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Note:
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GC-1609-02

Distributor information

Gree Electric Appliances Inc. of Zhuhai, founded in 1991, is the world's largest air conditioner enterprise integrating R&D, manufacturing, marketing and service.

- *2012, Gree became the first listed electrical appliances enterprise in China with sales revenue over 16 billion USD (RMB 100 billion).*
- *2013, GREE's sales revenue exceeded 19 billion USD.*

Gree has been ranked on the Fortune Magazine as one of the Top 100 Chinese listed companies for 12 consecutive years.

Thanks to 300 million user's choices, Gree products are sold widely in more than 200 countries and regions. Today Gree's annual production capacity of RAC and CAC are more than 60 million sets and 5.5 million sets respectively.

Action makes the future and innovation makes achievement. Looking forward, Gree will firmly persist in the business philosophy of passion, innovation and realization. We aim to build a century's standing air conditioning enterprise, to create a better life for human.

For the Clearer Sky and Greener Earth.

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Free Match

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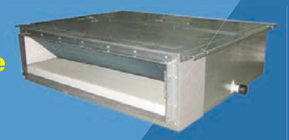


Console type

What is Free-match

It's a kind of DC inverter multi-split air conditioner that consists of 1~5 indoor units.

Free Match vs. Residentail AC

Free Match	Residential AC
1 outdoor unit can connect up to 5 indoor units.	1 outdoor unit can connect 1 indoor unit only.
Cost-saving for installation.	High cost for installation.
Wide range types of indoor units can be selected by users.	Limited types of indoor units can be selected by users.
Space-saving for outdoor unit placement.	Affect the appearance of the whole building with too many outdoor units.
High efficiency for centralized control of all indoor units.	Low efficiency for the individual control of different indoor units.

Applicable Places

Applicable for medium and small size supermarkets, chain stores, hotels, restaurants, offices, meeting rooms, and especially for domestic uses.

Free Combinations

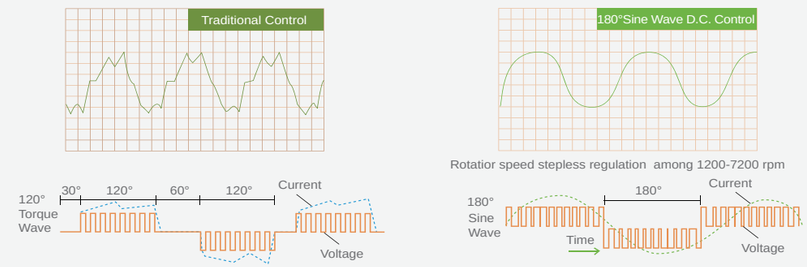
Various series of indoor units from wall-mounted type to duct type can satisfy different kinds of requirements.

Any kinds of Combinations you want. Max. 5 indoor units for 42K Btu/h outdoor units.

High Efficiency and More Energy-saving

More Energy-saving

Adopt advanced DC inverter 180º vector control driving technology for stable operation of compressor. The harmonic wave for DC inverter compressor is smaller than that of normal inverter compressor, more energy-saving. In view of statistics, DC inverter air conditioner can save 20% energy every year compared with normal air conditioner.

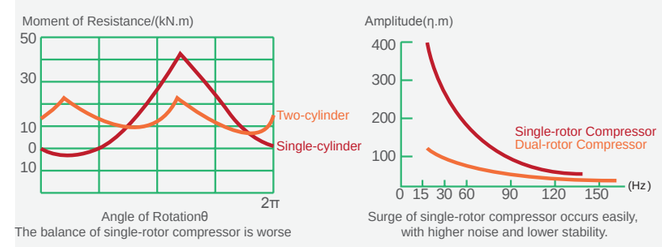


Stepless Adjustment

The system output can be adjusted among 10%~100% according to the requirement of user and the operation frequency can be adjusted among 15Hz~110Hz freely, which can improve the comfort and energy-saving efficiency greatly.

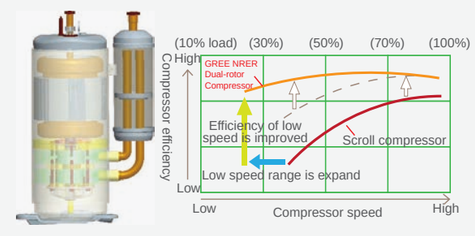
High-efficiency Compressor

The high-efficiency NRER (Non-Rare Earth Reluctance) dual-rotor Inverter Compressor can fully utilize the reluctance torque of the motor for higher torque output. The efficiency can be increase by 5% with same output capacity and the performance of anti-demagnetization is better under high temperature.



Compared with the single-rotor compressor, the dual-rotor compressor overcomes the weakness of the poor balancing performance. Noise and vibration are lower, and stability of low frequency operation is better.

GREE Dual-rotor Compressor VS Single-rotor Compressor



Compared with scroll compressor, the size of dual-rotor compressor is smaller, the weight is only 60% of traditional scroll compressor, the operation frequency range is wider, and efficiency is higher.

GREE Dual-rotor Compressor VS Scroll Compressor

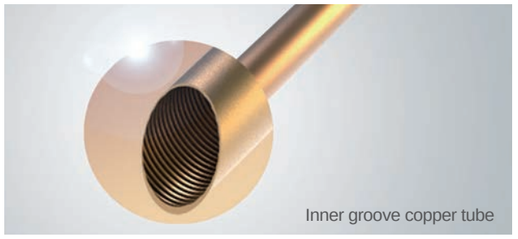
High-efficiency Pipeline System

In order to reduce the noise during the operation of components, dynamic simulation of product component is introduced. The 3D simulation of damping design for the pipelines can efficiently eliminate the hydrodynamic noise of refrigerant for ensuring the quiet operation of the system.

High-efficiency Heat Exchanging Technology

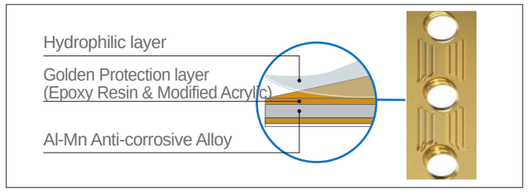
High-efficiency Inner-grooved Copper Tube

Heat exchanging performance is increased with high efficiency inner-grooved design.



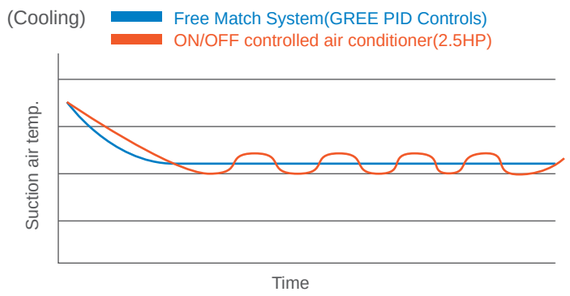
Slit Type Fin with Anti-corrosion Coating

The slit type fin enlarges heat exchange area by 5%. Meanwhile, the anti-corrosive performance in salty-spray testing is 200%~300%, higher than normal blue fin.



Intelligent Control

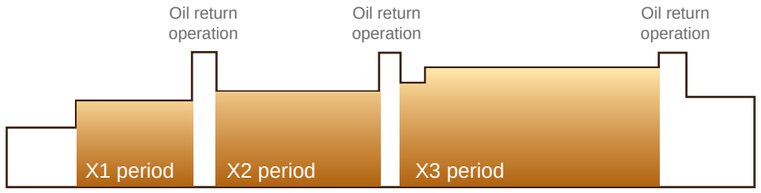
GREE Free Match intelligent control and modulating valves could deliver the required capacity,according to the load variation from 10% to 100%. The intelligent control and modulating valves limit or increase the cooling modulating valves limit or increase the cooling capacity, so humidity and temperature are kept in the comfortable range.Electronic expansion valves respond to the changes in load of indoor units and continually control the flow rate of the refrigerant. In this way, we can get a nearly constant room temperature with the Free Match system without the typical temperature changes that occurs with a conventional ON/OFF control system. The extremely refined PID controls to maintains the room temperature within 0.5℃ of the set temperature.



Safety and Reliability

Intelligent Oil Return

Adopting high efficient oil separator, maximum efficiency of the unit reaches to 99% . With intelligent oil return operation, the system will automatically recover the chilled oil efficiently to ensure lubrication of the compressor.



Error Self-diagnosis

Comprehensive troubleshooting codes can identify the errors occured.

Self diagnostics examples

Error code	Malfunction
E1	High pressure protection of compressor
E2	Indoor anti-frozen protection
E3	Low pressure protection of compressor
E4	Discharge temp. protection of compressor
E5	Compressor overload protection
E6	Communication error
E7	Modes conflict

Adjustable Heating Capacity

Under the low ambient heating (below 0 ℃), the heating capacity of the system can be increased automatically to guarantee a reliable and sufficient heating effect.

Convenient and Comfortable

Energy-saving

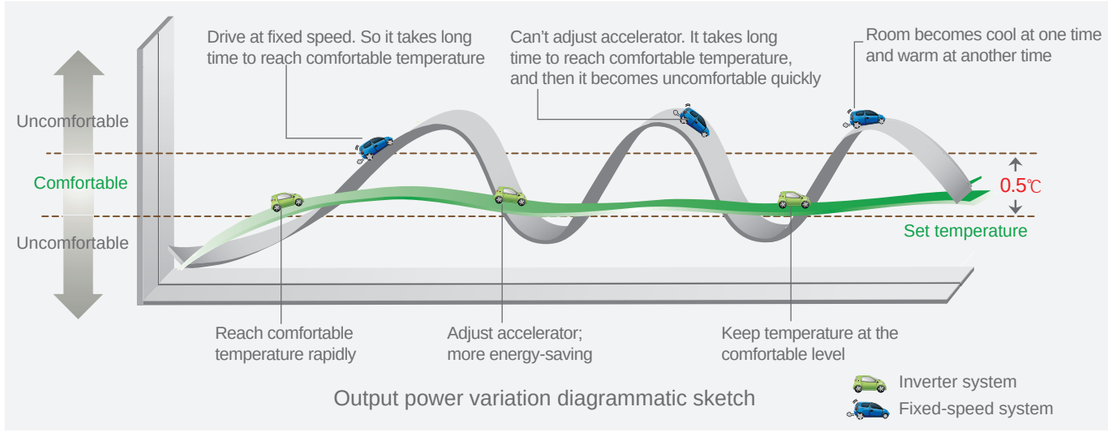
GREE advanced DC inverter 180º vector control ensures the stable operation for compressor, energy-saving up to 20% per year (compared with the normal air conditioner).

Low Noise

The technology also optimizes the sine wave of the compressor and results in smoother motor rotation. Therefore, it can weaken the compressor vibration and peak of pipe stress changes, and lower the noise.

More Comfortable

GREE intelligent inverter control delivers the required capacity according to the load variation from 10% to 100% and maintain the room temperature fluctuation within 0.5℃of set temperature.



Output power variation diagrammatic sketch

Ultra-low Noise Operation

- The unit can automatically adjust the control of outdoor fan motor according to system's parameters so as to make sure the silent mode operation to the maximum.
- New fan blade and fan motor with optimized design are adopted.

Fan and Motor

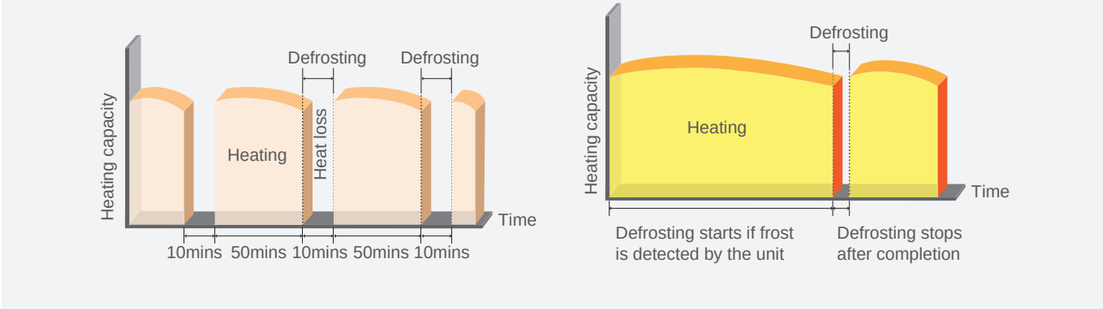
Optimized Fan

Optimized fan reduces the operation noise of the unit, providing comfortable indoor environment.

DC motor

Intelligent Defrosting

Did you ever feel annoying when the air conditioner stopped heating because of defrosting? This problem is already resolved by Free-match unit. It only starts defrosting when it's necessary, more energy-saving and comfortable for you.



Low-temperature Cooling

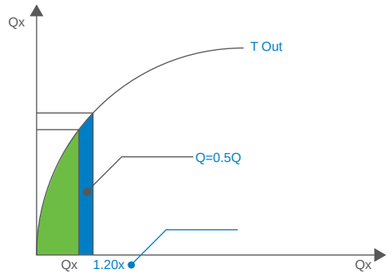
Gree Free Match can satisfy the requirement of low-temperature cooling at special areas. The system controls compressor and fan, and the high/low pressure value can be controlled strictly, which can ensure the cooling effect as well as reliability of system. The unit can operate under cooling mode even the outdoor ambient temperature is as low as -15℃(14K/18K/24K/28K) .

