

# Fixed Speed

## Condensing Units



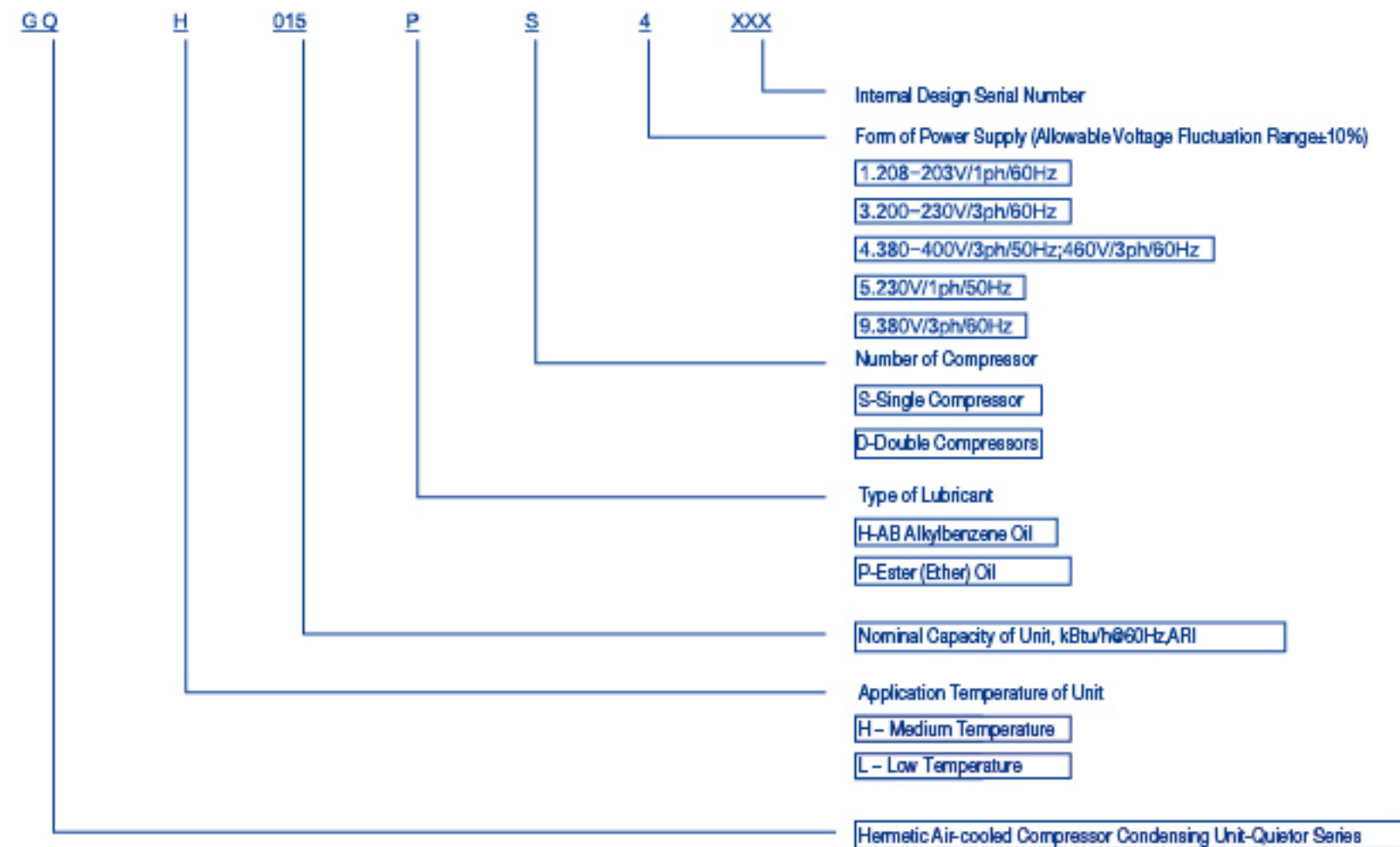
### Customer Value

- R22/R404A refrigerant provided
- Numerous model for medium temperature and low temperature application, with capacity up to 15HP
- High efficiency, energy saving and low noise level
- Stable operation under high ambient temperature with up to 43°C
- Stable oil return and reliable running (oil separator is standard specification for LT units)

