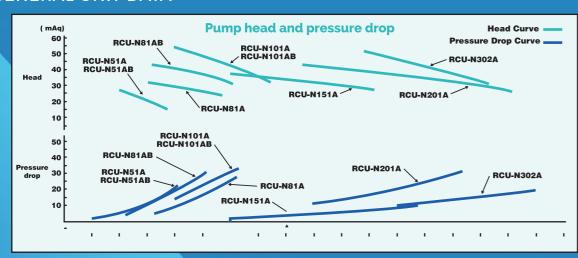
GENERAL UNIT DATA



SPECIFICATIONS:

No. Model RCU-NSIA RCU-NS													
Cooling capable Section Sectio	Item	Unit	Model	RCU-N51A	RCU-N81A	RCU-N101A	RCU-N151A	RCU-N201A	RCU-N302A	RCU-N51AB	RCU-N81AB	RCU-N101AB	
No	Cooling canal	city		14000	21000	28000	42000	60200	84000	14000	22790	28000	
Midth	Cooling capacity		kW	16.3	24.4	32.6	48.8	70	97.7	16.3	26.5	32.6	
Dimension Depth	СОР	COP		3.0				2.93	3.0	3.05	3.0		
Height		Width	mm	900	900 1070		1797	2134	2134	900	1070		
Type	Dimension	Depth		455	455 585		685		870	455	585		
Condensor type		Height	mm	1950			1982 1982			1950			
Capacity control % 100 / 0 100 / 50 / 0 1		Туре	_				Hermetically sealed scroll						
Cooler Spransion Spransi	Compressor	Quantity		1			2			1 2			
Cooler type		Capacity control	%	100 / 0 100 /			50 / 0	100 / 75 / 50 / 25 / 0	100 / 75 / 50 / 25 / 0	100 / 0	100 /	50 / 0	
Thermostatic expansion value	Condenser ty												
Type	Cooler type			Brazed plate heat exchanger									
Type	Expansion device			Thermostatic expansion value									
Type	Condenser Type			Direct driven propeller fan									
Cold water tube diameter	fan motor	Quantity	PC	1 2 1									
Cold water tube diameter	Dumn	Туре	_		Horizontal multi-stage centrifugal type								
Standard flow rate m²/h 2.8 4.2 5.6 8.3 11.9 16.7 2.8 4.5 5.6	Pullip	Quantity	PC					1					
Pump head	Co l d water tu	ıbe diameter	FPT	11/4"	11	<u>/2</u> "	2	2"	21/2	11/4" 11/2"			
Pressure drop mAq 8 10 27 4 19,5 16,4 8 24 27 Unit outside head mAq 17 19,8 21,4 30 20,2 26,6 16,3 17 15,5 Refrigerant Type — — R410A Seal-in quantity kg 4.8 6.6 3.4 x 2 6.6 x 2 3.8 x 4 5.0 x 4 4.2 3.8 x 2 Starting method — Compressor anti-vibration rubber pad / Pump anti-vibration rubber pad (Only for RCU-N51AB, N81AB, N101AB) High pressure protection / Low-pressure protection / Low-pressure protection / Discharge temperature protection / Phase reversal / failure protection (Only for three-phase models) / Over current protection / Phase reversal / failure protection witch (Only for RCU-N302A) / Compressor protector (Only for RCU-N302A) / Compres	Standard flow	v rate	m³/h	2.8	4.2	5.6	8.3	11.9	16.7	2.8	4.5	5.6	
Unit outside head	Pump head		mAq	25	29.8	48.4	34	39.7	43	24.3	41	42.5	
Type	Pressure drop		mAq	8	10	27	4	19.5	16.4	8	24	27	
Seal-in quantity kg	Unit outside h	Unit outside head		17	19.8	21.4	30	20.2	26.6	16.3	17	15.5	
Seal-in quantity kg 4.8 6.6 3.4 x 2 6.6 x 2 3.8 x 4 5.0 x 4 4.2 3.8 x 2	Refrigerant	Туре	_	R410A									
Anti-vibration device — Compressor anti-vibration rubber pad / Pump anti-vibration rubber pad (Only for RCU-N51AB, N81AB, N101AB) High pressure protection / Low-pressure protection / Discharge temperature protection / Phase reversal / failure protection (Only for three-phase models) / Over current protection / Water-side anti-freeze switch / Refrigerant-side anti-freeze switch (except RCU-N302A) / Compressor protector (Only for RCU-N302A) / Ompressor protection / Discharge temperature protecti	, mannigaranie	Sea l- in quantity	kg	4.8	6.6	3.4 x 2	6.6 x 2	3.8 x 4	5.0 x 4	4.2	3.8	3 x 2	
High pressure protection / Low-pressure protection / Discharge temperature protection / Phase reversal / failure protection (Only for three-phase models) / Over current protection/ Water-side anti-freeze switch / Refrigerant-side anti-freeze switch (except RCU-N302A) / Compressor protector (Only for RCU-N302A) Operation switch Operation switch Switch and connection point for remote control	Starting method			Direct-on-line starting									
Comparison Com	Anti-vibration device			Compressor anti-vibration rubber pad / Pump anti-vibration rubber pad (Only for RCU-N51AB , N81AB , N101AB)									
Operation device Temperature regulator — Thermostat Power source — AC 3 0 60Hz 220V / 380V AC 1 0 60Hz 220V Total power input kw 6.23 9.2 13.1 18 25.7 37.2 6.23 10 13.1 Electrical data Operating 220V V 19 27.4 40.4 55.6 78.5 113 28.9 49 61 Starting 220V 11 15.9 22.4 30.8 44 65.7 - 145 170 135 190 210 220 150 165 170	Safety device												
Total power input KW 6.23 9.2 13.1 18 25.7 37.2 6.23 10 13.1		Operation switch	_			Switch and connection point for remote control							
Note Power source Power input Note Power Red - Alarm	116	emperature regulator			Thermostat								
Total power input kW 6.23 9.2 13.1 18 25.7 37.2 6.23 10 13.1 Electrical data Operating	device	Indicator light	_	White - Power Green - Operation Red - Alarm						rm			
Comparing Comp	Power source		_	AC 3 Q 60Hz 220V / 380V AC 1 Q 60Hz 220V						20V			
Electrical data		Total power input		6.23	9.2	13.1	18	25.7	37.2	6.23	10	13.1	
data current 380V A 11 15.9 22.4 30.8 44 65.7 - Starting 220V A 145 170 135 190 210 220 150 165 170	Flectrical	Operating 220V		19	27.4	40.4	55.6	78.5	113	28.9	49	61	
Starting 220V 145 170 135 190 210 220 150 165 170		current 380V	_ Δ	11	15.9	22.4	30.8	44	65.7		-		
current 380V 70 80 95 96 150 -		Starting 220V		145	170	135	190	210	220	150	165	170	
				70		^	95	96	150				
Net weight kg 250 340 350 540 690 790 250 340 350		current 380V		70	0		33	30	100				

