HITACHI
Inspire the Next

TWIN SCREW COMPRESSOR TYPE HITACHI WATER-COOLED CHILLERS

NEW

H Series

R407C

R22

NEW The High-efficiency Water-cooled Chiller "H series"

The Water-cooled chiller "H series" with improved efficiency and functionality by several advanced technology.
This series with the world's best standard A-type screw compressor and newly designed shell and tube heat exchanger that have powerful cooling ability, low noise, low vibration, high efficiency and high reliablility is the perfect answer to all your needs!!

Enhanced Line-up ～up to 570 HP～

Top Class High COP

High-performance A-type Screw Compressor

Highly Reliable Shell and Tube Heat Exchanger

Precise Capacity Control Technology

Excellent Control Function

Products Series

RCUG-WHYZ(-E)

Nominal Capacity Range (50Hz)

R407C

130 kW to 1,755 kW
37.0 USRT to 499.1 USRT
111,800 kcal/h to 1,509,300 kcal/h

RCU-WHYZ(-E)

Nominal Capacity Range (50Hz)

R22

140 kW to 1,825 kW
39.7 USRT to 519.1 USRT
119,970 kcal/h to 1,569,500 kcal/h

Wide Line-up

To meet the need for air conditioning systems for large facilities and the demand for higher capacity industrial cooling systems, we have added the large screw chillers, the 410–570HP, to our product line-up.

RCUG-WHYZ(-E)

R407C

40 50 60 80 100 120 150 180 220 260 300 340 380 410 450 490 530 570 (HP)

RCU-WHYZ(-E)

R22

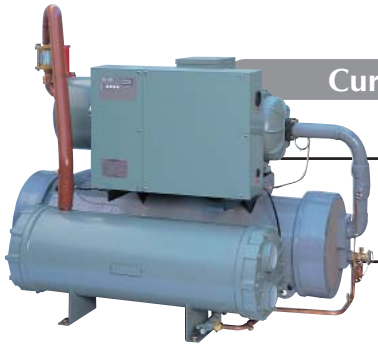
40 50 60 80 100 120 150 180 220 260 300 340 380 410 450 490 530 570 (HP)

Technical Features

Top Class High COP

In the new model sereis, the power consumption is largely reduced over the current model series due to newly designed high-efficiency cooling system. Also COP is largely increased from 4.42 in the current 100HP model to 5.13 in the new 100HP model.

COP Comparison



Current Model

COP **4.42**

Cooling Capacity (kW) **312**

New Model

COP **5.13**

Cooling Capacity (kW) **344**

COP 120% UP!!

High-performance A-type Screw Compressor ~Newly Designed~

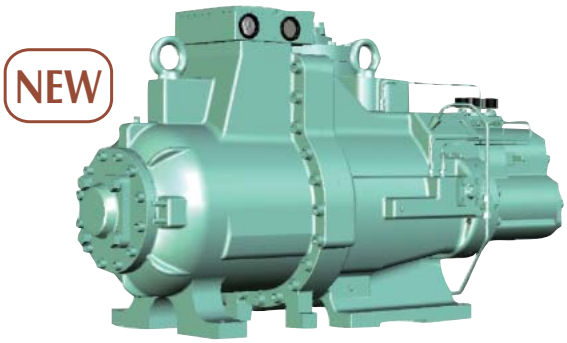
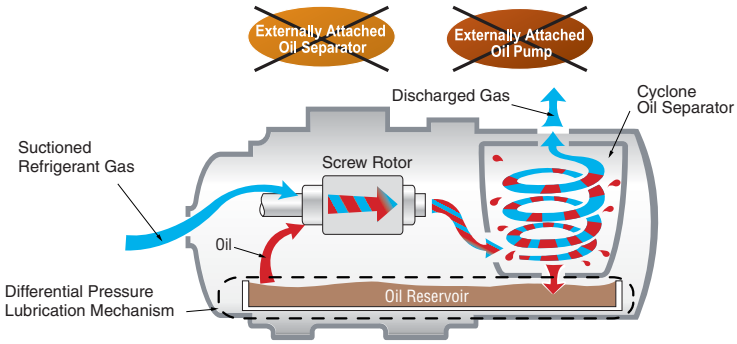


Image of Large Capacity Compressor



Operation Image

Built-in Cyclone Oil Separator

Low oil carrying-out is realized and reduction of heat transfer efficiency is minimized.

High Technology by Internal Manufacture

Because all manufacturing processes, from rotor manufacturing to unit assembly, are done internally, exceptional reliability is achieved.

No outside pump is required due to the reliable differential-pressure oil-feeding system.

This oil-feeding system, which does not use any electrical mechanism, prevents the compressor from being damaged and maintains long-term stable operation.

Low Vibration, Low Noise

Without the conventional demister chamber system, no noise is produced during oil separation of discharge gas. A vibration-proof base is not required for the chiller body thanks to the firmly-secured, low-vibration screw compressor.

