



Technical Sales Guide

DC INVERTER ROOFTOP PACKAGED AIR CONDITIONERS

(GC202304-III)

CAPACITY RANGE: 22.0~108.0kW (75100~368500Btu/h)

OPERATION RANGE: COOLING: 18~52°C

HEATING: -15~24°C



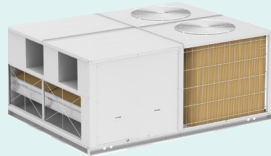
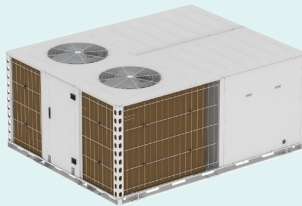
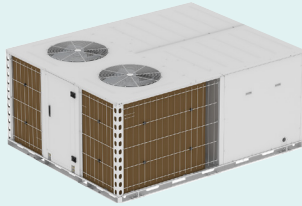
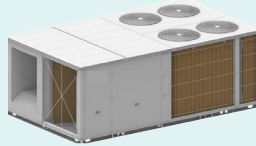
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ROOFTOP PACKAGED AIR CONDITIONERS

1 PRODUCT LIST

Model	Product Code	Nominal Capacity (Ton)	Refrigerant	Power Supply	Appearance
GK-H5.5TH/NaA-X(L)	EJ51001030	5.5	R410A	380-415V 3N~50/60Hz	
GK-H5.5TH/NaB-X(L)	EJ51100010	5.5	R410A	380-415V 3N~50/60Hz	
GK-H6.2TH/NaA-X(L)	EJ51000990	6.2	R410A	380-415V 3N~50/60Hz	
GK-H7.5TH/NaA-X(L)	EJ51001010	7.5	R410A	380-415V 3N~50/60Hz	
GK-H10TH/NaA-X(L)	EJ51001090	10	R410A	380-415V 3N~50/60Hz	
GK-H15TH/NaA-M(L)	EJ51001080	15	R410A	380-415V 3N~50Hz	
GK-H20TH/NaA-M(L)	EJ51001000	20	R410A	380-415V 3N~50Hz	

Model	Product Code	Nominal Capacity (Ton)	Refrigerant	Power Supply	Appearance
GK-H25TH/NaA-M(L)	EJ51000980	25	R410A	380-415V 3N~ 50Hz	
GK-H30TC/NaA-M(L)	EJ51001330	30	R410A	380-415V 3N~, 50 Hz	
GK-H30TC/NaA1-M(L)	EJ51001550	30	R410A	380-415V 3N~, 50 Hz	
GK-C30TH/NaA-M(L)	EJ51001100	30	R410A	380-415V 3N~ 50Hz	

2 NOMENCLATURE

GK	-	H	10	T	H	Na	A	X	(L)
1	-	2	3	4	5	6	7	8	9

No.	Description	Options
1	Product Category	GK=GREE Rooftop Packaged Air-conditioner
2	Product Function Code	Product Function Code; C = Cooling only type; H = Heat pump type.
3	Cooling/Heating Capacity	05=5Ton; 10=10Ton.....
4	Operating Condition	T=T3 Condition; N=T1 Condition.
5	Airflow Options	H=Horizontal; C=Convertible.
6	Refrigerant Options	Omit=R22; Na=R410A; Nh=R32.
7	Design Code	A,B,C.....
8	Voltage Options	M=380-415V,50Hz,3Ph X=380-415V,50/60Hz,3Ph
9	Sales Region	U=North America S=Saudi Arabia L=Latin America

3 PRODUCT FEATURES



3.1 Description

The Gree Rooftop C series are completely assembled, piped and wired at the factory to provide one-piece shipment and rigging. Each unit is pressurized with a holding charge of R410A for storage and shipping. The Gree Rooftop C series can offer the perfect combination of superior product quality, high operating efficiency and cost efficiency. The compact design, outstanding anti-corrosive cabinet and quiet operation make these units suitable for public and domestic use. From dedicated design of each part to the unit assembling, together with complete test, the unit offers reliable operation and comfort experience. Comprehensive protections can guarantee the system safety and prevent damage of critical components such as compressor under harsh working conditions. All sheet metal parts are constructed of commercial grade galvanized steel. The unit external parts are coated with special paint to ensure anti-corrosion performance.



3.2 Features

3.2.1 High energy efficiency and performance

◆ DC inverter design

The Gree Rooftop unit meets CB requirements. The compressor and outdoor fan can adjust the operating frequency according to different room loads, and automatically adjust the capacity output to ensure the comfort of the room environment. At the same time, the power consumption of the unit changes along with the capacity output and the power consumption of unit is low in low-load operation. Compared with the fixed-speed unit, its annual power consumption is lower, which is high-efficiency and power-saving.

◆ DC inverter motor

The outdoor heat exchanger applies DC inverter motor with high back electromotive force. Power input of motor is lower and operating current is smaller, thus the efficiency is greatly improved compared with the AC motor.

◆ High-efficiency fan blade

New high-efficiency fan blade design adopts CFD simulation technology to optimize the matching of blade type and blade angle. In addition to the special trail edge design, the working area of blade is effectively increased and the air volume is greatly increased.

3.2.2 High reliability

◆ Excellent grid adaptability

The Gree Rooftop C series adopts anti-grid fluctuations design, performs stably in ultra wide voltage range from 342V to 456V, which is perfectly adapted to the power grid fluctuation during peak hours or other conditions.

◆ Multiple protection design

The Gree Rooftop C series unit is designed with high voltage protection, low voltage protection, over-current protection, discharge protection, phase sequence protection and other protections. It can effectively protect key components such as compressor and motor in abnormal operation and harsh working conditions, extending the service life of the unit and ensuring safer and more reliable operation.

◆ Automatic adjustment of throttling

The Gree Rooftop C series unit adopts throttling of electronic expansion valve, and automatically adjusts the opening in throttling according to the system high pressure and discharge temperature. It makes sure that the system parameters are within a reasonable range when the unit operates under all working conditions, to improve the operation reliability and service life of the unit.

Anti-reverseflow design of outdoor fan

The outdoor fan of the Gree Rooftop C series unit adopts Anti-reverseflow startup design to solve the problem that the unit cannot start smoothly in the reverse operation under the high wind environment. The

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Anti-reverseflow startup design allows the unit to fully adapt to the harsh windy environment and start reliably. The outdoor fan runs smoothly, which is safer and more reliable.

3.2.3 Anti-corrosive and dustproof

◆ Weather fastness fan blade

The fan blades of the condenser fan are directly injection molded with ABS+glass fiber material, which has excellent weather fastness and anti-corrosive performance.

3.2.4 Easy to use

◆ Non-polarity communication design

The Gree Rooftop C series unit adopts two-core Non-polarity communication. System anti-electromagnetic interference capability is strong, and the communication distance between the wired controller and the unit can reach 100m. The field wiring does not need to distinguish the positive and negative poles. Meanwhile, conventional communication wire and telephone wire can be adopted, with no need of special shielded communication wire.

◆ Auxiliary controller

The Gree Rooftop C series unit can be connected to centralized controller. One centralized controller can control up to 36 units, and realize single unit control or group control for multiple units. It can also be used with MODBUS gateway to remotely control the unit, or to be managed with other electrical equipment in the building.

4 PRODUCT DATA



4.1 Product Data at Rated Condition

Model		GK-H5.5TH/NaA-X(L)	GK-H5.5TH/NaB-X(L)	GK-H6.2TH/NaA-X(L)
Ton		5.5	5.5	6.2
Capacity				
Cooling Capacity	Btu/h	75100	66500	78500
Cooling Capacity	kW	22.0	19.5	23.0
Heating Capacity	Btu/h	88700	66500	95500
Heating Capacity	kW	26.0	19.5	28
Electrical Data				
Power Supply	-	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz
Cooling Power Input	kW	8.5	7.5	8.5
Heating Power Input	kW	9.5	6.5	9.5
Max. Power Input	kW	10.0	8.5	10.0
Max. Current	A	18.0	18.0	18.0
Sound				
Sound Pressure Level	dB(A)	66	68	66

Model		GK-H5.5TH/NaA-X(L)	GK-H5.5TH/NaB-X(L)	GK-H6.2TH/NaA-X(L)
Ton		5.5	5.5	6.2
Refrigerant				
Refrigerant Type	-	R410A	R410A	R410A
Refrigerant Weight	kg	5	4.4	5
Air Flow				
Air Flow Volume	CFM	1766	1942	1766
Air Flow Volume	m³/h	3000	3300	3000
Pressure				
External Static Pressure	Pa	60	125	60
External Static Pressure	InWg	0.24	0.5	0.24
External Static Pressure Range	Pa	0-185	25-250	0-185
External Static Pressure Range	InWg	0-0.74	0.1-1.0	0-0.74
Dimension				
Outline Dimension(W×D×H)	mm	1450×1120×815	1450×1120×815	1450×1120×815
Package Dimension(W×D×H)	mm	1463×1133×860	1463×1133×860	1463×1133×860
Weight				
Net Weight	kg	268	215	268
Gross Weight	kg	289	250	289
Loading				
Loading Quantity	20'GP	14	14	14
Loading Quantity	40'HQ	48	48	48

Model		GK-H7.5TH/NaA-X(L)	GK-H10TH/NaA-X(L)
Ton		7.5	10
Capacity			
Cooling Capacity	Btu/h	98900	119400
Cooling Capacity	kW	29.0	35.0
Heating Capacity	Btu/h	109200	133100
Heating Capacity	kW	32.0	39.0
Electrical Data			
Power Supply		380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz
Cooling Power Input	kW	9.0	13.5
Heating Power Input	kW	9.2	11.5
Max. Power Input	kW	10.0	15.0
Max. Current	A	18.0	23.0
Sound			
Sound Pressure Level	dB(A)	68	72
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	8.0	10.0
Air Flow			
Air Flow Volume	CFM	2590	3414
Air Flow Volume	m³/h	4400	5800
Pressure			
External Static Pressure	Pa	80	90
External Static Pressure	InWg	0.32	0.36
External Static Pressure Range	Pa	0-185	0-210
External Static Pressure Range	InWg	0-0.74	0-0.84

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Model		GK-H7.5TH/NaA-X(L)	GK-H10TH/NaA-X(L)
Ton		7.5	10
Dimension			
Outline Dimension(W×D×H)	mm	1450×1120×1215	1450×1120×1215
Package Dimension(W×D×H)	mm	1463×1133×1260	1463×1133×1260
Weight			
Net Weight	kg	348	350
Gross Weight	kg	368	370
Loading			
Loading Quantity	20'GP	7	7
Loading Quantity	40'HQ	32	32

Model		GK-H15TH/NaA-M(L)	GK-H20TH/NaA-M(L)
Ton		15	20
Capacity			
Cooling Capacity	Btu/h	170900	216700
Cooling Capacity	kW	50.1	63.5
Heating Capacity	Btu/h	191100	264400
Heating Capacity	kW	56.0	77.5
Electrical Data			
Power Supply	-	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Cooling Power Input	kW	23.0	28.5
Heating Power Input	kW	16.5	25.0
Max. Power Input	kW	26.0	30.0
Max. Current	A	44.0	51.0
Sound			
Sound Pressure Level	dB(A)	74	75
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	12.0	16.0
Air Flow			
Air Flow Volume	CFM	5592	8829
Air Flow Volume	m³/h	9500	15000
Pressure			
External Static Pressure	Pa	130	150
External Static Pressure	InWg	0.52	0.60
External Static Pressure Range	Pa	50-200	75-220
External Static Pressure Range	InWg	0.2-0.8	0.3-0.88
Dimension			
Outline Dimension(W×D×H)	mm	2260×1140×1245	2240×1880×1250
Package Dimension(W×D×H)	mm	2283×1163×1290	2258×1898×1300
Weight			
Net Weight	kg	590	820
Gross Weight	kg	618	870
Loading			
Loading Quantity	20'GP	4	3
Loading Quantity	40'HQ	20	12

