



## RCA SERIES AIR COOLED CONDENSING UNITS

SPECIFICATIONS Rated in Accordance with ARI Standard 210/240		RCA071F			
<b>COOLING</b>	Rated with Optional Air Handler Model	<b>VCA/HCA071 at 900 CFM</b>			
	Total BTUH	69,500			
	Sensible BTUH	34,600			
	EER	10.1			
	Rated with Optional Air Handler Model	<b>VCA/HCA081 at 1,100 CFM</b>			
	Total BTUH	73,200			
	Sensible BTUH	37,700			
	EER	10.1			
<b>ELECTRICAL</b>	<b>SERVICE</b>	Voltage-Phase-Hz	208/230-1-60	208/230-3-60	460-3-60
	<b>COMPRESSOR</b>	Type (Qty) HP	Scroll (1)		
		RLA	30.8	20.8	9.0
		LRA	142	156	75
		IPLV	—		
		Capacity Reduction (Standard)	100/50/0		
	<b>CONDENSER FAN MOTOR(S)</b>	Qty	1		
		FLA (ea)	5.4	5.4	2.7
		Total CFM	3,900		
	<b>UNIT</b>	RLA	36.2	26.2	11.7
		Unit Minimum Circuit Ampacity	43.9	31.4	14.0
		Max. Time Delay Fuse or HACR Breaker	70	50	15
		Face Area (sq.ft.)	7.7		
<b>PHYSICAL DATA</b>	<b>CONDENSER COIL Alum. Fins on Copper Tubes</b>	Rows Deep — Fins per Inch	4 — 12		
		Suction Line OD	1 1/8		
		Liquid Line OD	3/8		
		Hot Gas Bypass	1/2		
		Optional Hot Gas Reheat to air handler	1/2		
		Optional Hot Gas Return from air handler	1/2		
		<b>WEIGHTS</b>	Unit (lbs)	310	
	Shipping Weight (lbs)		360		

