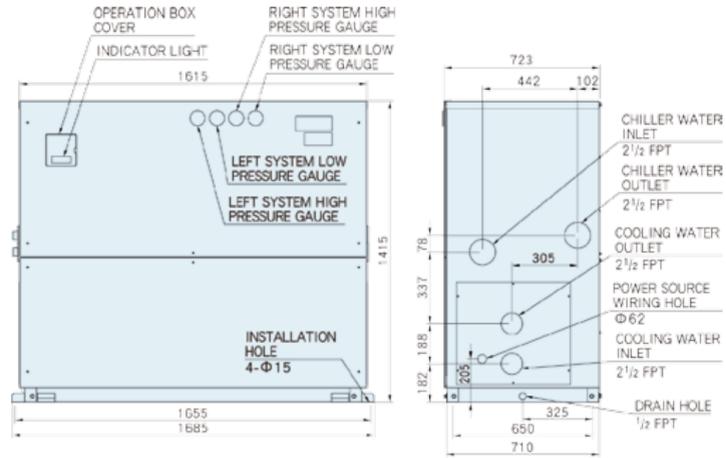


## RCU-N301W

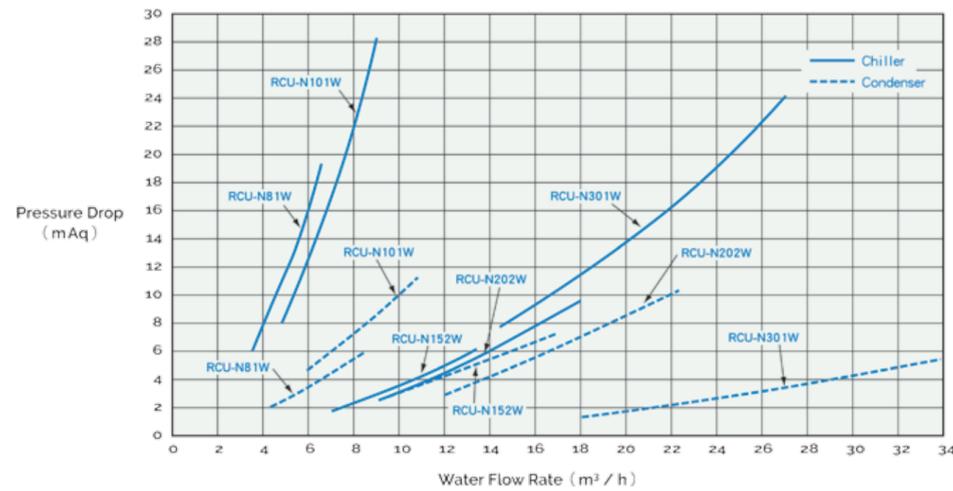


## GENERAL UNIT DATA

Item	Model	RCU-N81W	RCU-N101W	RCU-N152W	RCU-N202W	RCU-N301W	
Cooling Capacity	kcal/h	22,500	30,240	45,000	60,450	90,300	
	kW	26.2	35.2	52.3	70.3	105	
COP	W/W	4.45	4.45	4.45	4.45	4.45	
	Width	mm	780	920	1,608	1,608	1,615
	Depth	mm	495	570	690	724	723
Dimension	Height	mm	1,350	1,450	1,400	1,400	1,400
	Type	Hermetic Scroll					
Compressor	Quantity	1		2			
	Capacity Control	100/0		100/50/0			
Condenser Type	Double Tube			Shell and Tube			
Chiller Type	Plate		Shell and Tube				
Expansion Valve Control	Capillary Tube		Thermostatic Expansion Valve				
Refrigerant	Type	R410A					
	Quantity	kg	3.6	4.8	4.8 X 2	7 X 2	7.8 X 2
Oil	Type	FVC68D (For RCU-N81W · N152W)					
	Quantity	kg	Emkarate RL32-3MAF (For RCU-N101W · N202W · N301W)				
Starting Method	Direct-on-Line Starting						
Absorber	Compressor-Specific Anti-Vibration Rubber						
Protection Device	High Pressure Protection/Low Pressure Protection/Phase Failure Protection/Over-Current/Anti-Freeze Switch/Discharge Temperature Protection (For RCU-N81W, N152W)/Internal Temperature Protection (For RCU-N101W, N202W, N301W)						
Operation	Control Switch	Change-Over Switch, Control Panel					
Device	Indicator Light	White-Power Source, Green-Normal, Red-Abnormal					
Chiller	Connections	1 1/2" FPT		2" FPT		2 1/2" FPT	
	Standard Flow	m <sup>3</sup> /h	4.5	6.0	8.9	12	18
Condenser	Pressure Drop	mAq	9.5	12.7	3.0	4.5	11.7
	Connections	1 1/2" FPT		2" FPT		2 1/2" FPT	
Condenser	Standard Flow	m <sup>3</sup> /h	5.6	7.5	11.2	15	22.5
	Pressure Drop	mAq	3.0	6.3	3.7	4.8	2.2
Power Supply	AC, 3φ, 60Hz, 220V/380V						
Electrical Data	Power Input	kW	5.88	7.9	11.75	15.8	23.6
	Rating	220V	18.2	24.4	36	51	75.5
	Current	180V	10.5	15	21	30	47.8
	Starting	220V	150	180	188	245	340
Net Weight	kg	195	240	510	630	700	
	Operating Weight	kg	205	252	550	670	785

