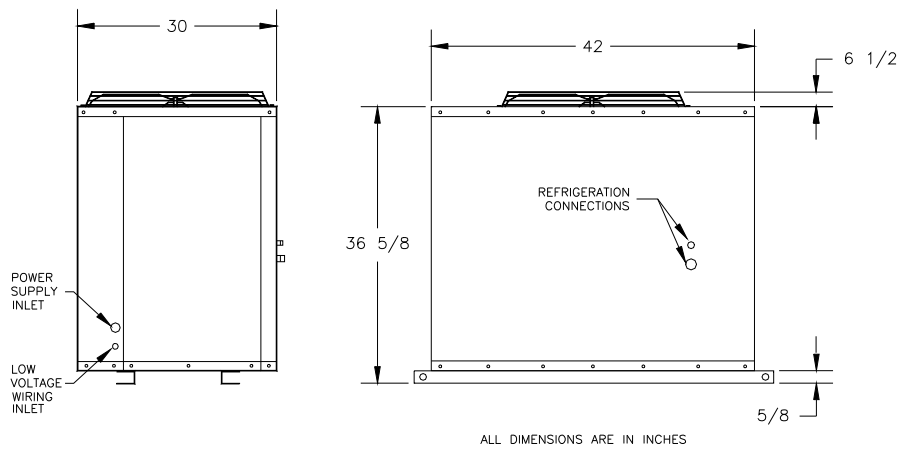
Recommended Refrigerant Line Sizes — O.D.														
Equivalent Line Length — Feet														
0 to 25					26 to 50					51 to 75				
					Hot Gas Reheat									
					Hot Gas Reheat									
Suction	Liquid	Hot Gas Bypass	S	R	Suction	Liquid	Hot Gas Bypass	S	R	Suction	Liquid	Hot Gas Bypass	S	R
7/8	3/8	1/2	3/8	3/8	7/8	3/8	1/2	3/8	3/8	7/8	3/8	1/2	1/2	3/8

- Notes:
- Line lengths are equivalent, including all fittings. Use long radius ells only.
 - Line sizes are for both vertical and horizontal runs.
 - Over 75 equivalent feet, **consult factory** for sizing recommendations.
 - Liquid line sizes and hot gas reheat return line sizes are designed to minimize system refrigerant charge.
 - Over 75 total feet, a special hot gas bypass system must be installed in the condensing unit with an oil separator. Contact Factory.
 - "S" = Hot gas supply line from RCA to VCA/HCA; "R" = Hot gas return line from VCA/HCA to RCA unit.
 - When the condensing unit is above air handler, trap suction line at base and every 20 feet of vertical rise. Consult ASHRAE Refrigeration Handbook.





RCA051



3 ft. clearance must be left for access to compressor and electrical panel

Installation Code and Annual Inspections:

All installations and service of ADDISON equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Addison and conform to all requirements set forth in the ADDISON manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Addison recommends that a qualified contractor annually inspect your ADDISON equipment and perform service where necessary, using only replacement parts sold and supplied by ADDISON.

Further Information: Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through ADDISON representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

These products are not for residential use.

This document is intended to assist licensed professionals in the exercise of their professional judgment.



The word 'ADDISON' is written in a bold, sans-serif font. A white, swoosh-like graphic element curves under the letters from the left and right sides, meeting in the middle.

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