

GREE
AIR CONDITIONER

ASGHARIAN
HOLDING



Free Match
Super Free Match
50Hz

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.

The World`s Biggest Public Companies

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Filter list by: All industries All countries All states Search by company name

Bank	Company	Country	Sales	Profits	Assets	Market Value
 #385	Gree Electric Appliances	China	\$21.2 B	\$2.1 B	\$20 B	\$21.6 B
 #436	Midea Group Co.Ltd.	China	\$22.9 B	\$1.7 B	\$19.4 B	\$29.3 B
 #625	Whirlpool	United States	\$19.9 B	\$65.0M	\$20 B	\$18.7 B
 #781	Qingdao Haier	China	\$14.4 B	\$81.0M	\$19.1 B	\$18.7 B

مكيفر غازى
 مكيف الهواء
 air conditioner
 에어컨
 행온풍기
 エアコン
 空调
 climatiseur
 acondicionador de aire
 ar condicionado
 300,000,000 users



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GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

No. 1
air conditioner
manufacturer

Free Match



Wall mounted type



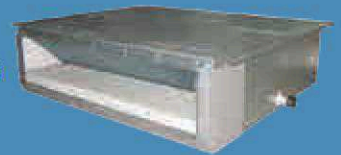
Cassette type



Floor ceiling type



Duct type





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. Residential 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.

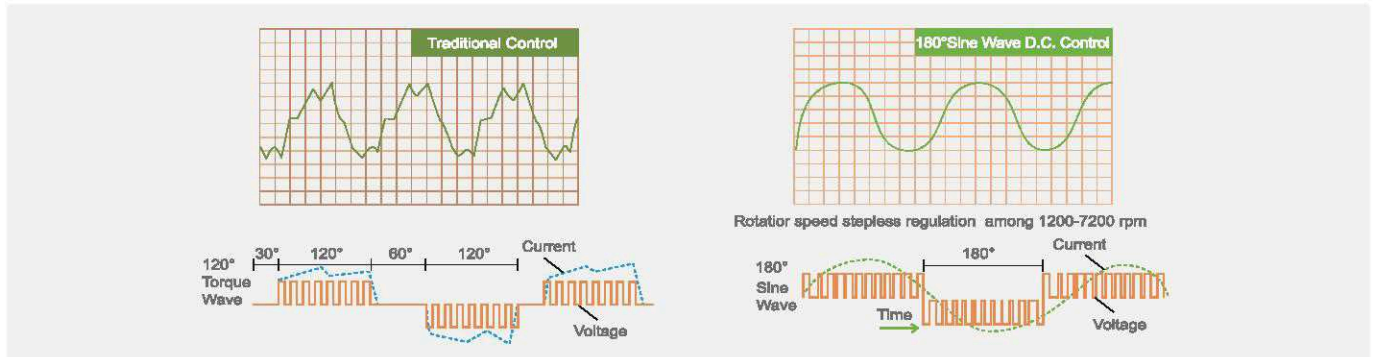


Any kinds of Combinations you want. Max. 5 indoor units for 42K Btu/h outdoor units.

High Efficiency and More Energy-saving

More Energy-saving

Adopt advanced DC inverter 180° 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.

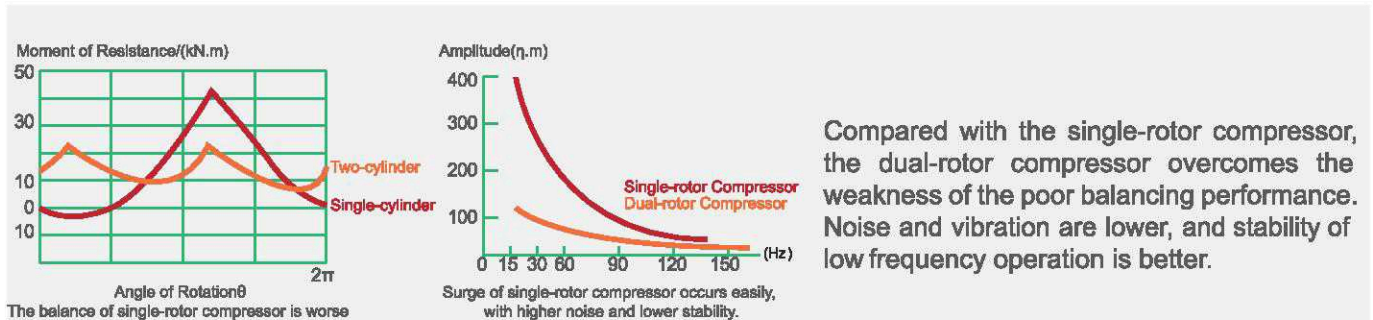


Stepless Adjustment

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.

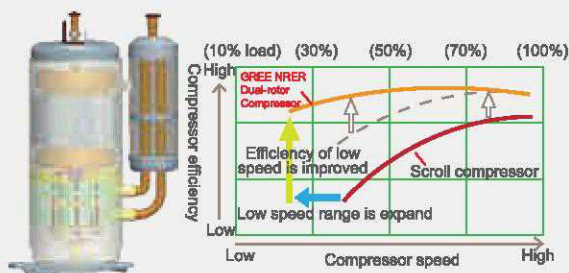
High-efficiency Compressor

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

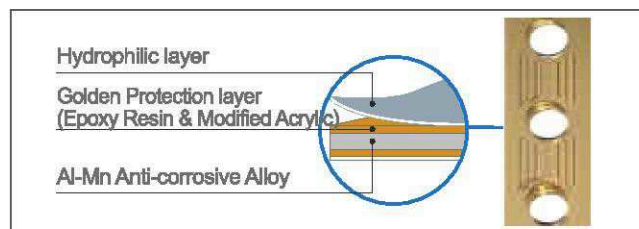
High-efficiency Inner-grooved Copper Tube

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



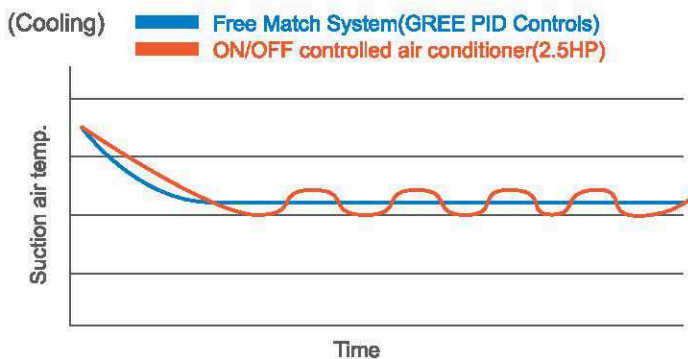
Slit Type Fin with Anti-corrosion Coating