Model		GK-H25TH/NaA-M(L)	GK-C30TH/NaA-M(L)
Ton		25	30
Capacity			
Cooling Capacity	Btu/h	303700	358300
Cooling Capacity	kW	89	105.0
Heating Capacity	Btu/h	344600	/
Heating Capacity	kW	101	/
Electrical Data			
Power Supply	-	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Cooling Power Input	kW	38.0	34.0
Heating Power Input	kW	30.5	/
Max. Power Input	kW	43.0	43.0
Max. Current	A	73.0	73.0
Sound			
Sound Pressure Level	dB(A)	76	76
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	25.0	15.0+15.0
Air Flow			
Air Flow Volume	CFM	9712	10889
Air Flow Volume	m³/h	16500	18500
Pressure			
External Static Pressure	Pa	200	250
External Static Pressure	InWg	0.8	1
External Static Pressure Range	Pa	100-250	125-300
External Static Pressure Range	InWg	0.4-1	0.5-1.2
Dimension			
Outline Dimension(W×D×H)	mm	2880×2240×1270	3800×2240×1250
Package Dimension(W×D×H)	mm	2893×2253×1290	3810×2250×1283
Weight			
Net Weight	kg	1180	1500
Gross Weight	kg	1224	1550
Loading			
Loading Quantity	20'GP	1	1
Loading Quantity	40'HQ	8	6

Model		GK-H30TC/NaA-M(L)	GK-H30TC/NaA1-M(L)
Ton		30	30
Capacity			
Cooling Capacity	Btu/h	368500	368500
Cooling Capacity	kW	108.0	108.0
Heating Capacity	Btu/h	436700	436700
Heating Capacity	kW	128.0	128.0
Electrical Data			
Power Supply	-	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Cooling Power Input	kW	43.0	43.0
Heating Power Input	kW	38.0	38.0
Max. Power Input	kW	47.0	47.0
Max. Current	A	80.0	80.0

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Model		GK-H30TC/NaA-M(L)	GK-H30TC/NaA1-M(L)
Ton		30	30
Sound			
Sound Pressure Level	dB(A)	77	77
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	14.0+14.0	14.0+14.0
Air Flow			
Air Flow Volume	CFM	9710	9710
Air Flow Volume	m³/h	16500	16500
Pressure			
External Static Pressure	Pa	125	275
External Static Pressure	InWg	0.5	0.5
External Static Pressure Range	Pa	125/310	200-350
External Static Pressure Range	InWg	0.50/1.24	0.8-1.4
Dimension			
Outline Dimension(W×D×H)	mm	2850×2240×1240	2850×2240×1240
Package Dimension(W×D×H)	mm	2863×2253×1285	2863×2253×1285
Weight			
Net Weight	kg	1009	1009
Gross Weight	kg	1070	1070
Loading			
Loading Quantity	20'GP	2	2
Loading Quantity	40'HQ	8	8

Notices:

- ◆ The T1 cooling capacity stated above is measured under following conditions.
Indoor Conditions: 27°C (80.6 °F) DB/19°C (66.2 °F)WB;
Outdoor Conditions: 35°C (95°F) DB/24°C (75.2°F)WB;
- ◆ The T3 cooling capacity stated above is measured under following conditions.
Indoor Conditions: 29°C (84.2 °F) DB/19°C (66.2 °F)WB;
Outdoor Conditions: 46°C (114.8°F) DB/24°C (75.2°F)WB;
- ◆ The air volume is measured at the relevant standard external static pressure.
- ◆ The technical parameters are changed along with the products improvement; please refer to the name plate of the unit for actual data.



4.2 Working Range

Mode	Range of Outdoor Temperature°C(°F)
Cooling	18(64.4) ~ 52(125.6)
Heating	-15(5) ~ 24(75.2)

5 CAPACITY CORRECTION

Model: GK-H5.5TH/NaA-X(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62°F (17°C)					67°F (19°C)					72°F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	3000	23	73.4	20.87	71	15.65	53	6.89	23.72	81	16.60	57	7.21	24.43	83	13.19	45	6.94
			24	75.2	21.08	72	16.87	58	6.96	23.96	82	17.49	60	7.29	24.68	84	14.56	50	7.01
			27	80.6	21.30	73	17.25	59	6.86	24.20	83	18.39	63	7.66	24.93	85	16.20	55	7.03
			31	87.8	21.51	73	18.07	62	6.65	24.44	83	19.31	66	7.26	25.18	86	17.62	60	7.05
35	95	3000	23	73.4	18.97	65	14.23	49	7.97	21.56	74	15.09	51	8.41	22.21	76	11.99	41	8.02
			24	75.2	19.17	65	15.33	52	8.05	21.78	74	15.90	54	8.50	22.43	77	13.24	45	8.10
			27	80.6	19.36	66	15.68	54	7.87	22.00	75	16.72	57	8.50	22.66	77	14.73	50	8.11
			31	87.8	19.55	67	16.43	56	7.63	22.22	76	17.55	60	8.42	22.89	78	16.02	55	8.11
46	115	3000	23	73.4	16.22	55	12.17	42	9.28	18.43	63	12.90	44	9.80	18.99	65	10.25	35	9.34
			24	75.2	16.39	56	13.11	45	9.37	18.62	64	13.59	46	9.90	19.18	65	11.32	39	9.43
			27	80.6	16.55	56	13.41	46	9.17	18.81	64	14.30	49	10.00	19.37	66	12.59	43	9.44
			31	87.8	16.88	58	14.18	48	8.98	19.19	65	15.16	52	9.90	19.76	67	13.83	47	9.54
50	122	3000	23	73.4	13.51	46	10.13	35	9.37	15.35	52	10.75	37	9.90	15.81	54	8.54	29	9.43
			24	75.2	13.65	47	10.92	37	9.47	15.51	53	11.32	39	10.00	15.98	55	9.43	32	9.53
			27	80.6	13.79	47	11.17	38	9.26	15.67	53	11.91	41	10.00	16.14	55	10.49	36	9.54
			31	87.8	13.92	48	11.70	40	8.98	15.82	54	12.50	43	9.90	16.30	56	11.41	39	9.54
52	126	3000	23	73.4	12.07	41	9.06	31	9.37	13.72	47	9.60	33	9.90	14.13	48	7.63	26	9.43
			24	75.2	12.20	42	9.76	33	9.47	13.86	47	10.12	35	10.00	14.28	49	8.42	29	9.53
			27	80.6	12.32	42	9.98	34	9.26	14.00	48	10.64	36	10.00	14.42	49	9.37	32	9.54
			31	87.8	12.44	42	10.45	36	8.98	14.14	48	11.17	38	9.90	14.56	50	10.19	35	9.54

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	3000	60	29.17	100	7.63	28.60	98	7.95	27.74	95	8.27
6	42.8			26.52	90	7.20	26.00	89	7.50	25.22	86	7.80
1	33.8			17.24	59	6.70	16.90	58	6.98	16.39	56	7.25
-6.0	21.2			14.85	51	5.98	14.56	50	6.23	14.12	48	6.47
-9.5	14.9			13.26	45	5.40	13.00	44	5.63	12.61	43	5.85

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Model: GK-H5.5TH/NaB-X(L)

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)								
						62 °F (17°C)			67 °F (19°C)			72 °F (22°C)		
						Total Capacity	Power Input	EER	Total Capacity	Power Input	EER	Total Capacity	Power Input	EER
°C	°F	m³/h	cfm	°C	°F	kW	kW	W/W	kW	kW	W/W	kW	kW	W/W
25	77	3300	1942	23	73.4	18.50	6.08	3.04	21.02	6.37	3.30	21.65	6.12	3.54
				24	75.2	18.69	6.14	3.04	21.24	6.43	3.30	21.87	6.19	3.54
				27	80.6	18.88	6.05	3.12	21.45	6.76	3.17	22.09	6.20	3.56
				31	87.8	19.06	5.87	3.25	21.66	6.41	3.38	22.31	6.22	3.59
35	95	3300	1942	23	73.4	16.82	7.03	2.39	19.11	7.42	2.57	19.68	7.08	2.78
				24	75.2	16.99	7.10	2.39	19.31	7.50	2.57	19.88	7.15	2.78
				27	80.6	17.16	6.95	2.47	19.50	7.50	2.60	20.09	7.15	2.81
				31	87.8	17.33	6.73	2.57	19.70	7.43	2.65	20.29	7.16	2.83
46	115	3300	1942	23	73.4	12.94	6.09	2.12	14.70	6.43	2.28	15.14	6.13	2.47
				24	75.2	13.07	6.16	2.12	14.85	6.50	2.28	15.30	6.19	2.47
				27	80.6	13.20	6.02	2.19	15.00	6.50	2.31	15.45	6.20	2.49
				31	87.8	13.33	5.84	2.28	15.15	6.44	2.35	15.60	6.20	2.52
50	122	3300	1942	23	73.4	10.64	5.28	2.01	12.09	5.58	2.17	12.45	5.31	2.34
				24	75.2	10.74	5.33	2.01	12.21	5.63	2.17	12.58	5.37	2.34
				27	80.6	10.85	5.22	2.08	12.33	5.63	2.19	12.70	5.37	2.36
				31	87.8	10.96	5.06	2.17	12.46	5.58	2.23	12.83	5.38	2.39
52	126	3300	1942	23	73.4	9.49	4.87	1.95	10.78	5.15	2.09	11.10	4.91	2.26
				24	75.2	9.58	4.92	1.95	10.89	5.20	2.09	11.22	4.96	2.26
				27	80.6	9.68	4.82	2.01	11.00	5.20	2.12	11.33	4.96	2.28
				31	87.8	9.78	4.67	2.09	11.11	5.15	2.16	11.44	4.96	2.31

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	3000	60	21.88	75	6.61	21.45	73	6.89	20.81	71	7.17
6	42.8			19.89	68	6.24	19.50	67	6.50	18.92	65	6.76
1	33.8			12.93	44	5.80	12.68	43	6.05	12.29	42	6.29
-6.0	21.2			11.14	38	5.18	10.92	37	5.40	10.59	36	5.61
-9.5	14.9			9.95	34	4.68	9.75	33	4.88	9.46	32	5.07

Model: GK-H6.2TH/NaA-X(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62°F(17°C)					67°F (19°C)					72°F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	3000	23	73.4	21.82	74	16.36	56	6.89	24.79	85	17.36	59	7.21	25.54	87	13.79	47	6.94
			24	75.2	22.04	75	17.63	60	6.96	25.05	85	18.28	62	7.29	25.80	88	15.22	52	7.01
			27	80.6	22.26	76	18.03	62	6.86	25.30	86	19.23	66	7.66	26.06	89	16.94	58	7.03
			31	87.8	22.49	77	18.89	64	6.65	25.55	87	20.19	69	7.26	26.32	90	18.42	63	7.05
35	95	3000	23	73.4	19.84	68	14.88	51	7.97	22.54	77	15.78	54	8.41	23.22	79	12.54	43	8.02
			24	75.2	20.04	68	16.03	55	8.05	22.77	78	16.62	57	8.50	23.45	80	13.84	47	8.10
			27	80.6	20.24	69	16.39	56	7.87	23.00	78	17.48	60	8.50	23.69	81	15.40	53	8.11
			31	87.8	20.44	70	17.17	59	7.63	23.23	79	18.35	63	8.42	23.93	82	16.75	57	8.11
46	115	3000	23	73.4	16.22	55	12.17	42	9.28	18.43	63	12.90	44	9.80	18.99	65	10.25	35	9.34
			24	75.2	16.39	56	13.11	45	9.37	18.62	64	13.59	46	9.90	19.18	65	11.32	39	9.43
			27	80.6	16.55	56	13.41	46	9.17	18.81	64	14.30	49	10.00	19.37	66	12.59	43	9.44
			31	87.8	16.88	58	14.18	48	8.98	19.19	65	15.16	52	9.90	19.76	67	13.83	47	9.54
50	122	3000	23	73.4	13.51	46	10.13	35	9.37	15.35	52	10.75	37	9.90	15.81	54	8.54	29	9.43
			24	75.2	13.65	47	10.92	37	9.47	15.51	53	11.32	39	10.00	15.98	55	9.43	32	9.53
			27	80.6	13.79	47	11.17	38	9.26	15.67	53	11.91	41	10.00	16.14	55	10.49	36	9.54
			31	87.8	13.92	48	11.70	40	8.98	15.82	54	12.50	43	9.90	16.30	56	11.41	39	9.54
52	126	3000	23	73.4	12.07	41	9.06	31	9.37	13.72	47	9.60	33	9.90	14.13	48	7.63	26	9.43
			24	75.2	12.20	42	9.76	33	9.47	13.86	47	10.12	35	10.00	14.28	49	8.42	29	9.53
			27	80.6	12.32	42	9.98	34	9.26	14.00	48	10.64	36	10.00	14.42	49	9.37	32	9.54
			31	87.8	12.44	42	10.45	36	8.98	14.14	48	11.17	38	9.90	14.56	50	10.19	35	9.54

