

HITACHI



air



WATER-COOLED WATER CHILLER

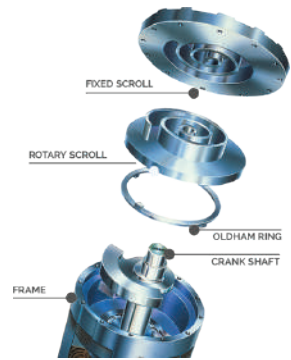


Caring for Our Planet with Environment Friendly Refrigerant

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.

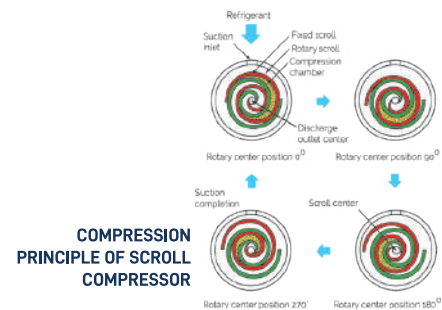


HIGH QUALITY, OPTIMUM PERFORMANCE

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.



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.

IMPROVED CONTROL PANEL FUNCTIONS

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 valves 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.

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.

IDEAL FOR



Factories



Universities/Malls



Warehouses

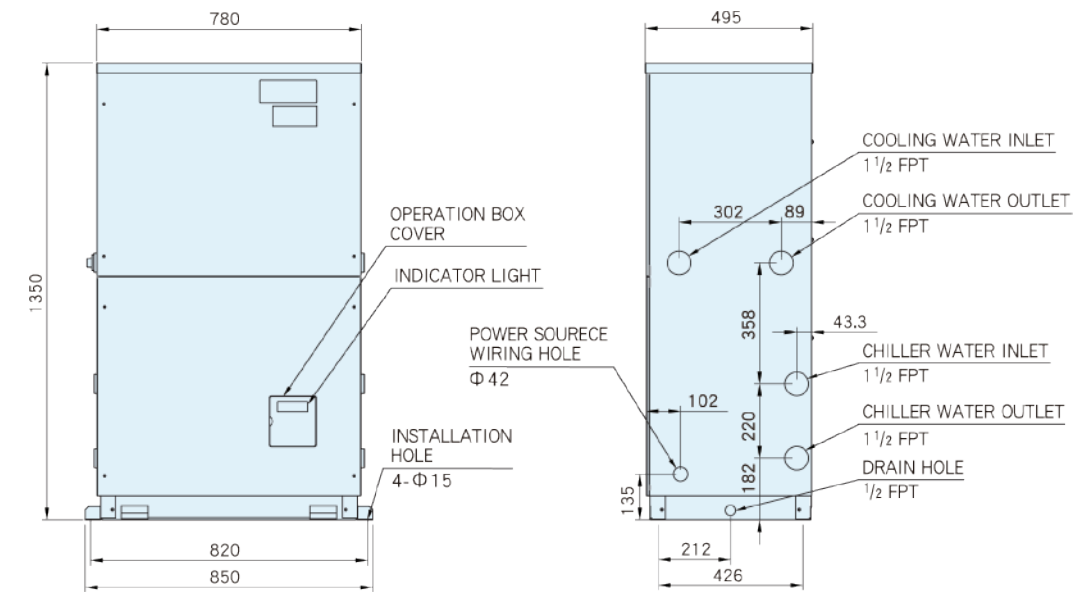


Offices