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

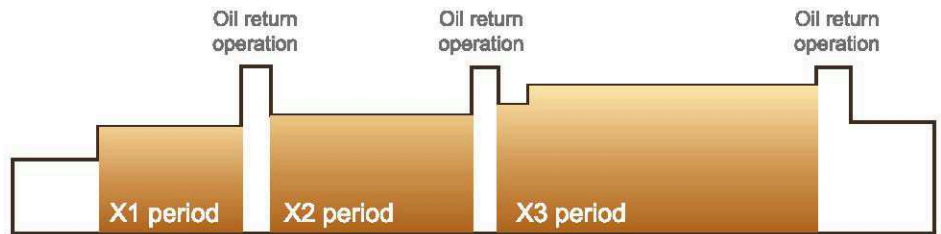
GREE Free Match intelligent control and modulating valves could deliver the required capacity, according to the load variation from 10% to 100%. The intelligent control and modulating valves limit or increase the cooling capacity, so humidity and temperature are kept in the comfortable range. Electronic 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°C 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 occurred.

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 °C), the heating capacity of the system can be increased automatically to guarantee a reliable and sufficient heating effect.

Convenient and Comfortable

Energy-saving

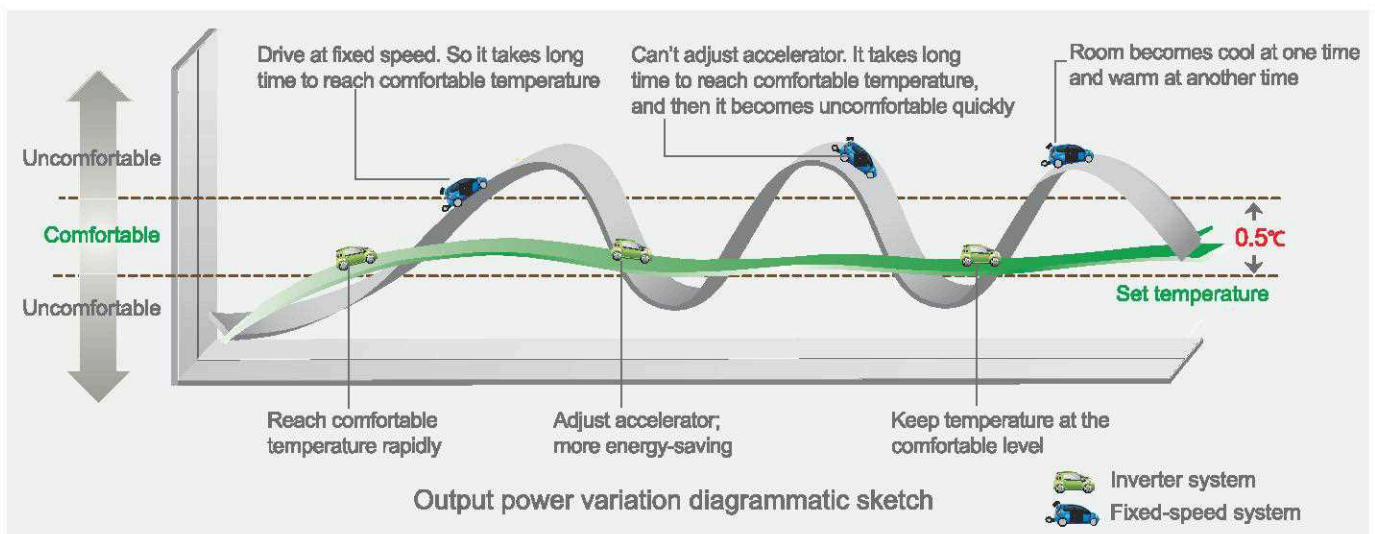
GREE advanced DC inverter 180° vector control ensures the stable operation for compressor, energy-saving up to 20% per year (compared with the normal air conditioner).

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°C of set temperature.

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.



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.

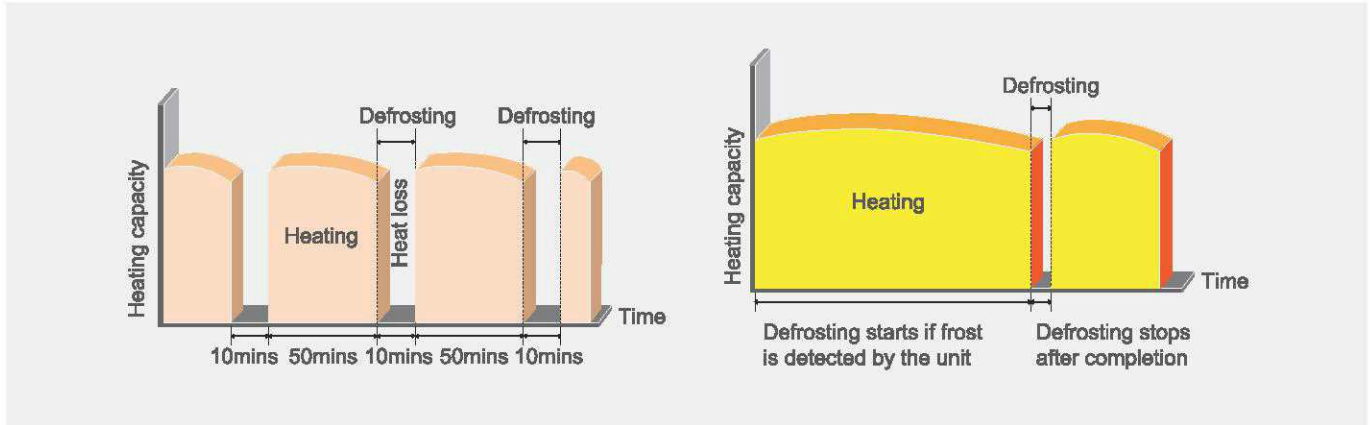


DC motor



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°C (14K/18K/24K/28K).

