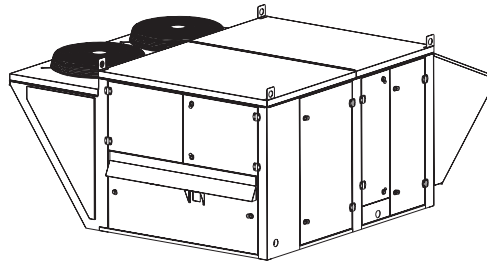


**Model RCA
COOLING MAKEUP AIR
PACKAGED SYSTEMS**



Description

Reznor® Model RCA packaged cooling and cooling/reheat pump™ makeup air systems are available in the second generation of the Modular Air Processing System (MAPS® II).

MAPS II packaged direct expansion rooftops are designed to cool high outside air for makeup air and ventilation applications. These rooftop systems include the same approaches to outside air treatment found in field engineered or split systems.

Unit Features

Compressor Staging

- Standard 3-stage cooling in 1/3 incremental steps to minimize temperature swing and improve operating reliability

Cabinet

- Standard double-wall insulated cabinet resists ambient impact on performance
- Outer casing of G90 galvanized steel substrate, gloss painted finish coat
- Hinged service panels (double wall construction and gasketed) (door pulls included for easy access/ service - door handles included)
- Mechanical door stay to hold door open during service
- Optional weatherproof convenience outlet accessible from outside the unit
- Dedicated downflow configuration for rooftop application
- Dedicated 100% outside air intake and filter transition (provides uniform filter and cooling coil loading) OR dedicated mixed air intake cabinet (both outside air intake and upflow return air opening)
- Outside air intake hood with 1" permanent pre-filters to keep water and debris outside
- "Z" channel base rail design (reduces unit weight and provides structural integrity)

Filters

- 2" or 4" pleated (25-40% average efficiency) or 2" permanent (Filter rack is field convertible for filters)

Cooling Section

- Standard removable stainless steel condensate drain with slope for positive drainage
- Coil designs for a variety of climates

Blowers

- Slide-out, forward curved, fan system - belt drive; adjustable sheave
- Class I blowers

Condensers

- Single-phase, internally protected, fan motors (three-phase motors on Cabinet C sizes) – open drip with slinger

Refrigerant

- Factory charged - R22 (Optional R407c)

Compressors

- Scroll compressor design with internal motor overload
- Optional phase loss protection monitor
- Optional phase loss low voltage monitor

Refrigerant Controls

- External low and high pressure cutouts; Liquid line filter dryers; TXV's; Cooling coil frost protection; Optional hot gas bypass options on two lead circuits

Blower Motors

- Open dripproof, totally enclosed or premium efficiency

Unit Features (cont'd)

Inlet Air Damper Options

- 100% outside air opening located and sized to provide optimum air distribution across filters and coils, equipped with damper with 2-position motor (open/closed)
- Motorized outside air and return air dampers with multi-position options and remote selectors
- Motorized outside and return air dampers to maintain building pressure in return air applications

Full-Perimeter Roof Curbs

- Insulated, 16-gauge, downflow or horizontal air flow, full perimeter roof curb
- Integral supply and return air ducts with duct connections

Disconnect Switch

- Through-the-panel, lockable, non-fusible, indoor/outdoor disconnect switch option

Convenience Outlet

- 115 volt (20 amp, field-wired)

Power Exhaust

- Optional power exhaust for building air factory wired and mounted

Controls

- DDC control package for enhanced system operation and performance (See Controls Section for a complete description of options and capabilities)
- Hinged electrical panel opens 180 degrees, with permanently mounted and protected wiring diagrams and control instructions
- Electrical Components identified with 1/2" diameter self adhesive labels to match wiring diagram

Warranty

- One-year parts warranty
- Optional four-year extended warranty on the compressors

Technical Data

Cabinet Size		A											
Climate		For Dry Climate Climates					For Temperate or Semi-Humid Climates						
Model RCA		025	037	059	077	109	060	078	090	108	120	164	
Cooling Capacity	Tons	2	3	5	6.5	9	5	6.5	7.5	9	10.5	13.5	
Max Motor HP		5	5	5	5	5	5	5	5	5	5	5	
Cooling Capacity Stages		100	100	40/60/100	30/70/100	33/66/100	40/60/100	30/70/100	40/60/100	33/66/100	42/58/100	33/66/100	
Cooling Compressors	Nominal Tons	2.0	3.0	2.0/3.0	2.0/4.5	3.0/6.0	2.0/3.0	2.0/4.5	3.0/4.5	3.0/6.0	4.5/6.0	4.5/3.0/6.0	
	Qty	1	1	2	2	2	2	2	2	2	2	3	
Cooling Condensers	Face Area Rows	5.75	5.75	9.6	11.5	17.25	5.75	9.6	9.6	11.5	13.4	17.25	
		3	3	3	3	3	3	3	3	3	3	3	
	Fans	Qty	1	1	1	1	2	1	1	1	1	2	2
		CFM	3,490	3,490	4,496	5,000	8,487	3,490	3,992	4,496	5,000	7,479	8,487
	HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Evaporator Coils	Face Area	5.2	5.2	5.2 / 5.2	5.2 / 5.2	5.2 / 5.2	5.2	7.3	7.3	7.3	7.3	7.3 / 7.3	
	Rows	2	2	2/2	2/2	2/2	3	3	3	4	4	1/4	
	FPI	7	10	6/6	7/9	9/10	14	13	14	13	13	11/13	
Net Weight	lbs	689	700	815	857	1,010	775	904	915	894	1,019	1,139	
	kg	(313)	(318)	(370)	(389)	(458)	(352)	(410)	(415)	(406)	(462)	(517)	
Filter (Qty) and Size (Factory-installed filters are optional.)		(4) 20x20											

Cabinet Size		B					C			
Climate		Dry	For Temperate or Semi-Humid Climates							
Model RCA		139	166	184	198	176	226	292	374	
Cooling Capacity	Tons	12	13.5	15	16.5	14.5	18.6	24.4	30	
Max Motor HP		5	5	5	5	10	10	10	10	
Cooling Capacity Stages		37/63/100	33/66/100	30/70/100	36/64/100	31/69/100	33/66/100	25/50/100	33/66/100	
Cooling Compressors	Nominal Tons	4.5/3.0/4.5	4.5/3.0/6.0	4.5/4.5/6.0	4.5/6.0/6.0	4.5/10.0	6.2/6.2/6.2	6.2/6.2/12	10/10/10	
	Qty	3	3	3	3	2	3	3	3	
Cooling Condensers	Face Area Rows	21.0	17.25	19.1	21	23	23	26.7	38.7	
		3	3	3	3	3	3	3	3	
	Fans	Qty	2	2	2	2	2	2	3	3
		CFM	9,475	8,487	8,991	9,475	10,000	10,000	13,500	15,000
	HP	3/4	3/4	3/4	3/4	1	1	1	1	
Evaporator Coils	Face Area	7.3 / 7.3	7.3	10.9	10.9	18.3	18.3	18.3	18.3	
	Rows	2/2	6	4	6	3	4	5	6	
	FPI	12/11	13	13	13	13	13	13	13	
Net Weight	lbs	1,160	1,280	1,348	1,416	1,891	1,891	2,276	2,601	
	kg	(526)	(581)	(611)	(642)	(858)	(858)	(1,032)	(1,180)	
Filter (Qty) and Size (Factory-installed filters are optional.)		(4) 20x25					(6) 20x25			