



RCA SERIES AIR COOLED CONDENSING UNITS

SPECIFICATIONS Rated in Accordance with ARI Standard 210/240		RCA101F				
COOLING	Rated with Optional Air Handler Model		VCA/HCA081 at 1,200 CFM			
	Total BTUH		93,800			
	Sensible BTUH		46,200			
	EER		9.5			
	Rated with Optional Air Handler Model		VCA/HCA101 at 1,500 CFM			
	Total BTUH		101,400			
	Sensible BTUH		52,600			
	EER		10.1			
ELECTRICAL	SERVICE	Voltage-Phase-Hz	—	208/230-3-60	460-3-60	
	COMPRESSOR	Type (Qty) HP		Scroll (1)		
		RLA		—	30.9	15.6
		LRA		—	225	114
		IPLV		—		
		Capacity Reduction (Standard)		100/50/0		
	CONDENSER FAN MOTOR(S)	Qty		—	1	
		FLA (ea)		—	6.2	3.1
		Total CFM		6,000		
	UNIT	RLA		—	37.1	18.7
		Unit Minimum Circuit Ampacity		—	44.8	22.6
		Max. Time Delay Fuse or HACR Breaker		—	70	35
PHYSICAL DATA	CONDENSER COIL Alum. Fins on Copper Tubes	Face Area (sq.ft.)		15.4		
		Rows Deep — Fins per Inch		3 — 12		
		Suction Line OD		1 1/8		
		Liquid Line OD		1/2		
		Hot Gas Bypass		5/8		
		Optional Hot Gas Reheat to air handler		5/8		
		Optional Hot Gas Return from air handler		5/8		
	WEIGHTS	Unit (lbs)		525		
		Shipping Weight (lbs)		600		

