



EASY-TO-USE CONTROL SYSTEM

and has no chlorine, so it does not pose harm to the environment.



- Touchscreen Interface displays the operation status of the main machine (voltage, current and temperature) in real time.
- Modbus also works as a main control to facilitate central management.
- Records show operation time for easy monitoring of maintenance periods.
- Programmable Operation allows users to program the machine to turn on or off weekly, hence it increases system management efficiency.

SELF-DIAGNOSE AND INTELLIGENT OPERATION INSPECTION

- Equipped with voltage, current, temperature and pressure-protective functions.
- Prevents failures due to the timely adjustment of the main machine's operation conditions.
- Stores and displays accurate operation data for facilitating easy service and inspection.

HIGH PERFORMANCE SCREW COMPRESSOR

These advanced screw compressors, which are imported from Germany, are built to perform efficiently at high speed and use rotary motion for compression. Simple in structure yet exceptionally functional, they do not use unnecessary motions, hence they reduce noise and vibration.

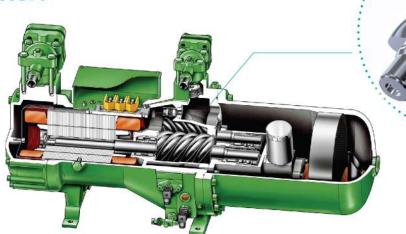
ERGONOMICALLY DESIGNED SHELL AND TUBE-TYPE HEAT EXCHANGER

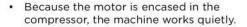
The sophisticated design of the shell and tube further increases the machine's efficiency.

CONTINUOUS CAPACITY CONTROL

The Continuous Capacity Control function allows users to automatically adjust the operation (25-100%) according to load by precisely controlling the machine's water output temperature.







- It automatically cools the air it takes in, which further increases efficiency, so it does not require frequent maintenance service.
- No oil pumps needed. Lubricant oil is fed into the machine using the difference between the high and low pressure regions of the compressor.
- Reliable operation is guaranteed because the device uses state-of-the-art components such as pump and motors, couplers for transmission and oil-pressure regulating valves.

- It has a shaft seal device that prevents leakages.
- The high-efficiency filter in the compressor, which is less adhesive, effectively reduces oil loss while filtering it.
- It is built with an advanced PTC temperature protector that protects motor coil and discharge temperatures. Furthermore, this component comprehensively monitors phase failure and reverse.
- It has an opto-electronical oil level switch that regulates the amount of oil in the compressor to ensure its continuous function.

Ideal for:



Factories

Universities/Malls



Warehouses

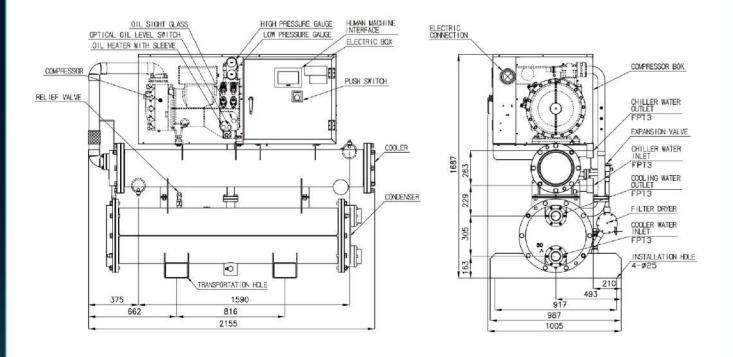


Offices

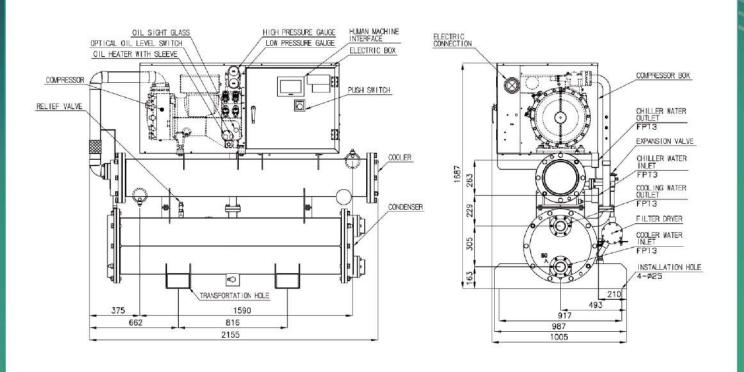


Supermarkets

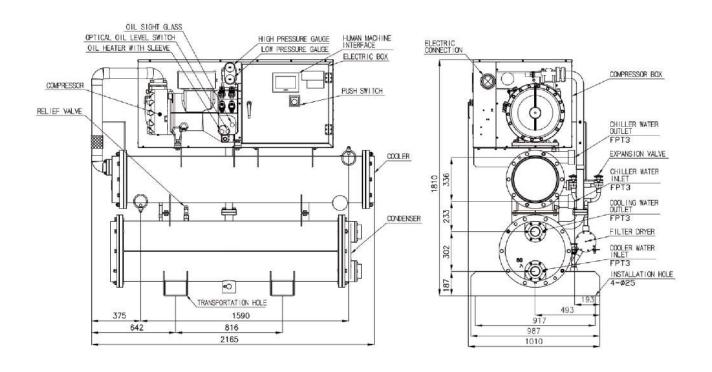
RCU-F402WS



RCU-F502WS



RCU-F602WS

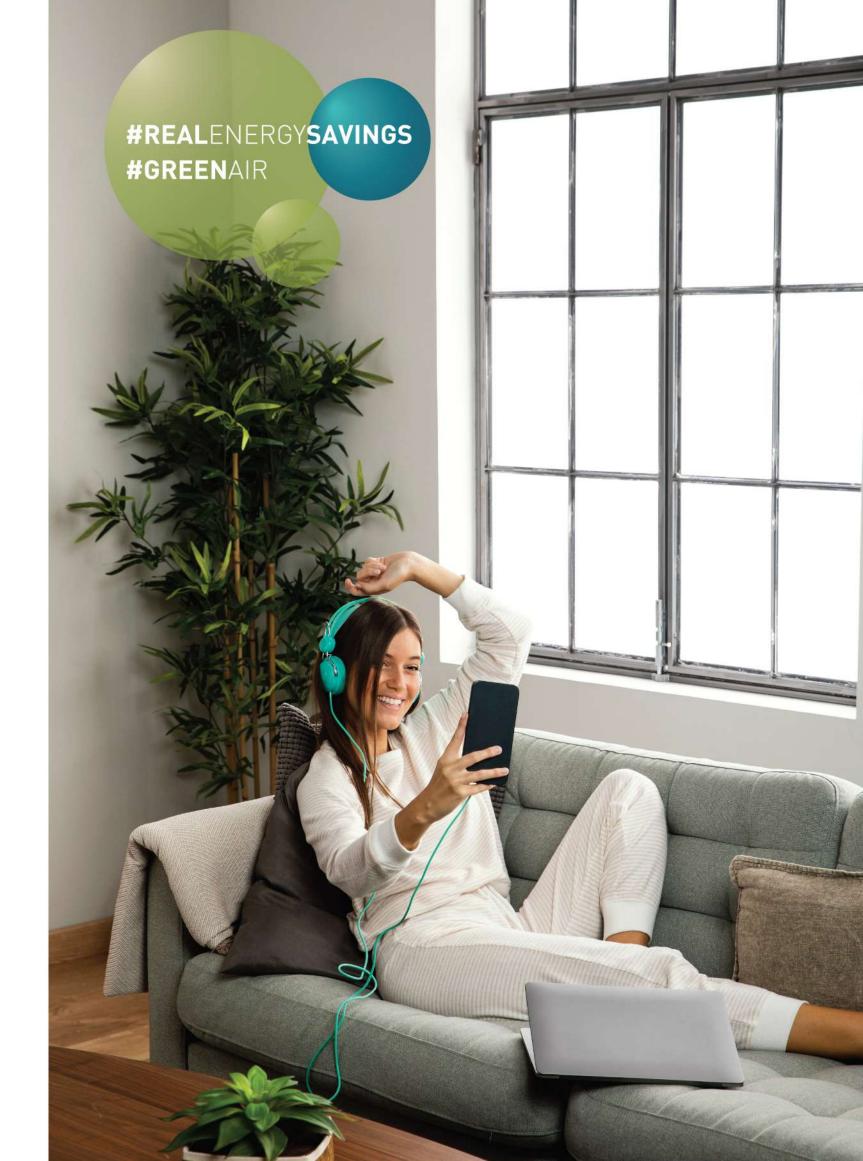


GENERAL UNIT DATA

| Model | | | | RCU-F402WS | RCU-F502WS | RCU-F602WS |
|--|--|---|--|--|--|---|
| Cooling Capacity | | | kW | 139.5 | 180.0 | 214.0 |
| COP | | | W/W | 4.93 | 4.47 | 4.52 |
| | Width | | mm | 2,040 | 2,155 | 2,165 |
| Dimension | | | mm | 973 | 1,005 | 1,010 |
| | | | mm | 1,620 | 1,687 | 1,810 |
| | Туре | | * | | Semi-hemetic Screw | |
| Compressor | Quantity | | | 1 | | |
| Crankcase Heater | | Heater | W/W | 200 | | |
| Condenser Type | | 4 | Shell and Tube | | | |
| Chiller Type | | | ÷ | Shell and Tube (Dry) | | |
| Expansion Valve Control | | | - | Thermostastic Expansion Valve | | |
| | | | 9 | R134a | | |
| Refrigerant | Quantity | | kg | 24 | 36 | 40 |
| Oil | Туре | | #. | | BSE170L | |
| | Quantity | | l | 10 | 15 | 15 |
| Starting Method | | 2 | Part Winding | | | |
| Absorber | | | 2 | Vibration Damper for Compressor | | |
| Protection Device | | | High-Low Pressure Switch/Reverse Phase Protection Relay/Oil Leve Protection/Anti-Freeze Switch/ Overload Protect/Discharge Temperature Protector/Fuses for Control Circuit/Relief Valve | | | |
| | Monitoring Devices | | e. | Human Machine Interface | | |
| Operation Device | | | ÷ | Chilled Water Outlet Temperature/Chilled Water Stop Temperature/ Setting Running Day/Inspection and Replacement Interval Reminder | | |
| | | | | 0,25-100 | | |
| | | | % | | 0,25-100 | |
| | | | % | | 0,25-100 3FPT | |