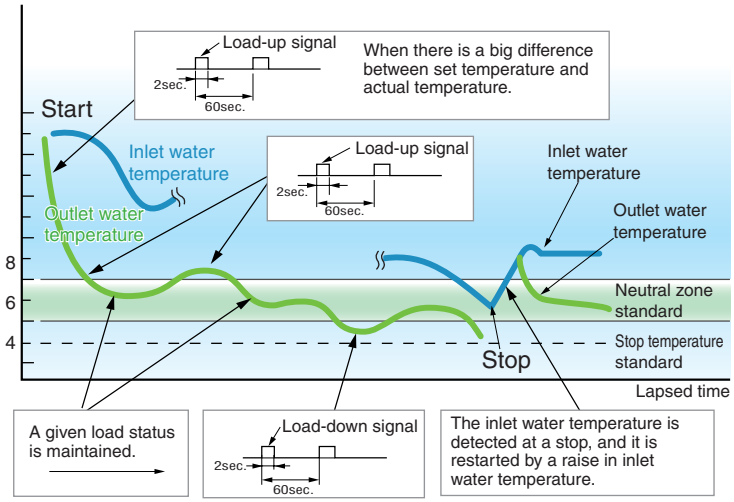
Highly Reliable Shell and Tube Heat Exchanger ~Newly Designed~

- Simple structure and easy for maintenance
- Reduced cost and adapted to satisfy various demands
- Freeze protection thermostat and other safety devices
- Integral and reliable performance

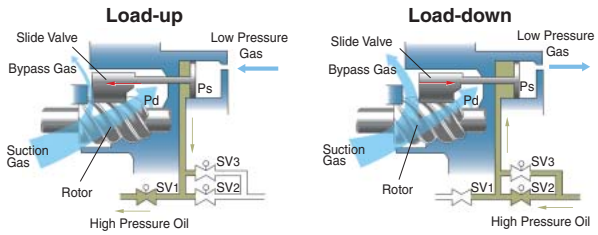
Precise Capacity Control Technology

Continuous Capacity Control

The temperature of the chilled water outlet can be kept at the set temperature ±1°C by continuous capacity control, so it is suitable for industrial use.



Capacity Controller Structural Outline (HITACHI Patented System)



Pd: Discharge pressure, Ps: Suction pressure,
SV1,2,3 : Solenoid valve : Valve open : Valve close

Excellent Control Function

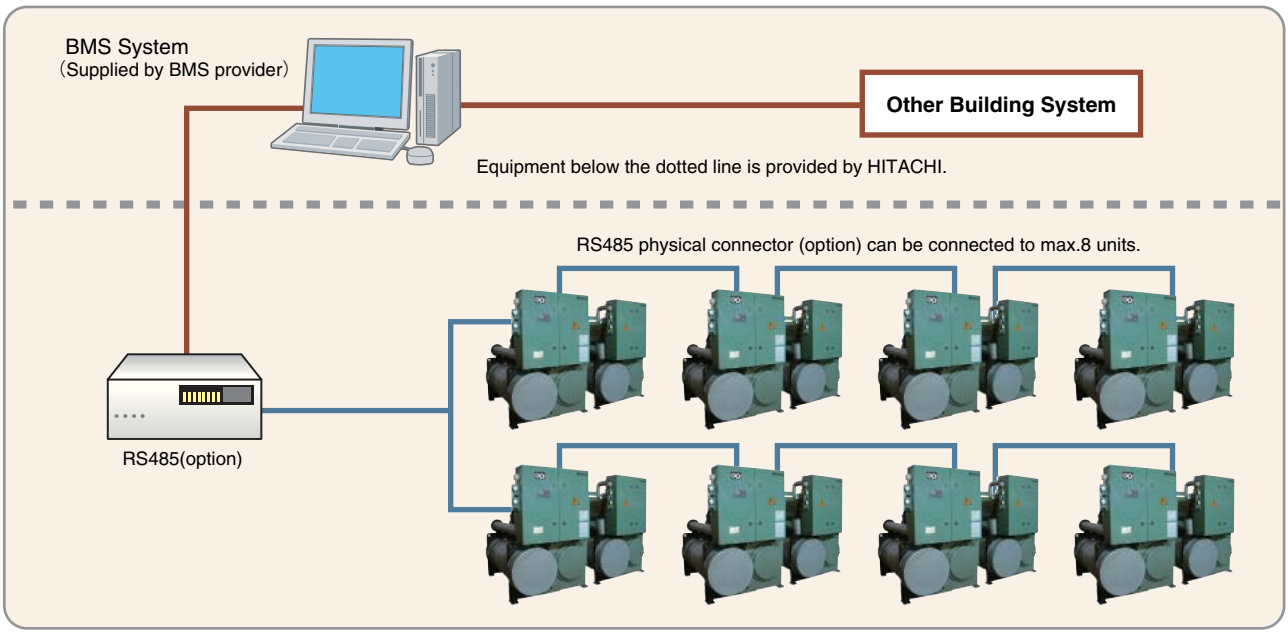
Liquid Crystal Screen Display (Optional Accessory)

- Big colorful liquid crystal display
- Man-machine conversation screen, display content completely.
- Show real time data
- Time starting function
- Leave message board (for shift)
- Communication adapter provides Communication with RS485 physics connection to BMS.

Image of Display

Building Management System (BMS)

The Hitachi chiller can be connected to the BMS system through an RS485 BOX as an option.



⋆ : HITACHI will provide its own protocol for RS485 communication by using 2 wiring connections. Please contact your local HITACHI dealer for more details.