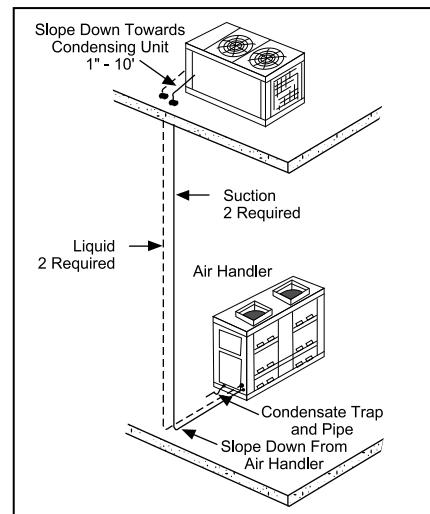
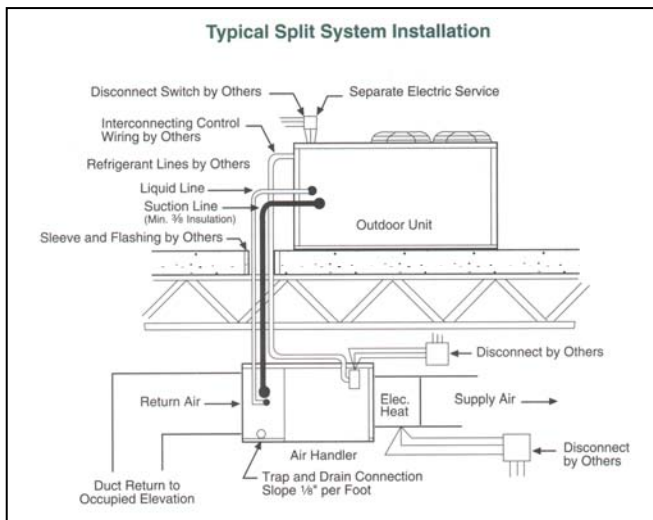
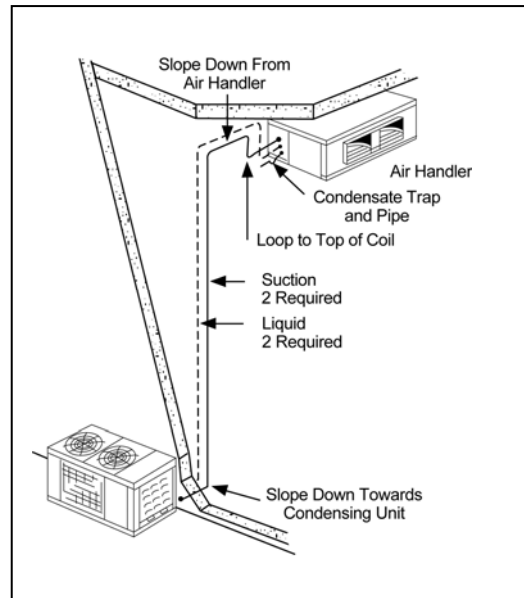
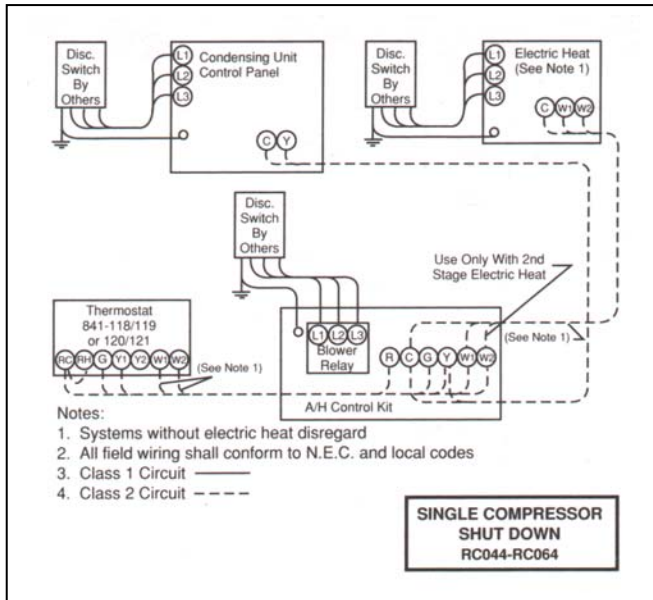
Rated With Air Handler Model	CFM	Capacity	ENTERING AIR DRY BULB TEMPERATURE								
			90° F DB			95° DB			100° DB		
			76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB
VCA/HCA 081	900	Total	65,400	67,850	70,350	62,300	66,750	69,200	63,000	65,450	68,000
		Sensible	34,200	32,200	30,200	38,550	36,450	34,500	42,900	40,800	38,800
		Watts	6,460	6,570	6,690	6,670	6,810	6,930	6,900	7,050	7,170
		Lvg. Db/Wb	55.5/55.5	57.5/57.2	59.5/59.5	56.1/55.3	58.2/57.6	60.2/59.9	56.8/55.8	58.9/58.0	60.8/60.2
	1,000	Total	67,400	69,800	72,300	66,200	68,650	71,150	64,850	67,350	69,800
		Sensible	35,800	33,600	31,300	40,700	38,400	36,150	45,500	43,250	40,900
		Watts	6,590	6,710	6,830	6,810	6,940	7,070	7,040	7,180	7,330
		Lvg. Db/Wb	57.5/56.9	59.5/59.1	61.6/61.4	58.1/57.2	60.1/59.4	62.2/61.7	58.7/57.6	60.7/59.8	62.9/62.1
	1,100	Total	69,000	71,500	74,000	67,750	70,250	73,200	66,350	68,900	71,400
		Sensible	37,300	34,800	32,400	42,600	40,200	37,700	47,950	45,550	42,900
		Watts	6,710	6,830	6,950	6,940	7,060	7,200	7,180	7,300	7,460
		Lvg. Db/Wb	59.2/58.2	61.2/60.7	63.2/63.0	59.8/58.8	61.8/61.0	63.9/63.3	60.4/59.1	62.4/61.3	64.6/63.6

