



Chiller



Modular Air-cooled Scroll Chiller(B Series)

R22



65.0/80.0kW
19.0/23.0USRT



130.0kW
37.0USRT

▶ It's a kind of air cooled unit (heat pump) with modular combination and widely used in new or reconstructed civil or industrial buildings.



- ◇ Modular operating, up to 8 units (no matter what capacity) can be integrated, to achieve a maximum capacity of 1040kW output system.
- ◇ Flexible main module patent, any unit can be as main module just by connected with wired controller.
- ◇ High efficient heat operation even in low temperature thanks to real time intelligent defrost mode, COP is improved with 13.6% upon that at traditional timed defrost mode.
- ◇ Advanced error self diagnosis
- ◇ Cool operating range up to 48° CDB and heating down to -15° C ambient.
- ◇ Completed protection thanks to advanced microcomputer control system.
- ◇ High reliability and efficiency thanks to hermetically sealed scroll compressor.
- ◇ Two circuits.
- ◇ Reliable control without electromagnetic interference thanks to the TXV in use.
- ◇ Dryer filter, high and low pressure switch.
- ◇ Water flow switch kit.
- ◇ Wired LCD Controller(optional)



Modular structure



Intelligent defrosting



Diagnosis displaying



Multi circuits



Wired controller

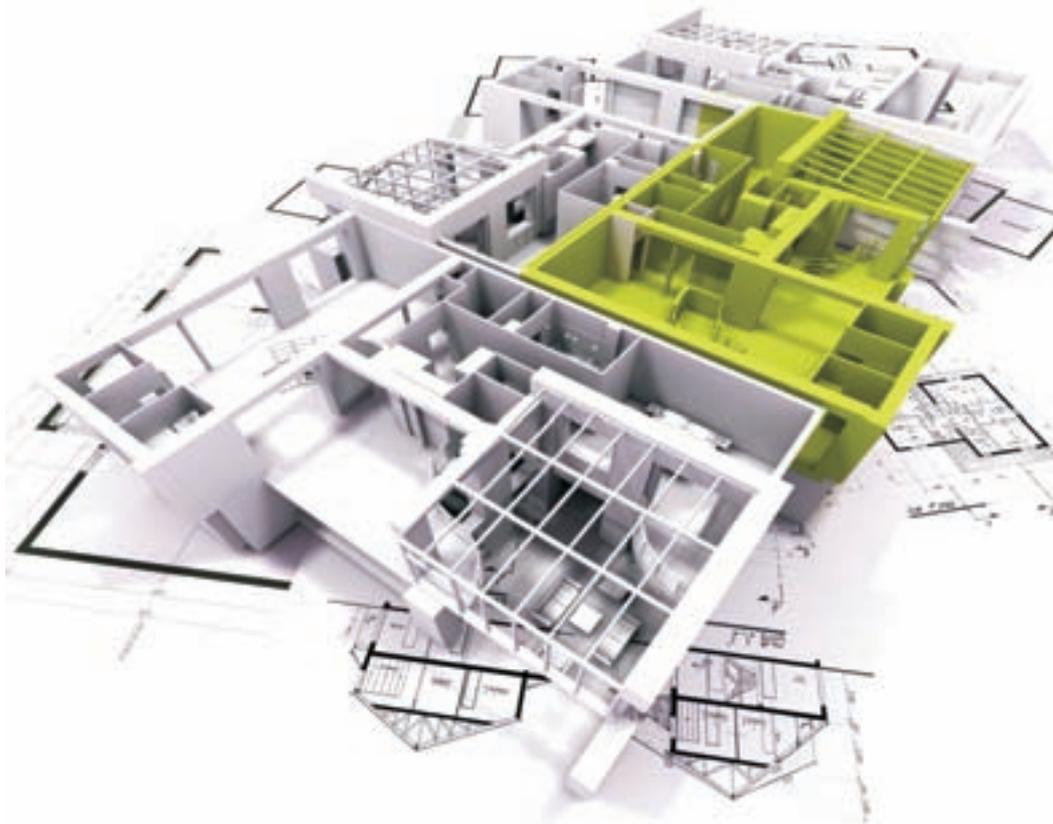
Item	Water Side		Air Side	
	Water Flow[m ³ /(h.kW)]	Outlet Water Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	0.172	7	35	-
Heating	0.172	45	7	6

Item	Operating Range		
	Water Side		Air Side
	Outlet Water Temperature(°C)	Temperature Difference between Inlet&Outlet(°C)	DB Temperature(°C)
Cooling	5~15	2.5~6	18~48
Heating	40~50	2.5~6	-15~24