Note: 1. Cooling capacity and electrical specifications are in accordance with conditions of (CNS12575) water chilling packages using vapor compression cycle.

2. Usage scope: chilled water outlet temperature max 15°C and min 5°C; outdoor temperature max 43°C and min 10°C.

MANILA OFFICE: TEL.:(02) 8362-4847 FAX: (02) 8362-1769 SERVICE: (02) 8362-3842 CEBU OFFICE: TEL.: (032) 232-6634 FAX: (032) 231-7533 SERVICE: (032) 232-8831







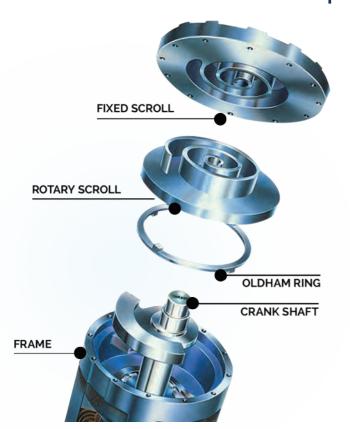
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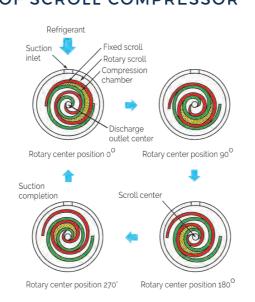
Hermetic Sealed Scroll Compressors Work Better

The Hermetic Sealed Scrolls of Hitachi Air-Cooled Water Chillers simultaneously control refrigerant intake, compression, and discharge. This allows the device to operate more quietly and efficiently with reduced vibration. So you can enjoy the cooling advantages of using a high-quality aircon that is not only power-saving, but also less prone to failures.

Working Principle of the Scroll Compressor



COMPRESSION PRINCIPLE OF SCROLL COMPRESSOR





OPTIMAL PERFORMANCE, POWER-SAVING

Because the suction inlet and discharge outlet are not adjacent to each other, there are no compressed refrigerant leakages. Also, gas leakage between the high-pressure and low-pressure sides is reduced.

TOP QUALITY, LOW FAILURE RATE

No need to install suction and discharge valves. Aside from having a smooth-flowing refrigerant, the device stands out because it will never malfunction due to damaged valves.

40% SMALLER, 5% LIGHTER

The absence of valves, silencer and pulsation make the compressors more compact and lighter.