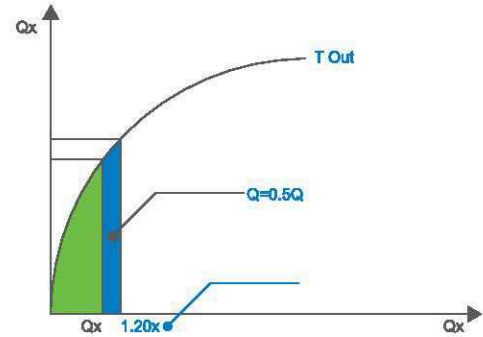
- System targeted control parameter
- Compressor output capacity
- Fan capacity output
- Outdoor ambient temperature
- Stable operation in cool mode



Low-temperature Heating

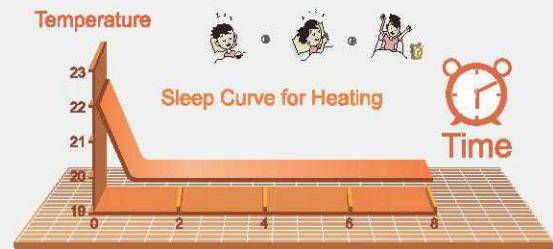
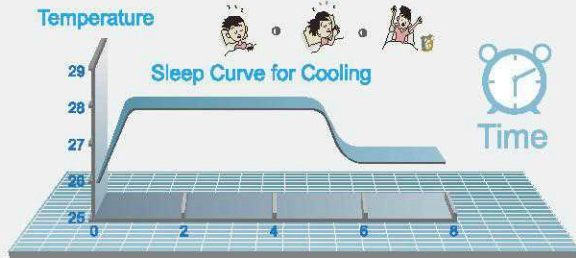
When outdoor ambient temperature is low, system can increase its capacity automatically. Heating capacity can be increased by 1.5 times in maximum, which satisfies user's requirement for comfort to the largest extent.

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



Sleep Mode

Comfortable Sleep Mode

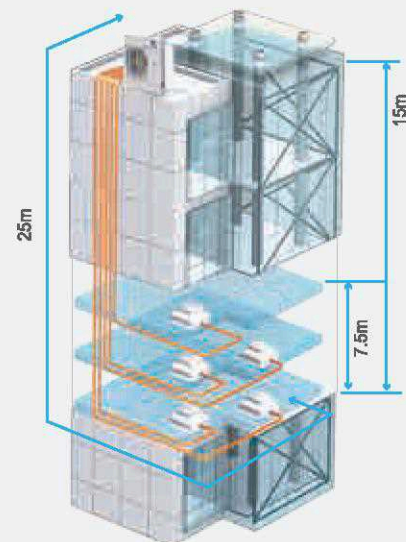


Long Piping for Flexible Installation

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)

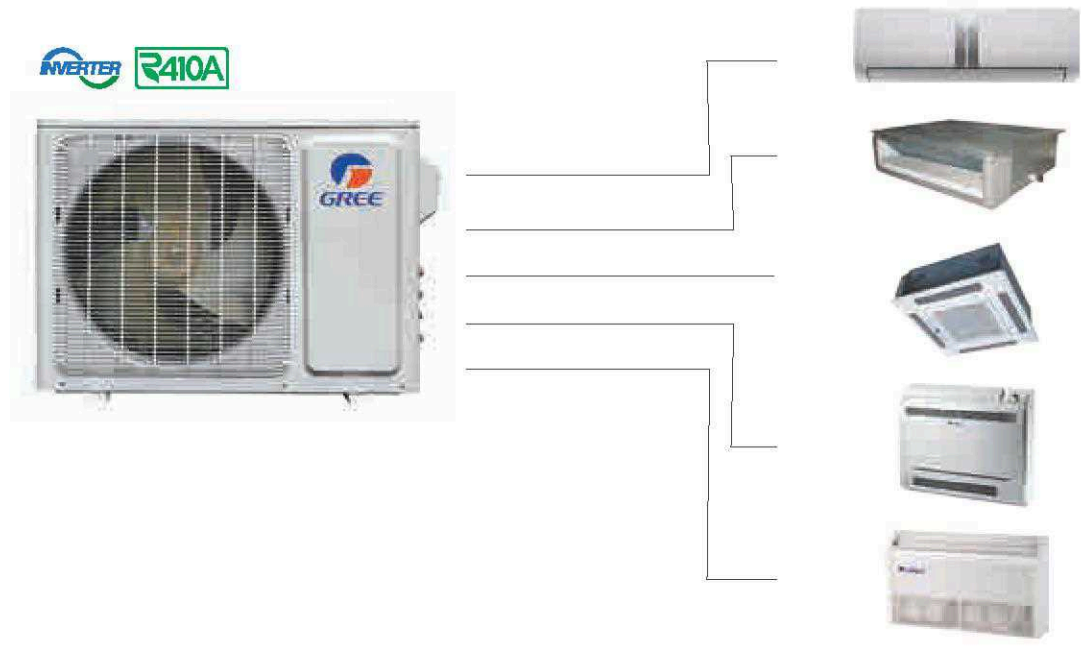
* This value can be used whether outdoor unit is located under or above indoor unit.



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.

G10 Inverter Technology Less power consumption
Lower noise, more comfort
Precise temperature control

-15°C Low Temperature Operation Operate stably when heating at -15°C.

- 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(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)	
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

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


8 Combinations

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


10 Combinations

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


23 Combinations

	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

	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

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

203 Combinations

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



GWHD(42)NK3AO(2 to 5)

Outdoor Unit

Model	Heat Pump	GWHD(14)NK3BO	GWHD(18)NK3DO	GWHD(24)NK3DO	GWHD(24)NK3EO	GWHD(28)NK3BO	GWHD(36)NK3AO	GWHD(42)NK3AO	
Capacity	Cooling	BTU/h	14000	17000	24000	24000	27296	33400	41265
	Heating	BTU/h	15000	19000	26000	29000	32000	37500	44358
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	2800	2800	3300	3300	3300	3000	5500	
Sound pressure level	dB(A)	58	56	58	58	59	54	54	
Dimension (WxDxB)	Outline	mm	899x596x378	899x596x378	955x700x396	955x700x396	955x840x412	1015x1103x440	
	Package	mm	948x645x420	948x645x420	1029x750x458	1029x750x458	1029x750x458	1103x920x453	1158x1235x493
Net weight/Gross weight	kg	43/48	43/48	59/84	59/84	60/85	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	80	80	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



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/MLL/SL)	dB(A)	37/35/30/28		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		898×320×159		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 38/42K 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	PhV/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	PhV/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	945x298x211
	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	643/748	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	PhV/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	844×342×261	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	17080	24225
	Heating	BTU/h	9554	13136	18768	27296
Power supply	PhV/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	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	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	1180
			CFM	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	Dimension (W×D×H)	Outline	mm	570×570×230	840×840×240
		Package	mm	851×731×325	963×963×325
Net weight/Gross weight		kg	18/23	18/23	28/35
Panel	Dimension (W×D×H)	Outline	mm	650×650×50	950×950×60
		Package	mm	733×673×117	1043×1028×130
Net Weight/Gross weight		kg	2.5/3.5	2.5/3.5	6.5/10
Loading quantity		20°GP	set	102	40
		40°GP/40°HQ	set	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
			CFM	265	324	412	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	90	72	72
		40°GP/40°HQ	set	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		W×H×D	700×800×215	700×800×215	700×800×215
Package Dimension		W×H×D	788×697×283	788×697×283	788×697×283
Net Weight /Gross Weight		kg	15/18	15/18	15/18
Loading Quantity		40°GP	sets	392	392
		40°HQ	sets	454	454

