Water Cooled Scroll Chiller

80kW~160kW
22.9Ton~45.7Ton

Application areas

- Industry process, precision, traditional manufacturing, food processing, government project, pharmaceutical.

Why this choice?

- High efficiency scroll compressor, shell and tube type and environment friendly R410a Refrigerant.
- Multi units parallel technology, more compressors parallel design to save more power, heat recovery function.
- Micro computer control, each modular unit running independently. Integrated control is an optional.

Characteristics

The master module can work independently or together with up to 7 slave modules, flexible design, stable performance, easy maintenance.

Reusable: using solar energy stored in earth as cooling & heating source.

Panels and frame are made from galvanized steel protected with polyester powder painting to ensure total resistance to atmospheric agents.

3-phase scroll type compressor, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.

Shall and tube type evaporator, factory insulated with flexible close cell material.
Shall and tube dry expansion type condenser, factory insulated with flexible close cell material.
The refrigerant circuit is complete with filter drier, direct expansion valve, high and low pressure switch.

Acting as multi-function unit such as cooling, heating, with heat recovery function producing hot water for domestic use.
LCD display as standard
Automatic operation dramatically reducing maintenance cost thanks to reliable microprocessor system.
Wide application as hotel, apartment, villa, factory, shopping center, office building, school, etc.

Electric panel

consists of:
Compressor breaker
Compressor contactor
Phase sequence relay
Control circuit breaker
Microprocessor with function display

Optional

Desuperheater as optional
Electronic controller with BMS system.

Technical Data

Model			WW80	WW120	WW160
Water cooled conditions	Cooling capacity	kW	80	120	160
		Ton	22.9	34.2	45.7
	Cooling power input(kW)		15.5	23.5	31.0
Compressor	Type		Danfoss/Copeland scroll compressor		
	Power input		380V/3N~50Hz		
	Qty		2	3	4
User side heat exchanger	Type		Shell and tube heat exchanger		
	Water resistance(kpa)		40-60		
	Fouling factor($m^2 \cdot °C/kw$)		0.086		
	Pipe size (mm)		DN65		DN80
	Connection type		Flange		
	Water flow rate(m^3/h)		13.8	20.5	27.5
Source side heat exchanger	Type		Shell and tube heat exchanger		
	Water resistance(kpa)		40-60		
	Fouling factor($m^2 \cdot °C/kw$)		0.086		
	Pipe size (mm)		DN65		DN80
	Connection type		Flange		
	Water flow rate(m^3/h)		16.5	24.5	32.8
Dimension	Length(mm)		2110	2110	2530
	Width(mm)		620	620	650
	Height(mm)		1365	1365	1410
Noise level≤dB(A)			67	67	67
Unit weight（kg）			560	800	1050

Note: 1. Cooling condition: User side water inlet/outlet 12°C/7°C, Source side water inlet/outlet 30°C/35°C.
2. Power supply: 3P-380V-50Hz.