Johnson Controls - Hitachi Air Conditioning

Manufactured by:

Johnson Controls-Hitachi Wanbao Air Conditioning (Guangzhou) Co.,Ltd.

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Environment al Management System Certification IS014001



Occupational Health And Safety Management System Certification OHSAS18001

HITACHI

WZPY SERIES

WATER COOLED SCREW TYPE-WATER CHILLERS





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Optionize Your Solution with Hitachi Water Cooled Chiller

Incorporating proprietary cutting edge technology, Hitachi's Water Cooled Chiller combines high efficiency performance and stable.

New model chiller lineup featuring a G-type semihermetic twin-screw compressor using the environmentally-friendly R134a refrigerant.

In addition to low noise, low vibration, high efficiency and high performance, the new models come with a user-friendly touch panel type liquid crystal screen display that allows you to check operation status at a glance and has a full range of control functions.

As the perfect answer to user needs, Hitachi's chillers are designed to cover a broad range of applications from air conditioning of buildings to cooling of factories.



R134a

Environmentally friendly HFC134a refrigerant

R134a G-type twin-screw compressor

High efficiency shell-and-tube flooded evaporator

User-friendly touch LCD Panel

Nominal capacity range: 190~1862kw 50~530RT





Air Conditioning at Office Buildings



Process Cooling at Factory



Better Performance And Energy Saving

Hitachi's new water-cooled chiller(WZPY Series) adopts more efficient semi-hermetic twin-screw compressor and better shell-and tube flooded evaporator brings you significant energy saving experience under stable and durable operation.

Current Model

New Model









Cooling

Capacity (kW)

Adopting Hitachi R134a Screw Compressor

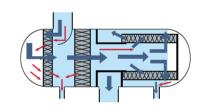
Since 1972 when we started manufacturing them, we have delivered more than 200,000 Hitachi twin-screw compressors to countries around the world where they continue to meet essential air conditioning needs.

Our new water-cooled chillers adopt G-type semihermetic twin-screw compressors that only available to R134a refrigerant .



Oil Separator

Current Model

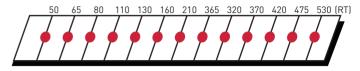


Filter Oil Separator High Pressure Drop, More Energy Consumption

Wide Line-up

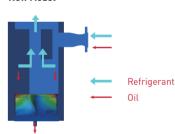
To meet the need of air conditioning systems for large facilities and the demand for higher capacity industrial cooling systems.

RCUF***WZPY



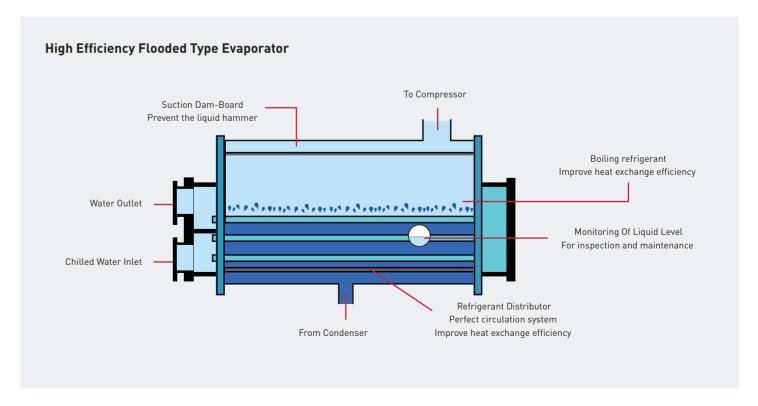


New Model



Cyclone Oil Separator Low Pressure Drop, Less Energy Consumption

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Intelligent Control

Clear User-friendly LCD touch console

The display makes it easy to view the current operating status and simplify the setting procedure.

Various parameters can be confirmed at a glance.

Regardless of operating status, the console allows you to set a variety of operation modes.

A warning log function makes it possible to recall the latest 10 recent warning events.

The user interface is provided in both English and Chinese.