| Chiller | | | % - m3/h | 23.8 | | 36.5 |
| Chiller | | ns -low | | 23.8 3.6 | 3FPT | |
| Chiller | Connection Standard I | ns Flow Prop | m3/h | 1 | 3FPT 30.7 | 36.5 |
| | Connection Standard I Pressure D | ns Flow Prop ns | m3/h | 1 | 3FPT 30.7 6.0 | 36.5 |
| | Connection Standard I Pressure D Connection | ns Flow Prop ns Flow | m3/h mAq | 3.6 | 3FPT 30.7 6.0 3FPT | 36.5 4.8 |
| Condenser | Connection Standard I Pressure D Connection Standard I | ns Flow Prop ns Flow | m3/h mAq - m3/h mAq | 3.6 29.8 5.7 | 3FPT 30.7 6.0 3FPT 38.4 | 36.5 4.8 45.6 7.1 |
| Condenser | Connection Standard I Pressure D Connection Standard I Pressure D | ns Flow Prop Ins Flow | m3/h mAq - m3/h | 3.6 29.8 5.7 | 3FPT 30.7 6.0 3FPT 38.4 6.1 | 36.5 4.8 45.6 7.1 |
| Condenser Power Supply | Connection Standard I Pressure D Connection Standard I | ns Flow Prop Ins Flow Prop | m3/h mAq - m3/h mAq | 3.6 29.8 5.7 AC 28.3 | 3FPT 30.7 6.0 3FPT 38.4 6.1 6.1 2, 3φ, 60Hz, 220V/380V/44 40.3 | 36.5 4.8 45.6 7.1 OV |
| Condenser Power Supply Electrical | Connection Standard I Pressure D Connection Standard I Pressure D Power Input | ns Flow Prop ut 220V | m3/h mAq - m3/h mAq | 3.6 29.8 5.7 | 3FPT 30.7 6.0 3FPT 38.4 6.1 c, 3φ, 60Hz, 220V/380V/44 | 36.5 4.8 45.6 7.1 |
| Condenser Power Supply Electrical | Connection Standard I Pressure D Connection Standard I Pressure D Pressure D | ns Flow Prop Ins Flow Prop | m3/h mAq - m3/h mAq | 3.6 29.8 5.7 AC 28.3 | 3FPT 30.7 6.0 3FPT 38.4 6.1 2, 3φ, 60Hz, 220V/380V/44 40.3 124 72 | 36.5 4.8 45.6 7.1 OV 47.3 |
| Condenser Power Supply Electrical | Connection Standard I Pressure D Connection Standard I Pressure D Power Input | ns Flow Prop Prop Prop Prop Prop Prop Prop Prop | m3/h mAq - m3/h mAq | 3.6 29.8 5.7 AC 28.3 87 50 | 3FPT 30.7 6.0 3FPT 38.4 6.1 2, 3φ, 60Hz, 220V/380V/44 40.3 124 72 62 | 36.5 4.8 45.6 7.1 OV 47.3 143 83 72 |