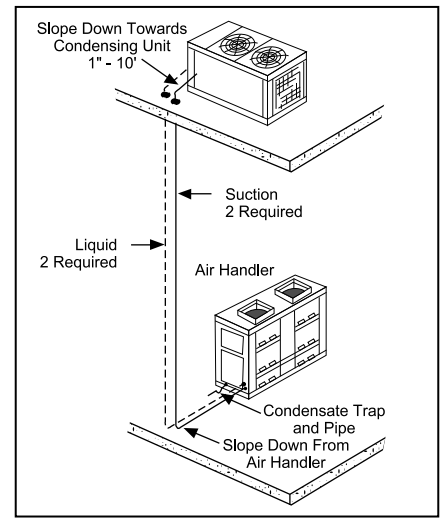
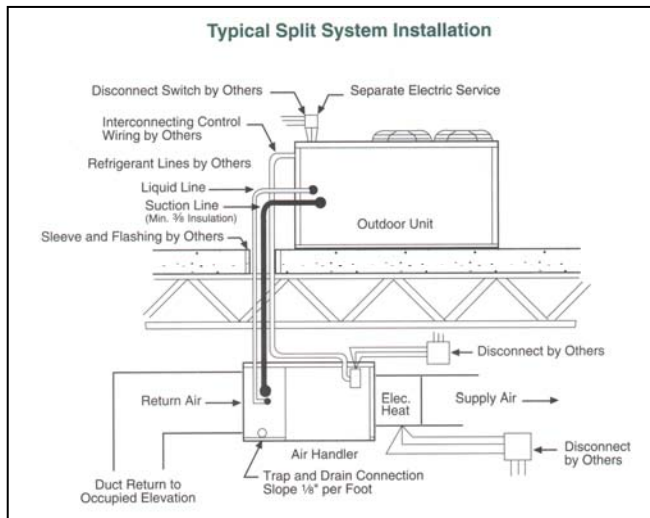
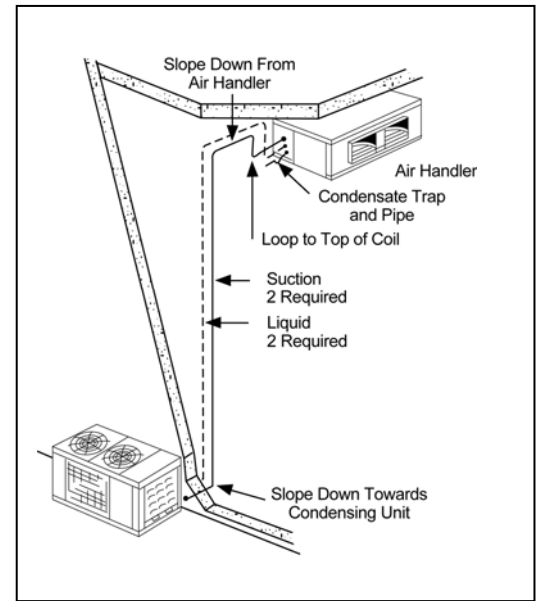
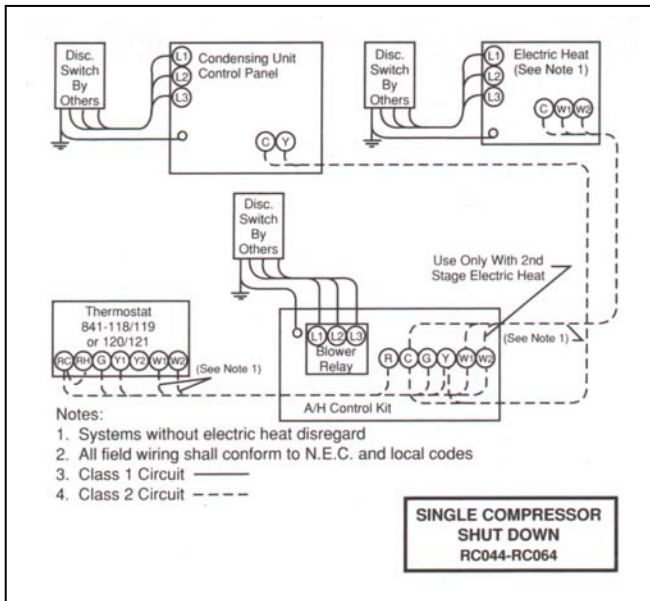
Rated With Air Handler Model	CFM	Capacity	ENTERING AIR DRY BULB TEMPERATURE								
			90° F DB			95° DB			100° DB		
			76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB
VCA/HCA 081	1,000	Total	83,800	86,900	90,100	82,500	85,700	88,800	81,100	84,100	87,200
		Sensible	42,900	40,700	37,900	47,400	45,300	43,000	52,000	49,700	47,400
		Watts	9,010	9,150	9,300	9,280	9,420	9,580	9,550	9,730	9,890
		Lvg. Db/Wb	51.0/50.7	53.1/53.0	55.4/55.4	52.0/51.2	53.9/53.4	56.0/55.8	52.7/51.6	54.9/53.9	57.0/56.3
	1,100	Total	86,500	89,700	92,900	85,100	88,200	91,400	83,700	86,700	89,900
		Sensible	44,500	42,150	39,400	49,500	47,000	44,500	54,700	52,200	49,700
		Watts	9,180	9,320	9,460	9,460	9,610	9,770	9,720	9,890	10,070
		Lvg. Db/Wb	56.6/52.7	55.2/55.0	57.4/57.4	54.2/53.1	56.2/55.4	58.3/57.8	54.8/53.5	56.9/55.8	59.0/58.2
	1,200	Total	88,800	92,000	95,200	87,500	90,600	93,800	85,700	88,800	92,000
		Sensible	46,000	43,300	40,600	51,700	49,000	46,200	57,000	54,300	51,600
		Watts	9,330	9,480	9,620	9,600	9,760	9,920	9,900	10,070	10,240
		Lvg. Db/Wb	55.2/54.5	57.2/56.8	59.3/59.1	55.9/54.8	58.0/57.1	60.0/59.4	56.8/55.3	58.9/57.5	61.0/59.9