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

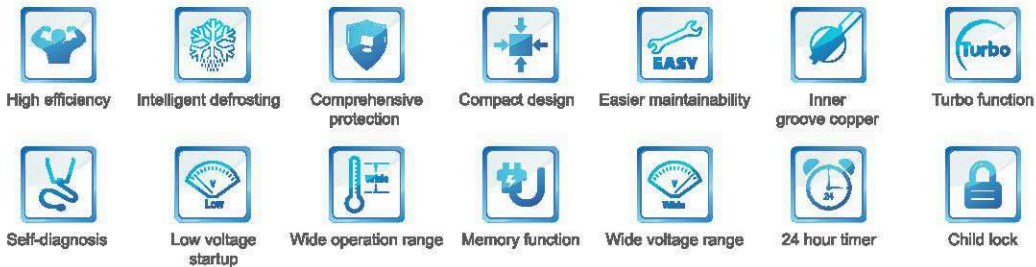
Control System Lineup

Controlling system \ Product series			Wall-mounted Type				Duct type	Cassette type	Floor ceiling type	Console type
			U-Cool	Viola	Cozy	Change				
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 & 4+

Capacity range from 18K to 42K Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.



- Operate stably when cooling at -15°C .
- Different units for selection, the same comfortable feeling for you.
- Lower power consumption; lower noise, more comfort; precise temperature control.
- Free Match 4 has no 0.5W standby function, while it has electric heating belt; Free Match 4+ has 0.5W standby function, while it hasn't electric heating belt.

Outdoor Unit (Free match 4&4+)

Model	Heat Pump		GWHD(14)NK3DO	GWHD(18)NK3KO	GWHD(21)NK3KO	GWHD(24)NK3MO	GWHD(28)NK3KO	GWHD(36)NK3BO	GWHD(42)NK3AO
	Cooling	Heating	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
Capacity	BTU/h	BTU/h	14000	18000	21000	24000	28000	35826	41285
SEER	W/W	W/W	6.1	6.1	6.1	6.1	6.1	5.5	5.5
Power supply	Ph/V/Hz		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	kg	1.4	1.4	2.2	2.2	2.4	4.3	4.8
Air flow volume	m ³ /h	m ³ /h	2800	3200	3200	4000	4000	5200	5500
Sound pressure level	dB(A)	dB(A)	55	56	56	58	58	57	54
Dimension (W×D×H)	Outline	mm	899×596×378	955×396×700	955×396×700	980×790×427	980×790×427	1088×440×1107	1088×440×1107
	Package	mm	948×420×645	1029×458×750	1029×458×750	1083×488×855	1083×488×855	1158×493×1235	1158×493×1235
Net weight/Gross weight	kg	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(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	m	20	20	60	60	70	70	70
Maximum drive IDU NO.	unit	unit	5	5	5	5	5	4	5
Loading quantity	40'GP/40'HQ	set	204/272	171/171	171/171	96/144	96/144	48/96	48/96

Item	Nominal operating condition(temperature)				Operation range(temperature)	
	Outdoor condition		Indoor condition		Outdoor condition (Free match 4)	Outdoor condition (Free match 4+)
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)	DB(°C)
Cooling	35	24	27	19	-15~43	18~43
Heating	7	6	20	15	-20~24	-15~24

Combinations of Outdoor Unit


8 Combinations

 GWHD(14)NK3DO	One unit		Two units	
	7		7+7	7+9
	9		7+12	9+9
	12		9+12	-


10 Combinations

 GWHD(18)NK3KO	One unit		Two units	
	7		7+7	7+9
	9		7+12	7+18
	12		9+9	9+12
	-		12+12	-

18 Combinations

 GWHD(21)NK3KO	Two units			Three units		
	7+7		7+9	7+7+7		7+7+9
	7+12		7+18	7+7+12		7+9+9
	9+9		9+12	7+9+12		7+12+12
	9+18		12+12	9+9+9		9+9+12
	12+18		-	12+12+12		-

23 Combinations

 GWHD(24)NK3MO	Two units			Three units		
	7+7		7+9	7+7+7		7+7+9
	7+12		7+18	7+7+12		7+7+18
	9+9		9+12	7+9+9		7+9+12
	9+18		12+12	7+9+18		7+12+12
	12+18		18+18	9+9+9		9+9+12
				9+9+18		9+12+12
			12+12+12		/	


40 Combinations

 GWHD(28)NK3KO	Two units		Three units			Four units	
	7+7	7+9	7+7+7	7+7+9	7+7+7+7	7+7+7+9	
	7+12	7+18	7+7+12	7+7+18	7+7+7+12	7+7+7+18	
	9+9	9+12	7+9+9	7+9+12	7+7+9+9	7+7+9+12	
	9+18	12+12	7+9+18	7+12+12	7+7+9+18	7+7+12+12	
	12+18	18+18	7+12+18	9+9+9	7+9+9+9	7+9+9+12	
	-	-	9+9+12	9+9+18	7+9+12+12	9+9+9+9	
	-	-	9+12+12	9+12+18	9+9+9+12	9+9+12+12	
	-	-	12+12+12	12+12+18	-	-	

97 Combinations

 GWHD(36)NK3BO	Two units		Three units			Four units			
	7+12	18+18	7+7+7	7+12+21	9+12+21	7+7+7+7	7+7+12+21	7+12+12+18	
	7+18	18+21	7+7+9	7+12+24	9+12+24	7+7+7+9	7+7+12+24	9+9+9+9	
	7+21	18+24	7+7+12	7+18+18	9+18+18	7+7+7+12	7+7+18+24	9+9+9+12	
	7+24	21+21	7+7+18	7+18+21	9+18+21	7+7+7+18	7+9+9+9	9+9+9+18	
	9+9	21+24	7+7+21	7+18+24	9+18+24	7+7+7+21	7+9+9+12	9+9+9+21	
	9+12	24+24	7+7+24	7+21+21	9+21+21	7+7+7+24	7+9+9+18	9+9+9+24	
	9+18	-	7+9+9	9+9+9	12+12+12	7+7+9+9	7+9+9+21	9+9+12+12	
	9+21	-	7+9+12	9+9+12	12+12+18	7+7+9+12	7+9+9+24	9+9+12+18	
	9+24	-	7+9+18	9+9+18	12+12+21	7+7+9+18	7+9+12+12	9+9+12+21	
	12+12	-	7+9+21	9+9+21	12+12+24	7+7+9+21	7+9+12+18	9+9+18+18	
	12+18	-	7+9+24	9+9+24	12+18+18	7+7+9+24	7+9+12+21	9+12+12+12	
	12+21	-	7+12+12	9+12+12	12+18+21	7+7+12+12	7+9+18+18	9+12+12+18	
	12+24	-	7+12+18	9+12+18	18+18+18	7+7+12+18	7+12+12+12	12+12+12+12	