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8°F (16°C)			68°F (20°C)			75.2°F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	3000	60	31.42	107	7.63	30.80	105	7.95	29.88	102	8.27
6	42.8			28.56	97	7.20	28.00	96	7.50	27.16	93	7.80
1	33.8			18.56	63	6.70	18.20	62	6.98	17.65	60	7.25
-6.0	21.2			15.99	55	5.98	15.68	54	6.23	15.21	52	6.47
-9.5	14.9			14.28	49	5.40	14.00	48	5.63	13.58	46	5.85

ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-H7.5TH/NaA-X(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	4400	23	73.4	27.51	94	20.63	70	7.30	31.26	107	21.88	75	7.64	32.20	110	17.39	59	7.35
			24	75.2	27.79	95	22.23	76	7.37	31.58	108	23.05	79	7.72	32.53	111	19.19	65	7.42
			27	80.6	28.07	96	22.74	78	7.26	31.90	109	24.24	83	8.11	32.86	112	21.36	73	7.44
			31	87.8	28.35	97	23.82	81	7.04	32.22	110	25.45	87	7.69	33.19	113	23.23	79	7.46
35	95	4400	23	73.4	25.01	85	18.76	64	8.44	28.42	97	19.89	68	8.91	29.27	100	15.81	54	8.49
			24	75.2	25.26	86	20.21	69	8.52	28.71	98	20.96	72	9.00	29.57	101	17.45	60	8.58
			27	80.6	25.52	87	20.67	71	8.34	29.00	99	22.04	75	9.00	29.87	102	19.42	66	8.58
			31	87.8	25.78	88	21.65	74	8.08	29.29	100	23.14	79	8.91	30.17	103	21.12	72	8.59
46	115	4400	23	73.4	19.64	67	14.73	50	9.19	22.31	76	15.62	53	9.70	22.98	78	12.41	42	9.25
			24	75.2	19.84	68	15.87	54	9.28	22.54	77	16.46	56	9.80	23.22	79	13.70	47	9.34
			27	80.6	20.04	68	16.23	55	9.08	22.77	78	17.31	59	9.90	23.45	80	15.24	52	9.35
			31	87.8	20.44	70	17.17	59	8.89	23.23	79	18.35	63	9.80	23.92	82	16.75	57	9.45
50	122	4400	23	73.4	16.96	58	12.72	43	9.34	19.27	66	13.49	46	9.87	19.85	68	10.72	37	9.40
			24	75.2	17.13	58	13.71	47	9.44	19.47	66	14.21	48	9.97	20.05	68	11.83	40	9.50
			27	80.6	17.31	59	14.02	48	9.23	19.67	67	14.95	51	9.97	20.26	69	13.17	45	9.51
			31	87.8	17.48	60	14.68	50	8.95	19.86	68	15.69	54	9.87	20.46	70	14.32	49	9.51
52	126	4400	23	73.4	15.52	53	11.64	40	9.37	17.64	60	12.35	42	9.90	18.17	62	9.81	33	9.43
			24	75.2	15.68	54	12.55	43	9.47	17.82	61	13.01	44	10.00	18.35	63	10.83	37	9.53
			27	80.6	15.84	54	12.83	44	9.26	18.00	61	13.68	47	10.00	18.54	63	12.05	41	9.54
			31	87.8	16.00	55	13.44	46	8.98	18.18	62	14.36	49	9.90	18.73	64	13.11	45	9.54

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	4400	80	35.90	123	8.14	35.20	120	8.48	34.14	116	8.82
6	42.8			32.64	111	7.68	32.00	109	8.00	31.04	106	8.32
1	33.8			21.22	72	7.68	20.80	71	8.00	20.18	69	8.32
-6.0	21.2			18.28	62	6.37	17.92	61	6.64	17.38	59	6.91
-9.5	14.9			16.32	56	5.76	16.00	55	6.00	15.52	53	6.24

Model: GK-H10TH/NaA-X(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	5800	23	73.4	32.25	110	24.19	83	10.95	36.65	125	25.66	88	11.46	37.75	129	20.39	70	11.02
			24	75.2	32.58	111	26.07	89	11.06	37.03	126	27.03	92	11.58	38.14	130	22.50	77	11.13
			27	80.6	32.91	112	26.66	91	10.89	37.40	128	28.42	97	12.17	38.52	131	25.04	85	11.16
			31	87.8	33.24	113	27.92	95	10.56	37.77	129	29.84	102	11.54	38.91	133	27.24	93	11.19
35	95	5800	23	73.4	29.32	100	21.99	75	12.65	33.32	114	23.32	80	13.36	34.32	117	18.53	63	12.74
			24	75.2	29.62	101	23.70	81	12.78	33.66	115	24.57	84	13.50	34.67	118	20.46	70	12.87
			27	80.6	29.92	102	24.24	83	12.51	34.00	116	25.84	88	13.50	35.02	119	22.76	78	12.88
			31	87.8	30.22	103	25.38	87	12.12	34.34	117	27.13	93	13.37	35.37	121	24.76	84	12.88
46	115	5800	23	73.4	24.76	84	18.57	63	12.99	28.14	96	19.70	67	13.72	28.98	99	15.65	53	13.08
			24	75.2	25.01	85	20.01	68	13.12	28.42	97	20.75	71	13.86	29.28	100	17.27	59	13.21
			27	80.6	25.26	86	20.46	70	12.84	28.71	98	21.82	74	14.00	29.57	101	19.22	66	13.22
			31	87.8	25.77	88	21.65	74	12.57	29.28	100	23.13	79	13.86	30.16	103	21.11	72	13.36
50	122	5800	23	73.4	20.41	70	15.31	52	13.44	23.19	79	16.24	55	14.19	23.89	82	12.90	44	13.52
			24	75.2	20.62	70	16.49	56	13.57	23.43	80	17.10	58	14.33	24.13	82	14.24	49	13.66
			27	80.6	20.83	71	16.87	58	13.28	23.67	81	17.99	61	14.33	24.38	83	15.84	54	13.67
			31	87.8	21.03	72	17.67	60	12.87	23.90	82	18.88	64	14.19	24.62	84	17.23	59	13.68
52	126	5800	23	73.4	18.11	62	13.58	46	13.59	20.58	70	14.41	49	14.35	21.20	72	11.45	39	13.68
			24	75.2	18.30	62	14.64	50	13.73	20.79	71	15.18	52	14.50	21.41	73	12.63	43	13.82
			27	80.6	18.48	63	14.97	51	13.43	21.00	72	15.96	54	14.50	21.63	74	14.06	48	13.83
			31	87.8	18.66	64	15.68	53	13.02	21.21	72	16.76	57	14.36	21.85	75	15.29	52	13.84

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	5800	90	43.76	149	11.70	42.90	146	12.19	41.61	142	12.68
6	42.8			39.78	136	11.04	39.00	133	11.50	37.83	129	11.96
1	33.8			25.86	88	10.27	25.35	86	10.70	24.59	84	11.12
(6)	21.2			22.28	76	9.16	21.84	75	9.55	21.18	72	9.93
(9.5)	14.9			19.89	68	8.28	19.50	67	8.63	18.92	65	8.97

ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-H15TH/NaA-M(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	9500	23	73.4	47.53	162	35.65	122	18.65	54.01	184	37.81	129	19.52	55.63	190	30.04	102	18.78
			24	75.2	48.01	164	38.41	131	18.84	54.56	186	39.83	136	19.72	56.20	192	33.16	113	18.97
			27	80.6	48.50	165	39.28	134	18.55	55.11	188	41.88	143	20.74	56.76	194	36.90	126	19.02
			31	87.8	48.98	167	41.14	140	17.99	55.66	190	43.97	150	19.66	57.33	196	40.13	137	19.07
35	95	9500	23	73.4	43.21	147	32.40	111	21.56	49.10	168	34.37	117	22.77	50.57	173	27.31	93	21.70
			24	75.2	43.65	149	34.92	119	21.78	49.60	169	36.21	124	23.00	51.09	174	30.14	103	21.92
			27	80.6	44.09	150	35.71	122	21.31	50.10	171	38.08	130	23.00	51.60	176	33.54	114	21.94
			31	87.8	44.53	152	37.40	128	20.65	50.60	173	39.97	136	22.77	52.12	178	36.48	124	21.95
46	115	9500	23	73.4	31.59	108	23.69	81	20.42	35.90	122	25.13	86	21.56	36.97	126	19.97	68	20.55
			24	75.2	31.91	109	25.53	87	20.62	36.26	124	26.47	90	21.78	37.35	127	22.04	75	20.76
			27	80.6	32.23	110	26.11	89	20.18	36.63	125	27.84	95	22.00	37.73	129	24.52	84	20.77
			31	87.8	32.88	112	27.62	94	19.75	37.36	127	29.52	101	21.78	38.48	131	26.94	92	20.99
50	122	9500	23	73.4	28.46	97	21.34	73	21.87	32.34	110	22.64	77	23.10	33.31	114	17.99	61	22.01
			24	75.2	28.75	98	23.00	78	22.10	32.67	111	23.85	81	23.33	33.65	115	19.85	68	22.24
			27	80.6	29.04	99	23.52	80	21.61	33.00	113	25.08	86	23.33	33.99	116	22.09	75	22.25
			31	87.8	29.33	100	24.64	84	20.95	33.33	114	26.33	90	23.10	34.33	117	24.03	82	22.27
52	126	9500	23	73.4	26.73	91	20.05	68	22.50	30.38	104	21.27	73	23.76	31.29	107	16.90	58	22.64
			24	75.2	27.01	92	21.61	74	22.73	30.69	105	22.40	76	24.00	31.61	108	18.65	64	22.87
			27	80.6	27.28	93	22.10	75	22.23	31.00	106	23.56	80	24.00	31.93	109	20.75	71	22.89
			31	87.8	27.55	94	23.14	79	21.55	31.31	107	24.73	84	23.76	32.25	110	22.57	77	22.91

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	9500	130	62.83	214	16.79	61.60	210	17.49	59.75	204	18.19
6	42.8			57.12	195	15.84	56.00	191	16.50	54.32	185	17.16
1	33.8			37.13	127	14.73	36.40	124	15.35	35.31	120	15.96
(6)	21.2			31.99	109	13.15	31.36	107	13.70	30.42	104	14.24
(9.5)	14.9			28.56	97	11.88	28.00	96	12.38	27.16	93	12.87