- Notes:  
 1. Cooling capacities and electrical properties are based on CNS12575 (water chilling packages using the vapor compression cycle).  
 2. Fouling factor : 0.000044m<sup>2</sup>/W · °C  
 3. Operating range : Chiller Water Outlet Maximum 15°C/Minimum 5°C ; Cooling Water Outlet Maximum 38°C/Minimum 21°C

## RCU-N81-301W WATER CHILLER AND CONDENSER WATER PRESSURE DROP CURVE CHART



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



Specifications in this catalog are subject to change without prior notice to keep abreast with continuous product innovations for our customers' benefit.

RCUS-2001

# HITACHI



## WATER COOLED WATER CHILLER

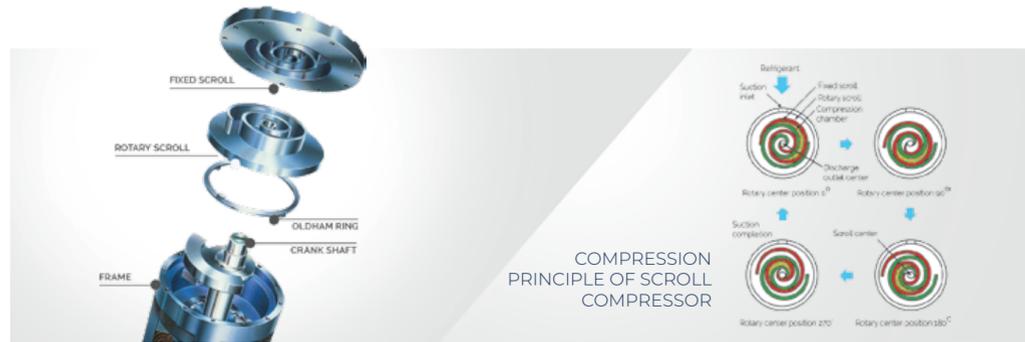


## Caring for Our Planet with Environment Friendly Refrigerant

The environmentally friendly refrigerant R410A has the chemical properties of being non-toxic, odorless, colorless and non-flammable. Aside from being stable and energy-saving, it also does not damage the ozone layer. This is how Hitachi shows its genuine concern for the environment while catering to the needs of customers.

### HIGH EFFICIENCY, ENERGY SAVING

While the scroll compressor is operating, only a minute amount of air is leaked between the high-pressure and low-pressure regions. Actually, since the inlet and the outlet are not proximal to each other, almost no refrigerant is leaked. As a result, the scroll compressor can be used to its full capacity, enabling it to provide intensive cooling while saving energy.



### 40% LESS VOLUME, 15% LIGHTER

Since a scroll compressor does not need valve plates, and requires neither a muffler nor a pulsation dampener, each compressor consists of merely 5 components. This explains why the compressor is compact and extremely lightweight.

### ELEGANT EXTERIOR DESIGN

The soft apricot-hued exterior design blends well with any decorative color motif.

### CONTROL PANEL CONTROLS, IMPROVED FUNCTIONAL REQUIREMENTS

Newly added Modbus communication port reserves functions for central control. With it, operation time can be recorded to facilitate leveling of operation times. Its built-in control values can change temperature adjustment parameters according to need, and provides failure records for review, hence further improving service.

### ALTERNATE FUNCTION OPTION, LONGER LIFE SPAN

The 2 compressors have a built-in dual cycle unit, which allows users to automatically or manually operate either one alternately (can be used one at a time) when the load is low. Each cycle control circuit is completely independent. If there is a problem with one unit, the other units still continue to operate. Hence, the overall air conditioning system continues to operate, making this device more reliable and convenient to use.

### HIGH QUALITY, OPTIMUM PERFORMANCE

Because the inlet and the outlet of the scroll compressor are not adjacent to each other, neither outlet requires a valve. The refrigerant flows smoothly. Unlike a traditional compressor, the scroll compressor is least likely to malfunction due to damaged valve plates.

### LOW VIBRATION, LOW NOISE LEVEL

Suction, compression and discharge are concurrent in each rotation. There are hardly any variations in the torque of the compression, so vibration and noise are automatically reduced.