155 Combinations

 GWHD(42)NK3AO	Two units		Three units		Four units			Five units		
	7+18	7+7+9	7+21+21	12+12+12	7+7+7+7	7+7+18+24	7+12+12+21	7+12+18+18	7+7+7+7+7	7+7+9+12+12
	7+21	7+7+9	7+21+24	12+12+18	7+7+7+9	7+9+9+9	7+12+12+24	9+9+9+9	7+7+7+7+9	7+7+9+12+18
	7+24	7+7+12	7+24+24	12+12+21	7+7+7+12	7+9+9+12	7+12+18+18	9+9+9+12	7+7+7+7+12	7+7+9+12+21
	9+12	7+7+18	9+9+9	12+12+24	7+7+7+18	7+9+9+18	7+12+18+21	9+9+9+18	7+7+7+7+18	7+7+12+12+12
	9+18	7+7+21	9+9+12	12+18+18	7+7+7+21	7+9+9+21	7+12+18+24	9+9+9+21	7+7+7+7+21	7+7+12+12+18
	9+21	7+7+24	9+9+18	12+18+21	7+7+7+24	7+9+9+24	7+12+21+21	9+9+9+24	7+7+7+7+24	7+9+9+9+9
	9+24	7+9+9	9+9+21	12+18+24	7+7+9+9	7+9+12+12	7+18+18+18	9+9+12+12	7+7+7+9+9	7+9+9+9+12
	12+12	7+9+12	9+9+24	12+21+21	7+7+9+9	7+9+12+18	9+9+9+9	9+9+12+18	7+7+7+9+12	7+9+9+9+18
	12+18	7+9+18	9+12+12	12+21+24	7+7+9+12	7+9+12+21	9+9+9+12	9+9+12+21	7+7+7+9+18	7+9+9+9+21
	12+21	7+9+21	9+12+18	12+24+24	7+7+9+18	7+9+12+24	9+9+9+18	9+9+12+24	7+7+7+9+21	7+9+9+12+12
	12+24	7+9+24	9+12+21	18+18+18	7+7+9+21	7+9+18+18	9+9+9+21	9+9+18+18	7+7+7+9+24	7+9+9+12+18
	18+18	7+12+12	9+12+24	18+18+21	7+7+9+24	7+9+18+21	9+9+9+24	9+12+12+12	7+7+7+12+12	7+9+12+12+12
	18+21	7+12+18	9+18+18	18+18+24	7+7+12+12	7+12+12+12	9+9+12+12	9+12+12+18	7+7+7+12+18	7+12+12+12+12
	18+24	7+12+21	9+18+21	18+21+21	7+7+12+18	7+12+12+18	9+9+12+18	9+12+12+21	7+7+7+12+21	9+9+9+9+9
	21+21	7+12+24	9+18+24	-	7+7+12+21	7+12+12+21	9+9+12+21	12+12+12+12	7+7+9+9+9	9+9+9+9+12
	21+24	7+18+18	9+21+21	-	7+7+12+24	7+12+12+24	9+9+12+24	12+12+12+18	7+7+9+9+12	9+9+9+9+18
	24+24	7+18+21	9+21+24	-	7+7+18+18	7+12+18+18	9+9+18+18	-	7+7+9+9+18	9+9+9+12+12
	-	7+18+24	7+24+24	-	7+7+18+21	9+9+9+9	9+9+18+21	-	7+7+9+9+21	9+9+12+12+12

Indoor Unit Lineup

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

Wall-mounted Type Indoor Unit

Hansol (Free Match 4&4+)



Model		GWH07TB-S3DNA1D/I		GWH09TB-S3DNA1D/I		GWH12TB-S3DNA1D/I		GWH18TC-S3DNA1D/I		GWH24TD-S3DNA1D/I	
Capacity	Cooling	BTU/h	7200	8530	12000	18084	23800				
	Heating	BTU/h	8880	10920	13800	18425	24900				
Power supply		PhV/Hz	1Ph,220-240V,50Hz								
Airflow volume		m³/h	600	650	750	950	1200				
		CFM	353	383	441	559	708				
Sound pressure level(SH/H/MH/M/ML/L/SL)		dB(A)	38/36/32/30	43/36/34/32	43/36/34/32	46/44/42/40	51/50/46/44				
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	806×209×292	806×209×292	806×209×292	1018×230×319	1178×264×325				
	Package	mm	888×297×377	888×297×377	945×297×377	1097×340×397	1256×364×414				
Net weight/Gross weight		kg	10/12	11/12	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	566/640	566/640	566/640	366/427	276/322				

Lomo (Free Match 4&4+)*



Model		GWH07QB-K3DNA1G/I		GWH09QB-K3DNA1G/I		GWH12QC-K3DNA1G/I		GWH18QD-K3DNA1G/I		GWH24QE-K3DNA1G/I	
Capacity	Cooling	BTU/h	7165	8880	12000	17500	23800				
	Heating	BTU/h	8871	9550	12500	18000	24900				
Power supply		PhV/Hz	1Ph,220-240V,50Hz								
Airflow volume		m³/h	550	560	660	800	1150				
		CFM	324	330	388	471	677				
Sound pressure level(H/M/L/SL)		dB(A)	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	955×700×396				
	Package	mm	866×271×367	866×271×367	921×281×379	1041×383×320	1029×750×458				
Net weight/Gross weight		kg	9/11	9/11	10.0/12.0	13.5/16.5	17/20.5				
Loading quantity	20'GP	set	334	334	294	229	172				
	40'GP/40'HQ	set	692/804	692/804	600/674	489/557	336/392				

Cozy (Free Match 4&4+)



