



RX12 Condensing Unit Shown

### Features

#### Type R Condensing Units (5,000-16,000 BTU/hr)

- Redesigned R type unit is lighter in weight than F type
- Service ports on refrigerant lines and base valves
- Rubber isolation mounts on compressors
- Condensate pan with front and rear drains
- Corner mounting brackets designed for easy install
- High pressure switch (SMX models also includes low pressure switch)
- Electrical box can be remotely mounted up to 3 feet(.9m) from unit
- Available with "green-gas" R-417A refrigerant
- An additional vibration isolation kit is available
- Ignition protected

### Type R Models

R type remote condensing units are the next generation of seawater-cooled, reverse-cycle heat pumps for cooling and heating in marine applications. Small R type units are available in capacities from 5,000 to 16,000 BTU/Hr.

These condensing units can be installed with up to two Cruisair cooling units, where the total capacity is equal to the condensing unit capacity. In the cooling mode, full performance is available in seawater up to 90°F (32°C). In reverse-cycle heating, they will provide heat in seawater as low as 40°F (4.4°C).

The new R type has a number of improvements over the original "F" type condensing units. A one-piece chassis/pan has a smaller footprint, with two 1/2" FPT drain connections. New hold-down brackets secure all four corners and allow for easier installation and removal. The one-piece electrical box with 3 ft/.9m cable can be remote mounted. (RN models have a secondary box). Additional service ports have been added for ease of charging and servicing. The R type unit is designed as a drop-in for the older F and J type with few modifications.

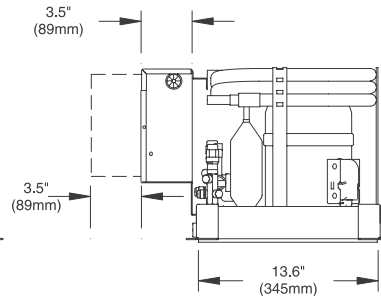
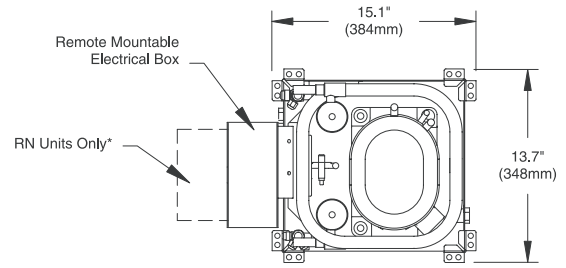
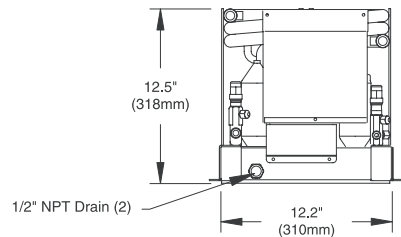
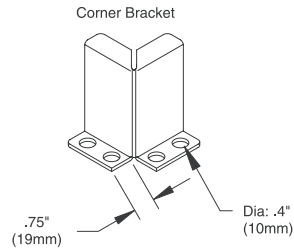
Type R models are designed for installation in the vessel's engine room or other mechanical space. It is not affected by moisture, normal vibration, or ambient temperatures up to 140°F (60°C). No ventilation is required.

Three different models are available, depending on what type of control is desired. "R" use the SA3 3- knob rotary switch assembly, "RX" is controlled by the SMX II microprocessor, and "RN" uses the SMX Net . SMX models include the respective SMX II or SMX Net power/logic boards. In addition, an SMXir or the **new SMXht keypad/ display**, a CXP connecting cable, and a TSEP temperature sensor must be purchased separately. If networking RN units, CNP network cables are also needed.

A seawater cooling system, with pump, scoop type through-hull, seacock, strainer, and overboard discharge, is also required.

Every R type unit is fully tested and pre-charged at the factory with R22 refrigerant or R-417A "green gas". (All 50Hz "CK" models come standard with R-417A.) Installation and final charging of the system must be performed by a certified technician.

Unit Capacity (Btu/hr)	Refrigerant Connections (Male Flare)		Seawater Flow Rate (gpm/lpm)
	Discharge	Suction	
5,000	1/4"	3/8"	1.7/6
7,000	1/4"	3/8"	2.3/9
10,000	1/4"	3/8"	3.3/13
12,000	1/4"	3/8"	4.0/15
16,000	1/4"	1/2"	5.3/20



\* Second electrical box on RN units only !

### TECHNICAL SPECIFICATIONS

Model	Capacity (BTU/Hr)	Power <sup>1</sup> Volt/Hz/Ph	Full Load Amps		LRA <sup>2</sup>	MCB <sup>3</sup>	Refrigerant <sup>4</sup>	Weight <sup>5</sup> (lb/kg)
			Cool	Heat				
R, RX, RN5	5,000	115/60/1	5.0	6.2	28	15A	R22 or R-417A	48/21.8
R, RX, RN7	7,000	115/60/1	6.2	7.7	34	20A	R22 or R-417A	50/22.7
R, RX, RN7C		230/60/1	3.3	4.0	20	10A		
R, RX, RN7CK		220-240/50/1	3.0	3.7	16	10A		
R, RX, RN10	10,000	115/60/1	8.0	10.2	47	30A	R22 or R-417A	60/27.3
R, RX, RN10C		230/60/1	4.3	5.5	28	15A		
R, RX, RN10CK		220-240/50/1	4.6	5.6	26.3	15A		
R, RX, RN12	12,000	115/60/1	8.4	11.0	50	30A	R22 or R-417A	62/28.2
R, RX, RN12C		230/60/1	5.4	6.6	34	15A		
R, RX, RN12CK		220-240/50/1	5.4	6.4	31	15A		
R, RX, RN16	16,000	115/60/1	11.4	13.5	75	40A	R22 or R-417A	63/28.6
R, RX, RN16C		230/60/1	6.2	7.3	36	20A		
R, RX, RN16CK		220-240/50/1	5.0	6.0	35	20A		

1. 115V, 230V, and 440V 60 Hz equipment can be operated at 100V, 200V, or 380V respectively, in a 50 Hz environment. In such a 50 Hz environment, performance will decrease by 17%. Full rated capacity can be obtained by specifying Cruisair "CK" equipment.

2. LRA - Locked Rotor Amps

3. MCB - Maximum Circuit Breaker

4. All models are available with refrigerant R-417A. Amp draw would be the same as R22 models listed above.

5. Weights shown are units only. Shipping weights will be approximately 6 lbs (2.7kg) more.

**NOTE:** Compressor starting current will vary with voltage and is approximately 3-4 times the full-load amps.

### INTERPRETING MODEL NUMBERS

RX	10	CK	417
Type of Control	Capacity x 1,000 Btu/hr	AC Power	Refrigerant
R: Rotary Knob		Blank: 100/115V 50/60 Hz	Blank: R22
RX: SMX II		C: 200/230V 50/60 Hz	417:R417A
RN: SMX Net		CK: 220-240V 50Hz only	

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