R407C General Data

Model	Standard		RCUG40WHYZ	RCUG50WHYZ	RCUG60WHYZ	RCUG80WHYZ
	Liquid Crystal Display		RCUG40WHYZ-E	RCUG50WHYZ-E	RCUG60WHYZ-E	RCUG80WHYZ-E
Power Source			Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz			
Nominal Cooling Capacity		kW	130	162	197	260
		USRT	37.0	46.1	56.0	73.9
		kcal/h	111,800	139,320	169,420	223,600
Condenser Water Flow Rate (No.1/No.2/No.3)		m^3/h	27.4	34.2	41.5	54.9
Chilled Water Flow Rate (No.1/No.2/No.3)		m^3/h	22.4	27.9	33.9	44.7
Capacity Control			Continuous Capacity Control			
		%	100～15, 0			100～15, (7.5)*1, 0
Outer Dimensions	Height	mm	1,506			1,495
	Width		1,764			2,759
	Depth		910			1,070
Net Weight		kg	1,072	1,142	1,212	1,800
Refrigerant	Type		R407C			
	Flow Control		Electronic Expansion Valve			
	Number of Circuits		1			2
Compressor	Type		Semi-Hermetic Screw Type			
	Model (No.1/No.2/No.3)		40ASCCW-Z	50ASCCW-Z	60ASCCW-Z	40ASCCW-Z
	Quantity		1			2
Condenser			Shell-and-Tube Type			
Water Cooler			Shell-and-Tube, Dry Expansion Valve			
Safety Devices			Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve			
Shipping Dimensions	Height	mm	1,747			1,765
	Width		1,898			2,960
	Depth		1,106			1,250
Shipping Weight *2		kg	1,170	1,240	1,310	1,960
Piping Connections for Condenser	Inlet	Rc	With ϕ 78 Inner Diameter Companion Flange			4
	Outlet					4
Piping Connections for Water Cooler	Inlet	R	3	3	3	With ϕ 142 Inner Diameter Companion Flange
	Outlet		3	3	3	

Model	Standard		RCUG300WHYZ	RCUG340WHYZ	RCUG380WHYZ	RCUG410WHYZ
	Liquid Crystal Display		RCUG300WHYZ-E	RCUG340WHYZ-E	RCUG380WHYZ-E	RCUG410WHYZ-E
Power Source			Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz			
Nominal Cooling Capacity		kW	952	1,061	1,170	1,296
		USRT	270.8	301.8	332.8	368.6
		kcal/h	818,720	912,460	1,006,200	1,114,560
Condenser Water Flow Rate (No.1/No.2/No.3)		m^3/h	2 x 99.2	121.8/99.2	2 x 121.8	99.1/99.1/71.7
Chilled Water Flow Rate (No.1/No.2/No.3)		m^3/h	2 x 81.9	100.6/81.9	2 x 100.6	81.8/81.8/59.2
Capacity Control			Continuous Capacity Control			
		%	100～15, (7.5)*1, 0			100～15, (5)*1, 0
Outer Dimensions	Height	mm	1,879			1,879
	Width		2,622			3,983
	Depth		1,922			1,922
Net Weigh		kg	5,716	5,846	5,976	8,442
Refrigerant	Type		R407C			
	Flow Control		Electronic Expansion Valve			
	Number of Circuits		2			3
Compressor	Type		Semi-Hermetic Screw Type			
	Model (No.1/No.2/No.3)		130/130ASCCW-Z	170/130ASCCW-Z	170/170ASCCW-Z	130/130/100 ASCCW-Z
	Quantity		2			3
Condenser			Shell-and-Tube Type			
Water Cooler			Shell-and-Tube, Dry Expansion Valve			
Safety Devices			Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve			
Shipping Dimensions	Height	mm	2 x 2,150			3 x 2,150
	Width		2,247			2,247
	Depth		2 x 1,464			3 x 1,464
Shipping Weight *2		kg	6,040	6,170	6,300	8,928
Piping Connections for Condenser	Inlet	Rc	2 x With ϕ 116 Inner Diameter Companion Flange			3 x With ϕ 116 Inner Diameter Companion Flange
	Outlet					
Piping Connections for Water Cooler	Inlet	R	2 x With ϕ 142 Inner Diameter Companion Flange			3 x With ϕ 142 Inner Diameter Companion Flange
	Outlet					

R407C

	RCUG100WHYZ RCUG100WHYZ-E	RCUG120WHYZ RCUG120WHYZ-E	RCUG150WHYZ RCUG150WHYZ-E	RCUG180WHYZ RCUG180WHYZ-E	RCUG220WHYZ RCUG220WHYZ-E	RCUG260WHYZ RCUG260WHYZ-E
	Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz					
	323	392	485	589	688	820
	91.9	111.5	137.9	167.5	195.7	233.2
	277,780	337,120	417,100	506,540	591,680	705,200
	68.1	82.6	102.3	124.1	2 x 71.7	99.2/71.7
	55.5	67.4	83.4	101.3	2 x 59.2	81.9/59.2
	Continuous Capacity Control					
	100～15, (7.5)*1, 0		100～15, (5)*1, 0		100～15, (7.5)*1, 0	
	1,495		1,685		1,810	1,879
	2,759		3,179		2,622	2,622
	1,070		1,220		1,922	1,922
	1,980	2,070	3,010	3,220	5,452	5,584
	R407C					
	Electronic Expansion Valve					
	2		3		2	
	Semi-Hermetic Screw Type					
	50ASCCW-Z	60ASCCW-Z	50ASCCW-Z	60ASCCW-Z	100ASCCW-Z	130/100ASCCW-Z
	2		3		2	
	Shell-and-Tube Type					
	Shell-and-Tube, Dry Expansion Valve					
	Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve					
	1,765		1,998		2 x 2,150	
	2,960		3,320		2,247	
	1,250		1,358		2 x 1,464	
	2,140	2,230	3,220	3,430	5,776	5,908
	4	4	With ϕ 142 Inner Diameter Companion Flange		2 x With ϕ 116 Inner Diameter Companion Flange	
	4	4				
	With ϕ 142 Inner Diameter Companion Flange				2 x With ϕ 142 Inner Diameter Companion Flange	