- System targeted control parameter
- Compressor output capacity
- Fan capacity output
- Outdoor ambient temperature
- Stable operation in cool mode

Low-temperature Heating

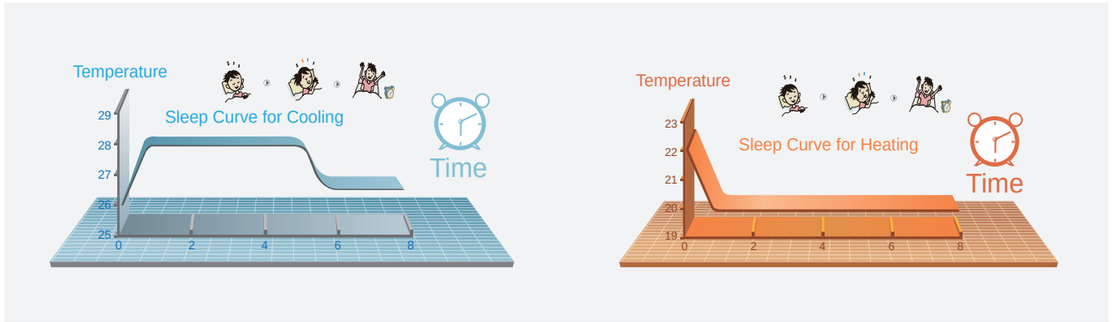
When outdoor ambient temperature is low, system can increase its capacity automatically. Heating capacity can be increased by 1.5 times in maximum, which satisfies user's requirement for comfort to the largest extent.

- Capacity
- Actual output
- Temp
- Output Capacity of Compressor



Sleep Mode

Comfortable Sleep Mode

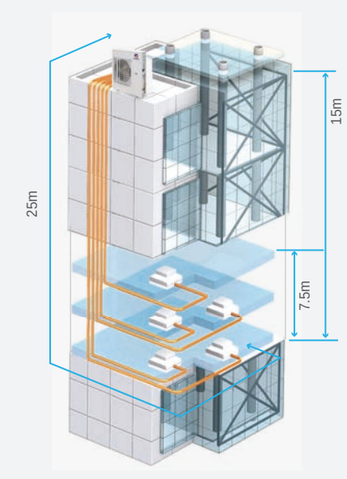


Long Piping for Flexible Installation

Free match provide long piping range for easy and cost-saving application

Max. actual piping length -- 75 meters (42K):75 meters (36 K)
Max. height difference between indoor units – 7.5m
Max. height difference between outdoor and indoor units –15m
Max. piping length from outdoor to the farthest indoor unit – 25 meters (42K):20 meters (36K)

* This value can be used whether outdoor unit is located under or above indoor unit.



Product Lineup

Free Match 2(Space Saving)

Capacity range from 14K to 42K Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.

Various Combinations — Different units for selection, the same comfortable feeling for you.

G1O Inverter Technology — Less power consumption
Lower noise, more comfort
Precise temperature control

-15℃ Low Temperature Operation — Operate stably when heating at -15℃.

High efficiency | Intelligent defrosting | Comprehensive protection | Compact design | Easier maintainability | Inner groove copper | Turbo function

Self-diagnosis | Low voltage startup | Wide operation range | Memory function | Wide voltage range | 24 hour timer

Item	Nominal operating condition(temperature)				Operation range(temperature)	
	Outdoor condition		Indoor condition		Outdoor condition	
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	DB(℃)	
Cooling	35	24	27	19	-15~48	-5~48(36K/42K)
Heating	7	6	20	15	-20~24	-15~27(36K/42K)

Indoor Unit Lineup

Capacity Index(Btu/h)			7000	9000	12000	18000	21000	24000
Wall-mounted type	U-cool		●	●	●	●		
	Viola		●	●	●	●		
	Cozy		●	●	●	●		
	Change		●	●	●	●		
Duct type				●	●	●	●	●
Cassette type					●	●		●
Console type				●	●	●		
Floor ceiling type				●	●	●		●

Combinations of Outdoor Unit

8 Combinations

GWHD(14)NK3BO

One unit	Two units	
7	7+7	7+9
9	7+12	9+9
12	9+12	-

8 Combinations

GWHD(18)NK3DO(1 to 2)

One unit	Two units	
7	7+7	7+9
9	7+12	9+9
12	9+12	-

10 Combinations

GWHD(24)NK3DO(2)

One units	Two units
7+7	7+9
7+12	7+18
9+9	9+12
9+18	12+12
12+18	-

23 Combinations

GWHD(24)NK3EO(2 to 3)

Two units		Three units	
7+7	7+9	7+7+7	7+7+12
7+12	7+18	7+9+9	7+9+12
9+9	9+12	7+12+12	9+9+9
9+18	12+12	9+9+18	9+12+12
12+18	18+18	-	-

39 Combinations

GWHD(28)NK3BO(2 to 4)

Two units		Three units			Four units	
7+7	7+9	7+7 +7	7+7+9	7 +7+12	7+7+7+9	7+7+7+12
7+12	7+18	7+7 +18	7+9+9	7+9 +12	7+7+9+9	7+7+9+12
9+9	9+12	7+9 +18	7+12+12	7+12 +18	7+7+12+12	7+9+9+9
9+18	12+12	9+9 +9	9+9+12	9+9 +18	9+9+9+9	9+9+9+12
12+18	18+18	9+12+12	9+12+18	12+12+12	7+7+7+7	7+7+7+18
-	-	12+12+18	-	-	7+7+9+18	7+9+9+12
-	-	-	-	-	9+9+12+12	-

98 Combinations

GWHD(36)NK3AO(2 to 4)

Two units		Three units			Four units		
7+7	12+21	7+7+7	7+12+21	9+12+21	7+7+7+7	7+7+12+21	9+9+9+9
7+9	12+24	7+7+9	7+12+24	9+12+24	7+7+7+9	7+7+18+18	9+9+9+12
7+12	18+18	7+7+12	7+18+18	9+18+18	7+7+7+12	7+9+9+9	9+9+9+18
7+18	18+21	7+7+18	7+18+21	9+18+21	7+7+7+18	7+9+9+12	9+9+9+21
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12+18	-	7+12+18	9+12+18	18+18+18	7+7+12+18	7+12+12+18	-

203 Combinations

GWHD(42)NK3AO(2 to 5)

Two units	Three units			Four units			Five units		
7+7	7+7+7	9+9+21	18+18+24	7+7+7+7	7+9+9+24	9+9+12+12	7+7+7+7+7	7+7+9+12+21	9+9+9+9+18
7+9	7+7+9	9+9+24	18+21+21	7+7+7+9	7+9+12+12	9+9+12+18	7+7+7+7+9	7+7+9+12+24	9+9+9+9+21
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18+24	7+18+24	12+18+21	-	7+7+18+24	7+12+21+21	12+12+12+18	7+7+9+9+9	7+9+12+12+12	-
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-	9+9+9	12+24+24	-	7+9+9+12	9+9+9+18	12+12+18+21	7+7+9+9+24	7+12+12+12+18	-
-	9+9+12	18+18+18	-	7+9+9+18	9+9+9+21	-	7+7+9+12+12	9+9+9+9+9	-
-	9+9+18	18+18+21	-	7+9+9+21	9+9+9+24	-	7+7+9+12+18	9+9+9+9+12	-

Outdoor Unit

Model			GWHD(14)NK3BO	GWHD(18)NK3DO	GWHD(24)NK3DO	GWHD(24)NK3EO	GWHD(28)NK3BO	GWHD(36)NK3AO	GWHD(42)NK3AO
Capacity	Heat Pump Cooling	BTU/h	14000	17000	24000	24000	27296	33400	41285
	Heating	BTU/h	15000	19000	26000	29000	32000	37500	44356
EER/C.O.P.		W/W	3.57/3.81	3.23/3.63	3.21/3.41	3.21/3.62	3.23/3.63	3.23/3.65	3.37/3.66
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Power input	Cooling	W	1150	1550	2180	2200	2480	3030	3590
	Heating	W	1180	1540	2260	2350	2550	3010	3545
Refrigerant charge volume		kg	1.4	1.4	2.2	2.2	2.4	4.3	4.8
Air flow volume		m³/h	2600	2600	3300	3300	3300	3000	5500
Sound pressure level		dB(A)	56	56	58	58	59	54	54
Dimension (WxHxD)	Outline	mm	899x596x378	899x596x378	955x700x396	955x700x396	955x700x396	950x840x412	1015x1103x440
	Package	mm	948x645×420	948x645×420	1029x750x458	1029x750x458	1029x750x458	1103x920x453	1158x1235x493
Net weight/Gross weight		kg	43/48	43/48	59/64	59/64	60/65	94/104	102/112
Connecting pipe diameter	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)
Max. equivalent connection pipe length		m	20	20	60	60	70	70	70
Maximum drive IDU NO.		unit	2	2	2	3	4	4	5
Loading quantity	40'GP/40'HQ	set	204/272	204/172	171/171	171/171	171/171	108/108	48/96

Note:
Outdoor unit for 36K BTU/h has 4 sets of piping connection:
①Φ15.9mm(Gas), Φ9.52mm(Liquid); ②Φ12.7mm(Gas),Φ6.35mm(Liquid); ③Φ9.52mm(Gas),Φ6.35mm(Liquid);④Φ9.52mm(Gas),Φ6.35mm(Liquid).
Outdoor unit for 42K BTU/h has 5 sets of piping connection:
①Φ15.9mm(Gas), Φ9.52mm(Liquid); ②Φ12.7mm(Gas),Φ6.35mm(Liquid); ③Φ9.52mm(Gas),Φ6.35mm(Liquid); ④Φ9.52mm(Gas),Φ6.35mm(Liquid); ⑤Φ9.52mm(Gas), Φ6.35mm(Liquid).

Wall-mounted Type Indoor Unit

U-cool

Model			GWH(07)UA-K3DNA1A/I*	GWH(09)UA-K3DNA1A/I	GWH(12)UB-K3DNA1A/I	GWH(18)UC-K3DNA1A/I
Capacity	Cooling	BTU/h	7165	9000	12000	18000
	Heating	BTU/h	8871	9800	13000	19200
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	450	450	560	850
		CFM	265	265	330	500
Sound pressure level(SH/H/MH/M/ML/L/SL)		dB(A)	37/35/30/26	38/34/32/29/27/25/22	39/36/34/31/28/25/23	44/40/37/35/33/31/28
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)
	Liquid	inch(mm)	1/4"(φ6.35)	1/4"(φ6.35)	1/4"(φ6.35)	1/4"(φ6.35)
Dimension (W×H×D)	Outline	mm	860×299×153	860×299×153	896×320×159	998×340×178
	Package	mm	944×247×386	944×247×386	973×255×403	1083×283×428
Net weight/Gross weight		kg	9.5/12.5	9.5/12.5	10.0/13.0	14.0/17.0
Loading quantity	20'GP	set	324	324	279	216
	40'GP/40'HQ	set	666/776	666/776	597/662	443/498

*: This model can not match with 36/42K outdoor unit.

Cozy

Model			GWH(07)MA-K3DNA3B/I*	GWH(09)MA-K3DNA3B/I	GWH(12)MB-K3DNA3B/I	GWH(18)MC-K3DNA3B/I
Capacity	Cooling	BTU/h	7200	8900	11900	18100
	Heating	BTU/h	8900	9600	13000	19800
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	430	500	630	850
		CFM	353	353	500	500
Sound pressure level(H/M/L/SL)		dB(A)	36/34/31/28	37/34/31/28	45/43/37/33	46/43/40/36
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	1/2(φ12.7)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)
Dimension (W×H×D)	Outline	mm	790x265x174	790x265x174	845x275x180	940x298x200
	Package	mm	873x370x251	873x370x251	918x370x258	1013x395x288
Net weight/Gross weight		kg	9/11	9/11	13/16	13/16
Loading quantity	20'GP	set	318	318	248	248
	40'GP/40'HQ	set	724/884	724/884	648/798	539/607

Viola

Model			GWH(07)RA-K3DNA1A/I*	GWH(09)RA-K3DNA1A/I	GWH(12)RB-K3DNA1A/I	GWH(18)RC-K3DNA1A/I
Capacity	Cooling	BTU/h	7200	8900	11900	18100
	Heating	BTU/h	8900	9600	13000	19800
Power supply		Ph/V/Hz	1Ph，220-240V，50Hz	1Ph，220-240V，50Hz	1Ph，220-240V，50Hz	1Ph，220-240V，50Hz
Airflow volume		m³/h	500	500	600	850
		CFM	294	353	353	500
Sound pressure level(H/M/L/SL)		dB(A)	40/37/35/32	40/37/35/32	42/39/36/33	45/42/37/33
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)
Dimension (W×H×D)	Outline	mm	794x264x182	794x264x182	848x274x189	945×298×211
	Package	mm	873x365x258	873x365x258	926x371x267	1013x300x383
Net weight/Gross weight		kg	9/11.5	10/12	10/12	13/17
Loading quantity	20'GP	set	348	312	312	248
	40'GP/40'HQ	set	734/824	734/824	643/749	539/607

Change

Model			GWH(07)KF-K3DNA5D/I*	GWH(09)KF-K3DNA5D/I	GWH(12)KF-K3DNA5D/I	GWH(18)KG-K3DNA5D/I
Capacity	Cooling	BTU/h	7200	8900	11900	18100
	Heating	BTU/h	8900	9600	13000	19800
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	550	600	680	800
		CFM	353	353	400	470
Sound pressure level(H/M/L/SL)		dB(A)	41/38/30/24	41/38/30/24	42/39/31/25	45/40/37/32
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)
Dimension (W×H×D)	Outline	mm	770×201×283	770×201×283	770×201×283	865×215×305
	Package	mm	855×280×360	855×280×360	844x342x261	948×310×383
Net weight/Gross weight		kg	8/10	8/11	9/12.5	12/16
Loading quantity	20'GP	set	328	335	335	264
	40'GP/40'HQ	set	700/786	700/786	700/786	542/616

*: This model can not match with 36/42K outdoor unit.

