



RCA SERIES AIR COOLED CONDENSING UNITS

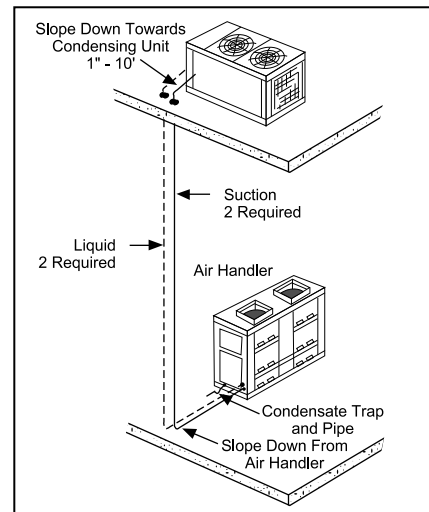
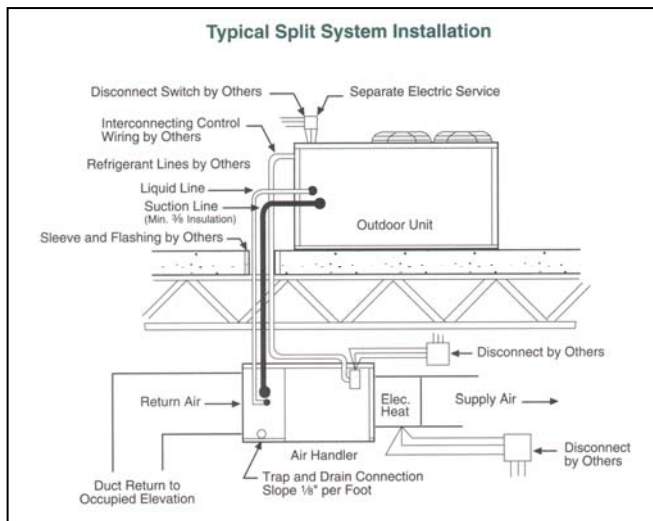
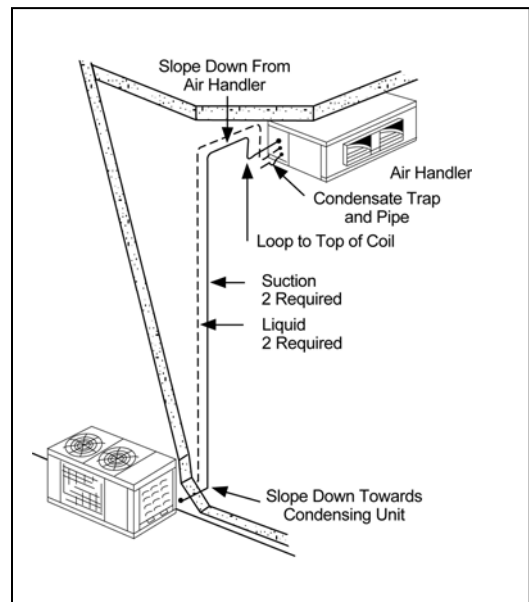
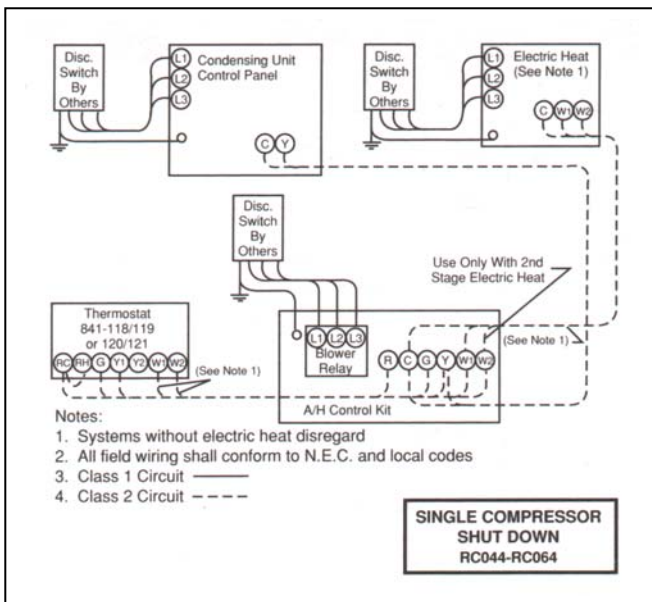
SPECIFICATIONS Rated in Accordance with ARI Standard 210/240			RCA141F		
COOLING	Rated with Optional Air Handler Model		VCA/HCA141 at 2,000 CFM		
	Total BTUH		127,600		
	Sensible BTUH		67,500		
	EER		9.9		
ELECTRICAL	SERVICE	Voltage-Phase-Hz	—	208/230-3-60	460-3-60
	COMPRESSOR	Type (Qty) HP	Scroll (1)		
		RLA	—	37.8	17.3
		LRA	—	239	125
		IPLV	—		
	Capacity Reduction (Standard)		100/50/0		
	CONDENSER FAN MOTOR(S)	Qty	1		
		FLA (ea)	—	6.2	3.1
		Total CFM	5,800		
	UNIT	RLA	—	44	20.4
Unit Minimum Circuit Ampacity		—	53.5	24.7	
Max. Time Delay Fuse or HACR Breaker		—	90	40	
PHYSICAL DATA	CONDENSER COIL Alum. Fins on Copper Tubes	Face Area (sq.ft.)	15.4		
		Rows Deep — Fins per Inch	4 — 12		
		Suction Line OD	1 3/8		
		Liquid Line OD	1/2		
	Hot Gas Bypass		5/8		
	Optional Hot Gas Reheat to air handler		7/8		
	Optional Hot Gas Return from air handler		5/8		
	WEIGHTS	Unit (lbs)	600		
		Shipping Weight (lbs)	675		