	RCUG450WHYZ RCUG450WHYZ-E	RCUG490WHYZ RCUG490WHYZ-E	RCUG530WHYZ RCUG530WHYZ-E	RCUG570WHYZ RCUG570WHYZ-E
	Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz			
	1,428	1,537	1,646	1,755
	406.1	437.1	468.1	499.1
	1,228,080	1,321,820	1,415,560	1,509,300
	3 x 99.1	121.8/99.1/99.1	121.8/121.8/99.1	3 x 121.8
	3 x 81.8	100.6/81.8/81.8	100.6/100.6/81.8	3 x 100.6
	Continuous Capacity Control			
	100～15, (5)*1, 0			
	1,879			
	3,983			
	1,922			
	8,574	8,704	8,834	8,964
	R407C			
	Electronic Expansion Valve			
	3			
	Semi-Hermetic Screw Type			
	130/130/130 ASCCW-Z	170/130/130 ASCCW-Z	170/170/130 ASCCW-Z	170/170/170 ASCCW-Z
	3			
	Shell-and-Tube Type			
	Shell-and-Tube, Dry Expansion Valve			
	Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve			
	3 x 2,150			
	2,247			
	3 x 1,464			
	9,060	9,190	9,320	9,450
	3 x With ϕ 116 Inner Diameter Companion Flange			
	3 x With ϕ 142 Inner Diameter Companion Flange			

NOTES:

1. The nominal cooling capacities are based on the following conditions.
   Chilled Water Inlet / Outlet Temperature:
   12˚C / 7˚C
   Condenser Water Inlet / Outlet Temperature:
   30˚C / 35˚C

2. Working Range
   Condenser Water Outlet Temperature:
   22˚C to 37˚C
   Chilled Water Outlet Temperature:
   5˚C to 20˚C

3. ( ) marked with *1 is available by selection switch.

4. The units greater than 220WHYZ including 220WHYZ consist of two modules or more and are separately shipped(*2).

5. Communication adapter connecting the unit to BMS (Building Management System) is an optional accessory, please contact with HITACHI or HITACHI distributor if required.

4. The unit with liquid crystal display differs from the unit with segment code display in electric box, however, both have the same outer dimensions.

R22 General Data

Model	Standard	RCU40WHYZ	RCU50WHYZ	RCU60WHYZ	RCU80WHYZ
	Liquid Crystal Display	RCU40WHYZ-E	RCU50WHYZ-E	RCU60WHYZ-E	RCU80WHYZ-E
Power Source		Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz			
Nominal Cooling Capacity	kW	140	172	213	279
	USRT	39.7	48.9	60.4	79.4
	kcal/h	119,970	147,920	182,750	239,940
Condenser Water Flow Rate (No.1/No.2/No.3)	m^3/h	28.6	48.9	43.6	57.3
Chilled Water Flow Rate (No.1/No.2/No.3)	m^3/h	24.0	35.4	36.5	48.0
Capacity Control		Continuous Capacity Control			
	%	100～15, 0			100～15, (7.5)*1, 0
Outer Dimensions	Height	1,506			1,495
	Width	1,764			2,759
	Depth	910			1,070
	mm				
Net Weight	kg	1,072	1,142	1,212	1,800
Refrigerant	Type	R22			
	Flow Control	Electronic Expansion Valve			
	Number of Circuits	1			2
Compressor	Type	Semi-Hermetic Screw Type			
	Model (No.1/No.2/No.3)	40ASCCW-Z	50ASCCW-Z	60ASCCW-Z	40ASCCW-Z
	Quantity	1			2
Condenser		Shell-and-Tube Type			
Water Cooler		Shell-and-Tube, Dry Expansion Valve			
Safety Devices		Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve			
Shipping Dimensions	Height	1,747			1,765
	Width	1,898			2,960
	Depth	1,106			1,250
	mm				
Shipping Weight *2	kg	1,170	1,240	1,310	1,960
Piping Connections for Condenser	Inlet	With ϕ 78 Inner Diameter Companion Flange			4
	Outlet				4
	Rc				
Piping Connections for Water Cooler	Inlet	3	3	3	With ϕ 142 Inner Diameter Companion Flange
	Outlet	3	3	3	
	R				