Model		GWH07MB-K3DNE3G/I		GWH09MB-K3DNE3G/I		GWH12MB-K3DNE3G/I		GWH18MC-K3DNE3G/I		GWH24MD-K3DNE3G/I	
Capacity	Cooling	BTU/h	7200	8900	12000	18000	22000				
	Heating	BTU/h	8880	10240	13800	19800	24000				
Power supply		PhV/Hz	1Ph,220-240V,50Hz								
Airflow volume		m³/h	580	600	600	850	1000				
		CFM	341	353	353	500	588				
Sound pressure level(H/M/L/SL)		dB(A)	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	845×180×275	940×200×285	1007×315×219				
	Package	mm	918×370×258	918×370×258	918×370×258	1013×383×300	1078×398×328				
Net weight/Gross weight		kg	9/11	9/11	9/11	12.0/15.0	15/18.5				
Loading quantity	20'GP	set	318	318	318	254	210				
	40'GP/40'HQ	set	684×798	684×798	684×798	541/609	434/496				

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

Viola (Free Match 4&4+)*



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	13000	19790	24000
Power supply		PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume		m³/h	580	600	600	850	1000
		CFM	341	353	353	500	588
Sound pressure level(H/M/L/SL)		dB(A)	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	845x208x298	1018x233x315
	Package	mm	926x267x371	926x267x371	926x267x371	1013x383x300	1086x328x398
Net weight/Gross weight		kg	9.0/11.0	9.0/11.0	9.0/12.0	12.0/15.0	15/18.5
Loading quantity	20°GP	set	306	306	306	252	203
	40°GP/40°HQ	set	636/742	636/742	636/742	541/609	427/488

Change (Free Match 4&4+)



Model			GWH07KF-K3DNA6G/I	GWH09KF-K3DNA6G/I	GWH12KF-K3DNA6G/I	GWH18KG-K3DNA6G/I	GWH24KG-K3DNA6G/I
Capacity	Cooling	BTU/h	7200	8880	12000	18000	22007
	Heating	BTU/h	8880	9550	13000	19000	23884
Power supply		PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume		m³/h	550	600	680	800	1000
		CFM	324	353	400	471	588
Sound pressure level(H/M/L/SL)		dB(A)	40/38/30/24	41/38/30/24	42/39/31/25	45/40/37/32	51/47/42/34
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	770x283x201	770x283x201	770x283x201	865x305x215	1007x315x219
	Package	mm	847x345x276	847x345x276	847x345x276	948x383x310	1076x398x328
Net weight/Gross weight		kg	328	328	9.0/10.5	12.0/15.0	14/17
Loading quantity	20°GP	set	335	335	335	264	210
	40°GP/40°HQ	set	700/786	700/786	700/786	542/616	434/496

U Crown(Free Match 4)



Model			GWH09UB-K3DNA4F/I	GWH12UB-K3DNA4F/I	GWH18UC-K3DNA4F/I
Capacity	Cooling	BTU/h	9000	12000	18000
	Heating	BTU/h	10200	12300	18000
Power supply		PhV/Hz	1Ph,220-240V,50Hz		
Airflow volume		m³/h	650	720	850
		CFM	389	424	500
Sound pressure level(H/M/L/SL)		dB(A)	41/37/35/33/30/22/19	43/38/36/34/31/23/20	46/42/40/38/33/25/22
Connecting pipe	Gas	inch(mm)	1/2(φ12.7)	1/2(φ12.7)	1/2(φ12.7)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)
Dimension (W×H×D)	Outline	mm	899x596x378	899x596x378	950700x396
	Package	mm	948x645x420	948x645x420	1029x750x458
Net weight/Gross weight		kg	44.5/47.5	44.5/47.5	51/55.5
Loading quantity	20°GP	set	79	79	58
	40°GP/40°HQ	set	165/191	165/191	123/141



Console Type Indoor Unit*1

Model			GEH(09)AA-K3DNA1B/I	GEH(12)AA-K3DNA1B/I	GEH(18)AA-K3DNA1B/I
Function			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/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		W×H×D	700x600x215	700x600x215	700x600x215
Package Dimension		W×H×D	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 not match with 36/42K outdoor unit.

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

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	17080	27296	
Power supply	PhV/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	Dimension (W×D×H)	Outline	mm	570×570×230	840×840×240	
		Package	mm	851×731×325	851×731×325	963×963×325
Panel	Dimension (W×D×H)	Outline	mm	650×850×50	650×850×50	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	PhV/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

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	13138	18768	27296
Power supply	PhV/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)		40/38	40/38	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	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	45/54
Loading quantity	20'GP		set	68	68	68
	40'GP/40'HQ		set	132/132	132/132	132/132

Control System Lineup

Controlling system	Product series		Wall-mounted type					Duct type	Cassette type	Floor ceiling type	Console type
			U Crown	Hansol	Viola	Lomo	Cozy				
Wireless remote controller		YAA1FB1 									●
		YAA1FB 			●						
		YT1F(XFAN) 					●				
		YB1F2 (XFAN) 						●			
		YAN1F1(XFAN) 				●					
		YAG1FB 		●							
		YT1F(MOTO) 						●	●	●	
		SAA1FB1 	●								
Wired controller		XK19 						●	●	●	
Centralized controller		CE50-24/E 						●	●	●	

Note: ● means standard, ● means optional.



Super Free Match



Wall mounted type



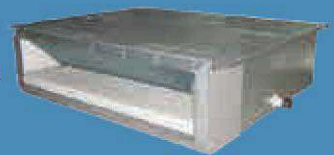
Cassette type



Floor ceiling type



Duct type



Console type

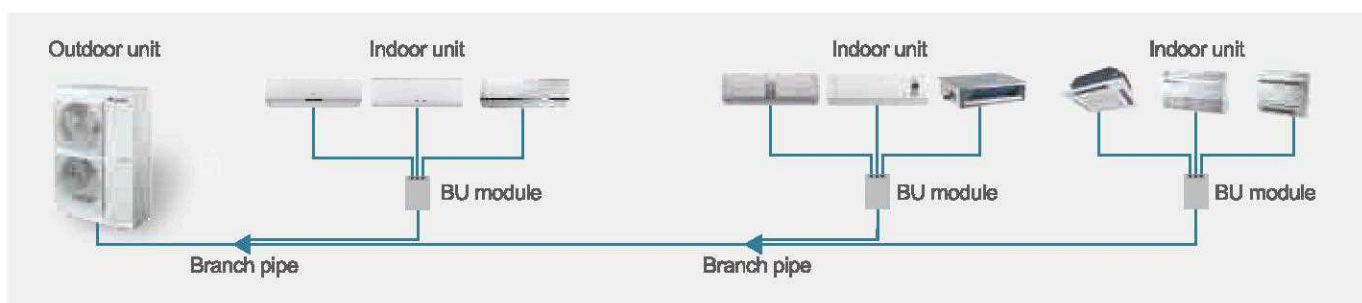


What is Super Free Match

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.