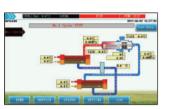
Main Page



Compressor Page



Status Page

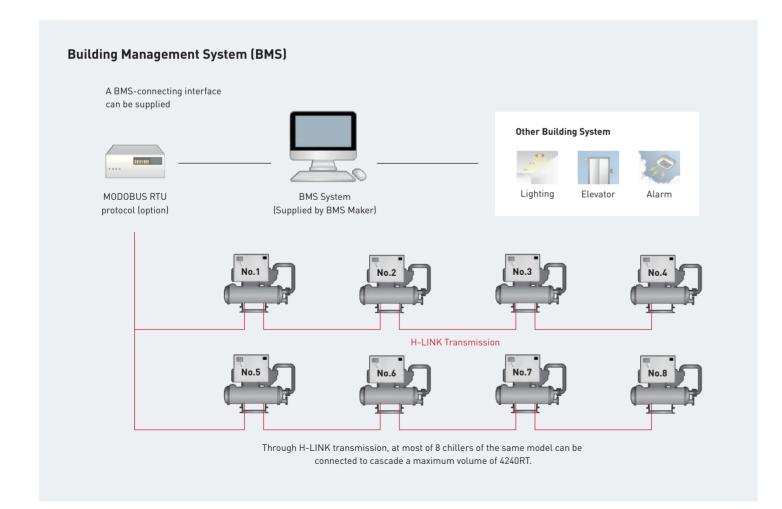


Parameter Setting Page



Setting Page





Specification/Parameter

	Mod	el		RCUF50WZPY	RCUF65WZPY	RCUF80WZPY	RCUF110WZPY	RCUF130WZPY		
Power Source				Main(A C3φ)380,415V/50Hz,Control(AC1φ)220,240V/50Hz						
Nominal cooling capacity USRT kcal/h			kW	190	238	298	383	478		
			USRT	54	68	85	109	136		
			kcal/h	163,400	204,680	256,280	329,380	411,080		
Power input			kW	32.2	40.3	50.5	64.9	81.0		
COP			WW	5.90	5.90	5.90	5.90	5.90		
Capacity control		_	Continuous capacity control							
Capacity control			%	100~25,0						
Outer dimensions	Len	gth	mm	2,200 3,950						
	Width		mm	1,350						
	Height mm		mm	1,600						
Net weight			kg	1,900	2,000	3,250	3,400	3,550		
Refrigerant	Туре		_	R134a (charged)						
	Number of circuits		_	1	1	2	2	2		
Compressor	Туре		_	Semi-Hermetic Screw Type (R134a only)						
	Model		GSCCW**Z	50	60	40	50	60		
	Quantity		Set	1	1	2	2	2		
Condenser			_	Shell-and-Tube Type						
Piping connections for water		Inlet	_	DI	N65	DN125				
de heat exchange	r	Outlet	_	DN65		DN125				
Evaporator			_	Shell-and-Tube Flooded Type						
Piping connections for water side heat exchanger Outlet		_	DI	N65	DN125					
		Outlet	_	DI	N65	DN125				
Safety devices			-	Three-Phase Over current Relay, High-Pressure Switch, High and Low-Pressure Control, Oil Heater, Internal Thermostat for Compresson Motor, Freeze Protection Control, Reverse Phase Protection Control, Discharge Gas Overheat Protection, Compressor frequent ON/OFF control, Pressure Relief Valve, Overcurrent Relay and Water Pressure Difference Switch.						
Shipping Dimensions	Length		mm	2,345 4,105						
	Wic	Width mm		1,435						
Difficusions	Height		mm	1,689						
Shipping weight			kg	1,920	2,020	3,290	3,440	3,590		

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Model				RCUF160WZPY	RCUF210WZPY	RCUF265WZPY	RCUF320WZPY	RCUF370WZPY	RCUF420WZPY	RCUF475WZPY	RCUF530WZPY	
Power Source			Main(A C3φ)380,415V/50Hz,Control(AC1φ)220,240V/50Hz									
Nominal cooling capacity USRT kcal/h			559	745	931	1117	1303	1490	1676	1862		
			USRT	159	212	265	318	371	424	477	530	
			kcal/h	480,740	640,700	800,660	960,620	1,120,580	1,281,400	1,441,360	1,601,320	
Power input			kW	87.3	116.4	145.5	174.6	203.7	232.8	261.8	290.9	
COP			WW	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	
Capacity control		_	Continuous capacity control									
		%	100~25,0									
Outer dimensions	Length		mm		3,373		4,804	5,404	4,804	5,304	4,804	
	Width		mm		1,715 1,949							
	Height		mm		2,311		2,419					
Net weight		kg	3,974	4,443	4,670	7,548	8,155	8,486	8,817	8,940		
Refrigerant	Type		_	R134a (charged)								
	Number of circuits		_	1	1	1	2	2	2	2	2	
Compressor	Туре		_	Semi-Hermetic Screw Type (R134a only)								
	Model		GSCCW**Z	150	200	250	150	200+150	200	250+200	250	
	Quantity		Set	1	1	1	2	1+1	2	1+1	2	
Condenser		_	Shell-and-Tube Type									
Piping connections for water side heat exchanger Outlet		_	DN150			DN200						
		_	DN150 DN200									
Evaporator		_	Shell-and-Tube Flooded Type									
Piping connections		Inlet	_	DN150			DN200					
side heat exchange	r	Outlet	_		DN150		DN200					
Safety devices		-	Three-Phase Over current Relay, High-Pressure Switch, High and Low-Pressure Control, Oil Heater, Internal Thermostat for Compressor Motor, Freeze Protection Control, Reverse Phase Protection Control, Discharge Gas Overheat Protection, Compressor frequent ON/OFF control, Pressure Relief Valve, Overcurrent Relay and Water Pressure Difference Switch.									
Shipping Dimensions	Length		mm	3,520			4,959	5,559	4,959	5,459	4,959	
	Width		mm	1,800			2,034					
	Height		mm	2,400			2,508					
Shipping weight		kg	4,004	4,473	4,700	7,598	8,215	8,536	8,877	8,990		

