

Taurus Series

LT Fixed Speed Scroll Condensing Units



Model: 2~5HP
Evaporating Temperature: -30°C~-15°C
Refrigerant option: R404A



Model: 6~7HP
Evaporating Temperature: -30°C~-15°C
Refrigerant option: R404A



Model: 9~16HP
Evaporating Temperature: -45°C~-15°C
Refrigerant option: R404A

Customer Values

- Compression and condensation integrated machine, easy and flexible installing, no machine room needed, saving time and money
- Vortex machine spray application adopted, light, low vibration, low noise, without noise complaints
- PCB intelligent control, high energy efficiency ratio, lower store operating cost
- Condensing coils with high cooling capacity, suitable for 48°C ambient temperature applications, with -30°C as an option, to meet various customer needs
- 485 communication system, optional remote monitoring

Product Features

- Well-known low-temperature scroll compressor, highly reliable, high energy efficiency ratio, low noise
- Step less linear regulation of fan speed (SCR), little system fluctuation, perfect match with load demands
- PCB control, automatically adjusting cooling output with the load demand, identifying fault code at a glance, easy maintenance and fault diagnosis
- With network connection and remote control functions
- Use supercooled coil to improve energy efficiency, operating well in the extreme condition of high ambient temperature (43°C)
- Low-temperature liquid spray adopted, ensuring operation reliability under extreme ambient temperatures, and that the parameters are in a stable and moderate range

Application Scenarios



Medium / small cold storage

Hotel cold storage, chain restaurant, front warehouse, food cold storage with small and medium-sized low-temperature cold storage

Room temperature: -35° C ~ +5° C

* Line pressure drop also needs to be taken into account



Supermarket

Used for remote freezer with evaporating temperature > -30° C

Applicable Model: AGDF

Naming Rule

GQ	H	015	P	S	4	COX
						Internal Design Serial Number
						Form of Power Supply (Allowable Voltage Fluctuation Range±10%)
						1: 208-203V/1PH/60Hz
						3: 200-230V/3PH/60Hz
						4: 380-400V/3PH/50Hz;460V/3PH/60Hz
						5: 230V/1PH/50Hz
						9: 380V/60Hz
						Number of Compressor
						S-Single Compressor
						D-Double Compressors
						Refrigerant
						H-AB Alkylbenzene Oil / P-Ester (Ether) Oil
						Nominal Capacity of Unit, kBtu/h@60Hz, ARI
						Application Temperature of Unit
						H – Medium Temperature
						L – Low Temperature
						Hermetic Air-cooled Compressor Condensing Unit

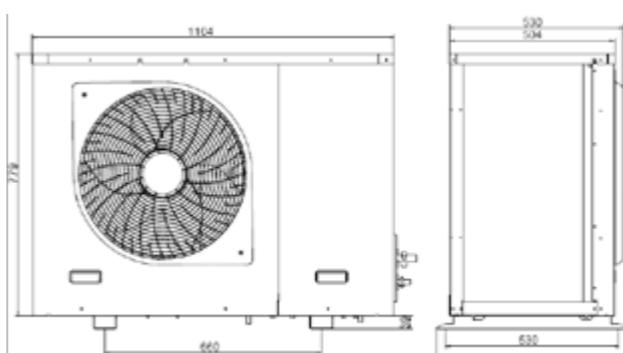
Technical Parameters

GQL	GQL015PS4 COX	GQL018PS4 COX	GQL021PS4 COX	GQL015PS4 COX	GQL018PS4 COX	GQL021PS4 COX
Refrigerant						
Casing Type	M3	M3	M3	M3	M4	M4
R404A	Nominal Cooling Capacity [kW]	2.28	2.67	3.47	4.39	6.09
	Nominal Input Power [kW]	1.69	2.04	2.47	2.88	3.85
COP		1.35	1.31	1.40	1.52	1.58
Compressor	Quantity	1	1	1	1	1
	Model	ZSI06KQET	ZSI09KQET	ZSI11KQET	ZSI14KQET	ZSI18KQET
	Nominal Power [HP]	1x2	1x3	1x4	1x5	1x6
Crankcase Heating Belt	Quantity x Power [W]	1x65	1x65	1x65	1x65	1x75
Noise	dB(A)(2)	53	53	56	56	60
Fan motor	Quantity x Diameter [mm]	1xØ500	1xØ500	1xØ500	1xØ500	2xØ500
	Air Volume [m³/h]	4043	4043	4043	4043	7060
Total Current	Fan Nominal Current [A]	0.6	0.6	0.6	0.6	1.2
	Compressor Starting Current [A]	34.8	34.8	47	47	67
	Compressor Max. Continuous Current [A]	5.7	6.7	7.5	9.2	13.2
	Factory Setting for Over Current Protection [A]	6	7	10	11	13
	Reservoir Volume [L]	6	6	6	6	8
	Lubricating Oil					RL 32-3MAF/RL 32H
	Oil Charge [L]	0.74	0.74	1.36	1.36	1.89
Connection	Gas Return [inch]	5/8"	5/8"	3/4"	3/4"	3/4"
	Liquid Line [inch]	1/2"	1/2"	1/2"	1/2"	1/2"
Dimension	mm			1104X504X818		1064×448×1358
Weight	kg	99.2	99.2	103.2	110.9	140
						142.3