Maximum 9 IDU Connections



High-efficiency and More Energy-saving

High-efficiency DC Brushless Fan Motor

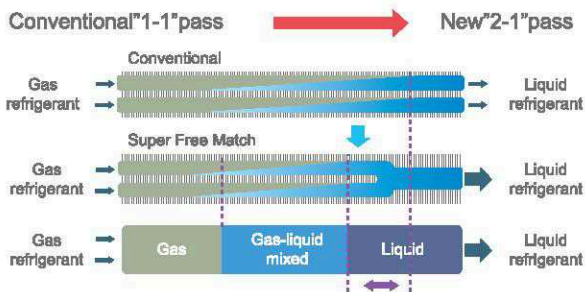
High-efficiency DC brushless fan motor offers greater efficiency and reduces operation noise.



High-efficiency Heat-exchanging Technology

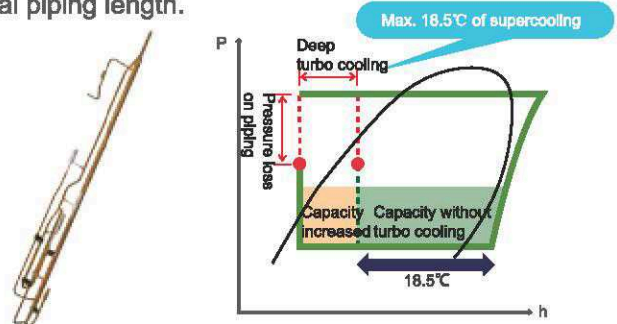
New "2-1" Pass

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°C 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.

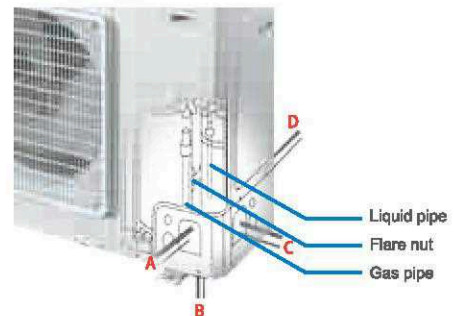


The Super Free Match System is able to recover the refrigerant automatically, which simplifies the refrigerant recovery operation, safe and reliable.

Easier Installation and Maintenance

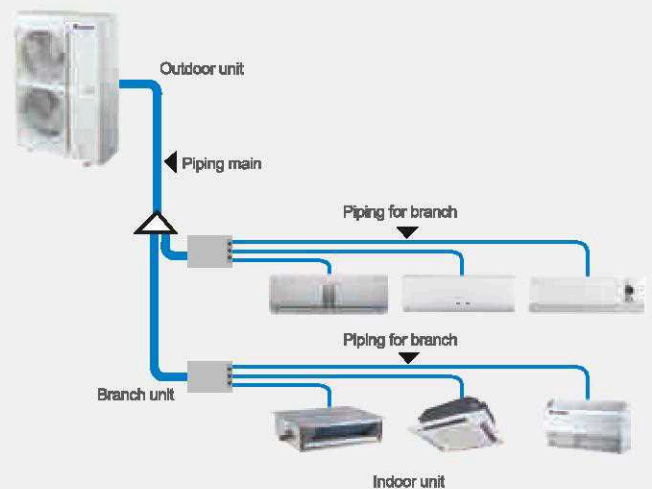
Flexible Piping Connection

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.

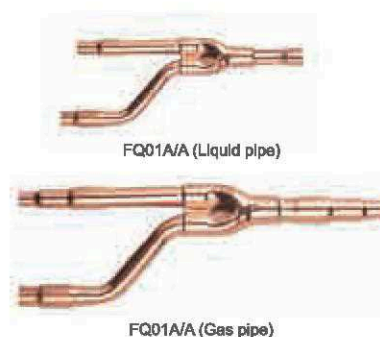
Convenient Service

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



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.

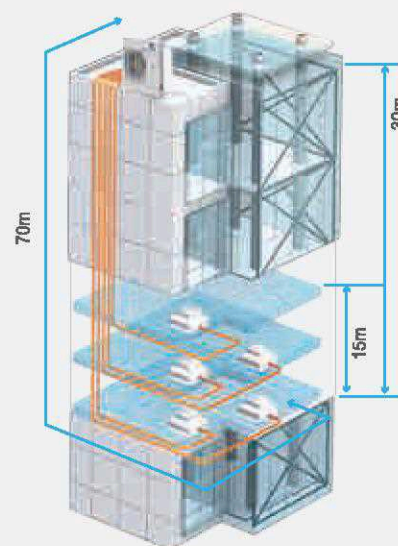


High Height Different Design

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

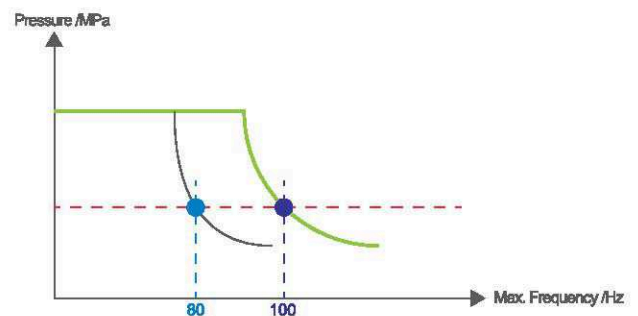
The new electric box, with quick debugger, is convenient for testing and maintenance.



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°C.