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BA-K3DNA1A/I
Capacity	Cooling	BTU/h	8530	11942	17060	24225
	Heating	BTU/h	9554	13136	18766	27296
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	650	650	950	1250
		CFM	383	383	559	736
Sound pressure level(H/L)		dB(A)	40/36	40/36	45/40	48/44
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(Φ15.88)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)
Dimension (W×H×D)	Outline	mm	1220x700x225	1220×700×225	1220×700×225	1220×700×225
	Package	mm	1343x823x315	1343×823×315	1343x823x315	1343x823x315
Net weight/Gross weight		kg	40/50	40/50	40/50	45/54
Loading quantity	20'GP	set	66	66	66	66
	40'GP/40'HQ	set	132/132	132/132	132/132	132/132

*: This model can not match with 36/42K outdoor unit.

Cassette Type Indoor Unit

Model				GKH(12)BA-K3DNA2A/I	GKH(18)BA-K3DNA2A/I	GKH(24)BA-K3DNA1A/I
Capacity	Cooling		BTU/h	11942	15354	24225
	Heating		BTU/h	13648	17060	27296
Power supply			Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume			m³/h	600	600	1180
			CFM	353	353	694
Sound pressure level(H/L)			dB(A)	46/42	46/42	39/35
Connecting pipe	Gas		inch(mm)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.9)
	Liquid		inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)
Main body	Dimention (W×D×H)	Outline	mm	570x570x230	570x570x230	840×840×240
		Package	mm	851x731x325	851x731x325	963x963x325
Panel	Net weight/Gross weight		kg	18/23	18/23	28/35
	Dimention (W×D×H)	Outline	mm	650×650×50	650×650×50	950×950×60
		Package	mm	733×673×117	733×673×117	1043×1028×130
Loading quantity	Net Weight/Gross weight		kg	2.5/3.5	2.5/3.5	6.5/10
	20'GP		set	102	102	40
	40'GP/40'HQ		set	209/246	209/246	108/128

Duct Type Indoor Unit

Model			GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I
Capacity	Cooling	BTU/h	8530	11942	17060	20472	24230
	Heating	BTU/h	9550	13140	18770	22520	27300
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	450	550	700	1000	1000
		CFM	265	324	412	589	589
Sound pressure level(H/L)		dB(A)	37/31	39/32	41/33	42/34	42/34
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.88)	5/8(φ15.88)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)	3/8(φ9.52)
Dimension (W×D×H)	Outline	mm	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	1123×743×305	1323×743×305	1323×743×305
Net weight/Gross weight		kg	22/27	23/29	27/36	31/41	31/41
Loading quantity	20'GP	set	108	108	90	72	72
	40'GP/40'HQ	set	234/234	234/234	180/180	162/162	162/162

Console Type Indoor Unit*

Model			GEH(09)AA-K3DNA1B/I	GEH(12)AA-K3DNA1B/I	GEH(18)AA-K3DNA1B/I
Function			Cooling/Heating	Cooling/Heating	Cooling/Heating
Capacity	Cooling	Btu/h	8900	11900	18100
	Heating	Btu/h	9600	13000	19800
Airflow Volume		m³/h	480	550	650
Sound Pressure Level(SH/H/MH/M/ML/L/SL)		dB(A)	40/38/36/33/30/26/24	42/40/38/37/35/32/26	48/46/44/41/37/35/32
Outline Dimension	WxHxD	mm	700x600x215	700x600x215	700x600x215
Package Dimension	WxHxD	mm	788x697x283	788x697x283	788x697x283
Net Weight /Gross Weight		kg	15/18	15/18	15/18
Loading Quantity	40'GP	sets	392	392	392
	40'HQ	sets	454	454	454

*: This series can be match 36/42K outdoor units only.

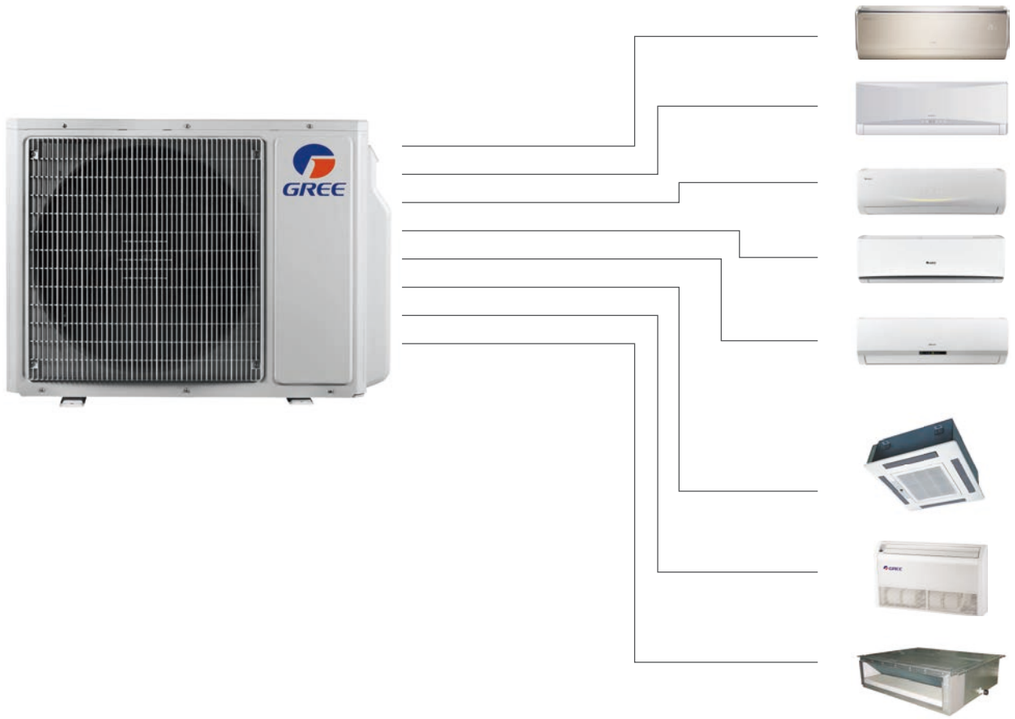
Control System Lineup

Controlling system			Product series: Wall-mounted Type: U-Cool	Viola	Cozy	Change	Duct type	Cassette type	Floor ceiling type	Console type
Wireless remote controller	YAA1FB1		●							●
	YAA1FB			●						
	YT1F(XFAN)				●					
	YB1F2 (XFAN)					●				
	YT1F(MOTO)						●	●	●	
Wired controller	XK19						●	●	●	
Centralized controller	CE50-24/E						○	○	○	

Note: ● means standard, ○ means optional.

Free-match 4

Capacity range from 14K Btu/h to 42K Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.



High efficiency | Intelligent Defrosting | Comprehensive protection | Compact design | Easier maintainability | Inner groove copper | 'Turbo' Button | Self-Diagnosis | Low voltage startup | Timer

Lock | Wide operation range | Memory function | Wide voltage range | Centralized control | Weekly timer | Long-distance monitoring

Features: ○ Standard ● Optional

Capacity Index(Btu/h)		7000	9000	12000	18000	21000	24000
Wall mounted Type	U-Crown						
	Hansol						
	Viola						
	Lomo						
	Cozy						
Duct type							
Cassette type							
Floor ceiling type							

- Free Match 4 has no 0.5W standby function, while it has electric heating belt;
- Capacity range from 14 to 42Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.

Control system lineup

Control system \ Product series		Wall mounted type					Duct type	Cassette type	Floor ceiling type	Console type
		U-Crown	Hansol	Lomo	Cozy	Viola				
Wireless remote controller	SAA1FB1	●								
	YAG1FB		●							
	YAN1F1			●						
	YB1FA(X-Fan)				●					
	YAA1FB1									●
	YT1F(moto)					●	●	●	●	
Wired controller	XK41/XK47	●								●
	XK76	●					●	●	●	●
	XK19						●	●	●	
Centralized controller	CE50-24/E	●					●	●	●	●

Features: ● Standard ● Optional

Item	Nominal operating condition(temperature)				Operation range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition Free Match 4
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	-15~43
Heating	7	6	20	15	-20~24

8 combinations

GWHD(14)NK3DO

One unit	Two units	
7k	7k+7k	7k+9k
9k	7k+12k	9k+9k
12k	9k+12k	-

10 combinations

GWHD(18)NK3KO

One unit	Two units	
7k	7k+7k	7k+9k
9k	7k+12k	7k+18k
12k	9k+9k	9k+12k
-	12k+12k	-

18 combinations

GWHD(21)NK3KO

Two units		Three units	
7k+7k	7k+9k	7k+7k+7k	7k+7k+9k
7k+12k	7k+18k	7k+7k+12k	7k+9k+9k
9k+9k	9k+12k	7k+9k+12k	7k+12k+12k
9k+18k	12k+12k	9k+9k+9k	9k+9k+12k
12k+18k	-	12k+12k+12k	-

23 combinations

GWHD(24)NK3MO

Two units		Three units	
7k+7k	7k+9k	7k+7k+7k	7k+7k+9k
7k+12k	7k+18k	7k+7k+12k	7k+7k+18k
9k+9k	9k+12k	7k+9k+9k	7k+9k+12k
9k+18k	12k+12k	7k+9k+18k	7k+12k+12k
12k+18k	18k+18k	9k+9k+9k	9k+9k+12k
-	-	9k+9k+18k	9k+12k+12k
-	-	12k+12k+12k	-

40 combinations

GWHD(28)NK3KO

Two units		Three units		Four units	
7k+7k	7k+9k	7k+7k+7k	7k+7k+9k	7k+7k+7k+7k	7k+7k+7k+9k
7k+12k	7k+18k	7k+7k+12k	7k+7k+18k	7k+7k+7k+12k	7k+7k+7k+18k
9k+9k	9k+12k	7k+9k+9k	7k+9k+12k	7k+7k+9k+9k	7k+7k+9k+12k
9k+18k	12k+12k	7k+9k+18k	7k+12k+12k	7k+7k+9k+18k	7k+7k+12k+12k
12k+18k	18k+18k	7k+12k+18k	9k+9k+9k	7k+9k+9k+9k	7k+9k+9k+12k
-	-	9k+9k+12k	9k+9k+18k	7k+9k+12k+12k	9k+9k+9k+9k
-	-	9k+12k+12k	9k+12k+18k	9k+9k+9k+12k	9k+9k+12k+12k
-	-	12k+12k+12k	12k+12k+18k		

97 combinations

GWHD(36)NK3BO

Two units		Three units			Four units		
7k+12k	18k+18k	7k+7k+7k	7k+12k+21k	9k+12k+21k	7k+7k+7k+7k	7k+7k+12k+21k	7k+12k+12k+18k
7k+18k	18k+21k	7k+7k+9k	7k+12k+24k	9k+12k+24k	7k+7k+7k+9k	7k+7k+12k+24k	9k+9k+9k+9k
7k+21k	18k+24k	7k+7k+12k	7k+18k+18k	9k+18k+18k	7k+7k+7k+12k	7k+7k+18k+18k	9k+9k+9k+12k
7k+24k	21k+21k	7k+7k+18k	7k+18k+21k	9k+18k+21k	7k+7k+7k+18k	7k+9k+9k+9k	9k+9k+9k+18k
9k+9k	21k+24k	7k+7k+21k	7k+18k+24k	9k+18k+24k	7k+7k+7k+21k	7k+9k+9k+12k	9k+9k+9k+21k
9k+12k	24k+24k	7k+7k+24k	7k+21k+21k	9k+21k+21k	7k+7k+7k+24k	7k+9k+9k+18k	9k+9k+9k+24k
9k+18k	-	7k+9k+9k	9k+9k+9k	12k+12k+12k	7k+7k+9k+9k	7k+9k+9k+21k	9k+9k+12k+12k
9k+21k	-	7k+9k+12k	9k+9k+12k	12k+12k+18k	7k+7k+9k+12k	7k+9k+9k+24k	9k+9k+12k+18k
9k+24k	-	7k+9k+18k	9k+9k+18k	12k+12k+21k	7k+7k+9k+18k	7k+9k+12k+12k	9k+9k+18k+18k
12k+12k	-	7k+9k+21k	9k+9k+21k	12k+12k+24k	7k+7k+9k+21k	7k+9k+12k+18k	9k+9k+12k+12k
12k+18k	-	7k+9k+24k	9k+9k+24k	12k+18k+18k	7k+7k+9k+24k	7k+9k+12k+21k	9k+12k+12k+12k
12k+21k	-	7k+12k+12k	9k+12k+12k	12k+18k+21k	7k+7k+12k+12k	7k+9k+18k+18k	9k+12k+12k+18k
12k+24k	-	7k+12k+18k	9k+12k+18k	12k+18k+24k	7k+7k+12k+18k	7k+12k+12k+12k	12k+12k+12k+12k