### Product Features

- Advanced microprocessor-based control system and automatic adjustment according to load change
- Two-speed fan motor with automatic switch according to ambient temperature and terminal unit cooling load
- Large coil design with strong heat exchange capacity suitable for extreme working condition
- Hermetic and sound insulated cabinet adopted for a quiet running

### Naming Rule of Fixed Speed Condensing Unit



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

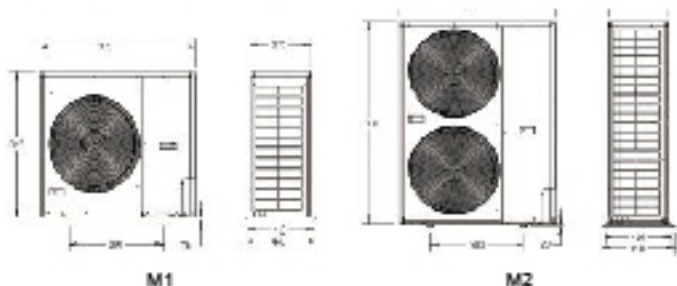
Medium Temperature Working Conditions (<7HP) 230V/1PH/50Hz

GQH		015PS	021PS	026PS	030PS	
Refrigerant		R404A				
Casing Type		M1	M1	M1	M1	
Nominal Cooling Capacity		(1) kW	4.15	5.57	6.28	8.06
Nominal Input Power		(1) kW	1.58	2.24	2.64	3.37
Compressor	Quantity	1	1	1	1	
	Model	MLZ015	MLZ021	MLZ026	MLZ030	
Crankcase Heating Belt	Quantity x Power	W	1x65	1x65	1x65	1x75
	HP	1x2	1x3	1x3.5	1x4	
Noise	dB (A) (2)	60	60	60	60	
	Quantity x Diameter	mm	1x0500	1x0500	1x0500	1x0500
Fan Motor	Air Volume	m³/h	4445	4445	4445	4445
	Fan Nominal Current	A	0.71	0.71	0.71	0.71
Total Current	Compressor Starting Current	A	30	45	45	60
	Compressor Max. Continuous Current	A	7	9.5	11	13
	Reservoir Volume	L	6	6	6	6
Lubricating Oil	PVE oil Ester oil 320HV					
Oil Charge	L	1.1	1.1	1.6	1.6	
	Gas Return	Inch	5/8"	5/8"	5/8"	5/8"
Connection	Liquid Line	Inch	1/2"	1/2"	1/2"	1/2"
	mm	Please see the pictures attached				
Dimension	mm	Please see the pictures attached				
Weight	kg	68	68	68	74	

- (1) Testing conditions of nominal cooling capacity and nominal power: National standard medium temperature working conditions SST -7°C, ambient temperature 32°C, gas return temperature 18°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.

Medium Temperature Working Conditions (<7HP) 380V/3ph/50Hz

GQH		015PS	021PS	026PS	030PS	038PS	045PS	048PS	
Refrigerant		R404A/R22							
Casing Type		M1	M1	M1	M1	M2	M2	M2	
R404A	Nominal Cooling Capacity (1)	kW	4.15	5.57	6.28	8.06	10.16	12.08	13.03
	Nominal Input Power (1)	kW	1.58	2.24	2.64	3.37	3.86	4.71	5.09
R22	Nominal Cooling Capacity (1)	kW	3.74	5.01	5.65	7.25	9.64	11.42	12.52
	Nominal Input Power (1)	kW	1.42	2.02	2.38	3.03	3.40	4.08	4.48
Compressor	Quantity	1	1	1	1	1	1	1	
	Model	MLZ015T4/MLM015T4	MLZ021T4/MLM021T4	MLZ026T4/MLM026T4	MLZ030T4/MLM030T4	MLZ038T4/MLM038T4	MLZ045T4/MLM045T4	MLZ048T4/MLM048T4	
Crankcase Heating Belt	Quantity x Power	W	1x65	1x65	1x65	1x75	1x75	1x75	
	HP	1x2	1x3	1x3.5	1x4	1x5	1x6	1x7	
Noise	dB (A) (2)	60	60	60	60	60	60	60	
	Quantity x Diameter	mm	1x0500	1x0500	1x0500	1x0500	2x0500	2x0500	
Fan Motor	Air Volume	m³/h	4445	4445	4445	4445	8890	8890	
	Fan Nominal Current	A	0.71	0.71	0.71	0.71	1.42	1.42	
Total Current	Compressor Starting Current	A	30	45	45	60	70	82	87
	Compressor Max. Continuous Current	A	7	9.5	11	13	15	15	16
	Reservoir Volume	L	6	6	6	6	7.6	7.6	7.6
Lubricating Oil	Ester oil 320HV(R404A)/ Alkyl benzene oil (R22)								
Oil Charge	L	1.1	1.1	1.6	1.6	1.6	1.6	1.6	
	Gas Return	Inch	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"
Connection	Liquid Line	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
	mm	Please see the pictures attached							
Dimension	mm	Please see the pictures attached							
Weight	kg	68	68	68	74	125	125	125	