Model	Standard	RCU300WHYZ	RCU340WHYZ	RCU380WHYZ	RCU410WHYZ
	Liquid Crystal Display	RCU300WHYZ-E	RCU340WHYZ-E	RCU380WHYZ-E	RCU410WHYZ-E
Power Source		Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz			
Nominal Cooling Capacity	kW	971	1,094	1,217	1,328
	USRT	276.1	311.1	346.0	377.7
	kcal/h	835,060	940,840	1,046,620	1,142,080
Condenser Water Flow Rate (No.1/No.2/No.3)	m^3/h	2 x 99.6	124.8/99.6	2 x 124.8	99.6/99.6/73.1
Chilled Water Flow Rate (No.1/No.2/No.3)	m^3/h	2 x 83.5	104.6/83.5	2 x 104.6	83.5/83.5/61.3
Capacity Control		Continuous Capacity Control			
	%	100～15, (7.5)*1, 0			100～15, (5)*1, 0
Outer Dimensions	Height	1,879			1,879
	Width	2,622			3,983
	Depth	1,922			1,922
	mm				
Net Weigh	kg	5,716	5,846	5,976	8,442
Refrigerant	Type	R22			
	Flow Control	Electronic Expansion Valve			
	Number of Circuits	2			3
Compressor	Type	Semi-Hermetic Screw Type			
	Model (No.1/No.2/No.3)	130/130ASCCW-Z	170/130ASCCW-Z	170/170ASCCW-Z	130/130/100 ASCCW-Z
	Quantity	2			3
Condenser		Shell-and-Tube Type			
Water Cooler		Shell-and-Tube, Dry Expansion Valve			
Safety Devices		Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve			
Shipping Dimensions	Height	2 x 2,150			3 x 2,150
	Width	2,247			2,247
	Depth	2 x 1,464			3 x 1,464
	mm				
Shipping Weight *2	kg	6,040	6,170	6,300	8,928
Piping Connections for Condenser	Inlet	2 x With ϕ 116 Inner Diameter Companion Flange			3 x With ϕ 116 Inner Diameter Companion Flange
	Outlet				
	Rc				
Piping Connections for Water Cooler	Inlet	2 x With ϕ 142 Inner Diameter Companion Flange			3 x With ϕ 142 Inner Diameter Companion Flange
	Outlet				
	R				

R22

	RCU100WHYZ RCU100WHYZ-E	RCU120WHYZ RCU120WHYZ-E	RCU150WHYZ RCU150WHYZ-E	RCU180WHYZ RCU180WHYZ-E	RCU220WHYZ RCU220WHYZ-E	RCU260WHYZ RCU260WHYZ-E
	Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz					
	344	425	516	637	713	842
	97.8	120.9	146.8	181.2	202.8	239.5
	295,840	365,500	443,760	547,820	613,180	724,120
	70.7	87.4	106.1	130.9	2 x 73.9	99.6/73.1
	59.2	73.1	88.7	109.5	2 x 61.3	83.5/61.3
	Continuous Capacity Control					
	100～15, (7.5)*1, 0		100～15, (5)*1, 0		100～15, (7.5)*1, 0	
	1,495		1,685		1,810	1,879
	2,759		3,179		2,622	2,622
	1,070		1,220		1,922	1,922
	1,980	2,070	3,010	3,220	5,452	5,584
	R22					
	Electronic Expansion Valve					
	2		3		2	
	Semi-Hermetic Screw Type					
	50ASCCW-Z	60ASCCW-Z	50ASCCW-Z	60ASCCW-Z	100ASCCW-Z	130/100ASCCW-Z
	2		3		2	
	Shell-and-Tube Type					
	Shell-and-Tube, Dry Expansion Valve					
	Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve					
	1,765		1,998		2 x 2,150	
	2,960		3,320		2,247	
	1,250		1,358		2 x 1,464	
	2,140	2,230	3,220	3,430	5,776	5,908
	4	4	With ϕ 142 Inner Diameter Companion Flange		2 x With ϕ 116 Inner Diameter Companion Flange	
	4	4				
	With ϕ 142 Inner Diameter Companion Flange				2 x With ϕ 142 Inner Diameter Companion Flange	

	RCU450WHYZ RCU450WHYZ-E	RCU490WHYZ RCU490WHYZ-E	RCU530WHYZ RCU530WHYZ-E	RCU570WHYZ RCU570WHYZ-E
	Main (AC 3 ϕ) 380, 415V / 50Hz, Control (AC 1 ϕ) 220, 240V / 50Hz			
	1,457	1,579	1,703	1,825
	414.2	449.0	484.0	519.1
	1,253,020	1,357,940	1,464,580	1,569,500
	3 x 99.6	124.8/99.6/99.6	124.8/124.8/99.6	3 x 124.8
	3 x 83.5	104.6/83.5/83.5	104.6/104.6/83.5	3 x 104.6
	Continuous Capacity Control			
	100～15, (5)*1, 0			
	1,879			
	3,983			
	1,922			
	8,574	8,704	8,834	8,964
	R22			
	Electronic Expansion Valve			
	3			
	Semi-Hermetic Screw Type			
	130/130/130 ASCCW-Z	170/130/130 ASCCW-Z	170/170/130 ASCCW-Z	170/170/170 ASCCW-Z
	3			
	Shell-and-Tube Type			
	Shell-and-Tube, Dry Expansion Valve			
	Three-Phase Overcurrent Relay, High-Pressure Switch, Low-Pressure Switch, Oil Heater, Internal Thermostat for Compressor Motor, Fusible Plug, Freeze Protection Thermostat, Reverse Phase Protection Relay, Discharge Gas Thermostat, Operation Hour-Meter and Pressure Relief Valve			
	3 x 2,150			
	2,247			
	3 x 1,464			
	9,060	9,190	9,320	9,450
	3 x With ϕ 116 Inner Diameter Companion Flange			
	3 x With ϕ 142 Inner Diameter Companion Flange			

