



# Water Source Scroll Chiller & Heat pump

## FEATURES

### HERMETIC COMPRESSOR

The units use high efficiency, hermetically sealed, compressors, oil return lubrication and rubber vibration damper. The thermal overload cut-out, phase sequence relay and crankcase heater are integrated as the security protection to enhance reliability and performance.

### EVAPORATOR

Evaporator built with high efficiency shell and tube type heat exchanger or plate heat exchanger, factory insulated with flexible close cell material.

### CONDENSER

Evaporator built with high efficiency shell and tube type heat exchanger or plate heat exchanger, factory insulated with flexible close cell material.

### HYDRAULIC CIRCUIT

Hydraulic circuit built with galvanized pipe, complete with water discharge connection for tube in tube heat exchanger and flange type hydraulic connectors in two directions easy for connections from both sides of the units.

### ELECTRIC PANEL

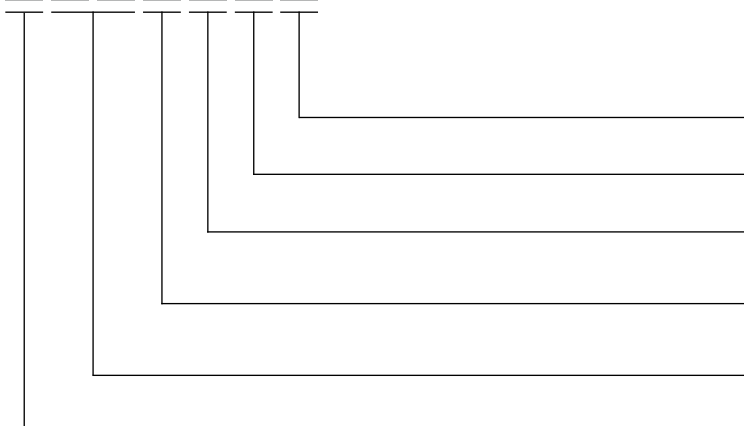
Electric panel consist of: Compressor contactor, fan motor contactor, compressor protection breaker, fan protection breaker, phase sequence relay and microprocessor with function display (display only for master/packaged unit) Automatic operation dramatically reducing maintenance cost thanks to reliable microprocessor system.

### OPTIONAL

- Flow switch;
- Rubber anti-vibration mounting..
- Compressor soft connection
- BMS
- Heat recovery
- Modular working

## NOMENCLATURE

**H S W H C 10 W**



- W: Scroll compressor
- L: Screw compressor
- Model(usRT)
- Refrigerant Type
- : R22; A: R410a; B: R134a; C: R407c
- C: Cooling Only
- H: Heat Pump
- CA: Air to water unit
- SW: Water to water unit
- HYC Product

## SPECIFICATION

### R410a

Model		08	09	10	15	18	22	32	43	86
Cooling capacity	kW	25.8	31.9	37.7	51.5	63.8	75.3	112.9	150.6	301.2
Cooling power input	kW	4.5	5.4	6.5	9.1	10.8	13.1	19.5	26.1	52.1
Heating capacity	kW	29.7	36.8	43.6	59.3	73.6	87.1	130.7	174.3	348.6
Heating power input	kW	6.7	8.3	9.8	13.5	16.6	19.7	29.6	39.5	78.9
Compressor	/									
Type	/	Hermetic scroll compressor								
Qty	/	2	2	2	2	2	2	2	2	4
Refrigerant type	/	R410a								
Power supply	/	380-415V/3PH/50HZ								
Evaporator	/									
Type	/	Shell and tube heat exchanger								
Pressure drop	kPa	≤90								
Water pipe size	DN	40	40	40	50	50	50	65	65	65*2
Water flow	m <sup>3</sup> /h	4.4	5.5	6.5	8.9	11.0	13.0	19.4	25.9	51.8
Condensor	/									
Type	/	Shell and tube heat exchanger								
Pressure drop	kPa	≤90								
Water pipe size	DN	40	40	40	50	50	50	65	65	65*2
Water flow	m <sup>3</sup> /h	5.2	6.4	7.6	10.4	12.8	15.2	22.8	30.4	60.8
Dimension	/									
Length	mm	1300	1300	1300	1850	1850	1850	2250	2480	2480
Width	mm	480	480	480	480	480	480	520	520	1100
Height	mm	1280	1280	1280	1280	1280	1280	1560	1560	1560
Weight	kg	180	270	300	350	340	370	660	860	1050
Noise level		62	63	64	66	68	72	76	76	76

The performance values refer to the following conditions:

- Cooling: source side water inlet/outlet temperature 18°C/29°C, user side water inlet/outlet temperature 12°C/7°C.
- Heating: Source side water inlet/outlet temperature 15°C/7°C, user side water inlet/outlet temperature 40°C/45°C.
- HYC reserve the right to make changes for above parameters without prior notice.