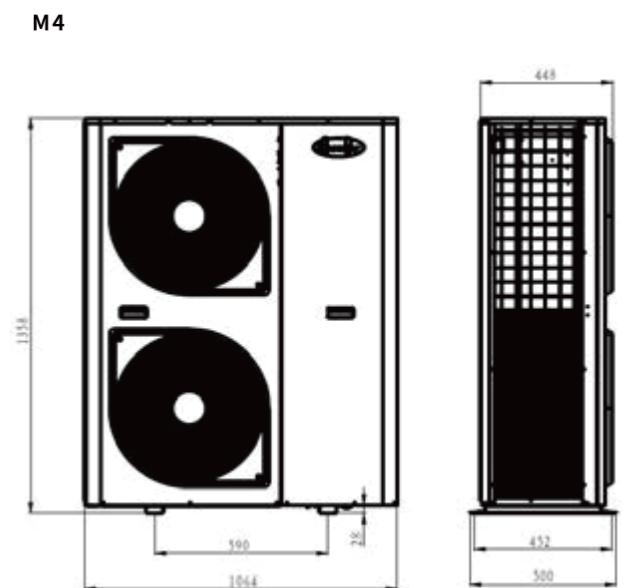
(1) Testing conditions of nominal cooling capacity and nominal power: National standard medium temperature working conditions SST -23° C, ambient temperature 32° C, gas return temperature 5° C.

(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

GQL	Ambient Temperature							
	27° C		32° C		38° C		43° C	
	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
006PS4COX	1.84	1.49	1.67	1.61	1.46	1.76	1.18	2.06
009PS4COX	2.35	1.80	1.79	1.91	1.81	2.17	1.59	2.43
011PS4COX	2.84	2.13	2.59	2.33	2.39	2.64	2.20	2.99
015PS4COX	3.83	2.50	3.51	2.79	3.06	2.99	2.73	3.48
018PS4COX	5.11	3.22	4.75	3.59	4.25	4.13	3.79	4.60
021PS4COX	5.64	3.66	5.27	3.96	4.66	4.35	4.26	4.89

SST: -25° C

GQL	Ambient Temperature							
	27° C		32° C		38° C		43° C	
	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
006PS4COX	2.24	1.53	2.10	1.67	1.87	1.75	1.46	2.08
009PS4COX	2.79	1.86	2.43	1.91	2.24	2.26	1.99	2.48
011PS4COX	3.59	2.11	3.21	2.44	2.88	2.69	2.53	3.02
015PS4COX	4.55	2.58	4.17	2.86	3.70	3.12	3.28	3.59
018PS4COX	6.17	3.42	5.79	3.84	5.07	4.18	4.52	4.64
021PS4COX	6.67	3.86	6.51	4.23	5.62	4.56	5.25	5.03

SST: -20° C

GQL	Ambient Temperature							
	27° C		32° C		38° C		43° C	
	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
006PS4COX	2.75	1.59	2.57	1.61	2.19	1.81	1.80	2.11
009PS4COX	3.41	1.94	2.97	2.07	2.77	2.35	2.42	2.57
011PS4COX	4.32	2.22	4.02	2.51	3.59	2.81	3.15	3.07
015PS4COX	5.59	2.77	5.21	3.13	4.48	3.32	4.13	3.73
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

GQL	Ambient Temperature							
	27° C		32° C		38° C		43° C	
	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)	Q (kW)	P (kW)
006PS4COX	3.37	1.63	2.99	1.75	2.55	1.85	2.24	2.15
009PS4COX	4.07	2.00	3.58	2.18	3.25	2.45	2.91	2.67
011PS4COX	5.10	2.32	4.78	2.47	4.16	2.93	3.84	3.17
015PS4COX	6.47	2.93	6.25	3.33	5.34	3.51	4.96	3.96
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	5.16	7.80	5.64

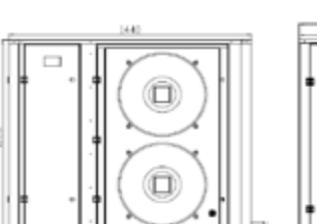
Notes: the variable condition data is based on the national standard GB/T 21363 requirements, return temperature 5°C; For LT Scroll Fixed Speed low loop temperature special CDU, the product type covers 2HP to 7HP; the product code is COL; All parameters (performance, dimensions) are the same as for conventional units, except for the applied ambient temperature range.