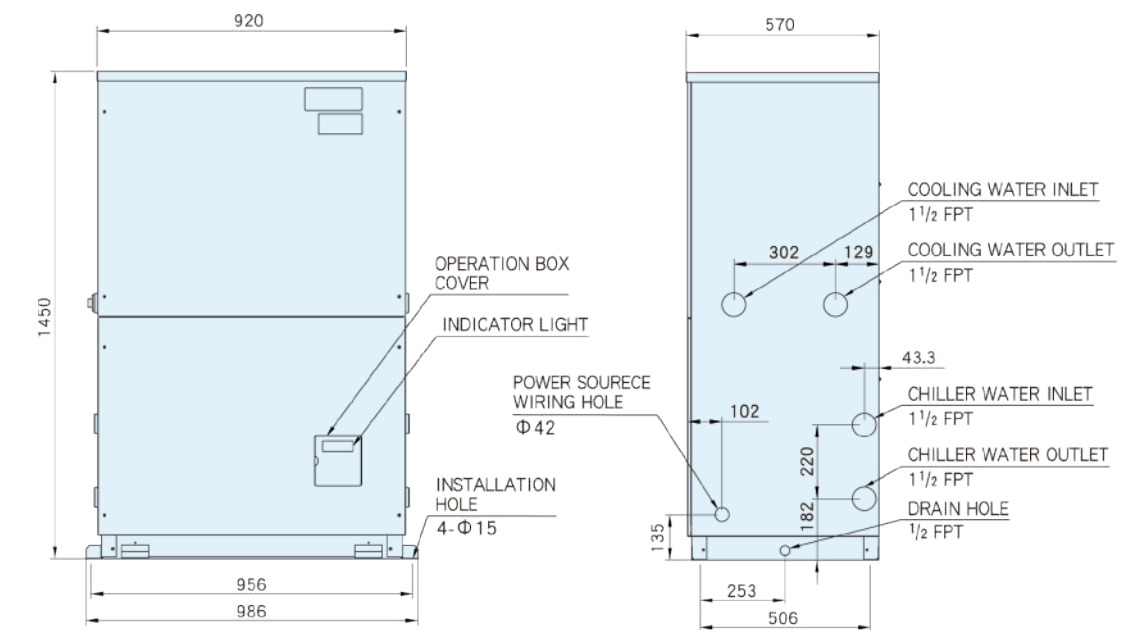


Supermarkets

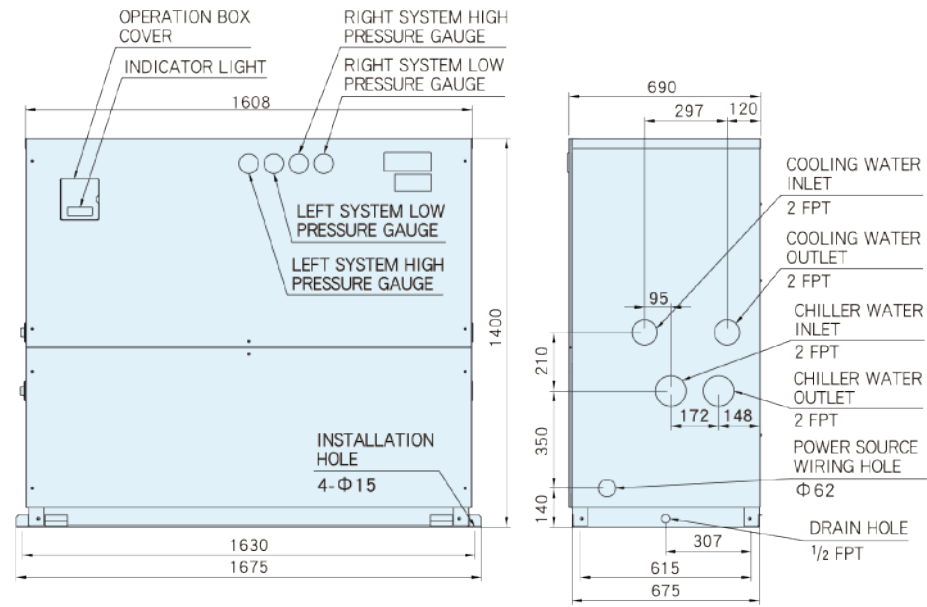
RCU-N81W



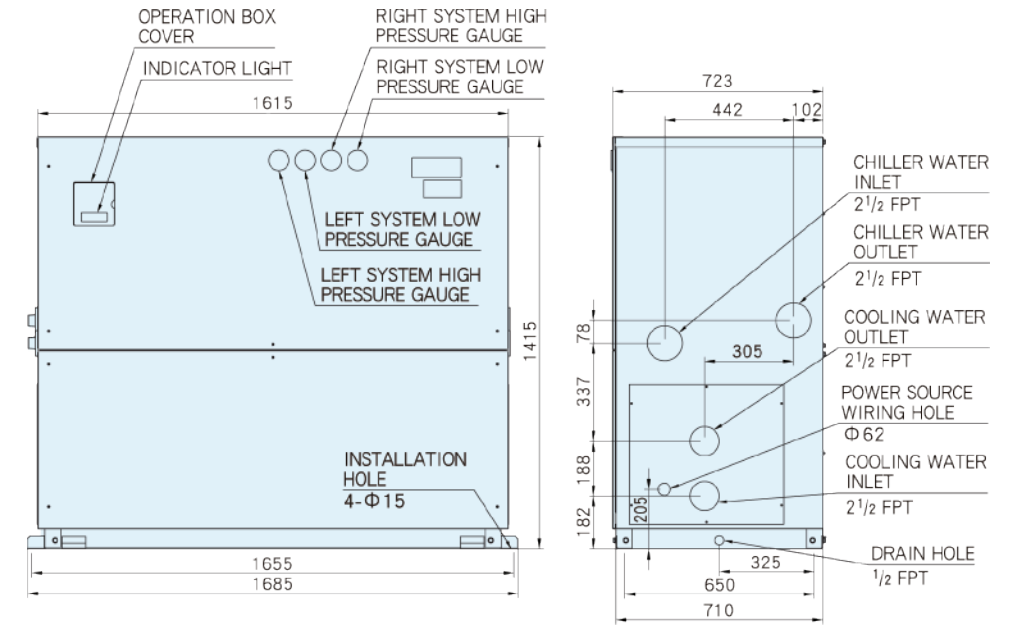
RCU-N101W



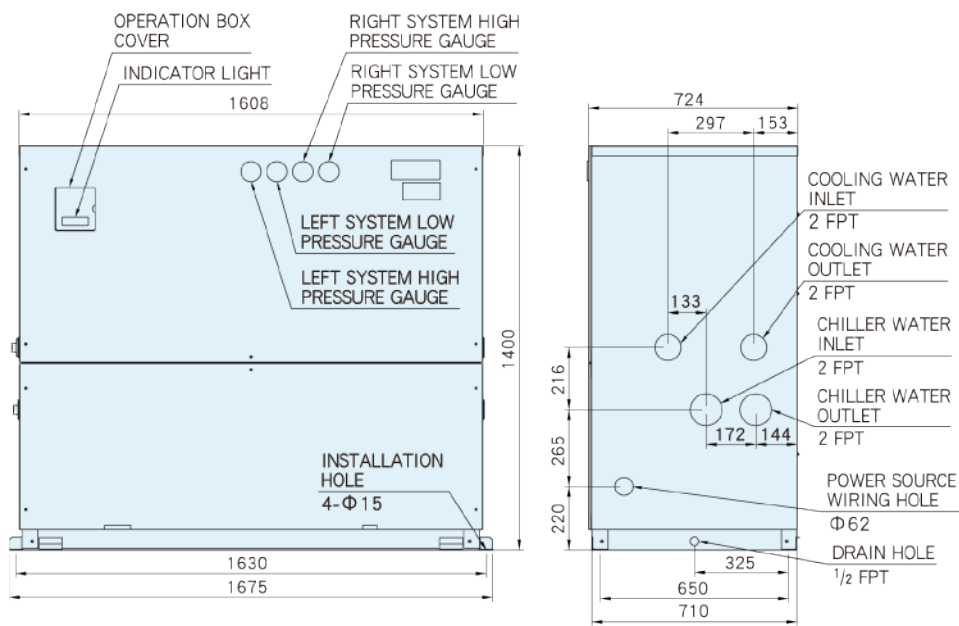
RCU-N153W



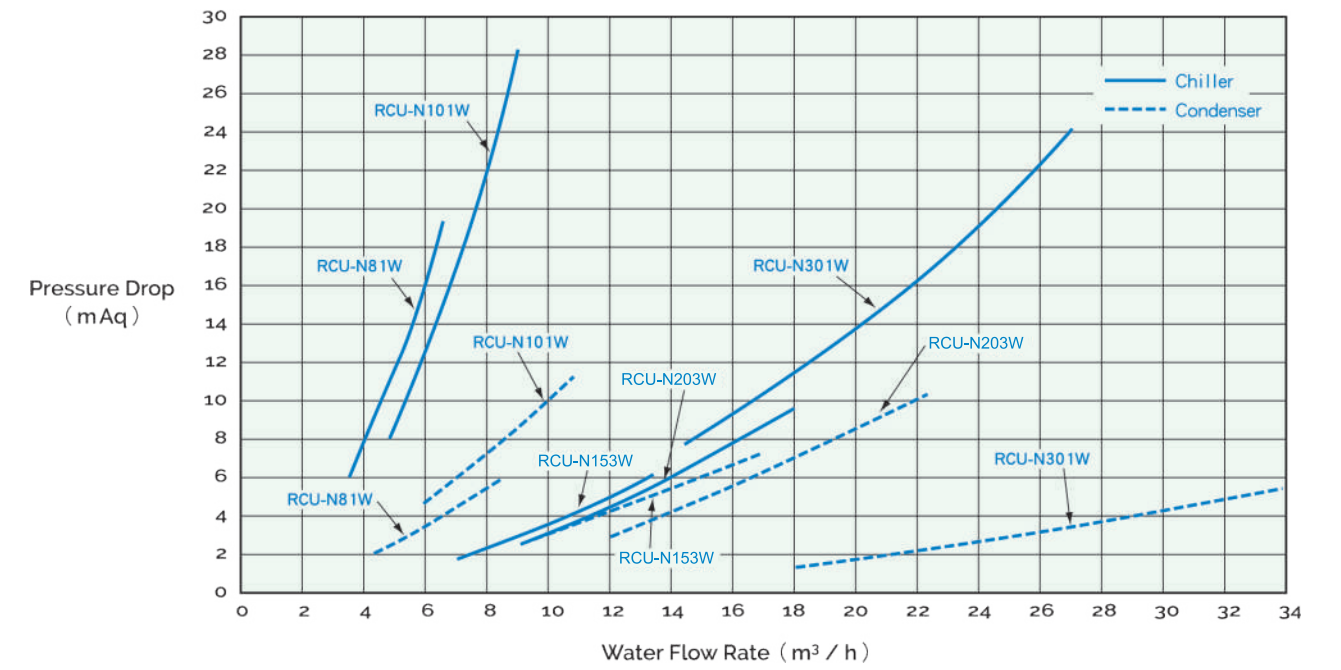
RCU-N301W



RCU-N203W



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



GENERAL UNIT DATA

Item		Model	RCU-N81W	RCU-N101W	RCU-N153W	RCU-N203W	RCU-N301W
Cooling Capacity		kW	26.2	35.2	53.5	70.3	105.0
COP		W/W	4.45	4.45	5.00	4.80	4.45
Dimension	Width	mm	780	920	1,608	1,608	1,615
	Depth	mm	495	570	690	724	723
	Height	mm	1,350	1,450	1,120	1,120	1,415
Compressor	Type	—	Hermetic Scroll				
	Quantity	—	1		2		
	Capacity Control	%	100/0		100/50/0		
Condenser Type		—	Double Tube		Shell and Tube		
