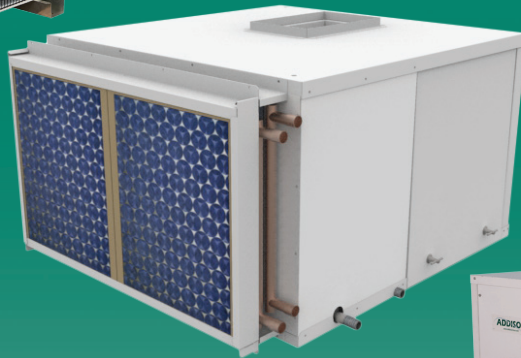


ADDISON®

RC-SERIES
Outdoor Condensing Units

FC-SERIES
Indoor Air Handlers



Capacities from 3.5 to 35 tons
208/230/460V, 3 Phase

Optimized footprint re-engineered to meet capacity and efficiency requirements while streamlining options

SEMI-CUSTOM PACKAGED COOLING SYSTEMS

Addison split systems are designed with configuration flexibility for all types of commercial and industrial new construction, retrofit or replacement applications. The streamlined split systems deliver enhanced energy efficiency and quiet reliable operation with long lasting construction providing capacity availability from 3.5 to 35 tons.

RC SERIES

OUTDOOR CONDENSING UNIT STANDARD FEATURES

- Heavy duty pre-painted galvanized steel construction
- Optimized efficiency with modulating head pressure control, condensing coils and circuitry
- Variable capacity scroll compressors
- Direct driven axial fans with sickle blades and integral venturi for enhanced efficiency and minimum noise emission
- Long refrigerant line component design for simplified installation and added reliability
- Multiple schrader service ports for onsite troubleshooting
- Liquid line solenoid for anti-migration

FC SERIES

INDOOR AIR HANDLER STANDARD FEATURES

- Heavy duty pre-painted galvanized steel construction
- Sloped stainless steel drain pan
- 1" closed cell insulation with galvanized liner
- Optimized forward curve blower selection
- Multiple ODP and TEFC motor selections within each cabinet size
- 6 row DX coils for increased capacity and enhanced efficiency
- Vertical and horizontal configuration available

RC/FC OPTIONAL FEATURES

- Clogged filter indicator
- Condensate overflow switch
- Convenience outlet
- Corrosion protection for cabinets
- Corrosion protection for coils: condenser, evaporator, reheat, sub-cooling or hot water
- Controls Flexibility: Factory provided, Controls by others factory installed, Terminal strip for controls provided and installed by others
- Fire stat high limit control
- Hot water coil
- Internal hot gas bypass, all circuits
- Modulating hot gas reheat
- Non-fused disconnects
- Refrigerant isolation valves
- Supplemental heating – staged or SCR
- Switchable liquid sub-cooling

CONFIGURATIONS & CAPACITIES

Recirculating Air Cooled

RCRA/ FCRA Model	Cooling Capacity		EER ¹	CFM
	Total Btu/h	Sensible Btu/h		
42	40,000	31,800	*14.6	1,400
48	53,400	40,500	*13.8	1,600
60	62,800	47,800	*13.2	2,000
72	72,200	55,900	11.4	2,400
96	99,600	78,300	11.7	3,200
120	117,600	95,100	11.2	4,000
150	148,800	119,200	11.6	5,000
180	190,900	147,600	11.1	6,000
210	209,200	168,200	11.1	7,000
240	285,200	209,200	12.0	8,000
300	312,200	244,700	11.4	10,000
360	357,400	285,900	11.3	12,000
420	406,900	329,800	10.7	14,000

Note:

1. EER- Energy Efficiency Ratio (*SEER=Seasonal Energy Efficiency Ratio for units with cooling capacity below 65,000 Btu/h).
2. Net cooling performance is based 80°F (26.7°C) db / 67°F (19.4°C) wb entering air temperature and 95°F (35°C) db / 78°F (23.9°C) wb ambient temperature.

Dedicated Outdoor Air System Air Cooled

RCOA/ FCOA Model	Cooling Capacity		MRE ¹
	Total Btu/h	Sensible Btu/h	
42	36,700	19,900	5.9
48	50,400	27,300	5.7
60	61,600	33,500	6.1
72	73,900	40,200	5.5
96	100,900	54,600	5.5
120	120,900	66,100	5.4
150	149,900	81,400	5.6
180	191,400	103,300	5.2
210	211,000	115,500	5.2
240	294,000	159,300	5.7
300	322,300	176,600	5.4
360	366,000	199,600	5.4
420	413,800	225,100	5.1

Note:

1. MRE - Moisture Removal Efficiency
2. Gross cooling performance is based on 95°F (35°C) db / 78°F (25.6°C) wb entering air temperature and 95°F (35°C) db / 78°F (25.6°C) wb ambient temperature.