- Notes:

 1. The nominal cooling capacities are based on the GB/T18430.1

 Evaporator Water outlet temperature/water flow rate: 7 C /0.172m3/lh.kW)

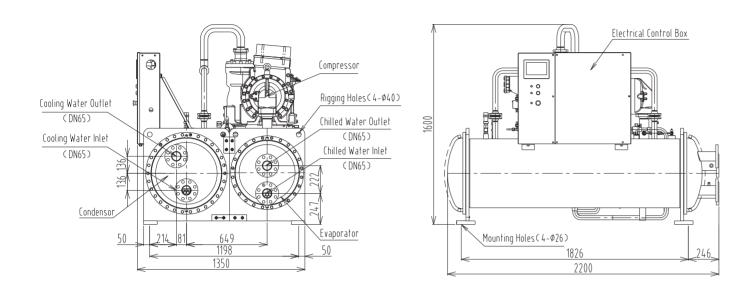
 Condenser Water inlet temperature/water flow rate: 30 C /0.215m3/lh.kW)

 The fouling factor of evaporator is 0.018m2. C /kW, the fouling factor of condenser is 0.044m2. C /kW. The fouling factor or evaporation 2. Working Range: 2. Working Range: Condenser Water outlet temperature: $22\,C\sim40\,C$ Evaporator Water outlet temperature: $5\,C\sim20\,C$ (RCUF50-130WZPY) $4\,C\sim15\,C$ (RCUF160-530WZPY)

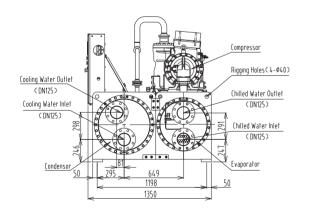
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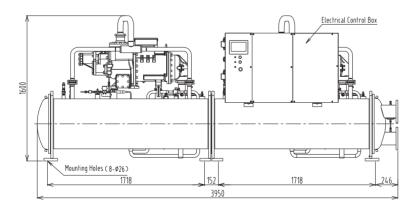
Dimensional Data

RCUF50 / 65WZPY

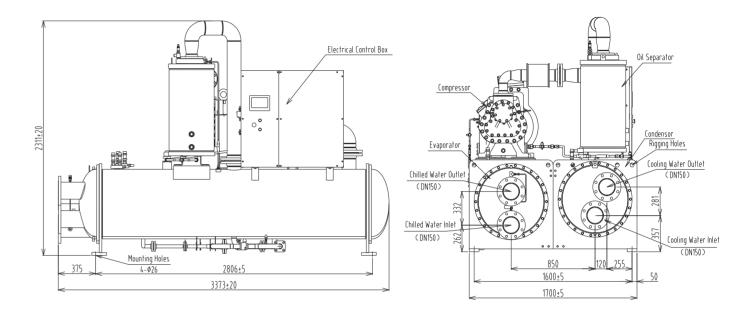


RCUF80 / 110 / 130WZPY

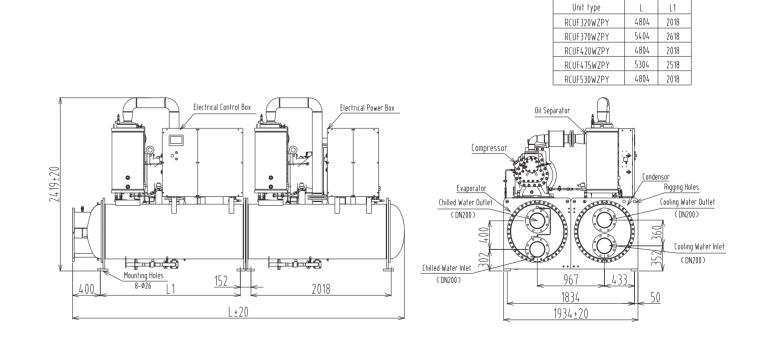




RCUF160 / 210 / 265WZPY



RCUF320 / 370 / 420 / 475 / 530WZPY



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