Model: GK-H20TH/NaA-M(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	15000	23	73.4	60.24	206	45.18	154	23.11	68.45	234	47.92	163	24.19	70.51	241	38.07	130	23.27
			24	75.2	60.85	208	48.68	166	23.34	69.15	236	50.48	172	24.44	71.23	243	42.02	143	23.51
			27	80.6	61.47	210	49.79	170	22.99	69.85	238	53.09	181	25.70	71.95	245	46.76	160	23.57
			31	87.8	62.08	212	52.15	178	22.29	70.55	241	55.73	190	24.36	72.66	248	50.87	174	23.63
35	95	15000	23	73.4	54.76	187	41.07	140	26.72	62.23	212	43.56	149	28.21	64.10	219	34.61	118	26.89
			24	75.2	55.32	189	44.26	151	26.99	62.87	214	45.89	157	28.50	64.75	221	38.20	130	27.16
			27	80.6	55.88	191	45.26	154	26.40	63.50	217	48.26	165	28.50	65.41	223	42.51	145	27.18
			31	87.8	56.44	193	47.41	162	25.59	64.14	219	50.67	173	28.22	66.06	225	46.24	158	27.20
46	115	15000	23	73.4	43.97	150	32.98	113	27.84	49.97	170	34.98	119	29.40	51.46	176	27.79	95	28.02
			24	75.2	44.42	152	35.53	121	28.12	50.48	172	36.85	126	29.70	51.99	177	30.67	105	28.30
			27	80.6	44.87	153	36.34	124	27.51	50.99	174	38.75	132	30.00	52.51	179	34.13	116	28.33
			31	87.8	45.76	156	38.44	131	26.93	52.00	177	41.08	140	29.70	53.56	183	37.50	128	28.63
50	122	15000	23	73.4	37.51	128	28.14	96	28.12	42.63	145	29.84	102	29.70	43.91	150	23.71	81	28.30
			24	75.2	37.90	129	30.32	103	28.41	43.07	147	31.44	107	30.00	44.36	151	26.17	89	28.59
			27	80.6	38.28	131	31.01	106	27.79	43.50	148	33.06	113	30.00	44.81	153	29.12	99	28.61
			31	87.8	38.66	132	32.48	111	26.93	43.94	150	34.71	118	29.71	45.25	154	31.68	108	28.63
52	126	15000	23	73.4	34.06	116	25.55	87	28.12	38.71	132	27.10	92	29.70	39.87	136	21.53	73	28.30
			24	75.2	34.41	117	27.53	94	28.41	39.11	133	28.55	97	30.00	40.28	137	23.76	81	28.59
			27	80.6	34.76	119	28.16	96	27.79	39.50	135	30.02	102	30.00	40.69	139	26.45	90	28.61
			31	87.8	35.11	120	29.49	101	26.93	39.90	136	31.52	108	29.71	41.09	140	28.76	98	28.63

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	15000	150	84.15	287	30.53	82.50	281	31.80	80.03	273	33.07
6	42.8			76.50	261	28.80	75.00	256	30.00	72.75	248	31.20
1	33.8			49.73	170	26.78	48.75	166	27.90	47.29	161	29.02
-6.0	21.2			42.84	146	23.90	42.00	143	24.90	40.74	139	25.90
-9.5	14.9			38.25	131	21.60	37.50	128	22.50	36.38	124	23.40

ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-H25TH/NaA-M(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	16500	23	73.4	84.43	288	63.32	216	34.46	95.94	327	67.16	229	36.07	98.82	337	53.36	182	34.70
			24	75.2	85.29	291	68.23	233	34.81	96.92	331	70.75	241	36.44	99.83	341	58.90	201	35.05
			27	80.6	86.15	294	69.78	238	34.28	97.90	334	74.40	254	38.32	100.84	344	65.54	224	35.15
			31	87.8	87.01	297	73.09	249	33.24	98.88	337	78.11	267	36.32	101.85	347	71.29	243	35.24
35	95	16500	23	73.4	76.75	262	57.57	196	39.84	87.22	298	61.05	208	42.07	89.84	307	48.51	166	40.09
			24	75.2	77.54	265	62.03	212	40.25	88.11	301	64.32	219	42.50	90.75	310	53.54	183	40.50
			27	80.6	78.32	267	63.44	216	39.37	89.00	304	67.64	231	42.50	91.67	313	59.59	203	40.53
			31	87.8	79.10	270	66.45	227	38.16	89.89	307	71.01	242	42.08	92.59	316	64.81	221	40.56
46	115	16500	23	73.4	51.65	176	38.74	132	30.16	58.70	200	41.09	140	31.85	60.46	206	32.65	111	30.35
			24	75.2	52.18	178	41.74	142	30.47	59.30	202	43.29	148	32.18	61.07	208	36.03	123	30.66
			27	80.6	52.71	180	42.69	146	29.80	59.90	204	45.52	155	32.50	61.69	210	40.10	137	30.69
			31	87.8	53.76	183	45.16	154	29.17	61.09	208	48.26	165	32.18	62.93	215	44.05	150	31.01
50	122	16500	23	73.4	48.44	165	36.33	124	35.78	55.04	188	38.53	131	37.78	56.69	193	30.62	104	36.01
			24	75.2	48.93	167	39.15	134	36.14	55.61	190	40.59	138	38.17	57.27	195	33.79	115	36.37
			27	80.6	49.43	169	40.04	137	35.35	56.17	192	42.69	146	38.17	57.85	197	37.60	128	36.40
			31	87.8	49.92	170	41.93	143	34.27	56.73	194	44.82	153	37.79	58.43	199	40.90	140	36.43
52	126	16500	23	73.4	46.57	159	34.93	119	38.43	52.92	181	37.04	126	40.59	54.51	186	29.43	100	38.68
			24	75.2	47.04	161	37.64	128	38.83	53.46	182	39.03	133	41.00	55.06	188	32.49	111	39.07
			27	80.6	47.52	162	38.49	131	37.98	54.00	184	41.04	140	41.00	55.62	190	36.15	123	39.10
			31	87.8	48.00	164	40.32	138	36.81	54.54	186	43.09	147	40.60	56.18	192	39.32	134	39.13

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	16500	200	113.32	387	31.04	111.10	379	32.33	107.77	368	33.62
6	42.8			103.02	352	29.28	101.00	345	30.50	97.97	334	31.72
1	33.8			66.96	228	27.23	65.65	224	28.37	63.68	217	29.50
-6.0	21.2			57.69	197	24.30	56.56	193	25.32	54.86	187	26.33
-9.5	14.9			51.51	176	21.96	50.50	172	22.88	48.99	167	23.79

Model: GK-H30TC/NaA-M(L), GK-H30TC/NaA1-M(L)

Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	16500	23	73.4	102.45	350	76.84	262	34.86	116.42	397	81.50	278	36.50	119.92	409	64.76	221	35.11
			24	75.2	103.50	353	82.80	283	35.22	117.61	401	85.86	293	36.87	121.14	413	71.47	244	35.46
			27	80.6	104.54	357	84.68	289	34.69	118.80	405	90.29	308	38.77	122.36	418	79.54	271	35.56
			31	87.8	105.59	360	88.70	303	33.63	119.99	409	94.79	323	36.75	123.59	422	86.51	295	35.66
35	95	16500	23	73.4	93.14	318	69.85	238	40.31	105.84	361	74.09	253	42.57	109.02	372	58.87	201	40.56
			24	75.2	94.09	321	75.27	257	40.72	106.92	365	78.05	266	43.00	110.13	376	64.98	222	40.98
			27	80.6	95.04	324	76.98	263	39.83	108.00	368	82.08	280	43.00	111.24	380	72.31	247	41.01
			31	87.8	95.99	328	80.63	275	38.60	109.08	372	86.17	294	42.58	112.35	383	78.65	268	41.04
46	115	16500	23	73.4	64.89	221	48.67	166	33.41	73.74	252	51.61	176	35.28	75.95	259	41.01	140	33.62
			24	75.2	65.55	224	52.44	179	33.75	74.49	254	54.38	186	35.64	76.72	262	45.27	154	33.96
			27	80.6	66.21	226	53.63	183	33.01	75.24	257	57.18	195	36.00	77.50	264	50.37	172	33.99
			31	87.8	67.54	230	56.73	194	32.31	76.74	262	60.63	207	35.64	79.05	270	55.33	189	34.35
50	122	16500	23	73.4	54.04	184	40.53	138	34.68	61.41	210	42.99	147	36.63	63.26	216	34.16	117	34.90
			24	75.2	54.60	186	43.68	149	35.04	62.04	212	45.29	155	37.00	63.90	218	37.70	129	35.26
			27	80.6	55.15	188	44.67	152	34.27	62.67	214	47.63	163	37.00	64.55	220	41.96	143	35.29
			31	87.8	55.70	190	46.79	160	33.22	63.29	216	50.00	171	36.64	65.19	222	45.63	156	35.31
52	126	16500	23	73.4	48.29	165	36.22	124	35.15	54.88	187	38.42	131	37.12	56.53	193	30.52	104	35.38
			24	75.2	48.79	166	39.03	133	35.51	55.44	189	40.47	138	37.50	57.10	195	33.69	115	35.74
			27	80.6	49.28	168	39.92	136	34.74	56.00	191	42.56	145	37.50	57.68	197	37.49	128	35.76
			31	87.8	49.77	170	41.81	143	33.67	56.56	193	44.68	152	37.13	58.26	199	40.78	139	35.79

Outdoor Air WBT		Air Flow Rate	ESP	Indoor Air DBT °F (°C)								
				60.8 °F (16°C)			68 °F (20°C)			75.2 °F (24°C)		
				Total Capacity		Power Input	Total Capacity		Power Input	Total Capacity		Power Input
°C	°F	m³/h	Pa	kW	Mbh	kW	kW	Mbh	kW	kW	Mbh	kW
9	48.2	16500	125	143.62	490	38.67	140.80	480	40.28	136.58	466	41.89
6	42.8			130.56	445	36.48	128.00	437	38.00	124.16	424	39.52
1	33.8			84.86	290	33.93	83.20	284	35.34	80.70	275	36.75
-6.0	21.2			73.11	249	30.28	71.68	245	31.54	69.53	237	32.80
-9.5	14.9			65.28	223	27.36	64.00	218	28.50	62.08	212	29.64

ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-C30TH/NaA-M(L)