Recirculating Air Source Heat Pump

RCRH/FCRH	Cooling Capacity		EER ¹	Heating Capacity	COP ²	CFM
	Total Btu/h	Sensible Btu/h		Btu/h		
42	39,200	33,100	*13.9	36,900	4.2	1,400
48	53,200	40,500	*13.7	48,900	3.9	1,600
60	63,700	48,100	*13.3	58,400	3.9	2,000
72	68,600	54,100	10.9	70,800	3.6	2,400
96	97,300	77,300	11.5	98,400	3.7	3,200
120	116,500	94,600	11.2	117,300	3.7	4,000
150	145,800	117,900	11.6	146,800	3.9	5,000
180	191,800	148,700	11.1	187,400	3.8	6,000
210	211,400	168,200	11.3	203,000	3.8	7,000
240	281,100	207,600	11.7	291,400	3.8	8,000
300	310,100	243,900	11.3	312,300	3.7	10,000
360	355,100	285,000	11.3	368,000	3.9	12,000
420	406,600	331,300	10.8	433,200	3.9	14,000

Note:

1. EER- Energy Efficiency Ratio (*SEER - Seasonal Energy Efficiency Ratio for units with cooling capacity below 65,000 Btu/h).
2. COP - Coefficient of Performance
3. Net cooling performance is based 80°F (26.7°C) db / 67°F (19.4°C) wb entering air temperature and 95°F (35°C) db / 78°F (23.9°C) wb ambient temperature.
4. Net heating performance is based 47°F (8.3°C) db / 43°F (6.1°C) wb on outdoor coil and 70°F (21.1°C) db / 60°F (15.5°C) wb on indoor coil.

Dedicated Outdoor Air System Air Source Heat Pump

RCOH/FCOH	Cooling Capacity		MRE ¹	Heating Capacity	COP ²
	Total Btu/h	Sensible Btu/h		Btu/h	
42	35,700	19,600	6.3	30,100	3.7
48	49,800	27,000	6.0	40,600	3.5
60	61,400	33,400	5.9	49,100	3.8
72	71,100	39,100	5.2	56,200	3.6
96	98,900	53,700	5.4	77,900	3.6
120	119,800	65,600	5.3	92,400	3.7
150	147,400	80,300	5.5	115,000	3.8
180	191,600	103,400	5.2	151,100	3.7
210	242,800	132,600	5.2	182,300	3.8
240	290,500	157,900	5.5	232,600	3.7
300	320,400	175,800	5.2	256,400	3.8
360	363,800	198,700	5.4	292,200	3.9
420	405,000	221,200	5.1	329,500	3.5

Note:

1. MRE - Moisture Removal Efficiency
2. COP - Coefficient of Performance
3. Gross cooling performance is based on 95°F (35°C) db / 78°F (25.6°C) wb entering air temperature and 95°F (35°C) db / 78°F (25.6°C) wb ambient temperature.
4. Net heating performance is based 17°F (-8.3°C) db / 10°F (-12°C) wb entering air temperature and 17°F (-8.3°C) db / 10°F (-12°C) wb ambient temperature.

PHYSICAL DATA

RC-Series, Condensing Unit

CABINET	MODEL	Dimensions L x W x H ¹
A	RCXX042	53 ³ / ₈ " x 53 ³ / ₈ " x 47 ³ / ₈ "
	RCXX048	
	RCXX060	
B	RCXX072	74" x 56 ¹ / ₈ " x 48 ³ / ₈ "
	RCXX096	
	RCXX120	
C	RCXX150	64 ¹ / ₂ " x 79 ³ / ₄ " x 59 ¹ / ₂ "
	RCXX180	
	RCXX210	
D	RCXX240	101 ³ / ₄ " x 84 ⁷ / ₈ " x 56 ³ / ₄ "
	RCXX300	
	RCXX360	
	RCXX420	

Notes:

1. Dimensions include base rails.

FC-Series, Air Handler

CABINET	MODEL	VERTICAL DIMENSIONS L x W x H	HORIZONTAL DIMENSIONS L X W X H
A	FCXX042	38 ¹ / ₂ " x 39" x 25"	38 ¹ / ₂ " x 39" x 25"
	FCXX048		
	FCXX060		
	FCXX072		
B	FCXX096	56" x 29" x 48"	54" x 41" x 28 ¹ / ₄ "
	FCXX120		
C	FCXX150	82" x 30" x 60"	78" x 54" x 32 ⁷ / ₈ "
	FCXX180		
	FCXX210		
D	FCXX240	85" x 30" x 64"	85" x 54" x 41 ¹¹ / ₁₆ "
	FCXX300		
E	FCXX360	93" x 32" x 77"	93" x 56" x 49"
	FCXX420		

Note:

1. Cabinets C, D, and have a 3" base frame that is not included in the above height.



**ADDISON
PLANT**

These products are not for residential use. This document is intended to assist licensed professionals in the exercise of their professional judgment.

There are references on this document to various trademarks. All trademarks mentioned herein, whether registered or not, are the property of their respective owners. Addison is not sponsored by or affiliated with any of the trademark or registered trademark owners, and make no representations about them, their owners, their products or services. Addison is not sponsored by or affiliated with BACnet®, Modbus, N2 or LonWorks®. BACnet® is a registered trademark of ASHRAE.

© 2018 Addison

All rights reserved. No part of this work covered by the copyrights herein may be reproduced or copied in any form or by any means - graphic, electronic, or mechanical, including photocopying, recording, taping or information storage and retrieval systems - without the written permission of Addison.

ADDISON

**7050 Overland Road • Orlando, FL 32810 U.S.A.
Telephone: 407.292.4400 • Fax: 407.299.6178
www.addison-hvac.com**



Intertek

0318 Rev A