Technical Parameters of LT Fixed Speed CDU

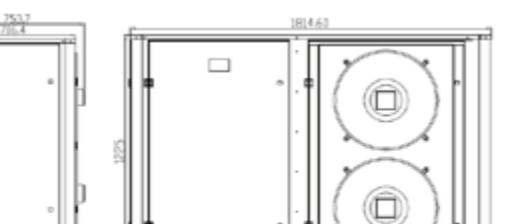
>7HP 380V/3PH/50Hz

GQL	GQL036PS4 COX	GQL050PS4 COX	GQL072PS4 COX	
HP	9	12	16	
Refrigerant	R404A			
Casing Type	M6	M6	M7	
R404A	Nominal Cooling Capacity (1) kW	10.97	15.12	20.60
	Nominal Input Power (1) kW	5.77	7.81	11.16
COP		1.90	1.94	1.85
Compressor	Quantity	1	1	2
	Model	ZFI36KQE	ZFI50KQE	ZFI36KQE
	Nominal Power HP	1x8	1x10	1x4
Crankcase Heating Belt	Quantity x Power	1x75	190	2x75
Noise	dB(A) (2)			
Fan Motor	Quantity x Diameter mm	1xØ500	1xØ500	1xØ500
	Air Volume m³/h	10540	10540	10540
Total Current	Fan Nominal Current A	2x0.7	2x0.7	2x0.7
	Compressor Starting current A	1x102	1x100	2x102
	Compressor Nominal Current A	1x16	1x25	2x16
	Factory Setting for Over Current Protection A	16	25	16x2
Reservoir Volume L	8	14	19	
Lubricating Oil		RL 32-3MAF/RL 32H		
Oil Charge L	0.74	0.74	1.36	
Connection	Gas Return inch	7/8"	1-3/8"	1-3/8"
	Liquid Line inch	5/8"	5/8"	5/8"
Dimension		1525X754X1257		1870X873X1257
Weight kg	225	249	323	

M6



M7



(1) Testing conditions of nominal cooling capacity and nominal power: National standard medium temperature working conditions SST -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.

Model Selection Table of LT Fixed Speed CDU

(>7HP) 380V/3PH/50Hz

	R404A	Ambient Temperature									
		27 °C		32 °C		38°C		43°C		48°C	
	GQL	Q(kW)	P (kW)	Q(kW)	P (kW)	Q(kW)	P (kW)	Q(kW)	P (kW)	Q(kW)	P (kW)
SST -40 °C	GQL036PS4COX	5.82	4.07	5.63	4.45	5.44	5.11	5.17	5.91	4.87	6.36
	GQL050PS4COX	8.40	5.61	8.06	6.32	7.53	6.95	7.11	8.43	6.18	9.31
	GQL072PS4COX	10.98	7.54	10.71	8.36	10.81	9.94	11.53	11.09	9.08	9.96
SST -35 °C	GQL036PS4COX	7.17	4.38	7.06	4.85	6.55	5.31	6.37	5.99	5.93	6.77
	GQL050PS4COX	9.99	5.95	9.76	6.62	9.36	7.50	7.98	8.98	7.59	9.61
	GQL072PS4COX	13.55	8.32	13.27	9.13	12.94	10.24	11.88	11.38	10.83	12.74
SST -30 °C	GQL036PS4COX	8.63	4.72	8.47	5.16	7.96	5.72	7.69	6.28	7.27	7.09
	GQL050PS4COX	12.00	6.35	11.57	7.11	10.38	9.05	9.71	9.47	9.47	10.00
	GQL072PS4COX	16.49	9.15	16.22	9.89	15.10	10.81	15.11	11.94	13.67	13.69
SST -25 °C	GQL036PS4COX	10.34	5.07	10.17	5.58	9.98	6.21	9.11	6.74	8.67	7.51
	GQL050PS4COX	14.21	6.93	14.04	7.59	11.91	9.83	11.96	9.91	11.32	10.46
	GQL072PS4COX	19.85	9.99	19.41	10.60	18.89	11.33	17.34	12.66	17.37	14.12
SST -20 °C	GQL036PS4COX	12.62	5.43	12.45	5.88	11.79	6.59	10.62	7.24	10.34	8.01
	GQL050PS4COX	16.89	7.61	16.83	8.15	14.20	10.45	14.20	10.19	13.50	11.16
	GQL072PS4COX	23.70	10.58	23.44	11.21	20.99	12.83	21.56	14.15	19.27	15.23
SST -15 °C	GQL036PS4COX	14.53	5.73	13.96	6.28	13.70	7.02	12.83	7.85	/	/
	GQL050PS4COX	19.52	8.27	19.28	9.05	18.03	9.91	16.61	10.83	15.61	11.77
	GQL072PS4COX	27.35	10.73	26.77	12.37	25.68	13.24	28.97	14.43	/	/
SST -10 °C	GQL036PS4COX	17.37	6.08	16.21	6.64	15.53	7.60	14.90	8.74	/	/
	GQL050PS4COX	23.14	9.10	21.84	9.60	20.70	10.34	19.04	11.56	18.35	12.46
	GQL072PS4COX	33.97	10.88	31.98	13.77	30.92	14.75	28.75	16.02	/	/

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