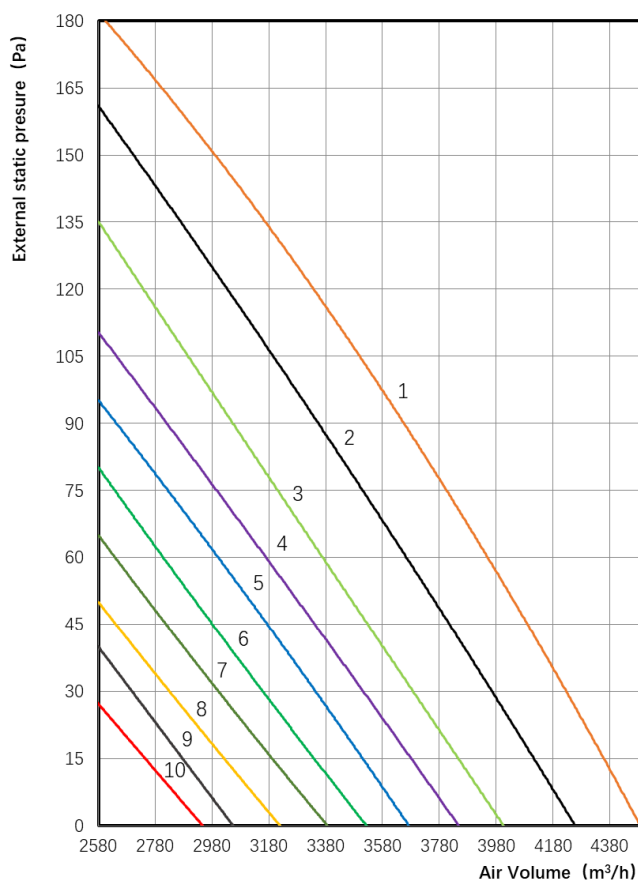
Outdoor Air DBT		Air Flow Rate	Entering Air DBT		Indoor Air Wet Bulb Temperature °F (°C)														
					62 °F (17°C)					67 °F (19°C)					72 °F (22°C)				
					Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input	Total Capacity		Sensible Capacity		Power Input
°C	°F	m³/h	°C	°F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
25	77	18500	23	73.4	99.61	340	74.71	255	27.57	113.19	386	79.23	270	28.86	116.59	398	62.96	215	27.76
			24	75.2	100.62	343	80.50	275	27.85	114.35	390	83.47	285	29.15	117.78	402	69.49	237	28.04
			27	80.6	101.64	347	82.33	281	27.43	115.50	394	87.78	300	30.66	118.97	406	77.33	264	28.12
			31	87.8	102.66	350	86.23	294	26.59	116.66	398	92.16	314	29.06	120.15	410	84.11	287	28.19
35	95	18500	23	73.4	90.55	309	67.91	232	31.87	102.90	351	72.03	246	33.66	105.99	362	57.23	195	32.07
			24	75.2	91.48	312	73.18	250	32.20	103.95	355	75.88	259	34.00	107.07	365	63.17	216	32.40
			27	80.6	92.40	315	74.84	255	31.49	105.00	358	79.80	272	34.00	108.15	369	70.30	240	32.43
			31	87.8	93.32	318	78.39	267	30.52	106.05	362	83.78	286	33.67	109.23	373	76.46	261	32.45
46	115	18500	23	73.4	74.28	253	55.71	190	33.41	84.41	288	59.09	202	35.28	86.94	297	46.95	160	33.62
			24	75.2	75.04	256	60.03	205	33.75	85.27	291	62.25	212	35.64	87.83	300	51.82	177	33.96
			27	80.6	75.79	259	61.39	209	33.01	86.13	294	65.46	223	36.00	88.71	303	57.66	197	33.99
			31	87.8	77.31	264	64.94	222	32.31	87.85	300	69.40	237	35.64	90.49	309	63.34	216	34.35
50	122	18500	23	73.4	65.25	223	48.94	167	34.68	74.15	253	51.91	177	36.63	76.38	261	41.24	141	34.90
			24	75.2	65.92	225	52.74	180	35.04	74.91	256	54.68	187	37.00	77.16	263	45.52	155	35.26
			27	80.6	66.59	227	53.94	184	34.27	75.67	258	57.51	196	37.00	77.94	266	50.66	173	35.29
			31	87.8	67.25	229	56.49	193	33.22	76.42	261	60.37	206	36.64	78.72	269	55.10	188	35.31
52	126	18500	23	73.4	60.37	206	45.28	154	35.15	68.60	234	48.02	164	37.12	70.66	241	38.16	130	35.38
			24	75.2	60.98	208	48.79	166	35.51	69.30	236	50.59	173	37.50	71.38	244	42.11	144	35.74
			27	80.6	61.60	210	49.90	170	34.74	70.00	239	53.20	182	37.50	72.10	246	46.87	160	35.76
			31	87.8	62.22	212	52.26	178	33.67	70.70	241	55.85	191	37.13	72.82	248	50.97	174	35.79

Notices:

- ◆ DBT: Dry Bulb Temperature
- ◆ WBT: Wet Bulb Temperature
- ◆ TC: Total Cooling Capacity
- ◆ SCC: Sensible Cooling Capacity
- ◆ PI: Power Input

6 AIR VOLUME STATIC PRESSURE CURVE

Model: GK-H5.5TH/NaA-X(L),GK-H6.2TH/NaA-X(L)

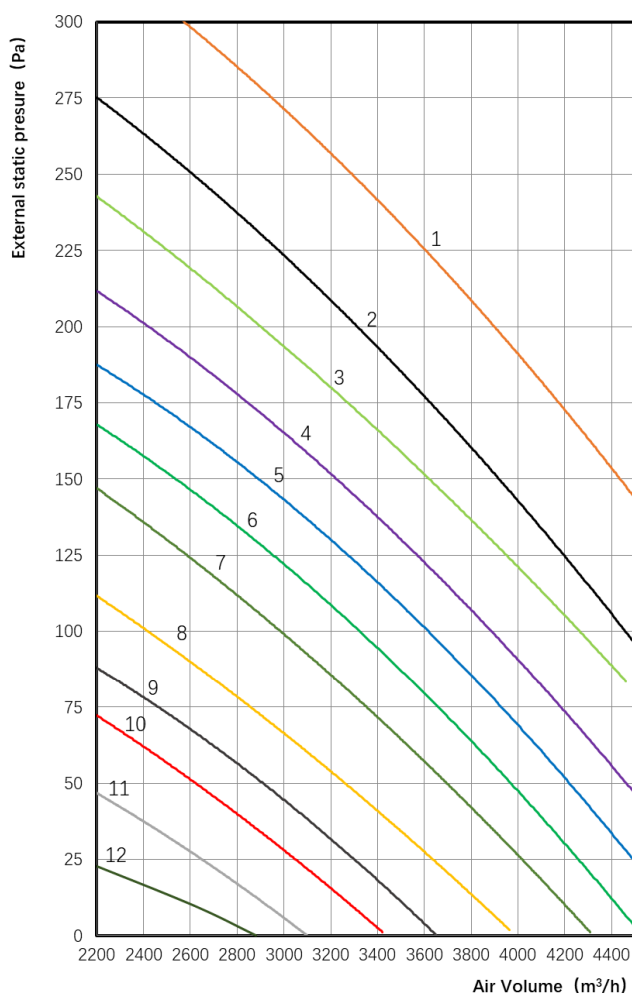


The corresponding curves of rotating speed in different static pressure modes are as follows:

Static pressure mode	SH	H	M	L	Rated air volume static pressure (Pa)	Maximum static pressure (Pa)
P03	5	6	8	10	30	95
P04	4	5	7	9	44	110
P05	3	4	6	8	60	135
P06	2	3	5	6	90	160
P07	1	2	4	6	115	185

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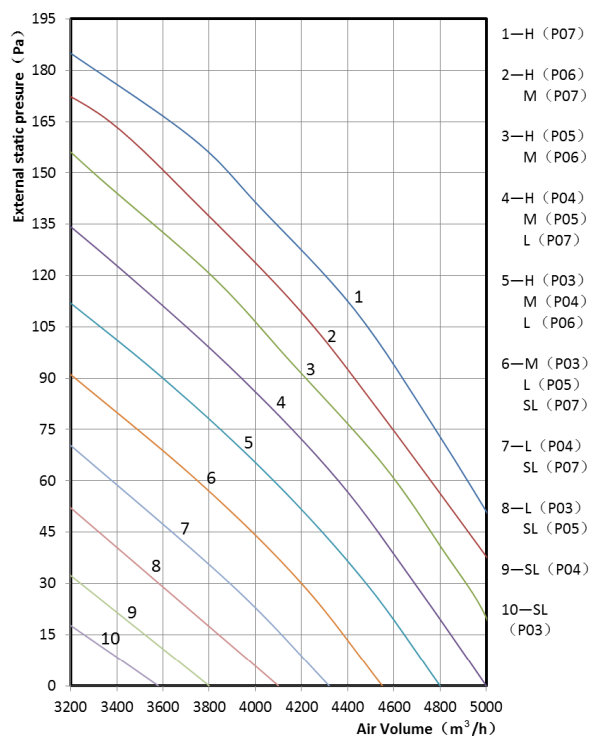
Model: GK-H5.5TH/NaB-X(L)



The corresponding curves of rotating speed in different static pressure modes are as follows:

Static pressure mode	SH	H	M	L	Rated air volume static pressure (Pa)	Maximum static pressure (Pa)
P01	9	11	12	/	25	50
P02	8	10	11	12	50	75
P03	7	9	10	11	75	100
P04	6	8	9	10	100	125
P05	5	7	8	9	125	150
P06	4	6	7	8	150	175
P07	3	5	6	7	175	200
P08	2	4	5	6	200	250
P09	1	3	4	5	250	300

Model: GK-H7.5TH/NaA-X(L)

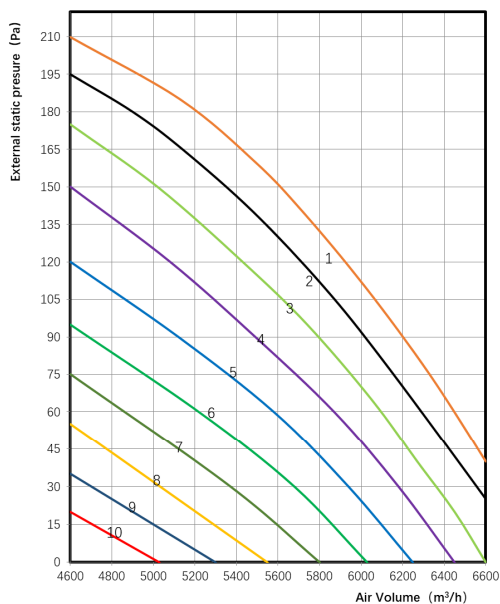


The corresponding curves of rotating speed in different static pressure modes are as follows:

Static pressure mode	H	M	L	SL	Rated air volume static pressure (Pa)	Maximum static pressure (Pa)
P03	5	6	8	10	38	108
P04	4	5	7	9	50	135
P05	3	4	6	8	80	155
P06	2	3	5	6	93	173
P07	1	2	4	6	113	185

ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-H10TH/NaA-X(L)



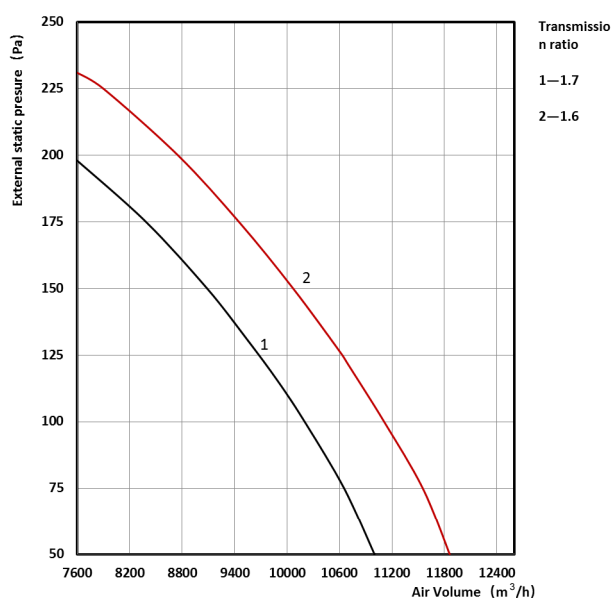
The corresponding curves of rotating speed in different static pressure modes are as follows:

Static pressure mode	H	M	L	SL	Rated air volume static pressure (Pa)	Maximum static pressure (Pa)
P03	5	6	8	10	39	120
P04	4	5	7	9	68	150
P05	3	4	6	8	90	175
P06	2	3	5	6	113	195
P07	1	2	4	6	130	210

Model: GK-H15TH/NaA-M(L)

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 1.7. The belts are matched as follows.

Curve	Transmission ratio	Motor pulley	Fan pulley	Belt	Rated static pressure (Pa)	Static pressure range (Pa)
1	1.7	2-SPA106	2-SPA180	SPA(1700mm)	130	50-200
2	1.6	2-SPA106	2-SPA170	SPA(1682mm)	170	50-230

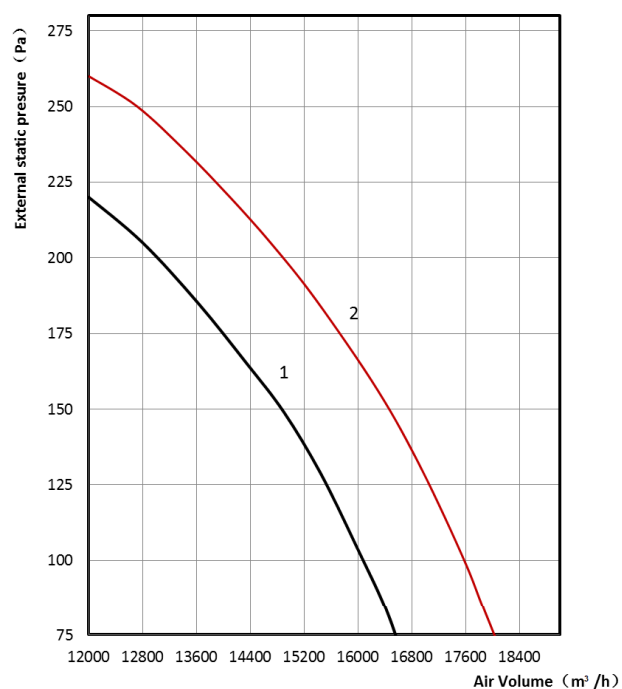


ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-H20TH/NaA-M(L)

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 1.4. The belts are matched as follows.