Chiller Type		—	Plate Type				Shell and Tube
Expansion Valve Control		—	Capillary Tube		Thermostatic Expansion Valve		
Refrigerant	Type	—	R410A				
	Quantity	kg	3.5	4.8	6.0 X 2	7.4 X 2	7.8 X 2
Oil	Type	—	FVC68D For RCU-N81W N153W Emkarate RL32-3MAF For RCU-N101W N203W N301W				
	Quantity	ℓ	1.3	3.1	2.1 X 2	3.1 X 2	3.1 X 2
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, N153W)/ Internal Temperature Protection (For RCU-N101W, N203W, 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 ³ /h	4.5	6.0	9.1	12.0	18.0
	Pressure Drop	mAq	9.5	12.7	3.7	6.1	11.7
Condenser	Connections	—	1 1/2" FPT		2" FPT		2 1/2" FPT
	Standard Flow	m ³ /h	5.6	7.5	11.4	15.0	22.5
	Pressure Drop	mAq	3.0	6.3	5.3	6.9	2.2
Power Supply		—	AC, 3φ, 60Hz, 220V/380V				
Power Input		kW	5.88	7.90	10.70	14.64	23.59
Electrical Data	Running	220V	18.2	24.4	33.6	47.8	81.5
	Current	380V	10.5	15.0	19.4	27.7	51.2
	Starting	220V	150	180	180	245	340
	Current	380V	95	135	100	160	230
Net Weight		kg	195	240	530	590	700
Operating Weight		kg	205	252	575	640	785

Notes:

- Cooling capacities and electrical properties are based on CNS12575 (water chilling packages using the vapor compression cycle).
- Fouling factor: 0.000044m²/W
- Operating range: Chiller Water Outlet Maximum 15/Minimum 5; Cooling Water Outlet Maximum 38/Minimum 21

#REALENERGYSAVINGS
#GREENAIR



True
to Your Comfort ♡

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Air conditioning solutions