155 combinations

GWHD(42)
NK3AO

Two units	Three units			Four units				Five units	
7k+18k	7k+7k+7k	7k+21k+21k	12k+12k+12k	7k+7k+7k+7k	7k+7k+18k+24k	-	-	7k+7k+7k+7k+7k	7k+7k+9k+12k+12k
7k+21k	7k+7k+9k	7k+21k+24k	12k+12k+18k	7k+7k+7k+9k	7k+9k+9k+9k	-	9k+9k+9k+9k	7k+7k+7k+7k+9k	7k+7k+9k+12k+18k
7k+24k	7k+7k+12k	7k+24k+24k	12k+12k+21k	7k+7k+7k+12k	7k+9k+9k+12k	-	9k+9k+9k+12k	7k+7k+7k+7k+12k	7k+7k+9k+12k+21k
9k+12k	7k+7k+18k	9k+9k+9	12k+12k+24k	7k+7k+7k+18k	7k+9k+9k+18k	7k+12k+18k+21k	9k+9k+9k+18k	7k+7k+7k+7k+18k	7k+7k+12k+12k+12k
9k+18k	7k+7k+21k	9k+9k+12k	12k+18k+18k	7k+7k+7k+21k	7k+9k+9k+21k	7k+12k+18k+24k	9k+9k+9k+21k	7k+7k+7k+7k+21k	7k+7k+12k+12k+18k
9k+21k	7k+7k+24k	9k+9k+18k	12k+18k+21k	7k+7k+7k+24k	7k+9k+9k+24k	7k+12k+21k+21k	9k+9k+9k+24k	7k+7k+7k+7k+24k	7k+9k+9k+9k+9k
9k+24k	7k+9k+9k	9k+9k+21k	12k+18k+24k	7k+7k+9k+9k	7k+9k+12k+12k	7k+18k+18k+18k	9k+9k+12k+12k	7k+7k+7k+9k+9k	7k+9k+9k+9k+12k
12k+12k	7k+9k+12k	9k+9k+24k	12k+21k+21k	7k+7k+9k+9k	7k+9k+12k+18k	-	9k+9k+12k+18k	7k+7k+7k+9k+12k	7k+9k+9k+9k+18k
12k+18k	7k+9k+18k	9k+12k+12k	12k+21k+24k	7k+7k+9k+12k	7k+9k+12k+21k	-	9k+9k+12k+21k	7k+7k+7k+9k+18k	7k+9k+9k+9k+21k
12k+21k	7k+9k+21k	9k+12k+18k	12k+24k+24k	7k+7k+9k+18k	7k+9k+12k+24k	-	9k+9k+12k+24k	7k+7k+7k+9k+21k	7k+9k+9k+12k+12k
12k+24k	7k+9k+24k	9k+12k+21k	18k+18k+18k	7k+7k+9k+21k	7k+9k+18k+18k	-	9k+9k+18k+18k	7k+7k+7k+9k+24k	7k+9k+9k+12k+18k
18k+18k	7k+12k+12k	9k+12k+24k	18k+18k+21k	7k+7k+9k+24k	7k+9k+18k+21k	-	9k+12k+12k+12k	7k+7k+7k+12k+12k	7k+9k+12k+12k+12k
18k+21k	7k+12k+18k	9k+18k+18k	18k+18k+24k	7k+7k+12k+12k	7k+12k+12k+12k	-	9k+12k+12k+18k	7k+7k+7k+12k+18k	7k+12k+12k+12k+12k
18k+24k	7k+12k+21k	9k+18k+21k	18k+21k+21k	7k+7k+12k+18k	7k+12k+12k+18k	-	9k+12k+12k+21k	7k+7k+7k+12k+21k	9k+9k+9k+9k+9k
21k+21k	7k+12k+24k	9k+18k+24k	-	7k+7k+12k+21k	7k+12k+12k+21k	-	12k+12k+12k+12k	7k+7k+9k+9k+9k	9k+9k+9k+9k+12k
21k+24k	7k+18k+18k	9k+21k+21k	-	7k+7k+12k+24k	7k+12k+12k+24k	-	12k+12k+12k+18k	7k+7k+9k+9k+12k	9k+9k+9k+9k+18k
24k+24k	7k+18k+21k	9k+21k+24k	-	7k+7k+18k+18k	7k+12k+18k+18k	-	-	7k+7k+9k+9k+18k	9k+9k+9k+12k+12k
-	7k+18k+24k	7k+24k+24k	-	7k+7k+18k+21k	-	9k+9k+18k+21k	-	7k+7k+9k+9k+21k	9k+9k+12k+12k+12k

Outdoor Unit

Model			GWHD(14)NK3DO	GWHD(18)NK3KO	GWHD(21)NK3KO	GWHD(24)NK3KO	GWHD(28)NK3KO	GWHD(36)NK3BO	GWHD(42)NK3AO
Capacity	Cooling	Btu/h	14000	18000	21000	24000	28000	35826	41285
	Heating	Btu/h	15000	18400	22000	29000	31800	37532	44400
SEER		W/W	6.1	6.3	6.1	6.1	6.1	5.5	3.37
Power supply		Ph,V,Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Power Input	Cooling	kW	1.2	1.45	1.91	2.18	2.54	3.5	3.59
	Heating	kW	1.18	1.45	1.73	2.28	2.49	3.75	3.54
Refrigerant charge volume		kg	1.4	1.6	2.2	2.2	2.4	4.3	4.8
Air Pressure Level		m^3/h	2600	3200	3200	4000	4000	5200	5500
Sound pressure level		dB(A)	55	56	56	58	58	57	54
"Dimension (W×D×H)"	Outline	mm	899X596X378	955X396X700	955X396X700	980×790×427	980×790×427	1015×440×1103	1015×440×1103
	Package	mm	948×645×420	1029×750×458	1029×750×458	1083×488×855	1083×488×855	1158×493×1235	1158×493×1235
Net weight/Gross weight		kg	43/46	51/55.5	62/66.5	68/73	69/74	94/104	102/112
Connecting pipe diameter	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ12)	1/2(φ12)
	WxHxD	inch(mm)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Max. equivalent connection pipe length		m	10	10	20	20	20	20	25
Maximum drive IDU NO.		unit	2	2	3	3	4	4	5
Loading quantity	40'GP/40'HQ	sets	204/272	171/171	171/171	96/144	96/144	48/96	48/96

U-Crown

Model			GWH09UB-K3DNA4F	GWH12UB-K3DNA4F	GWH18UC-K3DNA4F
Capacity	Cooling	Btu/h	9000	12000	18000
	Heating	Btu/h	10200	12300	18000
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow Volume		m³/h(SH/H/MH/M/ML/L/SL)	650/530/470/400/350/300/290	720/550/490/420/370/320/290	850/750/650/600/500/400/340
		CFM(SH/H/MH/M/ML/L/SL)	383/312/277/235/200/177/171	424/324/288/247/218/188/171	500/440/383/353/294/235/200
Sound Pressure Level (SH/H/MH/M/ML/L/SL)		dB(A)	41/37/35/33/30/22/19	43/38/36/34/31/23/20	46/42/40/36/33/25/22
Connecting pipe	Gas	inch(mm)	1/2 (φ12)	1/2 (φ12)	1/2 (φ12)
	Liquid	inch(mm)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Dimension(W×D×H)	Outline	mm	860×305×170	860×305×170	960×320×205
	Package	mm	935×388×295	935×388×295	1043×403×333
Net Weight /Gross Weight		kg	11.5/14	11.5/14	14/17
Loading Quantity	20'GP	set	276	276	210
	40' GP/40' HQ	set	566/674	566/674	439/499

Hansol

Model			GWH07TB-S3DNA1D/I	GWH09TB-S3DNA1D/I	GWH12TB-S3DNA1D/I	GWH18TC-S3DNA1D/I	GWH24TD-S3DNA1D/I
Capacity	Cooling	Btu/h	7165	8871	12000	18084	23800
	Heating	Btu/h	8871	10236	13600	18425	24900
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240v,50Hz/60Hz	1Ph,220-240V,50Hz
Airflow Volume		m³/h(SH/H/M/L/ML/UL/SL)	600/490/420/370/330/290/230	650/600/550/500/450/400/350	750/650/580/520/470/420/350	950/870/790/710/630/560/480	1200/1130/1060/990/920/850/780
		CFM(SH/H/M/L/ML/UL/SL)	353/288/247/218/194/171/135	383/353/324/294/265/235/206	441/383/341/306/277/247/206	559/512/465/418/371/330/282	706/665/624/583/541/500/459
Sound Pressure Level	dB (A)	dB(A)(SH/H/M/L/ML/UL/SL)	38/36/32/30/29/28/26	43/36/34/32/30/28/26	43/36/34/32/30/28/26	46/44/42/40/38/36/34	51/50/46/44/42/40/37
Connecting pipe	Gas	inch(mm)	3/8（φ9.52）	3/8（φ9.52）	1/2（φ12）	5/8（φ16）	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension(W×H×D)	Outline	mm	866×292×209	866×292×209	866×292×209	1018×230×319	1178×326×264
	Package	mm	945×377×297	945×377×297	945×377×297	1097×340×397	1256×414×364
Net Weight /Gross Weight		kg	10/12	11.0/13.0	11.0/13.0	14.0/17.0	17.0/21.0
Loading Quantity	20'GP	set	276	276	276	174	132
	40' GP/40' HQ	set	553/632	553/632	566/640	366/427	276/322

Lomo

Model			GWH07QB-K3DNA1G/I	GWH09QB-K3DNA1G/I	GWH12QC-K3DNA1G/I	GWH18QD-K3DNA1G/I	GWH24QE-K3DNA1G/I
Capacity	Cooling	Btu/h	7165	8880	12000	17500	22860
	Heating	Btu/h	8871	9550	12500	18000	24737
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Air flow volume		m³/h(SH/H/M/L)	550/490/420/330	560/490/430/330	660/540/460/330	800/720/610/520	1150/1050/950/850
		CFM(SH/H/M/L)	324/288/247/194	324/288/247/194	388/318/271/194	471/424/359/306	677/618/559/500
Sound pressure level		dB(A)(SH/H/M/L)	38/36/32/26	55/52/44/38	42/39/33/26	46/42/39/36	48/45/42/39
Connecting pipe	Gas	inch(mm)	3/8（φ9.52）	3/8（φ9.52）	3/8（φ9.52）	1/2（φ12）	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension(W×H×D)	Outline	mm	790×200×257	790×200×257	845×209×289	970×300×224	1078×325×245
	Package	mm	866×271×367	866×271×367	921×281×379	1041×383×320	1148×413×350
Net Weight/Gross weight		kg	9/11	9/11	10.0/12.0	13.5/16.5	17/20.5
Loading quantity	20'GP	sets	334	334	294	229	172
	40'GP/40'HQ	sets	692/804	692/804	600/674	479/545	336/392

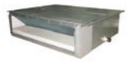
Cozy

Model			GWH07MB-K3DNE3G/I	GWH09MB-K3DNE3G/I	GWH12MB-K3DNE3G/I	GWH18MC-K3DNE3G/I	GWH24MD-K3DNE3G/I
Capacity	Cooling	Btu/h	7200	8900	19000	18100	22000
	Heating	Btu/h	8900	9600	13000	19800	24000
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow Volume		m³/h(SH/H/M/L)	580/500/400/300	600/500/400/300	850/5780/650/550	850	1000/800/700/550
		CFM(SH/H/M/L)	341/294/235/177	353/294/235/177	500/459/383/324	500	588/471/412/324
Sound pressure level		dB(A)(SH/H/M/L)	41/39/34/28	42/39/34/28	42/40/35/30	45/43/37/33	51/47/42/39
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension(W×H×D)	Outline	mm	845×180×275	845×180×275	845x180x275	940x200x295	1007×315×219
	Package	mm	918×370×258	918×370×258	918×370×258	1013x383x300	1076×398×328
Net Weight/Gross weight		kg	9/12	9/12	9/12	12.0/15.0	15/18.5
Loading quantity	20'GP	sets	336	336	336	254	210
	40'GP/40'HQ	sets	684×798	684×798	684/798	541/609	434/496