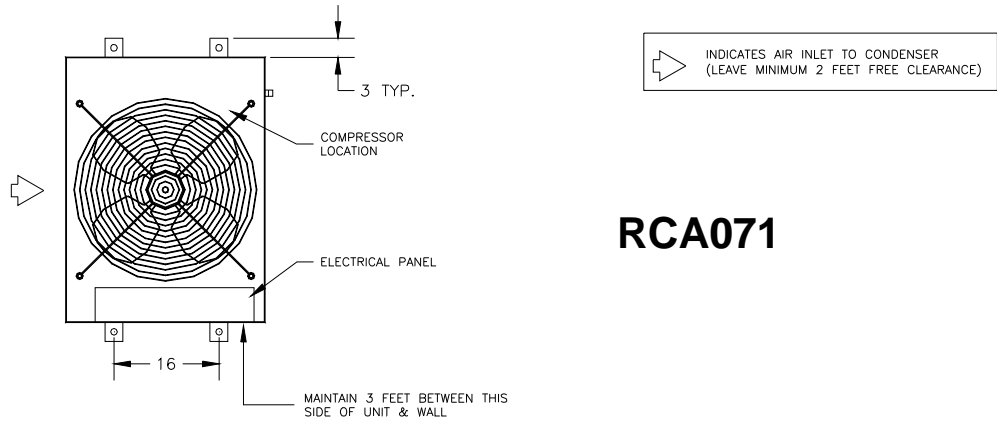
Rated With Air Handler Model	CFM	Capacity	ENTERING AIR DRY BULB TEMPERATURE								
			90° F DB			95° DB			100° DB		
			76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB
VCA/HCA 071	600	Total	60,800	63,200	65,700	59,700	62,100	64,600	58,500	60,900	63,300
		Sensible	29,500	29,100	27,500	34,200	32,500	30,900	37,600	35,900	34,200
		Watts	6,120	6,230	6,330	6,320	6,430	6,560	6,520	6,650	6,780
		Lvg. Db/Wb	51.7/51.7	52.2/52.2	54.3/54.3	50.6/50.6	52.8/52.8	54.9/54.9	51.2/51.2	53.4/53.4	55.6/55.6
	700	Total	63,500	66,000	68,500	62,300	64,800	67,300	61,100	63,500	66,000
		Sensible	32,700	30,800	28,800	36,600	34,700	32,700	41,000	38,500	36,600
		Watts	6,280	6,400	6,510	6,490	6,610	6,730	6,700	6,830	6,960
		Lvg. Db/Wb	52.8/52.8	55.0/55.0	57.3/57.3	53.4/53.4	55.6/55.6	57.8/57.8	53.4/53.4	56.2/56.2	58.4/58.4
	800	Total	65,800	68,300	70,800	64,500	67,000	69,500	63,200	65,700	68,200
		Sensible	34,500	32,300	30,100	38,900	36,700	34,600	43,400	41,200	39,000
		Watts	6,430	6,540	6,660	6,640	6,760	6,890	6,850	6,980	7,120
		Lvg. Db/Wb	55.2/55.2	57.4/57.4	59.6/59.6	55.7/55.7	57.9/57.9	60.1/60.1	56.1/56.1	58.4/58.4	60.6/60.6

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

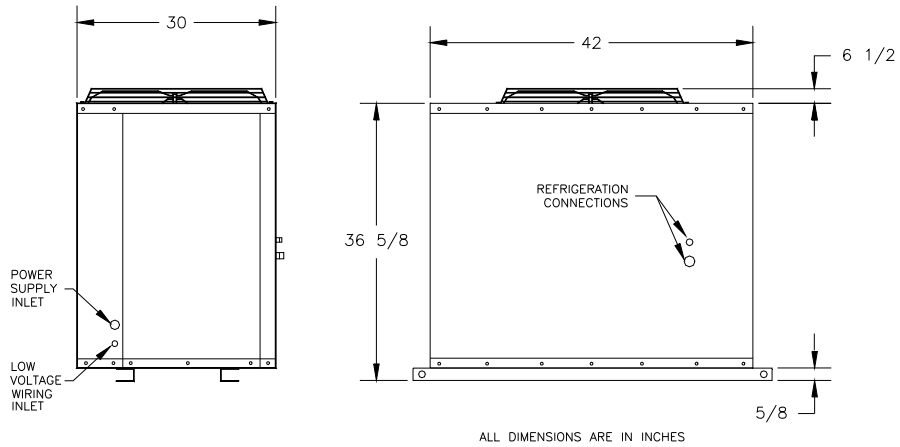
Recommended Refrigerant Line Sizes — O.D.														
Equivalent Line Length — Feet														
0 to 25					26 to 50					51 to 75				
			Hot Gas Reheat					Hot Gas Reheat					Hot Gas Reheat	
Suction	Liquid	Hot Gas Bypass	S	R	Suction	Liquid	Hot Gas Bypass	S	R	Suction	Liquid	Hot Gas Bypass	S	R
1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1/2	1/2	3/8	1 <sup>1</sup> / <sub>8</sub>	1/2	5/8	1/2	3/8	1 <sup>1</sup> / <sub>8</sub>	1/2	5/8	1/2	3/8

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





# RCA071



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.**

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