Model Selection Table of Medium Temperature Fixed Speed CDU (<7HP) 230V/1PH/50Hz&380V/3PH/50Hz

R404A	GQH	Ambient Temperature							
		27 °C		32 °C		37 °C		42 °C	
		Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)
SST -15 °C	015PB	3.07	1.48	2.82	1.67	2.50	1.80	2.20	2.07
	021PB	4.23	1.91	3.89	2.14	3.59	2.35	3.23	2.60
	026PB	5.13	2.48	4.70	2.74	4.30	2.98	3.91	3.28
	030PB	6.00	2.99	5.62	3.23	5.10	3.50	5.00	3.92
	038PB	7.70	3.39	7.08	3.76	6.54	4.12	5.89	4.55
	045PB	9.01	4.10	8.20	4.61	7.64	5.04	6.80	5.57
	048PB	9.73	4.52	8.93	5.00	8.20	5.45	7.42	6.01
	048PB	9.73	4.52	8.93	5.00	8.20	5.45	7.42	6.01
SST -10 °C	015PB	3.83	1.43	3.51	1.63	3.22	1.83	2.88	2.05
	021PB	5.13	1.98	4.73	2.22	4.41	2.43	3.99	2.69
	026PB	6.21	2.54	5.84	2.75	5.33	3.04	4.81	3.34
	030PB	7.23	3.10	6.82	3.34	6.21	3.67	5.59	4.03
	038PB	9.30	3.48	8.64	3.84	8.04	4.20	7.28	4.83
	045PB	10.94	4.28	10.07	4.74	9.37	5.10	8.40	5.99
	048PB	11.77	4.60	11.07	5.00	10.11	5.58	9.13	6.14
	048PB	11.77	4.60	11.07	5.00	10.11	5.58	9.13	6.14
SST -7 °C	015PB	4.33	1.39	4.15	1.58	3.88	1.79	3.31	2.02
	021PB	5.75	2.03	5.57	2.24	4.90	2.48	4.50	2.75
	026PB	6.94	2.59	6.28	2.64	6.00	3.08	5.42	3.38
	030PB	8.21	3.13	8.00	3.37	6.90	3.74	6.28	4.10
	038PB	10.48	3.53	10.10	3.80	9.00	4.20	8.23	4.99
	045PB	12.24	4.38	12.08	4.71	10.55	5.24	9.55	5.77
	048PB	13.16	4.75	13.03	5.09	11.37	5.60	10.29	6.23
	048PB	13.16	4.75	13.03	5.09	11.37	5.60	10.29	6.23
SST -5 °C	015PB	4.60	1.37	4.29	1.57	3.98	1.77	3.59	2.00
	021PB	6.10	2.00	5.81	2.20	5.33	2.51	4.84	2.78
	026PB	7.42	2.62	7.02	2.82	6.44	3.10	5.83	3.41
	030PB	8.60	3.15	8.17	3.40	7.40	3.79	6.74	4.15
	038PB	11.23	3.57	10.41	3.94	9.74	4.29	8.80	4.72
	045PB	13.11	4.44	12.37	4.80	11.34	5.29	10.28	5.83
	048PB	14.08	4.81	13.31	5.20	12.20	5.72	11.00	6.29
	048PB	14.08	4.81	13.31	5.20	12.20	5.72	11.00	6.29
SST 0 °C	015PB	5.00	1.30	5.18	1.50	4.83	1.70	4.39	1.94
	021PB	7.30	2.15	6.92	2.34	6.37	2.60	5.81	2.87
	026PB	8.77	2.71	8.34	2.90	7.67	3.18	6.97	3.49
	030PB	10.47	3.27	9.67	3.60	8.80	3.93	8.01	4.30
	038PB	13.34	3.69	12.64	4.00	11.00	4.39	10.05	4.83
	045PB	15.56	4.61	14.75	4.90	13.55	5.45	12.32	5.98
	048PB	16.85	5.00	15.82	5.30	14.55	5.89	13.22	6.40
	048PB	16.85	5.00	15.82	5.30	14.55	5.89	13.22	6.40