LOW VIBRATION, LOW NOISE

The scroll compressor suction, compression and discharge operate simultaneously in one, smooth cycle. Hence, it allows minimal torque variations while minimizing noise and vibration.

ADVANCED, PATENTED CONVECTIVE HEAT DISSIPATION SYSTEM

Combining the efficiency of convective fins and inner-grooved tube allows the heat dissipation system to perform 48% better than conventional heat exchangers.

LOW NOISE BLOWER SYSTEM

The entire range uses the state-of-the-art helical fan and forward-tilting air outlet to produce high air volume with low noise.

FOLD

RUST-PROOF PLATE COOLER

The plate cooler is equipped with rust-proof, stainless steel parts (RCU-N301A uses shell-and-tube heat exchanger) that allow the device to perform at high-heat exchange efficiency.

SPACE-SAVING, SLIM DESIGN

Installing the unit is a breeze. Thanks to its ultra-slim design, users can install it easily in the balcony to facilitate hot-air ventilation.

WEATHER-PROOF EXTERIOR

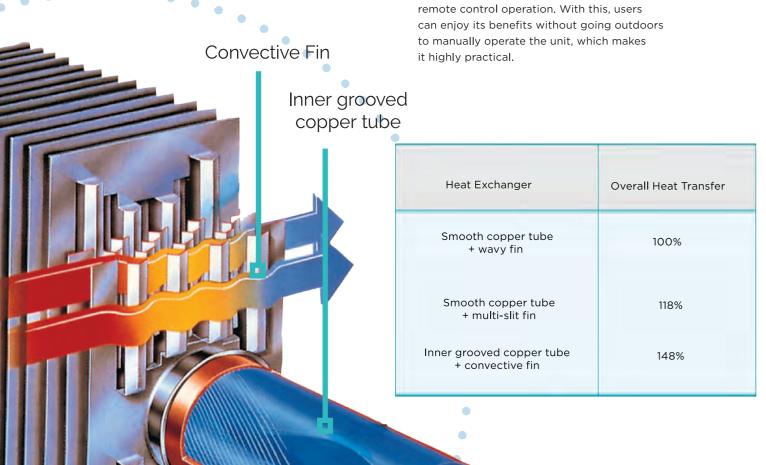
The fully galvanized mounting bracket and outer casing make the unit resistant to external damage caused by harsh weather conditions.

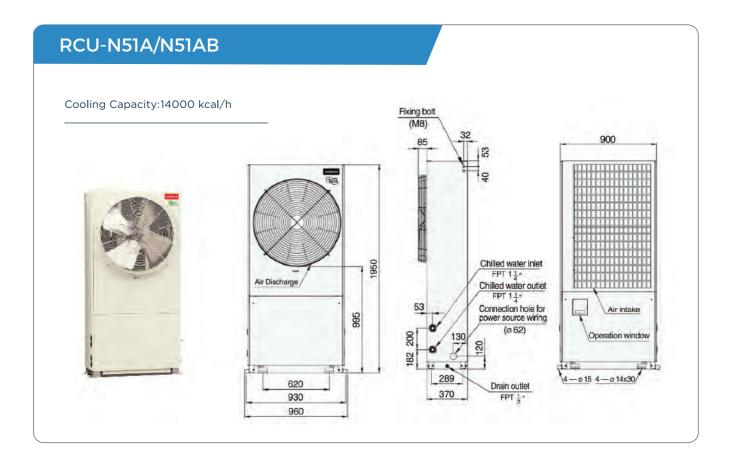
STAINLESS STEEL WATER PUMP

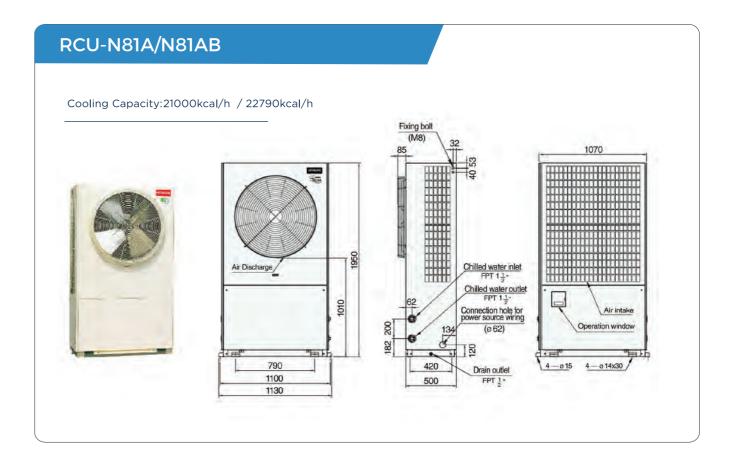
The stainless steel water pump in every unit reduces the overall cost and the amount of space required for piping and installation.

