



Air Cooled Modular Chiller & Heat Pump

FEATURES

STRUCTURE

The master module can work independently or together with up to 16 modules.

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.

AXIAL FAN

External rotor type axial fans, equipped with three phase direct drive motors, low noise 8 poles, protection level IP55, provided with a protective outlet grille.

EVAPORATOR

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

CONDENSER

Condenser built with seamless internal screw thread copper tubes mechanically expanded into blue wave hydrophilic aluminum fins.

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.

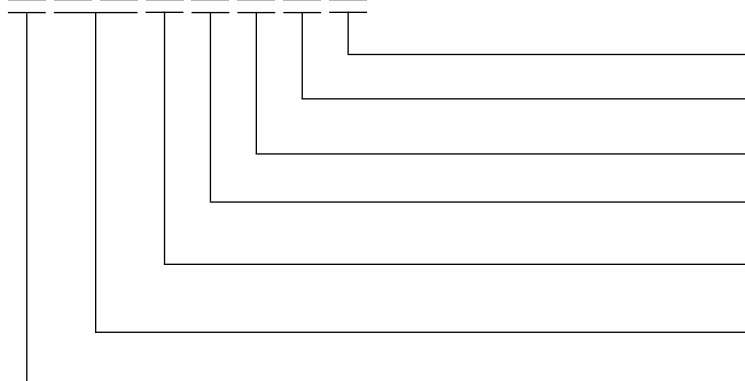
OPTIONAL

- Flow switch
- Rubber anti-vibration mounting
- Compressor soft connection
- BMS
- Stainless steel covering
- Heat recovery
- Remote condenser
- Free cooling



NOMENCLATURE

H C A C A 20 W M



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

SPECIFICATION

R410a

Model		20	40	45	75
Power supply	/	380~415V/3PH/50HZ			
Cooling					
Cooling capacity	kW	65	130	150	260
Cooling power input	kW	21.1	42.1	44	87.7
Heating					
Heating capacity	kW	69	140	160	280
Heating power input	kW	22.5	45.7	48	89.7
Compressor					
Quantity	/	1	2	2	4
Refrigerant circuit	/	1	2	2	4
Type	/	Hermetic scroll compressor			
Condensor					
Air flow	m ³ /h	12500*2	23800*2	23800*2	23800*4
Axial fan qty	/	2	2	2	4
Evaporator					
Type	/	Shell and tube heat exchanger			
Water flow	m ³ /h	11.2	22.4	25.8	44.8
Water pressure drop	kPa	60	60	60	60
Water pipe	mm	DN50	DN65	DN65	DN100
Noise level	dB(A)	60	78	80	80
Dimension					
Length	mm	2190	2300	2300	2400
Width	mm	860	1200	1200	2200
Height	mm	1890	2317	2317	2317
Net weight	kg	605	925	1225	1910

The performance values refer to the following conditions:

- Cooling: ambient air temperature 35°C; evaporator water in/out temperature 12/7°C.
- Heating: ambient air temperature DB 7°C, WB 6°C; condenser water in/out temperature 40/45°C.
- HYC reserve the right to make changes for above parameters without prior notice.