Viola

Model			GWH07RB-K3DNA5G/I	GWH09RB-K3DNA5G/I	GWH12RB-K3DNA5G/I	GWH18RC-K3DNA5G/I	GWH24RD-K3DNA5G/I
Capacity	Cooling	Btu/h	7200	8880	12000	18000	22000
	Heating	Btu/h	8880	10240	13600	19790	24000
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Air flow volume		m³/h(SH/H/M/L)	580/500/400/300	600/500/400/300	600/500/400/300	850/750/650/550	1000/800/700/550
		CFM(SH/H/M/L)	341/294/235/177	353/294/235/177	353/294/253/117	500/459/383/324	588/471/412/324
Sound Pressure Level		dB(A)(SH/H/M/L)	41/39/34/28	41/39/34/28	42/40/35/30	45/43/37/33	51/47/42/39
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension(W×H×D)	Outline	mm	848x189x274	848x189x274	848x189x274	945x211x298	1018×233×315
	Package	mm	926x267x371	926x267x371	926x267x371	1013x383x300	1086×328×398
Net Weight /Gross Weight		kg	9.5/11.5	9.5/11.5	9.5/11.5	12.0/15.0	15/18.5
Loading Quantity	20'GP	sets	312	312	306	252	203
	40'HQ	sets	643/749	643/749	643/749	541/609	427/488

Duct Type Indoor Unit



Model			GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I
Capacity	Cooling	Btu/h	8530	11940	17060	20470	24230
	Heating	Btu/h	9550	13140	18770	22520	27300
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Air flow volume		m³/h	450	500	700	1000	1000
		CFM	265	294	412	589	588.5
Sound pressure level		dB(A)(H/L)	37/31	39/32	41/33	42/34	42/34
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8(Φ16)	5/8(Φ16)
	Liquid	inch(mm)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	3/8(φ9.52)	3/8(φ9.52)
Dimension(W×D×H)	Outline	mm	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	1123×743×305	1323×743×305	1323×743×305
Net Weight/Gross weight		kg	22/27	23/29	27/36	31/41	31/41
Loading Quantity	20'GP	sets	108	108	90	72	72
	40' GP/40' HQ	sets	234/234	234/234	180/180	162/162	162/162

1.The product with * is under development, and the parameters are estimated，please refer to the value on nameplates.
2. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Cassette Type Indoor Unit

Model				GKH(12)BA-K3DNA2A/I	GKH(18)BA-K3DNA2A/I	GKH(24)BA-K3DNA1A/I
Capacity	Cooling		Btu/h	11942	15354	24225
	Heating		Btu/h	13648	17060	27296
Power supply			Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Air flow volume			m³/h	680	600	1180
			CFM	420	353	694
Sound pressure level			dB(A)(H/L/M)	46	46	39/37/35
	Gas		inch(mm)	3/8(φ9.52)	1/2(φ12)	5/8(φ16)
	Liquid		inch(mm)	1/4 (φ6)	1/4 (φ6)	3/8 (φ9.52)
Main body	Dimention (W×D×H)	Outline	mm	570×570×230	570×570×230	840×840×240
		Package	mm	851×731×325	851×731×325	963×963×325
	Net Weight/Gross weight		kg	18/23	18/23	30/38
Panel	Dimention (W×D×H)	Outline	mm	650×650×50	650×650×50	950×950×60
		Package	mm	733×673×117	733×673×117	1043×1028×130
	Net Weight/Gross weight		kg	6.5/10	6.5/10	6.5/10
Loading quantity		20'GP	sets	102	102	40
		40'GP/40'HQ	sets	209/246	209/246	108/128

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BA-K3DNA1A/I
Capacity	Cooling	Btu/h	85302	11942	17060	24225
	Heating	Btu/h	9554	13136	18766	27296
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	650	650	950	1250
		CFM	383	382	559	736
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/36	40/36	45/40	48/40
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8(Φ16)
	Liquid	inch(mm)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	3/8(φ9.52)
Dimension(WxHxD)	Outline	mm	1220×700×225	1220×700×225	1220×700×225	1220×700×225
	Package	mm	1343×823×355	1343×823×315	1343×823×315	1343×823×315
Net weight/Gross weight		kg	40/50	40/50	40/50	45/54
Loading quantity	20'GP	sets	48	48	48	48
	40' GP/40' HQ	sets	96/96	96/96	96/96	96/96

1.The product with * is under development, and the parameters are estimated，please refer to the value on nameplates.
2. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

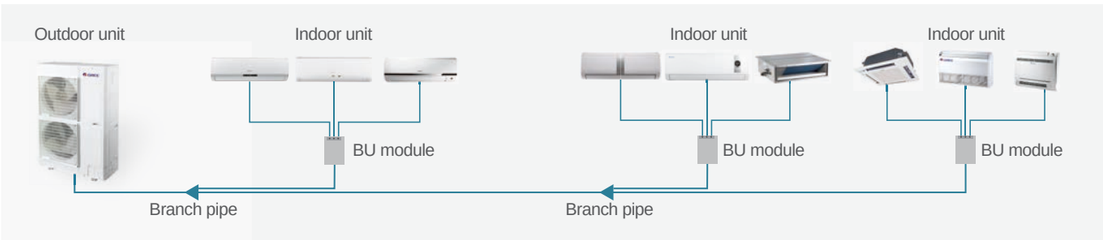
Super Free Match

What is Super Free Match

Gree Super Free Match is the latest generation of Multiple Inverter Air Conditioner, which can connect up to 9 indoor units and offer rich choices of indoor units for different decoration requirements. Thanks to GREE inverter technology, Super Free Match can achieve higher energy efficiency, steady operation, more comfortable and low noise for suiting modern living environment.

1 Compressor
2 Fan and Motor
3 Oil Separator
4 Components and Pipeline
5 Heat Exchanger
6 Electrical Box
7 Built-in Debugger
8 Service Port
9 Flexible Piping Connection

Maximum 9 IDU Connections



High-efficiency and More Energy-saving

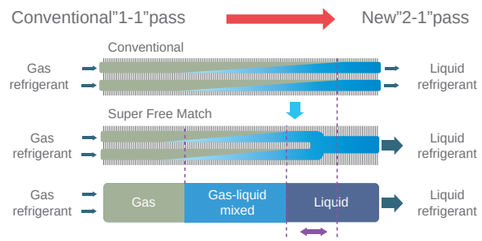
High-efficiency DC Brushless Fan Motor

High-efficiency DC brushless fan motor offers greater efficiency and reduces operation noise.

High-efficiency Heat-exchanging Technology

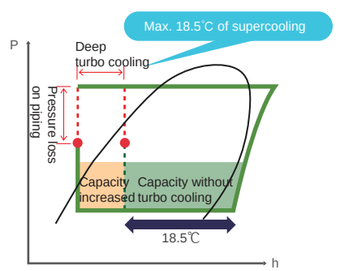
New “2-1” Pass

The new “2-1” high efficiency heat exchanger design increases the heat-exchanging effect and reduces the refrigerant pressure, with higher reliability.



Turbo Cooling

18.5℃ of Turbo cooling is achieved by exactly control of EXVs and real-time detection of the temperature sensors. The max total piping length can reach to 145m, which is 30m longer than conventional product, and the capacity decreases less than 10% under 100m total piping length.

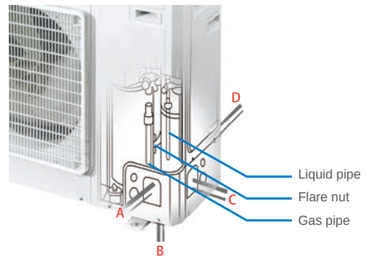


The Super Free Match System is able to recover the refrigerant automatically, which simplifies the refrigerant recovery operation , safe and reliable.

Easier Installation and Maintenance

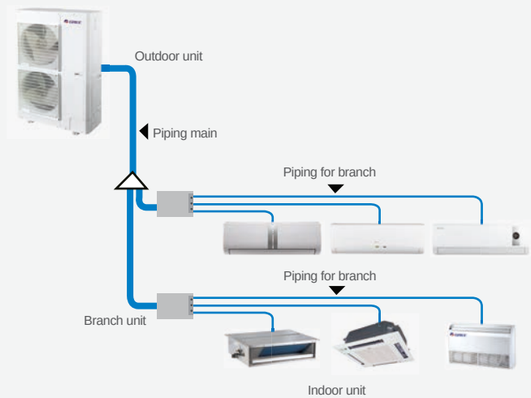
Flexible Piping Connection

The gas and liquid stop valves can be attached from different directions for seamless installation.



Flexible Piping Installation

- Total pipe length≤145m
- Total pipe length between outdoor unit and BU≤55m
- Total pipe length between BU and indoor unit≤90m
- Piping length between the farthest indoor unit and the outdoor unit≤70m
- Pipe length between BU and indoor unit≤15m
- Different in height between outdoor unit and indoor unit ≤30m



BU Module

The Super Free Match introduces the BU (Branching Unit) module to simplify the piping work. Therefore, the refrigerant piping is easier for installation and connection. Moreover, installation time and materials can be reduced.

Quick Connection, Built-in Electronic Expansion Valve

Quick & Safe

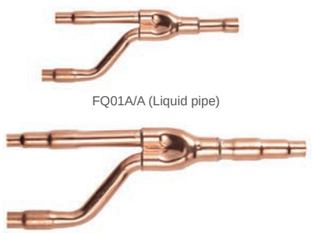
By adopting flared connection, the installation is easier with less welding, safe and reliable.

Comfort & Quite

The BU module can calculate cool and heat loads and precisely distribute refrigerant to each room. EXV built-in BU module allows a comfortable environment for living.

Convenient Service

Quick check refrigerant leakage point and the welding points are less. Therefore, if there's refrigerant leakage, the leakage point can be found quickly.



FQ01A/A (Liquid pipe)

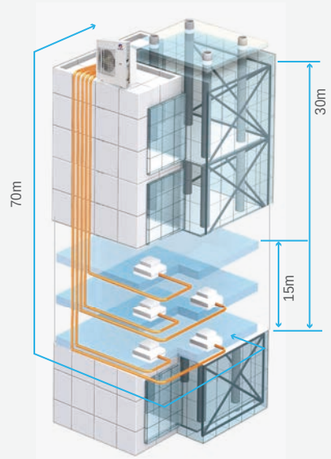
FQ01A/A (Gas pipe)

High Height Different Design

A maximum total piping length of 145 meters offers much more flexibility in the choice of installation position for outdoor units, which can greatly simplifies system planning.

Max. actual piping length -- 145 meters
Max. height difference between indoor units – 15m
Max. height difference between outdoor and indoor units –30m
Max. piping length from outdoor to the farthest indoor unit – 70 meters

* This value can be used whether outdoor unit is located under or above indoor unit.



Debugging Function of Mainboard

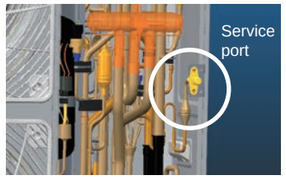
Unique design with built-in debugger, which is convenient for maintenance.

- Automatically detect indoor unit numbers.
- Automatically assign indoor unit addresses.
- Automatically display real running function and error code.
- Option settings to suit the demand of the customer.

Service Port

Special service port for easier pressure detection and maintenance.

- Detect the high pressure at cooling mode.
- Detect the low pressure at heating mode.
- Charge additional refrigerant.

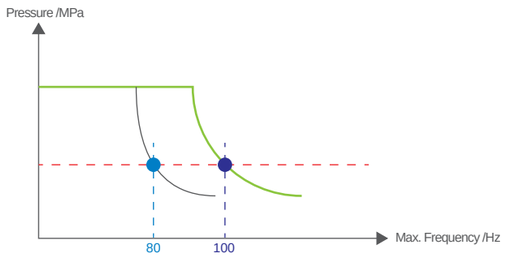


Electric Box

The new electric box, with quick debugger, is convenient for testing and maintenance.

More Comfortable

Because of weak magnetic control, when compressor's motor runs to the limit voltage, it will adjust the weak magnetic angle and increase demagnetized current to ensure voltage balance and maintain higher rotational speed.
Thanks to this technology, the unit can run in a wide frequency range with larger heating capacity in low temperature. It improves unit's ability to quickly adjust temperature and unit's maximum operating frequency at low voltage.