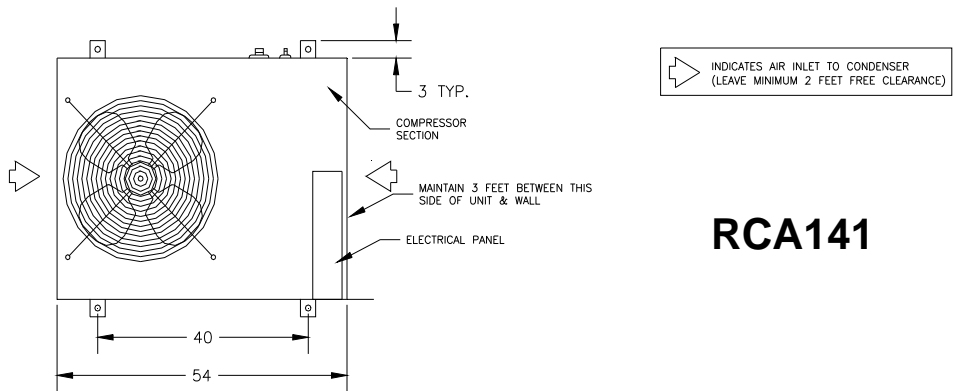
Rated With Air Handler Model	CFM	Capacity	ENTERING AIR DRY BULB TEMPERATURE								
			90° F DB			95° DB			100° DB		
			76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB	76°F WB	78°F WB	80°F WB
VCA/HCA 141	1,400	Total	112,300	116,500	120,700	109,900	113,900	118,000	107,200	111,200	115,100
		Sensible	57,800	54,200	50,700	64,400	61,000	57,400	71,000	67,600	63,900
		Watts	11,300	11,500	11,700	11,700	11,900	12,100	12,000	12,200	12,500
		Lvg. Db/Wb	52.5/52.5	54.8/54.8	57.1/57.1	53.2/53.2	55.4/55.4	57.7/57.7	53.9/53.9	56.1/56.1	58.5/58.5
	1,700	Total	118,300	122,400	126,600	115,5600	119,500	123,600	112,500	116,500	120,400
		Sensible	62,800	58,500	54,200	71,100	66,800	62,500	79,300	75,200	70,700
		Watts	11,800	12,000	12,200	12,100	12,300	12,500	12,400	12,700	12,900
		Lvg. Db/Wb	56.4/56.4	58.7/58.7	61.0/61.0	57.0/57.0	59.3/59.3	61.6/61.6	57.6/57.6	59.8/59.8	62.2/62.2
	2,000	Total	122,500	126,600	130,800	119,500	123,500	127,600	116,400	120,200	124,100
		Sensible	67,500	62,700	57,600	77,400	72,600	67,500	87,300	82,500	77,400
		Watts	12,100	12,300	12,500	12,500	12,700	12,900	12,800	13,000	13,200
		Lvg. Db/Wb	59.3/59.3	61.5/61.5	63.8/63.8	59.8/59.8	62.0/62.0	64.3/64.3	60.3/60.3	62.5/62.5	64.8/64.8

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

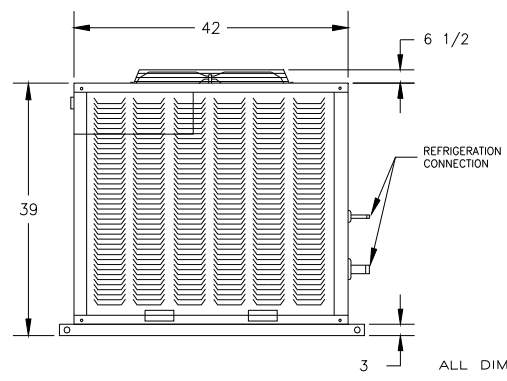
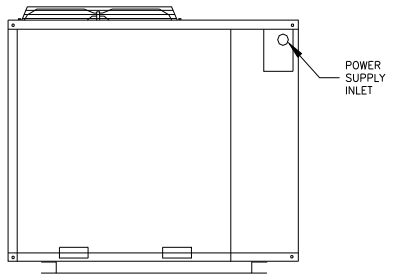
Recommended Refrigerant Line Sizes — O.D.														
Equivalent Line Length — Feet														
0 to 25					26 to 50					51 to 75				
					Hot Gas Reheat									
					Hot Gas Reheat									
Suction	Liquid	Hot Gas Bypass	S	R	Suction	Liquid	Hot Gas Bypass	S	R	Suction	Liquid	Hot Gas Bypass	S	R
1 3/8	1/2	3/4	5/8	1/2	1 3/8	5/8	3/4	5/8	1/2	1 3/8	5/8	3/4	5/8	1/2

- 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.





RCA141



ALL DIMENSIONS ARE IN INCHES

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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