HITACHI

Flooded Type Water-Cooled Chillers



The High-Efficiency Water-Cooled Flooded **Evaporator Chillers**

The New Water-Cooled Flooded Evaporator chiller with improved efficiency and functionality by incorporating several advanced technology and features. This series with the world's best standard semi-hermetic screw compressors and newly designed shell and tube heat exchangers that have powerful cooling ability, low noise, low vibration, high efficiency and high reliability is the perfect answer to all your needs!

Hitachi Semi-Hermetic Screw Chillers Show a Remarkable **Energy-Saving Effect & are Friendly to the Global Environment**

Global Warming Prevention Energy saving by higher-efficiency screw chillers

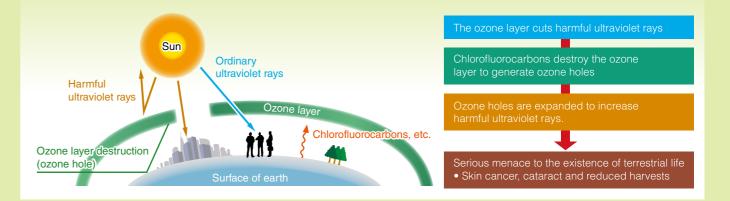
Global warming refers to the phenomenon of global rising in average atmospheric temperatures due to increased volume of CO₂ & methane as a result of burning fossil fuels such as petroleum and coal. The1995 IPCC* Report predicted that if the emission of CO2, etc. continued as it was, the atmospheric temperature would rise by as much as 2°C by the end of the 21st century and, as a result, the sea level would rise by approx. 50 cm from the present level. In such circumstances, it is even more important to save the energy consumed by air conditioners in order to cut CO₂ emission. *IPCC: Intergovernmental Panel on Climate Change



Ozone Layer Protection

Use of HFC134a refrigerant has an ozone depletion potential of zero

Chlorofluorocarbons (CFCs) in the stratosphere are exposed to ultraviolet rays which decompose them, and generate chlorine atoms. It is thought that the chlorine atoms combine with oxygen atoms in ozone to destroy the ozone. Because HFC134a has no chlorine atoms, it does not destroy the ozone in the atmosphere.



Enhanced Line-up: from 143RT to 458RT

R134a

- High-performance Semi-hermetic Screw Compressors
- High efficiency shell & tubes flooded type evaporators
- High efficiency shell & tubes condensers
- Highly efficient external 3 stages oil separator, up to 99.96% oil separation

Technical Features

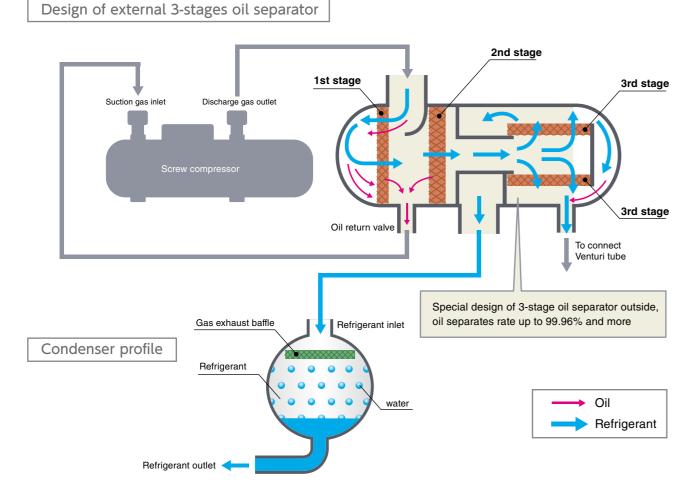
High COP

3

In the new model series, the power consumption is largely reduced over the current model series due to newly designed high-efficiency cooling system.



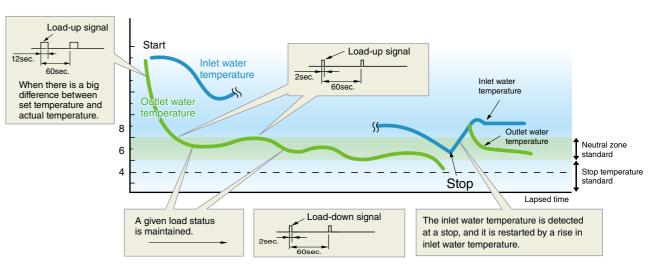
High efficiency oil separation



Precise Capacity Control Technology

Continuous Capacity Control

The temperature of the chilled water outlet can be kept at the set temperature $\pm 1^{\circ}$ C by continuous capacity control, so it is suitable for industrial use.



Excellent Control Function

Liquid Crystal Screen Display

- Big colorful liquid crystal touch panel
- Message board function (for shift)
- Real time information
- Return to factory setting
- Time starting function

Building Management System (BMS)

A BMS-connecting interface can be supplied.