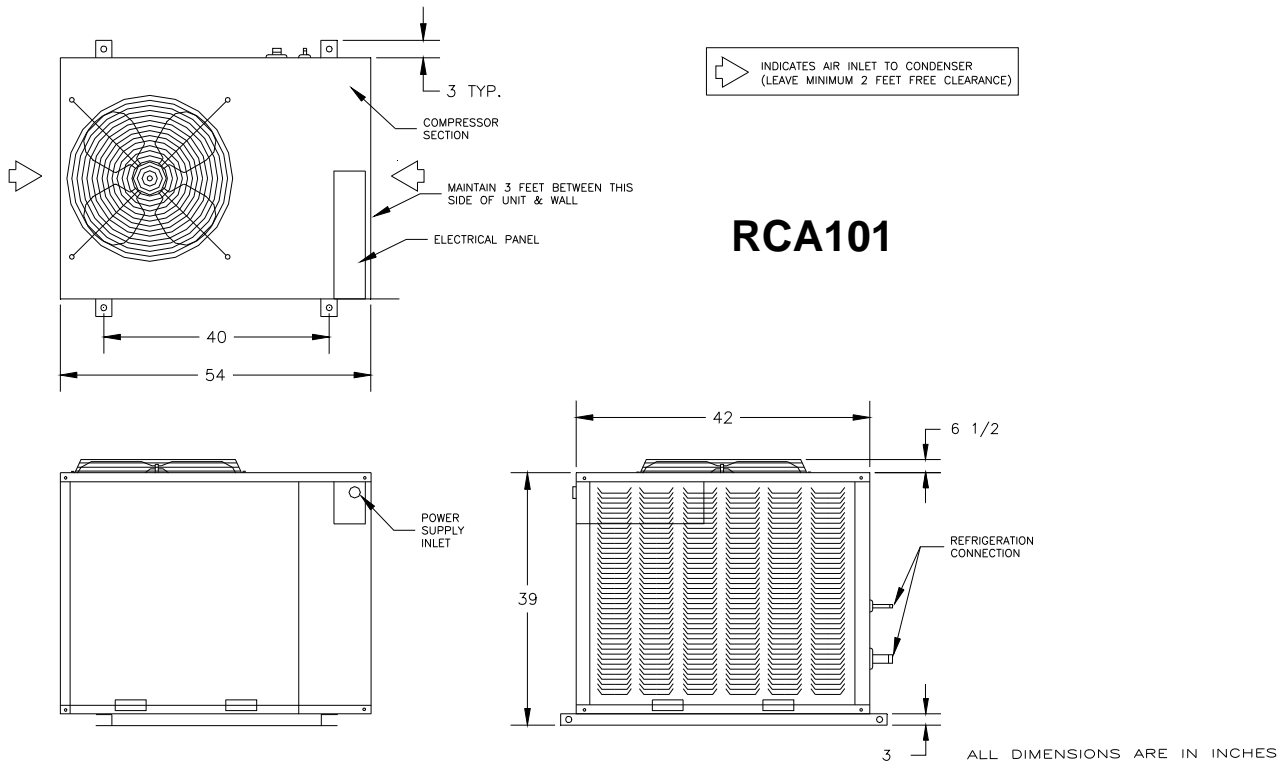
Rated With Air Handler Model	CFM	Capacity	ENTERING AIR DRY BULB TEMPERATURE								
			90° F DB			95° DB			100° DB		
			76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB
VCA/HCA101	1,100	Total	89,300	92,600	96,000	87,400	90,700	94,000	85,400	88,600	91,900
		Sensible	45,700	43,100	40,300	51,100	48,300	45,600	56,300	53,600	50,800
		Watts	8,970	9,110	9,260	9,200	9,350	9,510	9,440	9,610	9,770
		Lvg. Db/Wb	52.2/52.2	54.4/54.4	56.7/56.7	52.8/52.8	55.1/55.1	57.3/57.3	53.5/53.5	55.7/55.7	58.0/58.0
	1,300	Total	93,600	97,000	100,400	91,500	94,900	98,200	89,300	92,600	95,800
		Sensible	49,200	46,000	42,700	55,600	52,300	49,100	61,900	58,600	55,500
		Watts	9,240	9,390	9,540	9,480	9,640	9,800	9,730	9,900	10,100
		Lvg. Db/Wb	55.6/55.6	57.8/57.8	60.1/60.1	56.1/56.1	58.4/58.4	60.7/60.7	56.7/56.7	59.0/59.0	61.2/61.2
	1,500	Total	96,900	100,300	103,700	94,700	98,000	101,400	92,300	95,500	98,800
		Sensible	52,500	48,800	45,000	60,000	56,300	52,600	67,300	63,700	60,100
		Watts	9,470	9,620	9,770	9,710	9,870	10,000	9,970	10,100	10,300
		Lvg. Db/Wb	58.2/58.1	60.4/60.4	62.7/62.7	58.7/58.6	60.9/60.9	63.1/63.1	59.2/59.2	61.4/61.4	63.3/63.3

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 1/8	1/2	5/8	5/8	3/8	1 1/8	1/2	5/8	5/8	3/8	1 3/8	1/2	5/8	5/8	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 condensing unit is above air handler, trap suction line at base and every 20 feet of vertical rise. Consult ASHRAE Refrigeration Handbook.





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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