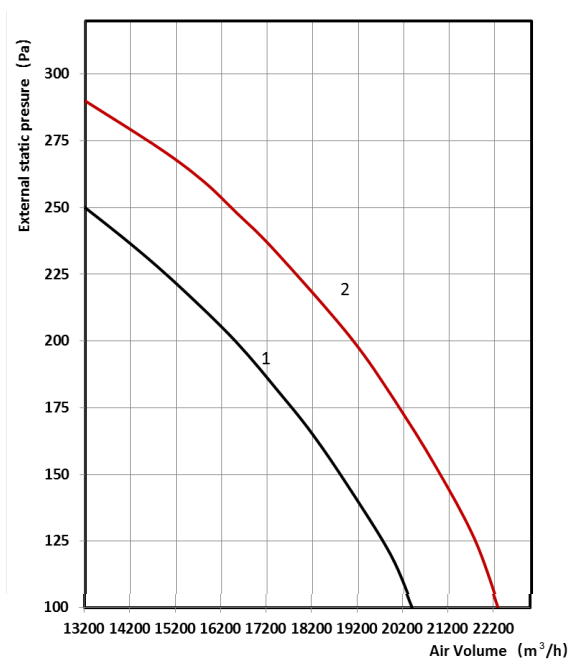
Curve	Transmission ratio	Motor pulley	Fan pulley	Belt	Rated static pressure (Pa)	Static pressure range (Pa)
1	1.4	2-SPA100	2-SPA140	SPA(1432mm)	150	75-220
2	1.3	2-SPA100	2-SPA132	SPA(1400mm)	200	125-260



Model: GK-H25TH/NaA-M(L)

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 1.4. The belts are matched as follows.

Curve	Transmission ratio	Motor pulley	Fan pulley	Belt	Rated static pressure (Pa)	Static pressure range (Pa)
1	1.4	2-SPA112	2-SPA160	SPA(1432mm)	200	100-250
2	1.3	2-SPA112	2-SPA150	SPA(1400mm)	250	150-290

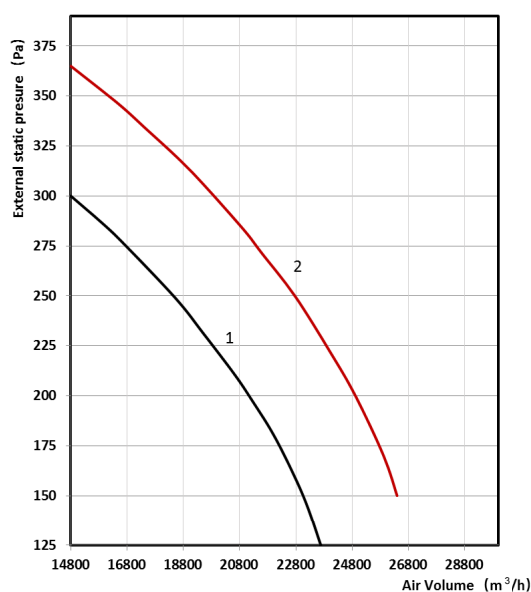


ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-C30TH/NaA-M(L)

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 2.4. The belts are matched as follows.

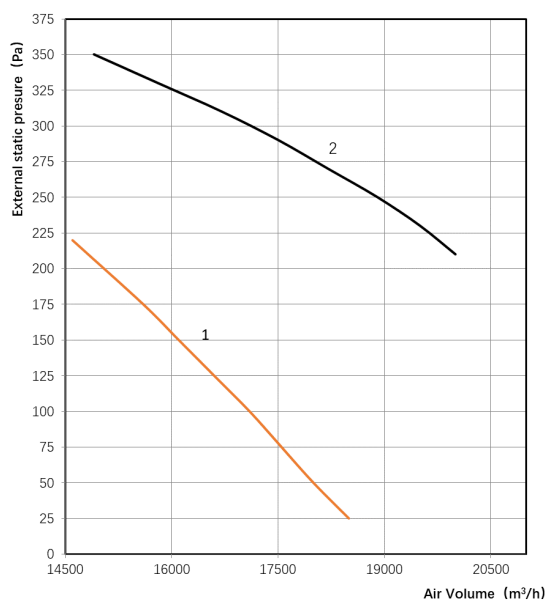
Curve	Transmission ratio	Motor pulley	Fan pulley	Belt	Rated static pressure (Pa)	Static pressure range (Pa)
1	2.4	2-SPA150	2-SPA355	SPA(2432mm)	250	150-300
2	2.1	2-SPA150	2-SPA315	SPA(2382mm)	320	200-365



Model: GK-H30TC/NaA-M(L)

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 2.0. The belts are matched as follows.

Curve	Transmission ratio	Motor pulley	Fan pulley	Belt	Rated static pressure (Pa)	Static pressure range (Pa)
1	2.0	2-SPA125	2-SPA250	SPA(2082mm)	125	25-200
2	1.7	2-SPA150	2-SPA250	SPA(2120mm)	310	200-350

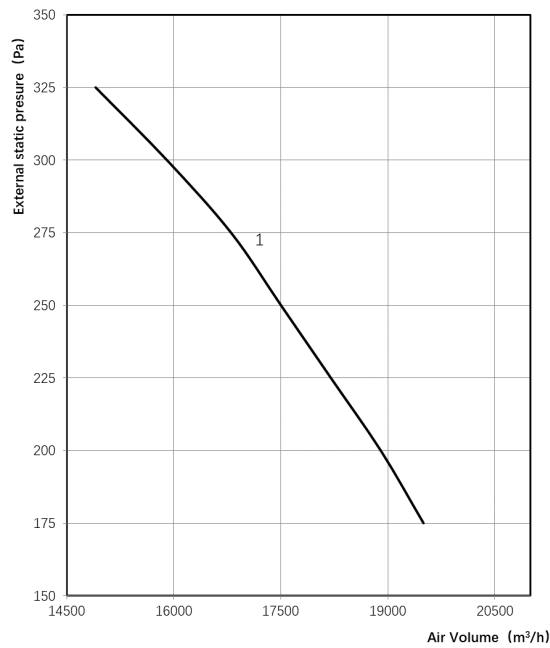


ROOFTOP PACKAGED AIR CONDITIONERS

Model: GK-H30TC/NaA1-M(L)

The unit default transmission ratio is 1.7. The belt is matched as follows.

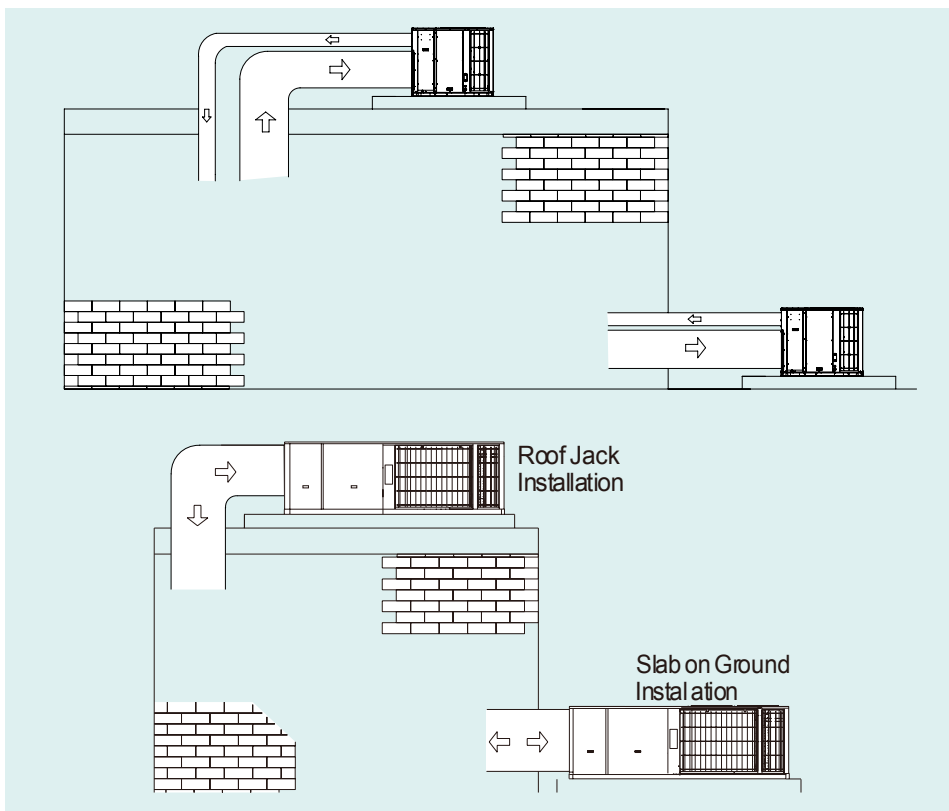
Curve	Transmission ratio	Motor pulley	Fan pulley	Belt	Rated static pressure (Pa)	Static pressure range (Pa)
1	1.7	2-SPA150	2-SPA250	SPA(2120mm)	275	200-350



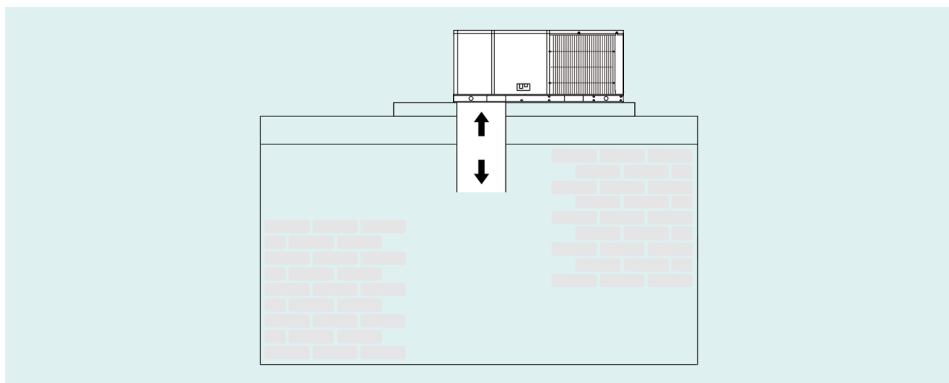
7 CLEARANCE DATA



7.1 Installation Positions



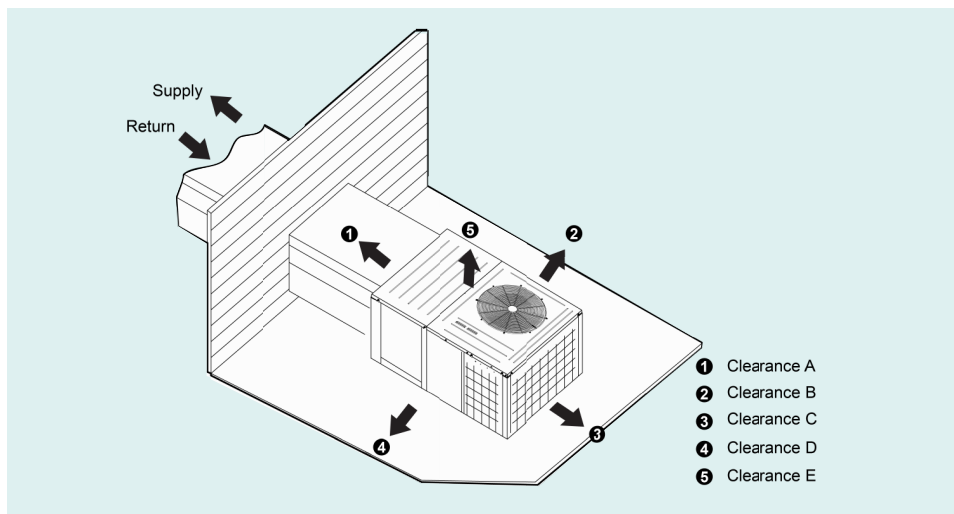
Besides, GK-H30TC/NaA-M(L) and GK-H30TC/NaA1-M(L) also have following return air way.