Testing conditions: refrigerant R404A, degree of superheat of gas return 10K

Model Selection Table of Medium Temperature Fixed Speed CDU (<7HP) 380V/3PH/50Hz

R404A	GQH	Ambient Temperature							
		27 °C		32 °C		37 °C		42 °C	
		Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)
SST -15 °C	015PB	3.10	1.28	2.95	1.40	2.81	1.54	2.65	1.69
	021PB	4.34	1.71	4.13	1.90	3.93	2.08	3.68	2.26
	026PB	5.19	2.10	4.98	2.28	4.71	2.51	4.44	2.75
	030PB	6.18	2.58	5.91	2.78	5.55	3.03	5.18	3.30
	038PB	7.41	2.91	7.02	3.17	6.68	3.47	6.28	3.84
	045PB	8.73	3.58	8.19	3.93	7.72	4.20	7.10	4.63
	048PB	9.66	3.94	9.24	4.29	8.74	4.60	8.23	5.13
	048PB	9.66	3.94	9.24	4.29	8.74	4.60	8.23	5.13
SST -10 °C	015PB	3.75	1.32	3.58	1.45	3.42	1.59	3.23	1.74
	021PB	5.18	1.78	4.97	1.95	4.71	2.15	4.43	2.34
	026PB	6.27	2.17	6.03	2.36	5.71	2.59	5.39	2.84
	030PB	7.45	2.72	7.17	2.92	6.77	3.19	6.30	3.47
	038PB	9.05	3.05	8.59	3.33	8.21	3.62	7.77	3.95
	045PB	10.66	3.71	10.16	4.04	9.55	4.42	8.91	4.82
	048PB	11.68	4.08	11.21	4.43	10.62	4.80	10.02	5.31
	048PB	11.68	4.08	11.21	4.43	10.62	4.80	10.02	5.31
SST -7 °C	015PB	4.20	1.34	3.74	1.42	3.84	1.61	3.63	1.77
	021PB	5.75	1.82	5.01	2.02	5.24	2.20	4.94	2.40
	026PB	7.01	2.22	5.65	2.38	6.30	2.65	6.04	2.90
	030PB	8.39	2.78	7.25	3.03	7.58	3.29	7.14	3.58
	038PB	10.17	3.14	9.64	3.40	9.26	3.71	8.76	4.05
	045PB	11.97	3.79	11.42	4.08	10.78	4.51	10.10	4.92
	048PB	13.15	4.14	12.52	4.48	11.90	4.90	11.24	5.42
	048PB	13.15	4.14	12.52	4.48	11.90	4.90	11.24	5.42
SST -5 °C	015PB	4.50	1.30	4.29	1.49	4.12	1.63	3.90	1.79
	021PB	6.13	1.85	5.90	2.02	5.60	2.23	5.28	2.43
	026PB	7.50	2.25	7.22	2.44	6.85	2.68	6.48	2.94
	030PB	9.02	2.81	8.58	3.08	8.13	3.30	7.60	3.65
	038PB	10.91	3.21	10.49	3.47	9.96	3.78	9.43	4.12
	045PB	12.84	3.84	12.30	4.17	11.60	4.57	10.89	5.00
	048PB	14.13	4.18	13.44	4.59	12.75	5.03	12.06	5.50
	048PB	14.13	4.18	13.44	4.59	12.75	5.03	12.06	5.50
SST 0 °C	015PB	5.35	1.41	5.15	1.53	4.91	1.68	4.66	1.84
	021PB	7.20	1.94	6.95	2.11	6.60	2.32	6.23	2.53
	026PB	9.01	2.29	8.57	2.52	8.14	2.78	7.70	3.05
	030PB	10.85	2.98	10.14	3.25	9.63	3.54	9.11	3.85
	038PB	12.90	3.37	12.53	3.64	11.93	3.95	11.32	4.31
	045PB	15.28	3.99	14.71	4.31	13.91	4.73	13.10	5.17
	048PB	16.76	4.33	15.90	4.76	15.10	5.21	14.35	5.70
	048PB	16.76	4.33	15.90	4.76	15.10	5.21	14.35	5.70

Testing conditions: refrigerant R404A, degree of superheat of gas return 10K