Turbo Cooling

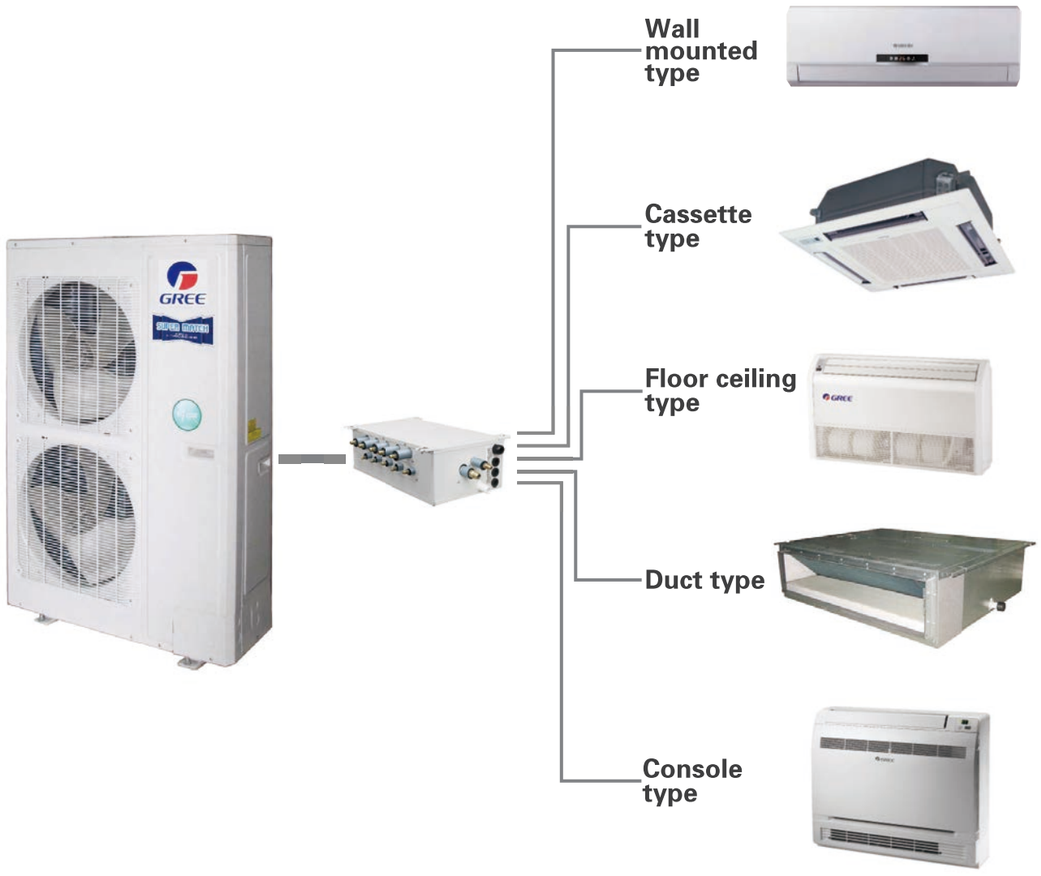
To run with strong power and make you feel comfortable(cool or warm) quickly.

Reliable Operation Even in Winter

Super Free Match can operate under cooling mode reliably even the outdoor ambient temperature is as low as -15℃.

Super Free Match

Capacity range from 42K Btu/h to 56K Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.



High efficiency | Intelligent Defrosting | Comprehensive protection | Compact design | Easier maintainability | Inner groove copper | 'Turbo' Button | Self-Diagnosis | Low voltage startup | Timer

Lock | Wide operation range | Memory function | Wide voltage range | Centralized control | Weekly timer | Long-distance monitoring

- Power supply startup delay design, lower the unit starting current.
- High efficiency thanks to DC inverter compressor.
- The lowest noise thanks to advanced technology.
- The system could run stably under hard operation conditions.
- Connection pipe up to 145 meter length that convinent on installation.
- Stably heating under -15°C environment temperature. (only for the unit CUHD*C1O)

GWHD**NK3CO

Item	Nominal operating condition(temperature)				Operation range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	DB(℃)
Cooling	35	24	27	19	-15~48
Heating	7	6	20	15	-20~24

GWHD**NM3DO

Item	Nominal operating condition(temperature)				Operation range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	DB(℃)
Cooling	35	24	27	19	18~48
Heating	7	6	20	15	-10~24

163 Combinations

GWHD(42S)NK3CO (2 to 6)

Two units	Three units			Four units			Five units			Six units
7+18	7+7+7	7+18+24	9+21+24	7+7+7+7	7+7+18+21	7+12+18+18	7+7+7+7+7	7+7+9+9+21	9+9+9+12+12	7+7+7+7+7+7
7+21	7+7+9	7+21+21	12+12+12	7+7+7+9	7+7+18+24	9+9+9+9	7+7+7+7+9	7+7+9+12+12	9+9+12+12+12	7+7+7+7+7+9
7+24	7+7+12	7+21+24	12+12+18	7+7+7+12	7+9+9+9	9+9+9+12	7+7+7+7+12	7+7+9+12+18	-	7+7+7+7+7+12
9+12	7+7+18	7+24+24	12+12+21	7+7+7+18	7+9+9+12	9+9+9+18	7+7+7+7+18	7+7+9+12+21	-	7+7+7+7+7+18
9+18	7+7+21	9+9+9	12+12+24	7+7+7+21	7+9+9+18	9+9+9+21	7+7+7+7+21	7+7+12+12+12	-	7+7+7+7+7+21
9+21	7+7+24	9+9+12	12+18+18	7+7+7+24	7+9+9+21	9+9+9+24	7+7+7+7+24	7+7+12+12+18	-	7+7+7+7+9+9
9+24	7+9+9	9+9+18	12+18+21	7+7+9+9	7+9+9+24	9+9+12+12	7+7+7+9+9	7+9+9+9+9	-	7+7+7+7+9+12
12+12	7+9+12	9+9+21	12+18+24	7+7+9+9	7+9+12+12	9+9+12+18	7+7+7+9+12	7+9+9+9+12	-	7+7+7+7+9+18
12+18	7+9+18	9+9+24	12+21+21	7+7+9+12	7+9+12+18	9+9+12+21	7+7+7+9+18	7+9+9+9+18	-	7+7+7+9+9+9
12+21	7+9+21	9+12+12	—	7+7+9+18	7+9+12+21	9+9+12+24	7+7+7+9+21	7+9+9+9+21	-	7+7+7+9+9+12
12+24	7+9+24	9+12+18	—	7+7+9+21	7+9+12+24	9+9+18+18	7+7+7+9+24	7+9+9+12+12	-	7+7+7+9+12+12
18+18	7+12+12	9+12+21	—	7+7+9+24	7+9+18+18	9+12+12+12	7+7+7+12+12	7+9+9+12+18	-	7+7+9+9+9+9
18+21	7+12+18	9+12+24	—	7+7+12+12	7+9+18+21	9+12+12+18	7+7+7+12+18	7+9+12+12+12	-	7+7+9+9+9+12
18+24	7+12+21	9+18+18	—	7+7+12+18	7+12+12+12	9+12+12+21	7+7+7+12+21	7+12+12+12+12	-	7+7+9+9+12+12
21+21	7+12+24	9+18+21	—	7+7+12+21	7+12+12+18	12+12+12+12	7+7+9+9+9	9+9+9+9+9	-	7+9+9+9+9+9
21+24	7+18+18	9+18+24	—	7+7+12+24	7+12+12+21	12+12+12+18	7+7+9+9+12	9+9+9+9+12	-	7+9+9+9+9+12
	7+18+21	9+21+21	—	7+7+18+18	7+12+12+24	—	7+7+9+9+18	9+9+9+9+18	-	9+9+9+9+9+9

288 Combinations

GWHD(48S)NK3CO (2 to 8)
GWHD(48S)NM3CO (2 to 8)

Two units	Three units			Four units			
7+18	7+7+12	9+9+9	12+18+18	7+7+7+7	7+7+21+24	7+12+12+21	9+9+18+21
7+21	7+7+18	9+9+12	12+18+21	7+7+7+9	7+7+24+24	7+12+12+24	9+9+18+24
7+24	7+7+21	9+9+18	12+18+24	7+7+7+12	7+9+9+9	7+12+18+18	9+9+21+21
9+18	7+7+24	9+9+21	12+21+21	7+7+7+18	7+9+9+12	7+12+18+21	9+9+21+24
9+21	7+9+9	9+9+24	12+21+24	7+7+7+21	7+9+9+18	7+12+18+24	9+12+12+12
9+24	7+9+12	9+12+12	12+24+24	7+7+7+24	7+9+9+21	7+12+21+21	9+12+12+18
12+12	7+9+18	9+12+18	18+18+18	7+7+9+9	7+9+9+24	7+12+21+24	9+12+12+21
12+18	7+9+21	9+12+21	18+18+21	7+7+9+12	7+9+12+12	7+18+18+18	9+12+12+24
12+21	7+9+24	9+12+24	18+18+24	7+7+9+18	7+9+12+18	7+18+18+21	9+12+18+18
12+24	7+12+12	9+18+18	18+21+21	7+7+9+21	7+9+12+21	9+9+9+9	9+12+18+21
18+18	7+12+18	9+18+21	18+21+24	7+7+9+24	7+9+12+24	9+9+9+12	9+12+18+24
18+21	7+12+21	9+18+24	21+21+21	7+7+12+12	7+9+18+18	9+9+9+18	9+12+21+21
18+24	7+12+24	9+21+21	-	7+7+12+18	7+9+18+21	9+9+9+21	9+18+18+18
21+21	7+18+18	9+21+24	-	7+7+12+21	7+9+18+24	9+9+9+24	12+12+12+12
21+24	7+18+21	9+24+24	-	7+7+12+24	7+9+21+21	9+9+12+12	12+12+12+18
24+24	7+18+24	12+12+12	-	7+7+18+18	7+9+21+24	9+9+12+18	12+12+12+21
-	7+21+21	12+12+18	-	7+7+18+21	7+9+24+24	9+9+12+21	12+12+12+24
-	7+21+24	12+12+21	-	7+7+18+24	7+12+12+12	9+9+12+24	12+12+18+18
-	7+24+24	12+12+24	-	7+7+21+21	7+12+12+18	9+9+18+18	12+12+18+21

288 Combinations

GWHD(48S)NK3CO
(2 to 8)
GWHD(48S)NM3DO
(2 to 8)

Five units				Six units			Seven units	Eight units
7+7+7+7+7	7+7+9+9+12	7+9+9+9+24	9+9+9+12+12	7+7+7+7+7+7	7+7+7+9+9+21	7+9+9+9+9+21	7+7+7+7+7+7+7	7+9+9+9+9+9+9
7+7+7+7+9	7+7+9+9+18	7+9+9+12+12	9+9+9+12+18	7+7+7+7+7+9	7+7+7+9+9+24	7+9+9+9+12+12	7+7+7+7+7+7+9	7+9+9+9+9+9+12
7+7+7+7+12	7+7+9+9+21	7+9+9+12+18	9+9+9+12+21	7+7+7+7+7+12	7+7+7+9+12+12	7+9+9+12+12+18	7+7+7+7+7+7+12	9+9+9+9+9+9+9
7+7+7+7+18	7+7+9+9+24	7+9+9+12+21	9+9+9+12+24	7+7+7+7+7+18	7+7+7+9+12+12	7+9+9+12+12+18	7+7+7+7+7+7+18	7+7+7+7+7+7+7
7+7+7+7+21	7+7+9+12+12	7+9+9+12+24	9+9+9+18+18	7+7+7+7+7+21	7+7+7+9+12+18	7+9+12+12+12+12	7+7+7+7+7+7+21	7+7+7+7+7+7+9
7+7+7+7+24	7+7+9+12+18	7+9+9+18+18	9+9+12+12+12	7+7+7+7+7+24	7+7+7+9+12+21	9+9+9+9+9	7+7+7+7+7+9+9	7+7+7+7+7+7+7+12
7+7+7+9+9	7+7+9+12+21	7+9+9+18+21	9+9+12+12+12	7+7+7+7+9+9	7+7+7+12+12+12	9+9+9+9+9+12	7+7+7+7+7+7+9+9	7+7+7+7+7+7+9+9
7+7+7+9+12	7+7+9+12+24	7+9+12+12+12	9+9+12+12+18	7+7+7+7+7+9+12	7+7+7+12+12+18	9+9+9+9+9+18	7+7+7+7+7+7+9+18	7+7+7+7+7+7+9+12
7+7+7+9+18	7+7+9+18+18	7+9+12+12+18	9+9+12+12+21	7+7+7+7+7+9+18	7+7+9+9+9+9	9+9+9+9+12+12	7+7+7+7+7+12+12	7+7+7+7+7+9+9+9
7+7+7+9+21	7+7+9+18+21	7+9+12+12+21	9+12+12+12+12	7+7+7+7+7+9+21	7+7+9+9+9+12	9+9+9+9+12+12	7+7+7+7+9+9+9	7+7+7+7+9+9+9+9
7+7+7+9+24	7+7+12+12+12	7+9+12+12+24	9+12+12+12+18	7+7+7+7+7+9+24	7+7+9+9+9+18	-	7+7+7+7+9+9+12	-
7+7+7+12+12	7+7+12+12+18	7+12+12+12+12	12+12+12+12+12	7+7+7+7+7+12+12	7+7+9+9+9+21	-	7+7+7+7+9+9+18	-
7+7+7+12+18	7+7+12+12+21	7+12+12+12+18	-	7+7+7+7+7+18+18	7+7+9+9+12+12	-	7+7+7+7+9+12+12	-
7+7+7+12+21	7+7+12+12+24	7+12+12+12+21	-	7+7+7+7+7+12+21	7+7+9+9+18+18	-	7+7+7+7+12+12+12	-
7+7+7+12+24	7+7+12+18+18	9+9+9+9+9	-	7+7+7+7+7+12+24	7+7+9+12+12+12	-	7+7+7+9+9+9+9	-
7+7+7+18+18	7+9+9+9+9	9+9+9+9+12	-	7+7+7+7+7+18+18	7+7+12+12+12+12	-	7+7+7+9+9+9+12	-
7+7+7+18+21	7+9+9+9+12	9+9+9+9+18	-	7+7+7+7+9+9+9	7+7+9+9+9+9	-	7+7+7+9+9+12+12	-
7+7+7+18+24	7+9+9+9+18	9+9+9+9+21	-	7+7+7+7+9+9+12	7+7+9+9+9+9	-	7+7+9+9+9+9+9	-
7+7+9+9+9	7+9+9+9+21	9+9+9+9+24	-	7+7+7+9+9+18	7+9+9+9+9+18	-	7+7+9+9+9+9+12	-