ROOFTOP PACKAGED AIR CONDITIONERS

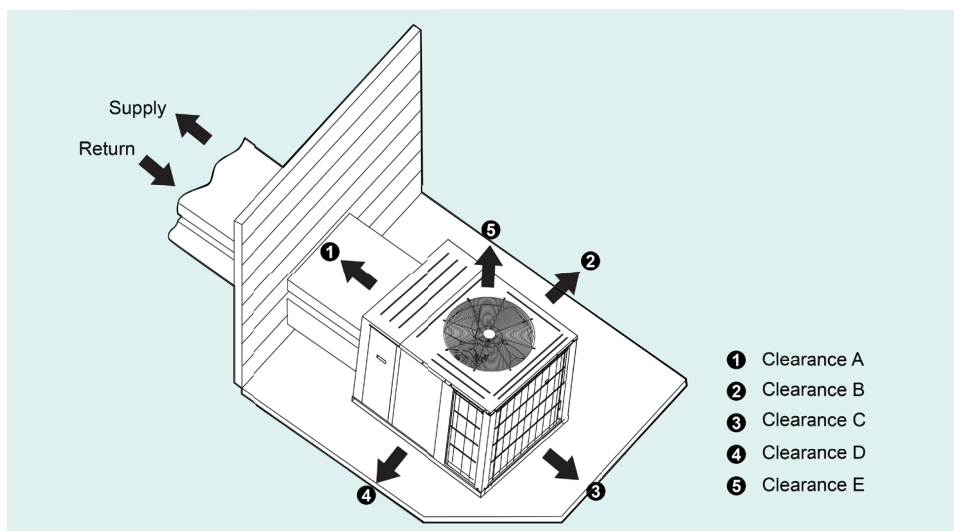


7.2 Installation Clearances

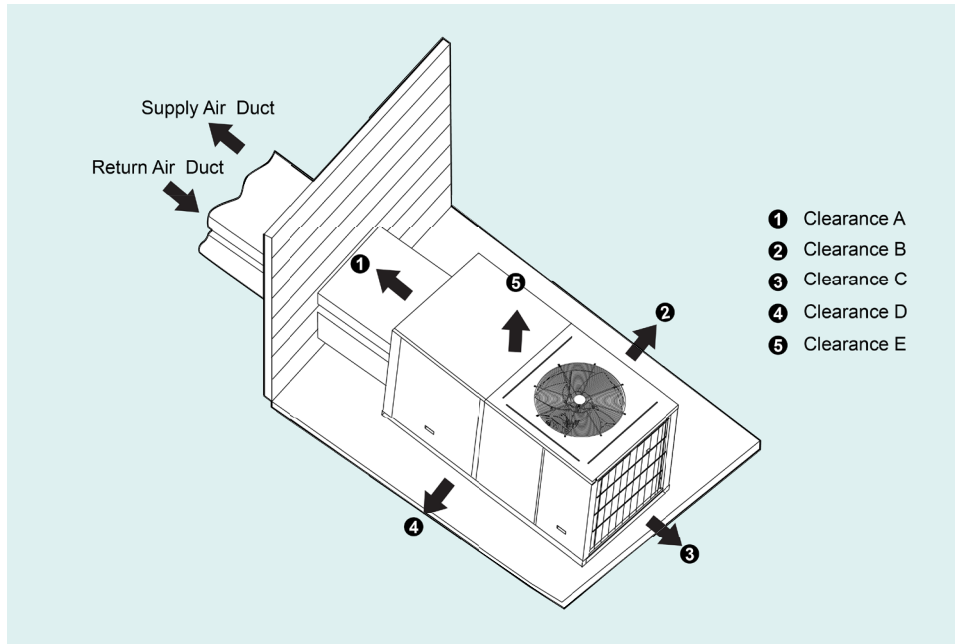


GK-H5.5TH/NaA-X(L), GK-H5.5TH/NaB-X(L), GK-H6.2TH/NaA-X(L)

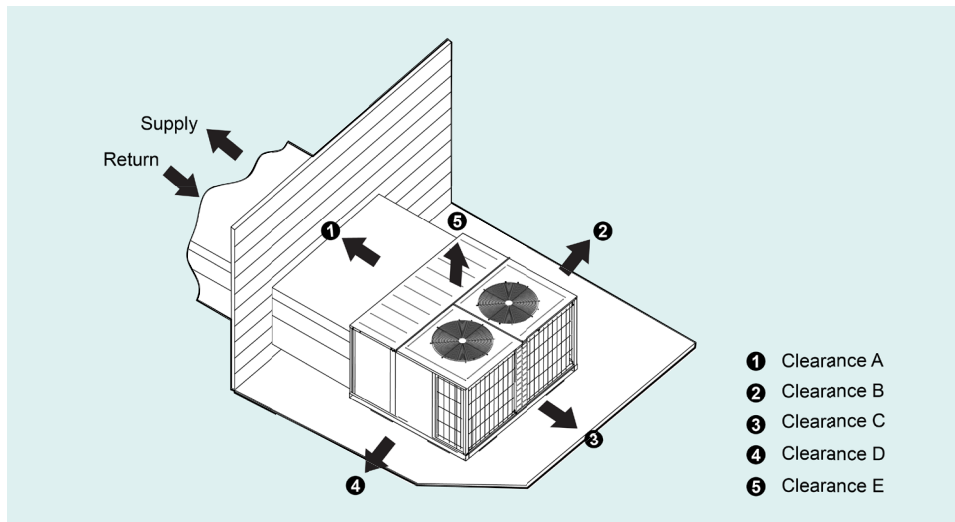
Installation clearances		
Dimension (minimum)	mm	inch
A	600	24
B	1100	43
C	860	34
D	1100	43
E	3000	118



GK-H7.5TH/NaA-X(L), GK-H10TH/NaA-X(L)

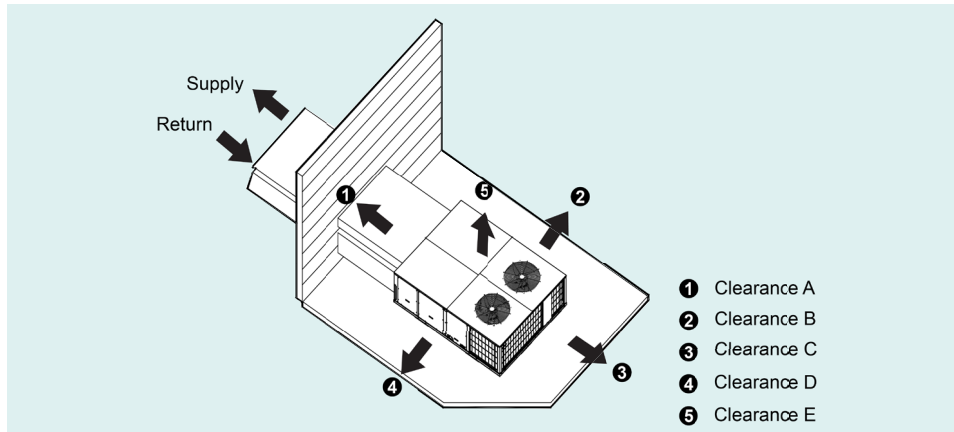


GK-H15TH/NaA-M(L)

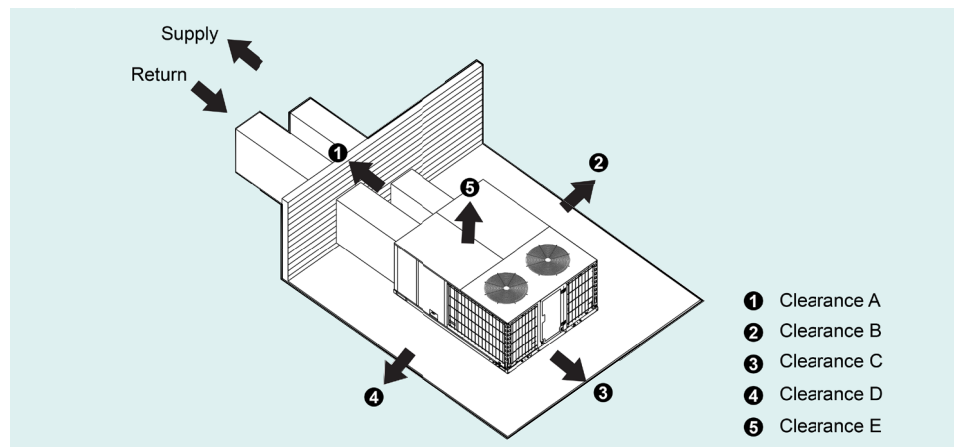


GK-H20TH/NaA-M(L)

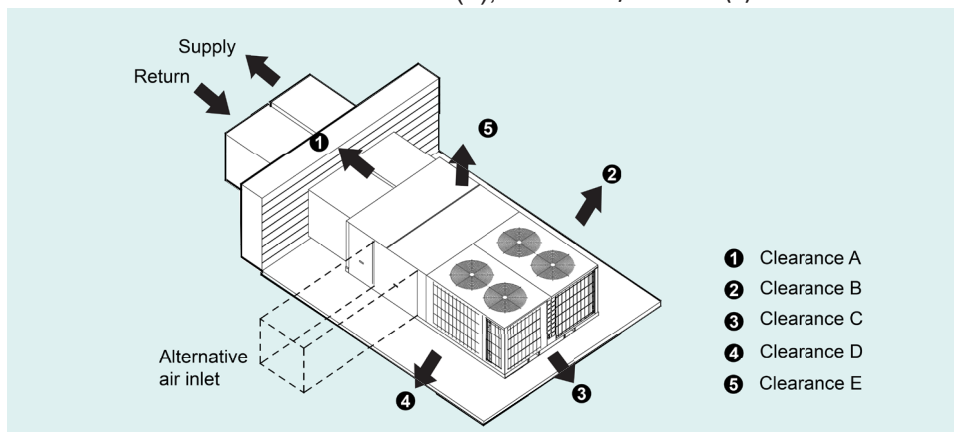
ROOFTOP PACKAGED AIR CONDITIONERS



GK-H25TH/NaA-M(L)



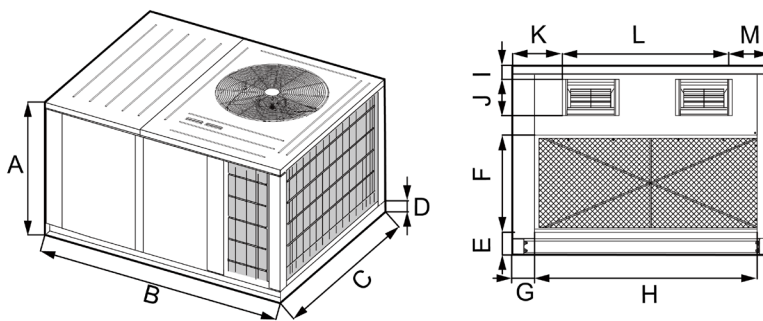
GK-H30TC/NaA-M(L), GK-H30TC/NaA1-M(L)



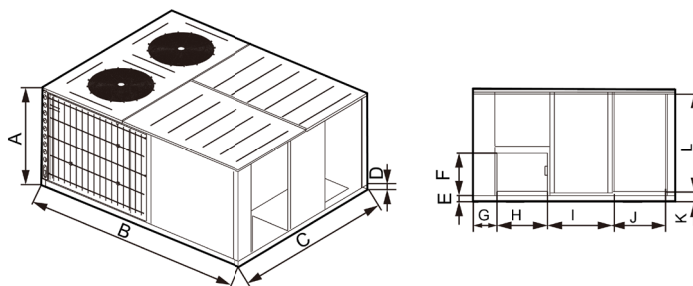
GK-C30TH/NaA-M(L)

Installation clearances		
Dimension (minimum)	mm	inch
A	1000	39
B	1500	59
C	1100	43
D	1100	43
E	3000	118