NOTES:

1. The nominal cooling capacities are based on the following conditions.
   Chilled Water Inlet / Outlet Temperature:
   12˚C / 7˚C
   Condenser Water Inlet / Outlet Temperature:
   30˚C / 35˚C

2. Working Range
   Condenser Water Outlet Temperature:
   22˚C to 40˚C
   Chilled Water Outlet Temperature:
   5˚C to 20˚C

3. ( ) marked with *1 is available by selection switch.

4. The units greater than 220WHYZ including 220WHYZ consist of two modules or more and are separately shipped(*2).

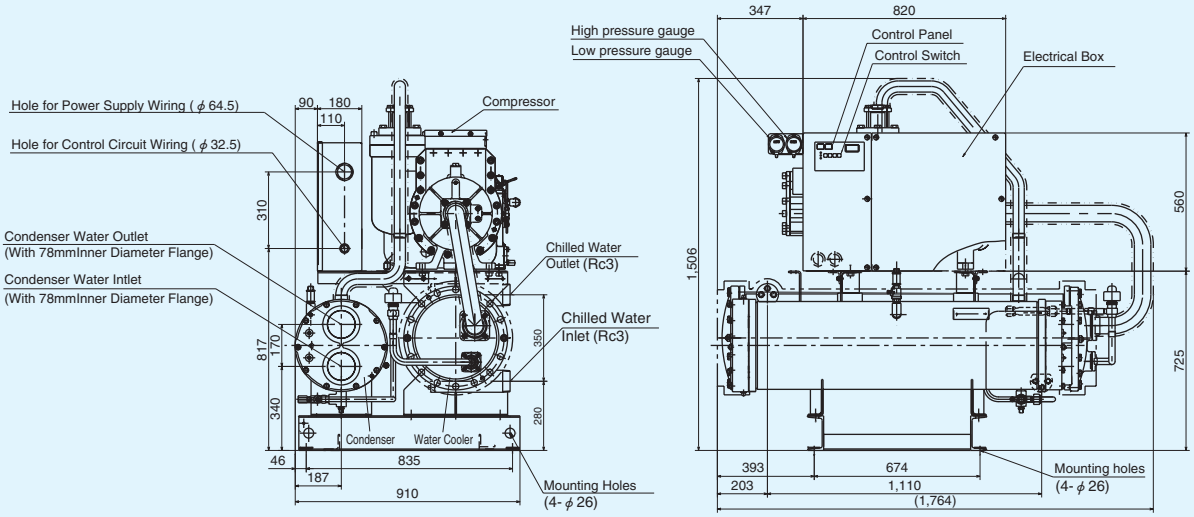
5. Communication adapter connecting the unit to BMS (Building Management System) is an optional accessory, please contact with HITACHI or HITACHI distributor if required.

4. The unit with liquid crystal display differs from the unit with segment code display in electric box, however, both have the same outer dimensions.

Dimensional Data

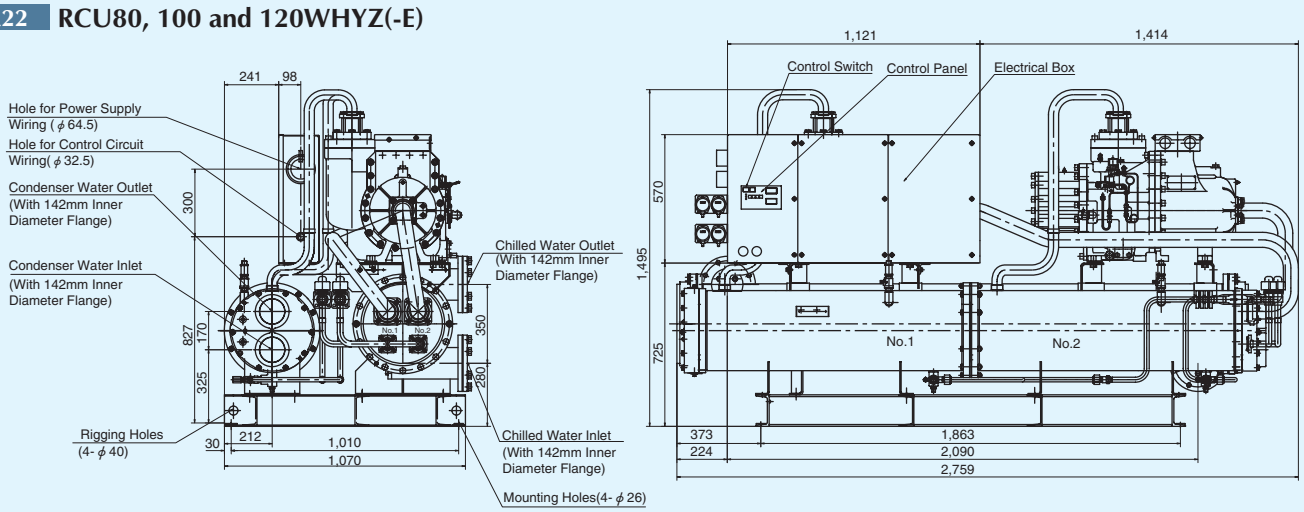
R407C RCUG40, 50 and 60WHYZ(-E)