448 Combinations

GWHD(56S)NK3CO
(2 to 9)
GWHD(56S)NM3DO
(2 to 9)

Two units	Three units				Four units						
7+18	7+7+18	7+21+24	9+24+24	18+21+24	7+7+7+7	7+7+12+24	7+9+12+24	7+12+21+24	9+9+12+21	9+12+21+21	12+12+18+24
7+21	7+7+21	7+24+24	12+12+12	18+24+24	7+7+7+9	7+7+18+18	7+9+18+18	7+18+18+18	9+9+12+24	9+12+21+24	12+12+21+21
7+24	7+7+24	9+9+12	12+12+18	21+21+21	7+7+7+12	7+7+18+21	7+9+18+21	7+18+18+21	9+9+18+18	9+12+24+24	12+12+21+24
9+18	7+9+12	9+9+18	12+12+21	21+21+24	7+7+7+18	7+7+18+24	7+9+18+24	7+18+18+24	9+9+18+21	9+18+18+18	12+12+24+24
9+21	7+9+18	9+9+21	12+12+24	21+24+24	7+7+7+21	7+7+21+21	7+9+21+21	7+18+21+21	9+9+18+24	9+18+18+21	12+18+18+18
9+24	7+9+21	9+9+24	12+18+18	24+24+24	7+7+7+24	7+7+21+24	7+9+21+24	7+18+21+24	9+9+21+21	9+18+18+24	12+18+18+21
12+18	7+9+24	9+12+12	12+18+21	-	7+7+9+9	7+7+24+24	7+9+24+24	7+18+24+24	9+9+21+24	9+18+21+21	12+18+18+24
12+21	7+12+12	9+12+18	12+18+24	-	7+7+9+9	7+9+9+9	7+12+12+12	7+21+21+21	9+9+24+24	9+18+21+24	12+18+21+21
12+24	7+12+18	9+12+21	12+21+21	-	7+7+9+12	7+9+9+12	7+12+12+18	9+9+9+9	9+12+12+12	9+21+21+21	18+18+18+18
18+18	7+12+21	9+12+24	12+21+24	-	7+7+9+18	7+9+9+18	7+12+12+21	9+9+9+12	9+12+12+18	12+12+12+12	-
18+21	7+12+24	9+18+18	12+24+24	-	7+7+9+21	7+9+9+21	7+12+12+24	9+9+9+18	9+12+12+21	12+12+12+18	-
18+24	7+18+18	9+18+21	18+18+18	-	7+7+9+24	7+9+9+24	7+12+18+18	9+9+9+21	9+12+12+24	12+12+12+21	-
21+21	7+18+21	9+18+24	18+18+21	-	7+7+12+12	7+9+12+12	7+12+18+21	9+9+9+24	9+12+18+18	12+12+12+24	-
21+24	7+18+24	9+21+21	18+18+24	-	7+7+12+18	7+9+12+18	7+12+18+24	9+9+12+12	9+12+18+21	12+12+18+18	-
24+24	7+21+21	9+21+24	18+21+21	-	7+7+12+21	7+9+12+21	7+12+21+21	9+9+12+18	9+12+18+24	12+12+18+21	-

GWHD(56S)NK3CO
(2 to 9)
GWHD(56S)NM3DO
(2 to 9)

Five units					
7+7+7+7+7	7+7+9+9+9	7+7+12+21+21	7+9+12+12+24	9+9+9+18+18	12+12+12+12+18
7+7+7+7+9	7+7+9+9+12	7+7+12+21+24	7+9+12+18+18	9+9+9+18+21	12+12+12+12+21
7+7+7+7+12	7+7+9+9+18	7+7+18+18+18	7+9+12+18+21	9+9+9+18+24	12+12+12+12+24
7+7+7+7+18	7+7+9+9+21	7+7+18+18+21	7+9+12+18+24	9+9+9+21+21	12+12+12+18+18
7+7+7+7+21	7+7+9+9+24	7+9+9+9+9	7+9+12+21+21	9+9+9+21+24	-
7+7+7+7+24	7+7+9+12+12	7+9+9+9+12	7+9+18+18+18	9+9+12+12+12	-
7+7+7+9+9	7+7+9+12+18	7+9+9+9+18	7+12+12+12+12	9+9+12+12+18	-
7+7+7+9+12	7+7+9+12+21	7+9+9+9+21	7+12+12+12+18	9+9+12+12+21	-
7+7+7+9+18	7+7+9+12+24	7+9+9+9+24	7+12+12+12+21	9+9+12+12+24	-
7+7+7+9+21	7+7+9+18+18	7+9+9+12+12	7+12+12+12+24	9+9+12+18+18	-
7+7+7+9+24	7+7+9+18+21	7+9+9+12+18	7+12+12+18+18	9+9+12+18+21	-
7+7+7+12+12	7+7+9+18+24	7+9+9+12+21	7+12+12+18+21	9+9+12+18+24	-
7+7+7+12+18	7+7+9+21+24	7+9+9+12+24	9+9+9+9+9	9+9+12+21+21	-
7+7+7+12+21	7+7+9+24+24	7+9+9+18+18	9+9+9+9+12	9+9+18+18+18	-
7+7+7+12+24	7+7+12+12+12	7+9+9+18+21	9+9+9+9+18	9+12+12+12+12	-
7+7+7+18+18	7+7+12+12+18	7+9+9+18+24	9+9+9+9+21	9+12+12+12+18	-
7+7+7+18+21	7+7+12+12+21	7+9+9+21+21	9+9+9+9+24	9+12+12+12+21	-
7+7+7+18+24	7+7+12+12+24	7+9+9+21+24	9+9+9+12+12	9+12+12+12+24	-
7+7+7+21+21	7+7+12+18+18	7+9+12+12+12	9+9+9+12+18	9+12+12+18+18	-
7+7+7+21+24	7+7+12+18+21	7+9+12+12+18	9+9+9+12+21	9+12+12+18+21	-
7+7+7+24+24	7+7+12+18+24	7+9+12+12+21	9+9+9+12+24	12+12+12+12+12	-

GWHD(56S)NK3CO
(2 to 9)
GWHD(56S)NM3DO
(2 to 9)

Six units				
7+7+7+7+7+7	7+7+7+9+12+12	7+7+9+9+12+18	7+9+9+12+12+18	12+12+12+12+12+12
7+7+7+7+7+9	7+7+7+9+12+12	7+7+9+9+12+21	7+9+9+12+12+21	-
7+7+7+7+7+12	7+7+7+9+12+18	7+7+9+9+12+24	7+9+12+12+12+12	-
7+7+7+7+7+18	7+7+7+9+12+21	7+7+9+9+18+18	7+9+12+12+12+18	-
7+7+7+7+7+21	7+7+7+9+12+24	7+7+9+9+18+21	7+12+12+12+12+12	-
7+7+7+7+7+24	7+7+7+9+18+18	7+7+9+12+12+12	9+9+9+9+9+9	-
7+7+7+7+9+9	7+7+7+9+18+21	7+7+9+12+12+18	9+9+9+9+9+12	-
7+7+7+7+9+12	7+7+7+9+18+24	7+7+9+12+12+21	9+9+9+9+9+18	-
7+7+7+7+9+18	7+7+7+9+21+21	7+7+9+12+12+24	9+9+9+9+9+21	-
7+7+7+7+9+21	7+7+7+12+12+12	7+7+9+12+18+18	9+9+9+9+9+24	-
7+7+7+7+9+24	7+7+7+12+12+18	7+9+9+9+9+9	9+9+9+9+12+12	-
7+7+7+7+12+12	7+7+7+12+12+21	7+9+9+9+9+12	9+9+9+9+12+18	-
7+7+7+7+12+18	7+7+7+12+12+24	7+9+9+9+9+18	9+9+9+9+12+21	-
7+7+7+7+12+21	7+7+7+12+18+18	7+9+9+9+9+21	9+9+9+9+12+24	-
7+7+7+7+12+24	7+7+7+12+18+21	7+9+9+9+9+24	9+9+9+9+18+18	-
7+7+7+7+18+18	7+7+9+9+9+9	7+9+9+9+12+12	9+9+9+12+12+12	-
7+7+7+7+9+9	7+7+9+9+12+12	7+9+9+9+12+18	9+9+9+12+12+18	-
7+7+7+9+9+12	7+7+9+9+9+18	7+9+9+9+12+21	9+9+9+12+12+21	-
7+7+7+9+9+18	7+7+9+9+9+21	7+9+9+9+12+24	9+9+12+12+12+12	-
7+7+7+9+9+21	7+7+9+9+9+24	7+9+9+9+18+18	9+9+12+12+12+18	-
7+7+7+9+9+24	7+7+9+9+12+12	7+9+9+12+12+12	9+12+12+12+12+12	-

448 Combinations

GWHD(56S)NK3CO
(2 to 9)
GWHD(56S)NM3DO
(2 to 9)

Seven units			Eight units		Nine units
7+7+7+7+7+7+7	7+7+7+7+9+9+21	7+7+9+9+9+9+12	7+7+7+7+7+7+7	7+7+7+9+9+9+9	7+7+7+7+7+7+7+7
7+7+7+7+7+7+9	7+7+7+7+9+9+24	7+7+9+9+9+9+18	7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9
7+7+7+7+7+7+12	7+7+7+7+9+12+12	7+7+9+9+9+9+21	7+7+7+7+7+7+12	7+7+7+9+9+9+12+12	7+7+7+7+7+7+7+12
7+7+7+7+7+7+18	7+7+7+7+9+12+18	7+7+9+9+9+12+12	7+7+7+7+7+7+18	7+7+9+9+9+9+9	7+7+7+7+7+7+7+9+9
7+7+7+7+7+7+21	7+7+7+7+9+12+21	7+7+9+9+9+12+18	7+7+7+7+7+7+21	7+7+9+9+9+9+9+12	7+7+7+7+7+7+9+12
7+7+7+7+7+7+24	7+7+7+7+12+12+12	7+7+9+9+12+12+12	7+7+7+7+7+9+9	7+9+9+9+9+9+9	7+7+7+7+7+9+9+9
7+7+7+7+7+9+9	7+7+7+7+12+12+18	7+7+9+12+12+12+12	7+7+7+7+7+9+12	9+9+9+9+9+9+9	7+7+7+7+7+9+9+12
7+7+7+7+7+9+12	7+7+7+9+9+9+9	7+9+9+9+9+9+9	7+7+7+7+7+9+18	-	7+7+7+7+7+9+9+9+9
7+7+7+7+7+9+18	7+7+7+9+9+9+12	7+9+9+9+9+9+12	7+7+7+7+7+9+21	-	-
7+7+7+7+7+9+21	7+7+7+9+9+9+18	7+9+9+9+9+9+18	7+7+7+7+7+7+12	-	-
7+7+7+7+7+9+24	7+7+7+9+9+9+21	7+9+9+9+9+12+12	7+7+7+7+7+7+18	-	-
7+7+7+7+7+12+12	7+7+7+9+9+9+24	7+9+9+9+12+12+12	7+7+7+7+7+9+9	-	-
7+7+7+7+7+12+18	7+7+7+9+9+12+12	9+9+9+9+9+9+9	7+7+7+7+7+9+12	-	-
7+7+7+7+7+12+21	7+7+7+9+9+12+18	9+9+9+9+9+9+12	7+7+7+7+7+9+18	-	-
7+7+7+7+7+12+24	7+7+7+9+9+12+21	9+9+9+9+9+9+18	7+7+7+7+7+9+12	-	-
7+7+7+7+7+18+18	7+7+7+9+12+12+12	9+9+9+9+9+12+12	7+7+7+7+7+12+12	-	-
7+7+7+7+9+9+9	7+7+7+9+12+12+18	9+9+9+9+12+12+12	7+7+7+7+9+9+9	-	-
7+7+7+7+9+9+12	7+7+7+12+12+12+12	-	7+7+7+7+9+9+12	-	-
7+7+7+7+9+9+18	7+7+9+9+9+9+9	-	7+7+7+7+9+9+12+12	-	-
-	-				
-	-				