8 DIMENSIONAL DATA

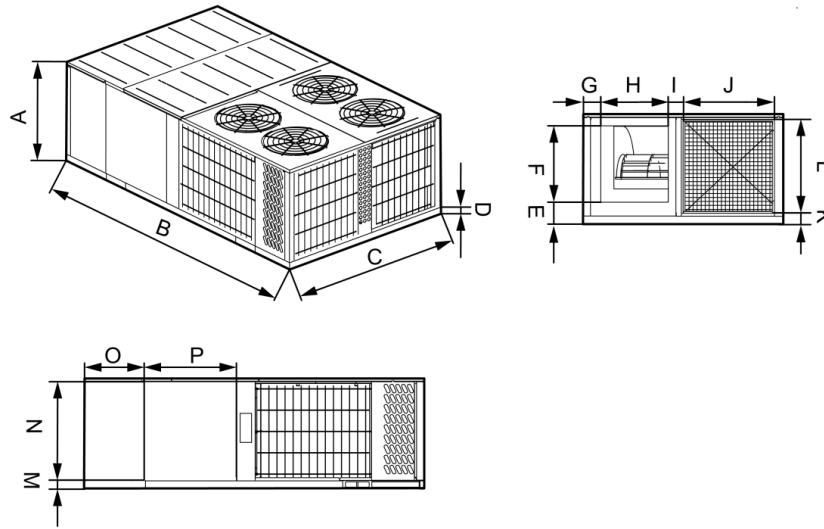


Dimension(mm)	A	B	C	D	E	G	Size of air return		I	K	Size of air supply		M
							F	H			J	L	
GK-H5.5TH/NaA-X(L)	815	1450	1120	70	98	94	417	916	65	144	190	866	105
GK-H5.5TH/NaB-X(L)	815	1450	1120	70	98	94	417	916	65	144	190	866	105
GK-H6.2TH/NaA-X(L)	815	1450	1120	70	98	94	417	916	65	144	190	866	105
GK-H7.5TH/NaA-X(L)	1215	1450	1120	70	98	94	686	916	70	144	190	866	105
GK-H10TH/NaA-X(L)	1215	1450	1120	70	98	94	686	916	70	144	190	866	105
GK-H15TH/NaA-M(L)	1245	2260	1140	80	111	50	595	914	58	298	406	487	349
GK-H20TH/NaA-M(L)	1250	1880	2240	85	115	158	590	2021	45	311	412	1336	588
GK-H25TH/NaA-M(L)	1270	2880	2240	90	138	224	585	1920	71	294	407	1329	610



Dimension(mm)	A	B	C	D	E	G	Size of air supply		I	K	Size of air return	
							F	H			J	L
GK-H30TC/NaA-M(L)	1240	2850	2240	80	129	286	553	623	763	84	563	1126
GK-H30TC/NaA1-M(L)												

ROOFTOP PACKAGED AIR CONDITIONERS

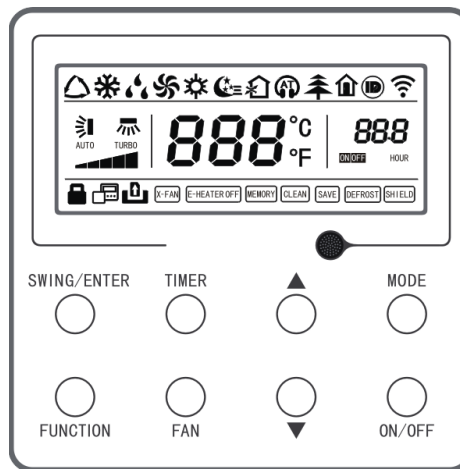


Dimension(mm)	A	B	C	D	E	G	Size of air supply		I	K	Size of air return		M	N	O	P
							F	H			J	L				
GK-C30TH/NaA-M(L)	1250	3800	2240	90	252	192	868	753	169	147	1015	1024	147	1024	664	1035

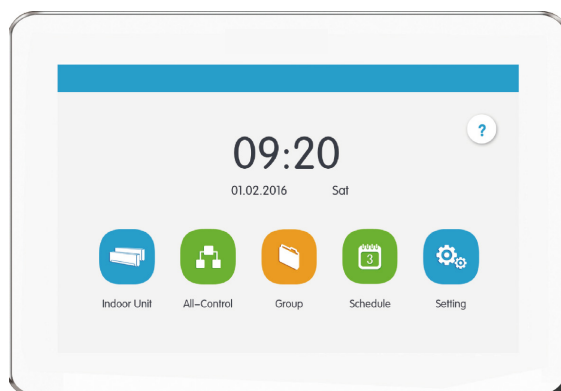
Note: Above diagrams may be different from actual model.

9 CONTROLLER

Wired Controller (Standard)



Central Controller



Modbus Gateway



Dry Contact Gateway

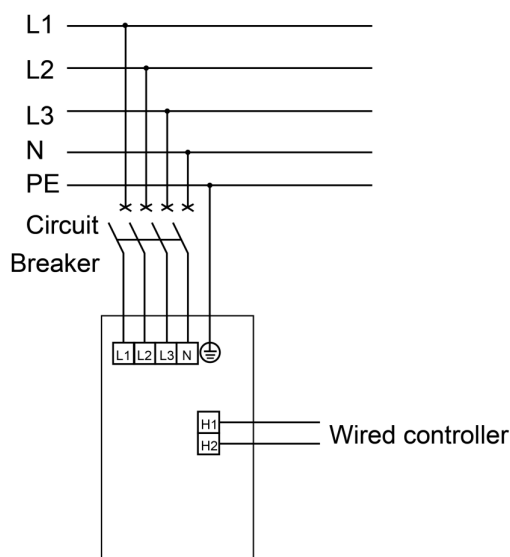


Wireless Remote Controller

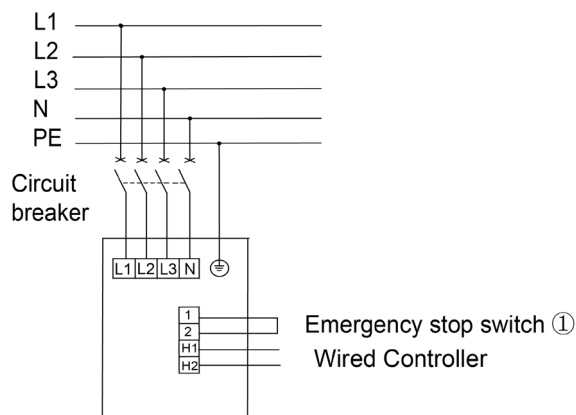


10 ELECTRICAL INSTALLATION

➔ 10.1 Wiring Diagram



Model: GK-H5.5TH/NaA-X(L), GK-H6.2TH/NaA-X(L), GK-H7.5TH/NaA-X(L), GK-H10TH/NaA-X(L), GK-H15TH/NaA-M(L), GK-H20TH/NaA-M(L), GK-H25TH/NaA-M(L), GK-C30TH/NaA-M(L)



Note: ① The factory has been short-circuited, when the user needs to connect the emergency stop switch, please remove the corresponding short-circuit wire

Model: GK-H5.5TH/NaB-X(L), GK-H30TC/NaA-M(L), GK-H30TC/NaA1-M(L)



10.2 Electrical Date and Wire Sizing

Model name	Power supply	Capability of circuit breaker (A)	Min. sectional area of earth wire(mm ²)	Min. sectional area of power cord(mm ²)
GK-H5.5TH/NaA-X(L)	380-415V 3N~ 50/60Hz	25	2.5	2.5
GK-H5.5TH/NaB-X(L)	380-415V 3N~ 50/60Hz	25	2.5	2.5
GK-H6.2TH/NaA-X(L)	380-415V 3N~ 50/60Hz	25	2.5	2.5
GK-H7.5TH/NaA-X(L)	380-415V 3N~ 50/60Hz	32	4.0	4.0
GK-H10TH/NaA-X(L)	380-415V 3N~ 50/60Hz	32	4.0	4.0
GK-H15TH/NaA-M(L)	380-415V 3N~ 50Hz	63	10.0	10.0
GK-H20TH/NaA-M(L)	380-415V 3N~ 50Hz	63	10.0	10.0
GK-H25TH/NaA-M(L)	380-415V 3N~ 50Hz	80	16.0	25.0
GK-H30TC/NaA-M(L)	380-415V 3N~ 50Hz	100	16.0	25.0
GK-H30TC/NaA1-M(L)	380-415V 3N~ 50Hz	100	16.0	25.0
GK-C30TH/NaA-M(L)	380-415V 3N~ 50Hz	80	16.0	25.0

Notice:

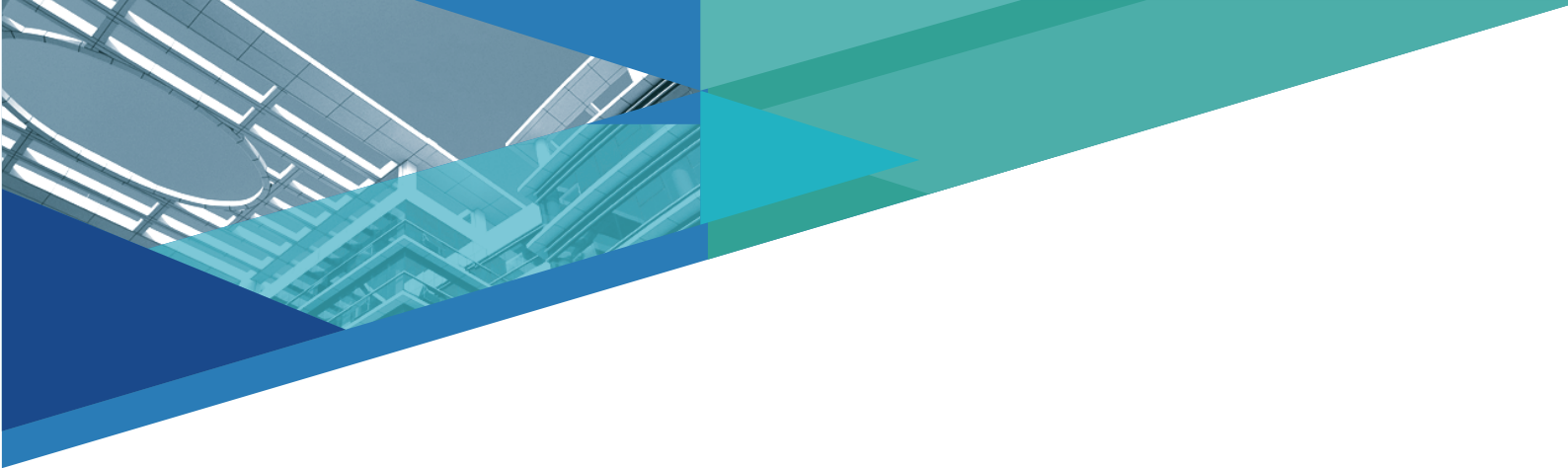
- ◆ An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- ◆ The circuit breaker and power cord specification in above sheet is based on max power (max current) of the unit.
- ◆ The power cord specification in above sheet is based on ambient temperature of 40°C.
- ◆ If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- ◆ The circuit breaker specification in above sheet is based on ambient temperature of 40°C. If the working condition is different, please adjust it according to the specification sheet of circuit breaker.

11 ACCESSORIES

Part Name	Model	Product Code	Model	
			GK-C30TH/NaA-M(L)	Others
Wired Controller	XK117	MC20700730	●	●
Wired Controller	XE70-13/G2	NC20700090	○	○
Wired Controller	XE71-42/G	NC20700080	○	○
Centralized Controller (up to 36 indoor unit)	CE52-24/F(C)	MC207052	○	○
Modbus Gateway	ME50-00/EG(M)	NC20000010	○	○
Electric heating	GKRd36/A-X	EN02000070	○	/

Note:

- ◆ Note: “●” means standard, “○” means optional.
- ◆ Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representative.



Note:

Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

All features and specifications are subject to change without prior notice.

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