

LT Scroll Fixed Speed Condensing Units



Model: 5hp;
Cooling Capacity: 2.84kw~6.57kw;
Evaporating Temperature: -30°C~-15°C , R404A



Model: 6/7hp;
Cooling Capacity: 3.79kw~9.95kw;
Evaporating Temperature: -30°C~-15°C , R404A

Customer Value

- Compression condensing machine, convenient and flexible to install, no need for machine room, saving time and money
- It adopts vortex machine spray application, light weight, low vibration, low noise, without noise troubles
- PCB intelligent control, high energy efficiency ratio, and lower store operation cost
- Large amount of supercooled coil and speed regulating fan make the unit have strong adaptability to extreme environment and perform well at -20 ~ 43°C

Product Features

- Using famous brand low temperature scroll compressor with high reliability, high energy efficiency ratio and low noise
- Stepless linear regulation of fan speed (SCR), small system fluctuation, perfect match with load demand
- PCB control, cooling output with the load demand automatic adjustment, fault code at a glance, easy maintenance and fault diagnosis
- It has the functions of network connection and remote control
- The design of supercooled coil can improve energy efficiency, and make the unit perform well in the extreme condition of high ambient temperature (43°C)
- The application of low temperature liquid injection ensures the operation reliability of the unit under extreme ambient temperature, and the parameters are in stable and moderate range

* All comparisons are based on the product performances of last generation.

Application Scenarios



Catering chain
Chain restaurants with small cold storage
Room temperature: -18°C ~ -5°C



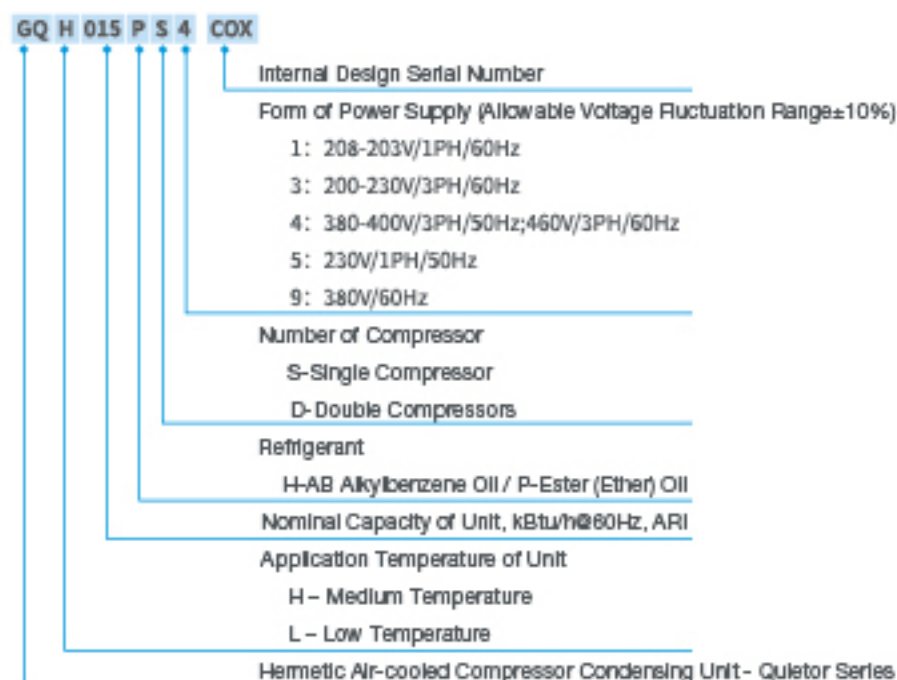
Hotel cold storage
Hotels with small cold storage
Room temperature: -18°C ~ -5°C



Standard supermarket
Remote freezer with evaporation
temperature higher than -30°C
* applicable model: AGDF