Outdoor Unit

Model	Heat Pump		GWHD(42S)NK3CO	GWHD(48S)NK3CO	GWHD<48S>NM3DO	GWHD(56S)NK3CO	GWHD<56S>NM3DO
Capacity	Cooling	Btu/h	42000	47800	47800	52900	54600
	Heating	Btu/h	42700	53000	54600	59700	61400
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	3Ph,380-415V,50Hz	1/220~240/50	3Ph,380-415V,50Hz
Power input	Cooling	kW	4.10	4.90	4.60	5.30	5.20
	Heating	kW	3.70	4.30	4.25	4.80	4.70
Refrigerant charge volume		kg	4.95	4.95	4.95	4.95	4.95
Air Pressure Level		m^3/h	6400	6400	6600	7000	6600
Sound pressure level		dB(A)	55	55	58	58	58
Dimension(W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345	900×340×1345	900×340×1345
	Package	mm	993×453×1500	993×453×1500	993×453×1500	993×453×1500	993×453×1500
Net weight/Gross weight		kg	116/125	116/125	121/132	116/125	121/132
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ16	φ5/8(15.9)	φ19
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ9.52	φ3/8(9.52)	φ9.52
Max. equivalent connection pipe length		m	115	135	135	145	145
Maximum drive IDU NO.		unit	6	8	8	9	9
Loading quantity	40'GP/40'HQ	sets	50/50	50/50	50/50	50/50	50/50

1.The product with * is under development, and the parameters are estimated，please refer to the value on nameplates.
2. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

BU Module

Model			FXA2A-K	FXA2B-K	FXA3A-K	FXA3B-K	FXB3A-K	FXB5A-K
Fuse current		A	3.15	3.15	3.15	3.15	3.15	3.15
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Dimension(W×D×H)	Outline	mm	361×313×182	361×313×182	361×313×182	361×313×182	513×312×193	513×312×193
	Package	mm	683×392×258	683×392×258	683×392×258	683×392×258	676×473×268	676×473×268
Connection Method		—	Flare	Braze	Flare	Braze	Flare	Flare
Net weight/Gross weight		kg	6.5/8.3	6.5/8.3	7.0/9.0	7.0/9.0	8.0/10.0	9.0/11.0
Connecting pipe diameter (to IDU)	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
Connecting pipe diameter (to ODU)	Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
Maximum connect IDU NO.		unit	2	2	3	3	3	5
Loading quantity	40'GP	sets	294	294	294	294	246	246
	40'HQ	sets	294	294	294	294	246	246
Max. Equivalent		m	15	15	15	15	15	15

Wall Mounted Indoor Unit

Hansol

Model			GWH(07)TA-K3DNA1E/I	GWH(09)TA-K3DNA1E/I	GWH(12)TB-K3DNA1E/I	GWH(18)TC-K3DNA1E/I
Capacity	Cooling	Btu/h	7165	8530	11942	18084
	Heating	Btu/h	8871	9383	12454	19107
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h(SH/H/M/L)	550/490/370/290	550/490/370/290	770/670/530/410	950/870/710/560
		CFM(SH/H/M/L)	324/288/218/171	324/288/218/171	430/394/312/241	559/512/418/330
Sound pressure level		dB(A)(SH/H/M/ML/L/SL)	41/36/34/32/28/24/21	41/36/34/32/28/24/21	43/36/34/32/28/24/21	49/44/41/39/36/33/30
Connecting pipe	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)	Φ5/8(15.9)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	806×209×292	806×209×292	866×209×292	1018×230×319
	Package	mm	888×297×377	888×297×377	945×297×377	1097×340×397
Net weight/Gross weight		kg	10.5/13.0	10.5/13.0	11.0/13.5	15.0/18.5
Loading quantity	20'GP	sets	266	266	252	174
	40' GP/40' HQ	sets	553/632	553/632	518/592	366/427

Lomo

Model			GWH07QA-K3DNA5C/I	GWH09QB-K3DNA1G/I	GWH12QC-K3DNA1G/I	GWH18QD-K3DNA1G/I	GWH24QE-K3DNA1G/I
Capacity	Cooling	Btu/h	7506	8871	12000	17500	22900
	Heating	Btu/h	7848	9600	12500	18000	24800
Power Supply		Ph,V,Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow Volume	Indoor	m^3/h	500/420/390/300	560/490/430/330	660/540/460/330	800/720/610/520	1150/1050/950/850
Sound Power Level	Indoor	dB(A)(SH/H/M/L)	40/36/34/24	55/52/44/38	57/53/45/42	58/54/51/48	64/59/56/53
Outline Dimension	WxHxD	mm	713×270×195	790×275×200	845×289×209	970×300×224	1078×325×246
Package Dimension	WxHxD	mm	776×268×362	866×367×271	921×379×281	1041×383×320	1148×413×350
Net Weight/Gross Weight	Indoor	kg	8.5/10	9/11	10/12	13.5/16.5	17/20.5
Piping Connection	Gas	mm	φ9.52	φ9.52	φ9.52	φ12	φ16
	Liquid	mm	φ6	φ6	φ6	φ6	φ6
Loading Quantity	40'GP	sets	299	223	210	127	118
	40'HQ	sets	328	256	244	146	131

Cozy

Model			GWH(07)MA-K3DNA3E/I	GWH(09)MA-K3DNA3E/I	GWH(12)MB-K3DNA3E/I	GWH(18)MC-K3DNA3E/I
Capacity	Cooling	Btu/h	2200	8900	11900	18100
	Heating	Btu/h	8900	9600	13000	19800
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h(SH/H/M/L)	450/410/380/320	500/410/380/320	630/500/420/350	850/780/650/550
		CFM(SH/H/M/L)	265/241/224/188	294/241/224/188	371/295/247/206	500/459/383/324
Sound pressure level		dB(A)(SH/H/M/L)	36/34/31/28/-	37/34/31/28/-	38/34/32/30/-	46/43/40/36/-
Connecting pipe	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	790×170×265	790×170×265	845×180×275	940×200×298
	Package	mm	873×370×251	873×370×251	918×370×258	1013×288×395
Net weight/Gross weight		kg	9.0/11.0	9.0/11.0	10/12.5	13.0/16.0
Loading quantity	20'GP	sets	348	348	336	254
	40' GP/40' HQ	sets	732/852	732852	684/798	541/609

Viola

Model			GWH(07)RA-K3DNA3E/I	GWH(09)RA-K3DNA3E/I	GWH(12)RB-K3DNA3E/I	GWH(18)RC-K3DNA3E/I	GWH(24)RC-K3DNA1A/I
Capacity	Cooling	Btu/h	7200	8900	11900	18100	22000
	Heating	Btu/h	8900	9600	13000	19800	24200
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h(SH/H/M/L)	500/420/400/300	500/420/400/300	630/530/430/320	850/780/650/500	/
		CFM(SH/H/M/L)	294/247/235/177	294/247/235/177	371/312/253/194	500/459/383/294	588
Sound pressure level		dB(A)(SH/H/M/L)	40/37/35/32/-	40/37/35/32/-	42/39/36/33/-	45/42/37/33/-	48/46/44/42/-
Connecting pipe	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)	Φ5/8(15.9)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	794×186×265	794×186×265	848×189×274	945×208×298	1018×233×315
	Package	mm	873×258×365	873×258×365	926××371×267	1013×300×383	1086×328×398
Net weight/Gross weight		kg	9.0/11.5	9.0/11.5	10/12.5	13.0/16.0	15.5/20.5
Loading quantity	20'GP	sets	348	348	306	254	206
	40' GP/40' HQ	sets	720/840	720/840	636/740	541/609	430/491

Duct Type Indoor Unit

Model			GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I
Capacity	Cooling	Btu/h	8530	11940	17060	20470	24230
	Heating	Btu/h	9550	13140	18770	22520	27300
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h	450	500	700	1000	1000
		CFM	265	294	412	588.5	588.5
Sound pressure level (H/L)		dB(A)	37/31	39/32	41/33	42/34	42/34
Connecting pipe	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)	Φ5/8(15.9)	Φ5/8(15.9)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.52)	Φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	113×743×305	1323×743×305	1323×743×305
Net weight/Gross weight		kg	22/27	23/29	27/36	31/41	31/41
Loading quantity	20'GP	sets	108	108	90	72	72
	40' GP/40' HQ	sets	234/234	234/234	180/180	162/162	162/162

Cassette Type Indoor Unit

Model				GKH(12)BA-K3DNA2A/I	GKH(18)BA-K3DNA2A/I	GKH(12)BA-K3DNA1A/I	GKH(18)BA-K3DNA1A/I	GKH(24)BA-K3DNA1A/I
Capacity	Cooling		Btu/h	11942	15354	11942	17060	24225
	Heating		Btu/h	13648	17060	13136	18766	27296
Power supply			Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume			m^3/h	600	600	680	680	1180
			CFM	353	353	400	400	694
Sound pressure level (SH/H/MH/M/ML/L/SL)			dB(A)	46/44/42	46/44/42	37/35/33	37/35/33	39/37/35
Connecting pipe	Gas		inch(mm)	Φ3/8(9.52)	Φ1/2(12.7)	Φ3/8(9.52)	Φ1/2(12.7)	Φ5/8(15.9)
	Liquid		inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.52)
Main Body	Dimension (WxHxD)	Outline	mm	570×570×230	570×570×230	840×840×240	840×840×240	840×840×240
		Package	mm	851×731×325	851×731×325	963×963×325	963×963×325	963×963×325
	Net weight/Gross weight		kg	18.0/23.0	18/23	25.0/33.0	25.0/33.0	28.0/35.0
Panel	Dimension (WxHxD)	Outline	mm	650×650×50	650×650×50	950×950×60	950×950×60	950×950×60
		Package	mm	733×673×117	733×673×117	1043×1028×130	1043×1028×130	1043×1028×130
	Net weight/Gross weight		kg	2.5/3.5	2.5/3.5	6.5/10	6.5/10	6.5/10
Loading quantity	20'GP		sets	102	102	48	48	40
	40' GP/40' HQ		sets	209/246	209/246	128/144	128/144	108/128

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BA-K3DNA1A/I
Capacity	Cooling	Btu/h	8530	11942	17060	24225
	Heating	Btu/h	9556	13136	18766	27296
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h	650	650	950	1250
		CFM	382.5	382.5	559	736
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/38/36	40/38/36	45/42/40	48/46/44
Connecting pipe	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)	Φ5/8(15.9)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	1220×700×225	1220×700×225	1220×700×225	1220×700×225
	Package	mm	1343×823×315	1343×823×315	1343×823×315	1343×823×315
Net weight/Gross weight		kg	40/50	40/50	40/50	45/54
Loading quantity	20'GP	sets	66	66	66	66
	40' GP/40' HQ	sets	132/132	132/132	132/132	132/132

Console

Model			GEH(09)AA-K3DNA1C/I	GEH(12)AA-K3DNA1C/I	GEH(18)AA-K3DNA1C/I
Capacity	Cooling	Btu/h	8700	11900	18100
	Heating	Btu/h	9600	13000	19800
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h	500	600	650
		CFM	294	353	383
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/27	48/46/44/41/37/35/32
Connecting pipe	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)
	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	700×215×600	700×215×600	700×215×600
	Package	mm	791×286×710	791×286×710	791×286×710
Net weight/Gross weight		kg	15/18	15/18	15/18
Loading quantity	20'GP	sets	168	168	168
	40' GP/40' HQ	sets	348/440	348/440	348/440

1.The product with * is under development, and the parameters are estimated，please refer to the value on nameplates.
2. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Control System Lineup

Controlling system \ Product series			Wall-mounted type				Duct type	Cassette type	Floor ceiling type	Console type
			Lomo	Hansol	Cozy	Viola				
Wireless remote controller	YAA1FB1									●
	YT1F(MOTO)				●	●	●	●	●	
	YAG1FB			●						
	YB1F2 (XFAN)									
	YAN1F1(XFAN)		●							
Wired controller	XK19						●	●	●	
	XK41/XK47			●					●	
	XK76			●			●	●	●	●
Centralized controller	CE50-24/E						●	●	●	

Note: ● means standard, ● means optional.

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Award and Certification

ISO 9001 Quality System Certificate

ISO 14001 Environment Management System Certificate

ISO 18001 Occupation Healthy Safety System Certificate

Canadian CSA Certificate

German TÜV Certificate

3C Certificate

European Communities CE Certificate

American UL Certificate

Russian Safety Certificate

EQM

SASO Certificate

Mexico NOM Safety Certificate

German GS Certificate

European EMC Certificate

Argentina Safe Certificate

China EMC Certificate

Hongkong Energy-saving Certificate

Hongkong Safety Certificate

Australian SAA Safe Certificate

Australia SAA Certificate

CQC Certificate

America ETL Certificate

Canadian ETL Certificate

Thailand TIS Certificate