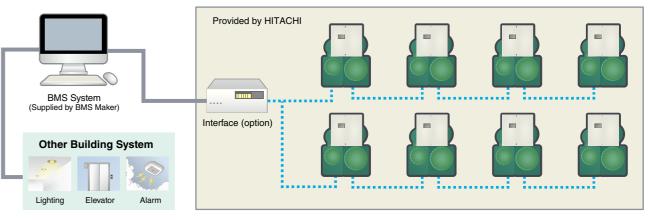




Image of Display

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Flooded Type Water-Cooled Chillers

General Data

Model Size			RCU140WFYZ-XB	RCU185WFYZ-XB	RCU230WFYZ-XB	RCU280WFYZ-XB	RCU330WFYZ-XB	RCU370WFYZ
Capling Capacity Dange			503	654	805	1006	1157	1308
Cooling Capacity Range		RT	143	186	229	286	329	372
Capacity Control		-	Continuous Capacity Control			Continuous Capacity		
		%	100~25, 0			100~25, (12.5)		
Refrigerant	Refrigerant	-	R134a			R134a		
	Flow Control	-	Orifice Plate			Orifice Plate		
	Circuit Qty.	-	1			2		
Compressor	Туре	-	Semi-Hermetic Twin Screw Compressor			Semi-Hermetic Twin Screv		
	Qty.	-		1	2			
Condenser -		-	Shell & Tube Type			Shell & Tube Ty		
Evaporator		-		Flooded Type				Flooded Typ
Safety Device		-	Oil Temperature Sensor, Opto- electronical Oil Level Monitor, Overcurrent Relay, High Pressure Switch, High/Low Pressure Sensor, Oil Heater, Compressor Motor Internal Thermostat, Anti-Freeze Temperature Sensor, Phase-reverse Protector, Discharge Temperature Sensor, Safety Relief Valve and Water Pressure Differential Switch			Oil Temperature Sensor, Opto- electronical Oil Level Monitor, Overcurren Oil Heater, Compressor Motor Internal Thermostat, Anti-Freeze Temperat ture Sensor, Safety Relief Valve and Water Pressure Differential Switch		
Condenser Piping Connection	Inlet	-	DN150 Flange			DN150 Flange		
	Outlet	-	DN150 Flange			DN150 Flange		
Evaporator Piping Connection	Inlet	-	DN150 Flange			DN150 Flange		
	Outlet	-	DN150 Flange			DN150 Flange		
Outer Dimensions	Length	mm	2,997			2,997		
	Width	mm	1,469			3,037		
	Height	mm	1,951			1,951		
Packing Dimensions	L×W×H	mm	3,230 x 1,670 x 2,220 (Single Module)			3,230 x 1,670 x 2,220 (S		
	Module Qty.	-	1			2		
Net Weight		kg	3,565	3,688	4,000	7,130	7,253	7,376
Packed Weight		kg	3,915	4,038	4,350	7,830	7,953	8,076

Notes

1. The nominal cooling capacities are based on the GB/T18430.1 Chilled Water Inlet / Outlet Temperature: 12/7°C Condenser Water Inlet / Outlet Temperature: 30/35°C 3. Working Range:

Cooling Water Outlet Temperature: 22°C to 40°C Chilled Water Outlet Temperature: 5°C to 13°C

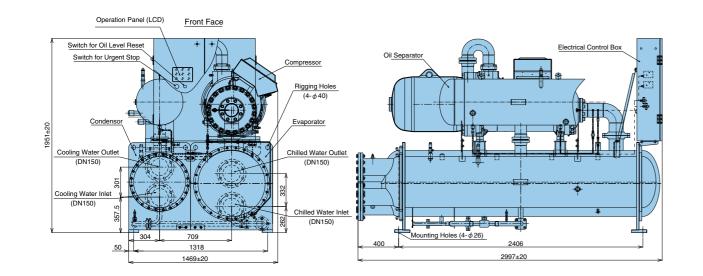
4. () marked with * is available by selection switch.

2. Applicable Power Source: Main Power Source (3¢) Cor 380V 50Hz 415V 50Hz

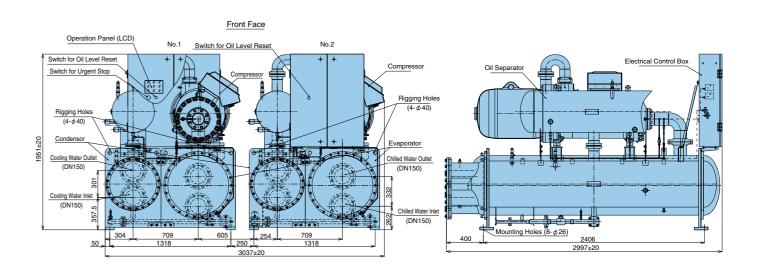
: Control Power Supplies (1*¢*) 220V 50Hz 240V 50Hz

Dimensional Data

RCU140 to 230WFYZ-XB



RCU280 to 460WFYZ-XB



Z-XB	RCU420WFYZ-XB	RCU460WFYZ-XB
	1459	1610
	415	458
ity Contro		
5)*,0		
e		
ew Comp	ressor	
Туре		
pe		
	High Pressure Switch, High/L Isor, Phase-reverse Protector,	
əx2		
Single Ma	odule)	
	7,688	8,000
	8,388	8,700

Johnson Controls-Hitachi Air Conditioning

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