### WIRED REMOTE CONTROL

Because the linkage terminals for wired remote control is reserved, users can operate the unit easily. The options to operate using the controls on the unit itself or the remote control make this device more practical and efficient.

### SUITABLE INDOORS, WIDE RANGE OF APPLICATION

The unit can provide extensive air conditioning to large and spacious environments like all major areas of a building or low-temperature water for industrial needs.

### COMPREHENSIVE PROTECTIVE DEVICES

In order to ensure a safe and secure operation, every Hitachi Water-Chiller is comprehensively equipped with protective devices. So users can look forward to reaping its cooling benefits without worries.

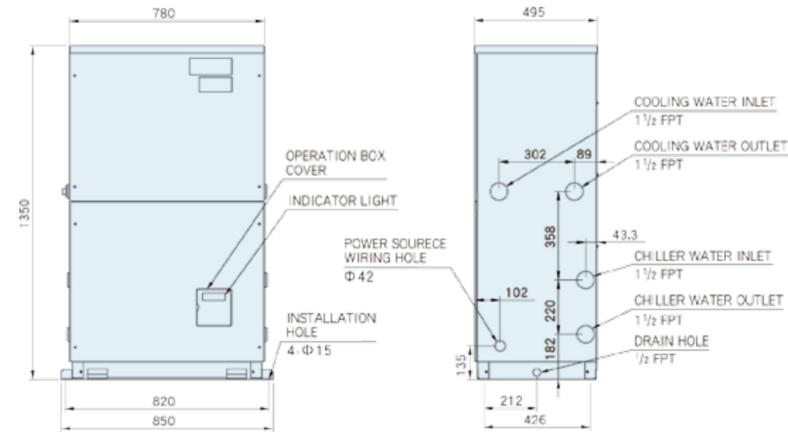
### FIRST-RATE QUALITY

Before a Hitachi Water Chiller is delivered to a customer, the professional technicians subject it to a complete inspection. This necessary practice ensures that every unit we ship meets our high standards and will deliver optimum performance.

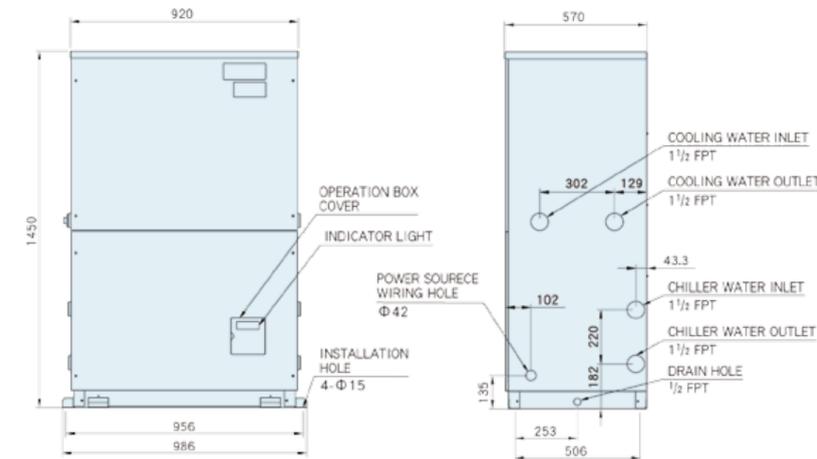
### RELIABLE SERVICE

Our nationwide service network is comprised of highly trained personnel. Personable and professional throughout, the staff assists customers in their various needs such as providing information, consultation, machine installation and maintenance.

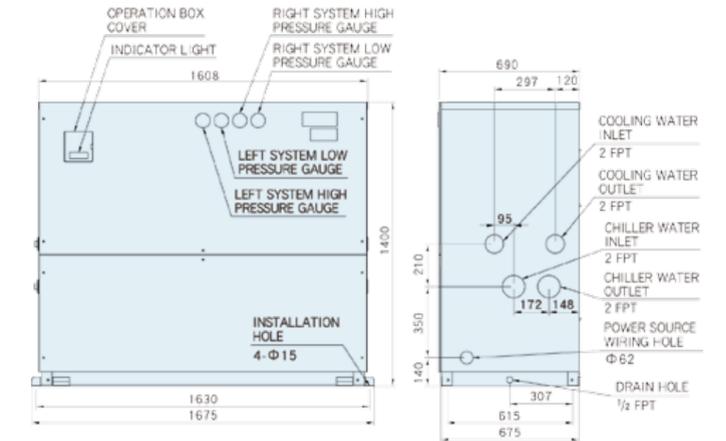
## RCU-N81W



## RCU-N101W



## RCU-N152W



## RCU-N202W