* Line pressure drop also needs to be taken into account

Naming Rule

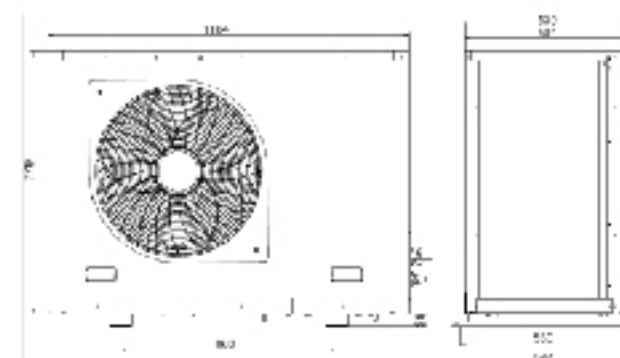


Technical Parameters

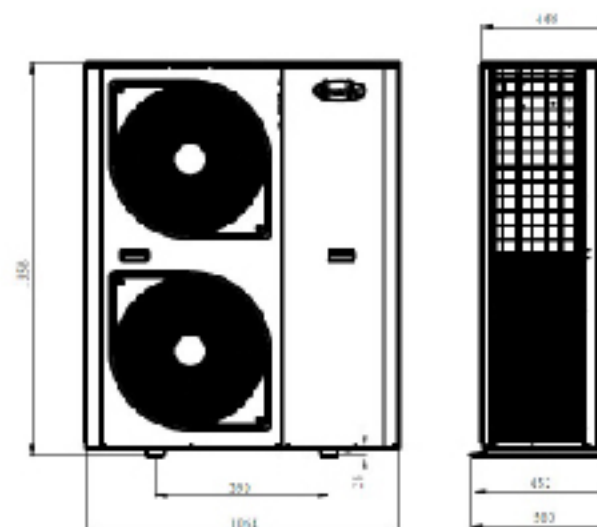
	GQH	GQL015PS4 COX	GQL018PS4 COX	GQL021PS4 COX
Refrigerant		R404A		
Casing Type		M3	M4	M4
R404A	Nominal Cooling Capacity [kW]	4.83	6.09	7.01
	Nominal Input Power [kW]	3.60	3.85	4.33
COP		1.34	1.58	1.62
Compressor	Quantity	1	1	1
	Model	ZSI015KQET	ZSI18KQET	ZSI21KQET
Crankcase Heating Belt	Nominal Power [HP]	1x5	1x6	1x7
	Quantity x Power [W]	1x65	1x75	1x75
Noise	dB(A)(2)	58	60	60
Fan Motor	Quantity x Diameter [mm]	2x 500	2x 500	2x 500
	Air Volume [m³/h]	4043	7060	7060
	Fan Nominal Current [A]	0.8	1.2	1.2
Total Current	Compressor Starting Current [A]	47	67	90.5
	Compressor Max. Continuous Current [A]	11.9	13.2	14.6
Factory Setting for Over Current Protection [A]		13	13	16
Reservoir Volume [L]		6	8	8
Lubricating Oil		RL 32-3MAF/RL 32H		
Oil Charge [L]		1.36	1.89	1.89
Connection	Gas Return [Inch]	3/4"	3/4"	3/4"
	Liquid Line [Inch]	1/2"	1/2"	1/2"
Dimension	mm	1104X504X818	1064X448X1358	
Weight	kg	110.9	140	142.3

(1) Testing conditions of nominal cooling capacity and nominal power: National standard medium temperature working conditions 8BT-23°C, ambient temperature 32°C, gas return temperature 5°C.
(2) Noise measurement standard: dB(A)/1m, different operating environment may lead to different noise values. Affected by wall sound reflection and other factors may lead to differences between measured values and nominal values at the installation field. Acoustic attenuation due to distance only exists in theory. Sound reflection and resonance may lead to different results of measurement, including total noise and frequency.

M3



M4



Variable Condition Parameters

SST: -30°C

	Ambient Temperature							
	27°C		32°C		37°C		42°C	
GQL	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
015PS4COX	4.03	2.98	3.70	3.98	3.21	3.90	2.84	4.39
018PS4COX	5.11	3.22	4.75	3.59	4.25	4.13	3.79	4.60
021PS4COX	5.84	3.68	5.27	3.96	4.68	4.35	4.28	4.89

SST: -25°C

	Ambient Temperature							
	27°C		32°C		37°C		42°C	
GQL	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
015PS4COX	4.88	3.18	4.41	4.23	3.82	4.03	3.38	4.68
018PS4COX	6.17	3.42	5.79	3.84	5.07	4.18	4.52	4.64
021PS4COX	6.87	3.88	6.51	4.23	5.82	4.58	5.25	5.03

SST: -20°C

	Ambient Temperature							
	27°C		32°C		37°C		42°C	
GQL	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
015PS4COX	5.81	3.38	5.30	4.47	4.50	4.08	3.95	4.82
018PS4COX	7.37	3.73	6.84	4.03	6.17	4.41	5.57	4.89
021PS4COX	8.10	4.12	7.76	4.47	6.82	4.85	6.37	5.30

SST: -15°C

	Ambient Temperature							
	27°C		32°C		37°C		42°C	
GQL	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
015PS4COX	6.57	3.61	6.02	4.74	5.10	4.32	4.71	5.06
018PS4COX	8.85	3.99	8.11	4.30	7.31	4.71	6.72	5.12
021PS4COX	9.95	4.45	9.08	4.74	8.10	5.18	7.80	5.64

Notes: the variable condition data is based on the national standard GB/T 21363 requirements, return temperature 5°C .