Model	Cooling only		LSQWF65M/B-M	LSQWF80M/B-M	LSQWF130M/B-M
	Heat pump		LSQWRF65M/B-M	LSQWRF80M/B-M	LSQWRF130M/B-M
Capacity	Cooling	kW	65	80	130
	Heating*	kW	70	85	140
	EER	W/W	3.20	3.08	3.21
	COP*	W/W	3.50	3.40	3.50
	Power supply	V-Ph-Hz	380V-3Ph-50Hz		
Power input	Cooling	kW	20.30	26	40.50
	Heating*	kW	20	25	40
Water side heat exchanger	Type		Shell and Tube Evaporator		
	Water flow volume	m ³ /h	11.20	13.72	22.28
		GPM	49.3	60.3	98.2
	Pressure drop	kPa	10	15	17.5
		ft.WG	3.3	4.9	5.7
Connection pipe	mm	DN65	DN65	DN80	
Air side heat exchanger	Fan type×Number of fans		Axial fan×2	Axial fan×2	Axial fan×4
	Total fan motor power	W	1150×2	1150×2	750×4
Dimension	Outline(W×D×H)	mm	2110×1100×2140		2410×1900×2240
	Packaged(W×D×H)	mm	2190×1180×2140		2490×1980×2240
Net weight	Cooling only	kg	1000	1100	1800
	Heat pump	kg	1050	1150	1860
Loading quantity	40'GP/40'HQ		10/10	10/10	4/4

Notice:

- 1.*for heat pump unit only
- 2.The operating weight of the unit is equal to 110% of net weight of the unit





Chiller



Modular Air-cooled Scroll Chiller(C Series)

R410A



62.5,71.5kW
17.8,20.3USRT



125,143kW
35.5,40.7USRT



It's a kind of air cooled unit (heat pump) with modular combination and widely used in new or reconstructed civil or industrial buildings.



- ◇ Main module patent optional; any unit can be set as main module via wired controller.
- ◇ High efficient heat operation even in low temperature and high humidity, with intelligent defrost mode.
- ◇ Modular operation, up to 16 units (62.5,71.5kW) 8 units (125,143kW) can be integrated
- ◇ Easy maintenance thanks for gapless modular design
- ◇ Multi compressor paralleling technology to guarantee longer usage life
- ◇ High stability and reliability.
- ◇ Quiet mode available
- ◇ Easy maintenance, thanks to unique structural design
- ◇ Saving installation space by 35% compared to conventional design
- ◇ Throttling controlled by electronic expansion valve, more accurate and rapid
- ◇ Wide ambient range ensure stable operation in extreme climate



Modular structure



Intelligent defrosting



Diagnosis displaying



Multi circuits



Wired controller



For Heat Pump UnitS Only



Item	Water side				Air side		
	Nominal Operating Condition		Operating Range		Nominal Operating Condition		Operating Range
	Inlet water Temp.(°C)	Outlet water Temp.(°C)	Outlet water Temp.(°C)	Temp. Difference between Inlet&Outlet (°C)	Outdoor Temp. (DB°C)	Outdoor Temp. (WB°C)	Outdoor Temp. (DB°C)
Cooling	12	7	5~15	2.5~8	35	/	5~46
Heating	40	45	40~50	2.5~8	7	6	-15~24



Model	Cooling only		LSQWF65MG/NaC-M	LSQWF80MG/NaC-M	LSQWF130MG/NaC-M	LSQWF160MG/NaC-M
	Heating Pump		LSQWRF65MG/NaC-M	LSQWRF80MG/NaC-M	LSQWRF130MG/NaC-M	LSQWRF160MG/NaC-M
Capacity	Cooling	kW	62.5	71.5	125	143
	Heating *	kW	70	80	140	160
EER		W/W	2.52	2.68	2.52	2.68
C.O.P.*		W/W	2.91	3.0	2.91	3.0
Power supply		V-Ph-Hz	400V-3Ph-50Hz			
Power Input	Cooling	kW	24.8	26.7	49.6	53.4
	Heating *	kW	24.1	26.7	48.1	53.3
Water side heat exchanger	Type		shell and tube evaporator			
	Water flow Volume	m ³ /h	10.8	12.24	21.6	24.48
		GPM	47.3	54.1	94.6	108.2
	Pressure drop	kPa	30	35	30	35
		ft.WG	9.8	11.5	9.8	11.5
Connection pipe	mm	DN50		DN50		
Air side heat exchanger	Fan type/Number of fans		axial fan/3		axial fan/6	
	Total fan air flow	m ³ /h	3.0×10 ⁴	3.2×10 ⁴	6.0×10 ⁴	6.4×10 ⁴
		GPM	1.8×10 ⁴	1.9×10 ⁴	3.5×10 ⁴	3.8×10 ⁴
	Total fan motor power	W	700×3	700×3	700×6	700×6
Sound Pressure Level	dB(A)	67	68	69	70	
Dimension	Outline (W×D×H)	mm	1100×2265×2214	1100×2265×2214	2200×2265×2214	2200×2265×2214
	Package (W×D×H)	mm	1180×2345×2214	1180×2345×2214	2280×2345×2214	2280×2345×2214
Net Weight	Cooling only	kg	900	1000	1780	1980
	Heating Pump	kg	950	1050	1880	2080
Loading Weight	40' GP/40' HQ		10		5	

* for heat Pump unit Only