R22 RCU40, 50 and 60WHYZ(-E)



R407C RCUG80, 100 and 120WHYZ(-E)

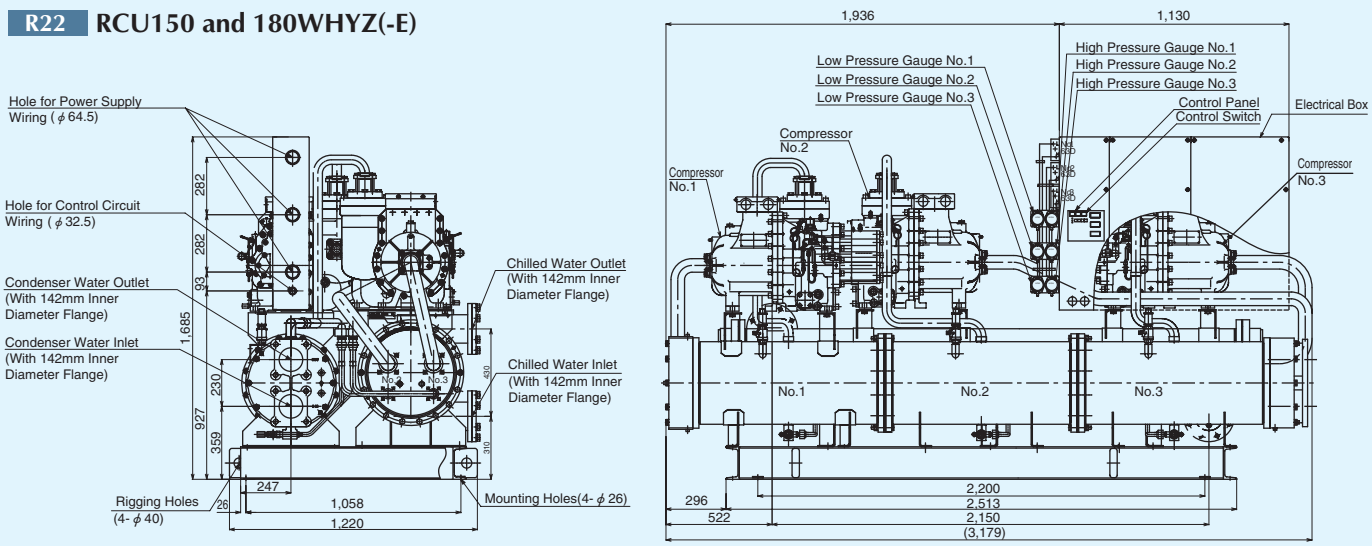
R22 RCU80, 100 and 120WHYZ(-E)



NOTE:
The unit with the refrigerant R22 differs from the unit with refrigerant R407C in the location of the discharged tube, however, both have the same outer dimensions.

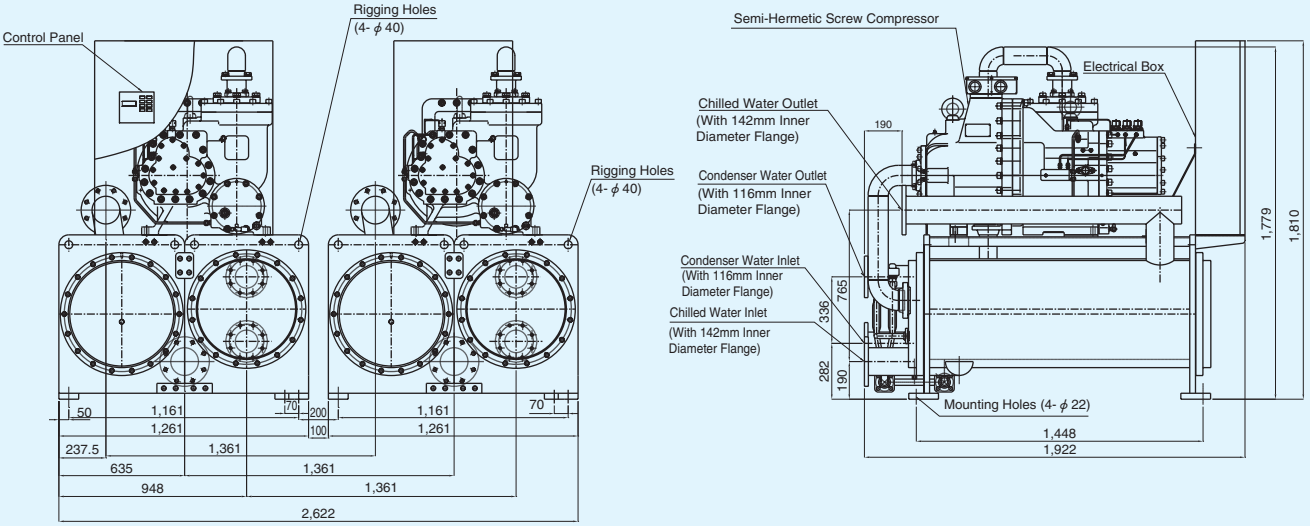
R407C RCUG150 and 180WHYZ(-E)