| Condenser Power Supply Electrical | Connection Standard I Pressure D Connection Standard I Pressure D Power Input Running Current Starting | orop orop ut 220V 380V 440V | m3/h mAq m3/h mAq | 3.6 29.8 5.7 AC 28.3 87 50 | 3FPT 30.7 6.0 3FPT 38.4 6.1 2, 3φ, 60Hz, 220V/380V/44 40.3 124 72 | 36.5 4.8 45.6 7.1 0V 47.3 143 83 |
| Condenser Power Supply Electrical | Connection Standard I Pressure D Connection Standard I Pressure D Pressure D Running Current | ons Flow Prop ut 220V 380V 440V 220V | m3/h mAq m3/h mAq | 3.6 29.8 5.7 AC 28.3 87 50 44 465 | 3FPT 30.7 6.0 3FPT 38.4 6.1 C, 3φ, 60Hz, 220V/380V/44 40.3 124 72 62 633 | 36.5 4.8 45.6 7.1 0V 47.3 143 83 72 730 |
| Chiller Condenser Power Supply Electrical Data | Connection Standard I Pressure D Connection Standard I Pressure D Power Input Running Current Starting | rop trop 380V 440V 220V 380V | m3/h mAq m3/h mAq | 3.6 29.8 5.7 AC 28.3 87 50 44 465 346 | 3FPT 30.7 6.0 3FPT 38.4 6.1 2, 3φ, 60Hz, 220V/380V/44 40.3 124 72 62 633 354 | 36.5 4.8 45.6 7.1 OV 47.3 143 83 72 730 510 |

Notes:

- 1. Cooling capacities and electrical properties are based on CNS12575 (water chilling packages using the vapor compression cycle).
- 2. Fouling factor: 0.000044m2°C/W •
- 3. Operating range : Chilled Water Outlet Maximum 15°C/Minimum 5°C ; Cooling Water Outlet Maximum 38°C/Minimum 21°C
- 4. The values of the chiller and condenser are for the imperial unit.





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 TEL.: (082) 222-2200 FAX: (082) 222-3982

Johnson ()(() Controls