WIRED REMOTE CONTROL OPERATION

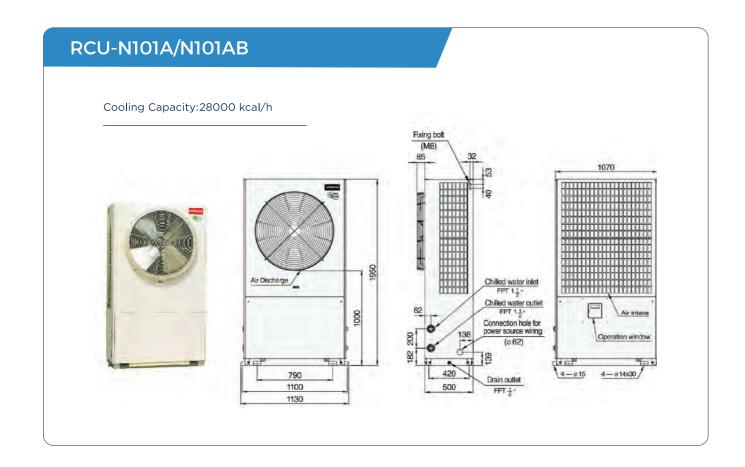
A connection point is reserved for wired

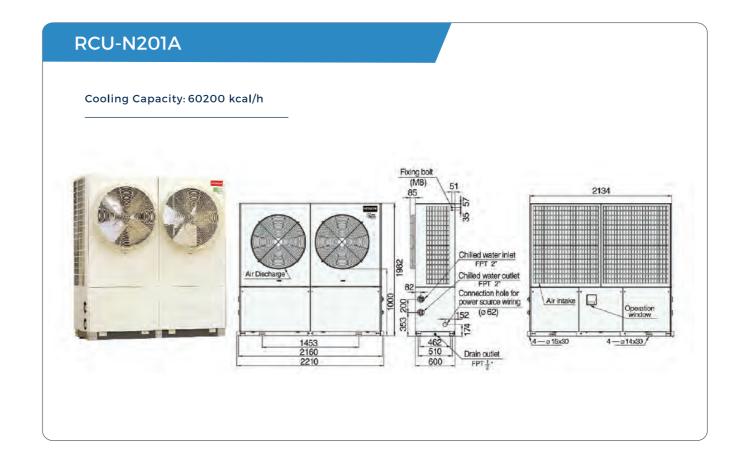


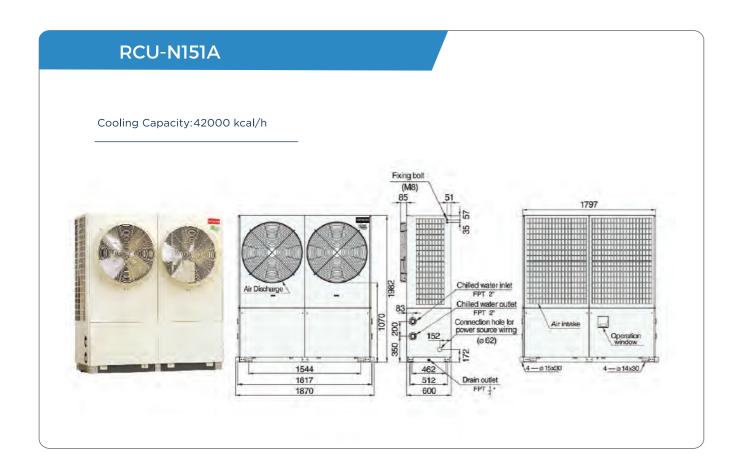


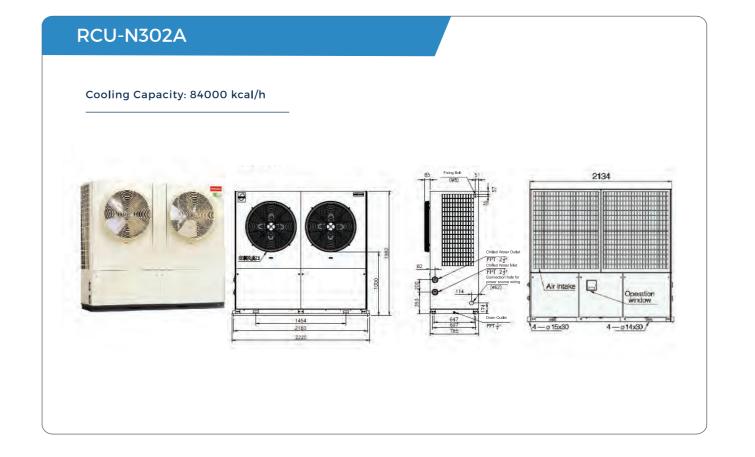


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