R22 RCU150 and 180WHYZ(-E)



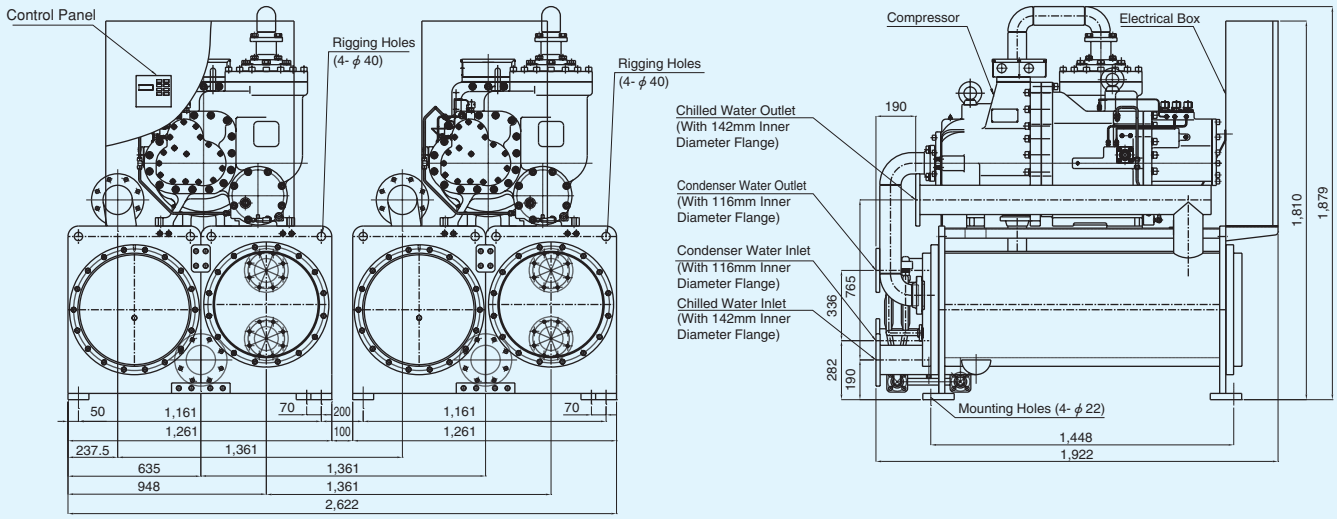
R407C RCUG220WHYZ(-E)

R22 RCU220WHYZ(-E)



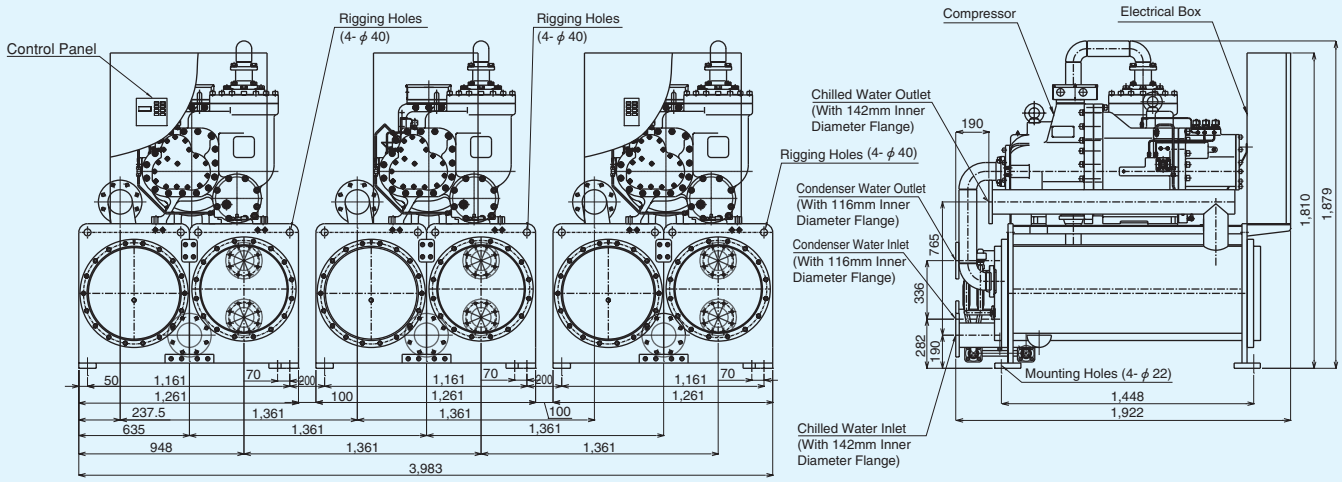
R407C RCUG260, 300, 340 and 380WHYZ(-E)

R22 RCU260, 300, 340 and 380WHYZ(-E)



R407C RCUG410, 450, 490, 530 and 570WHYZ(-E)

R22 RCU410, 450, 490, 530 and 570WHYZ(-E)



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