Product Lineup

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



42K/48K/56K Btu/h



FXA3A-K



FXB5A-K

- Power supply startup delay design, lower the unit starting current.
- Excellent part load performance and precise temperature control 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, convenient for installation.
- Stably heating under -20°C environment temperature. (Only for the models with LCLH function)



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

Indoor Unit Lineup

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

GWHD**NK3CO

Item	Nominal operating condition(temperature)				Operation range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	Cooling:-15~48 (with low ambient cooling) Cooling:18~48(without low ambient cooling)
Heating	7	6	20	15	Heating:-20~24(with low ambient cooling) Heating:-10~24(without low ambient cooling)

GWHD**NM3CO

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

Combinations of Outdoor Unit

163 Combinations



GWHD(42S)NK3CO
(2 to 6)

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

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

448 Combinations



GWHD(56S)NK3CO
(2 to 9)

GWHD(56S)NM3CO
(2 to 9)

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

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

	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+9+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+9+12+18	7+7+7+7+7+7+18	7+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+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+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+9+12	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+9+12	7+7+7+12+12+18	9+9+9+9+9+18	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+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+9+21	7+7+9+9+9+12	9+9+9+12+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+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+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+12+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+12+21	7+7+9+9+12+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+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+18+18	7+7+12+12+12+12	-	7+7+7+9+9+12	-
	7+7+7+18+21	7+9+9+9+12	9+9+9+9+18	-	7+7+7+7+18+21	7+8+8+8+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+9+9+21	7+9+9+9+9+12	-	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	-

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

Outdoor Unit

Model	Heat Pump		GWHD(42S)NK3CO	GWHD(48S)NK3CO	GWHD(56S)NK3CO	GWHD(48S)NM3CO	GWHD(56S)NM3CO
Capacity	Cooling	BTU/h	41300	47800	52900	47800	54600
	Heating	BTU/h	42700	53000	59700	54600	61400
EER/COP	Cooling		2.95/3.38	2.86/3.60	2.92/3.95	2.90/3.20	2.80/3.50
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Power Input	Cooling	kW	4.10	4.90	5.30	4.40	5.00
	Heating	kW	3.70	4.30	4.80	4.25	4.70
Refrigerant charge volume		kg	4.95	4.95	4.95	4.95	4.95
Airflow volume		m ³ /h	6400	6400	7000	6600	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	116/128	116/128	116/128	116/123	116/123
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Max. equivalent connection pipe length		m	70	70	70	70	70
Maximum drive IDU number		set	6	8	9	8	9
Loading quantity	40'GP/40'HQ	set	50/50	50/50	50/50	50/50	50/50

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
Sound pressure level	dB(A)	28	28	28	28	30	30
Sound Power Level	dB(A)	38	38	38	38	40	40
Dimension(W×D×H)	Outline	mm	532×313×182	532×313×182	532×313×182	532×313×182	617×410×193
	Package	mm	683×392×270	683×392×270	683×392×270	683×392×270	676×473×275
Connection Method		Flare	Braze	Flare	Braze	Flare	Flare
No. of IDU can connected		2	2	3	3	3	5
Type of ODU can connected		Single phase ODU			Three phase ODU		
Net weight/Gross weight	kg	6.0/8.0	6.0/8.5	6.5/8.5	6.5/8.5	8/10	9/11
Connecting pipe diameter (to IDU)	Gas	inch(mm)	φ3/8(9.52)	φ5/8(16.3)	φ3/8(9.52)	φ5/8(16.3)	φ5/8(16.3)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.5)	φ1/4(6.35)	φ1/4(6.5)	φ1/4(6.5)
Connecting pipe diameter (to ODU)	Gas	inch(mm)	φ5/8(15.9)	φ3/4(16.3)	φ5/8(15.9)	φ3/4(16.3)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.7)	φ3/8(9.52)	φ3/8(9.7)	φ3/8(9.7)
Maximum connect IDU NO.	unit	2	2	3	3	3	5
Loading quantity	40'GP	set	294	294	294	294	246
	40'HQ	set	294	294	294	294	246
Max. Equivalent Connection Pipe Length (BU unit to Last Indoor)	m	15	15	15	15	15	15

Wall-mounted Type Indoor Unit

Lomo



Model			GWH07QB-K3DNA1G/I	GWH09QB-K3DNA1G/I	GWH12QC-K3DNA1G/I	GWH18QD-K3DNA1G/I	GWH24QE-K3DNA1G/I
Capacity	Cooling	BTU/h	7165	8880	11900	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
Airflow volume		m ³ /h	550	560	660	800	1150
		CFM	324	330	388	421	677
Sound pressure level(H/M/L/SL)		dB(A)	38/36/32/28	55/52/44/38	57/53/45/42	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(φ12.7)	5/8(φ15.9)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)
Dimension (W×H×D)	Outline	mm	790×200×257	790×200×257	845×209×289	970×300×224	955×700×396
	Package	mm	866×271×367	866×271×367	921×281×379	1041×383×320	1029×750×458
Net weight/Gross weight		kg	9/11	9/11	10/12	13.5/16.5	17/20.5
Loading quantity	20'GP	set	334	334	294	229	168
	40'GP/40'HQ	set	692/804	692/804	600/674	479/545	336/392

U Crown



Model			GWH08UB-K3DNA4F/I	GWH12UB-K3DNA4F/I	GWH18UC-K3DNA4F/I
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		850	720	850
	CFM		383	424	500
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(φ12.7)	1/2(φ12.7)	1/2(φ12.7)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)
Dimension (W×H×D)	Outline	mm	899×596×378	899×596×378	850×700×396
	Package	mm	948×645×420	948×645×420	1029×750×458
Net weight/Gross weight	kg		44.5/47.5	44.5/47.5	51/55.5
Loading quantity	20°GP	set	79	79	58
	40°GP/40°HQ	set	165/191	165/191	123/141

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	18000
	Heating	BTU/h	8871	9383	12454	18500
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	550	770	950
	CFM		324	324	453	558
Sound pressure level(SH/H/MH/M/ML/L/SL)	dB(A)		41/36/34/32/28/24/21	41/36/34/32/28/24/21	43/36/34/32/28/24/22	46/44/42/40/38/36/34
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.9)
	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	806×292×209	806×292×209	866×292×209	1018×318×230
	Package	mm	888×297×377	888×297×377	945×295×377	1097×340×397
Net weight/Gross weight	kg		10.5/13	10.5/13.5	11.0/14.0	15.0/18.5
Loading quantity	20°GP	set	284	284	252	174
	40°GP/40°HQ	set	268/553	268/553	518/592	366/427

U-cool



Model			GWH(07)UA-K3DNA1B/I	GWH(09)UA-K3DNA1B/I	GWH(12)UB-K3DNA1B/I	GWH(18)UC-K3DNA1B/I
Capacity	Cooling	BTU/h	7165	7165	11942	18084
	Heating	BTU/h	8871	8871	12966	19790
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)		37/35/32/30/28/26/25	38/35/32/30/28/26/25	39/37/34/31/29/27/26	44/40/37/35/33/31/30
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	880×153×299	880×153×299	896×159×320	998×178×340
	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	668/740	666/740	585/650	440/495

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	9000	12000	18000	18089
	Heating	BTU/h	10200	13800	19800	19795
Power supply	Ph/V/Hz		1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1/220-240/50
Airflow volume	m³/h		600	600	850	850
	CFM		353	353	500	500
Sound pressure level(H/M/L/SL)	dB(A)		41/39/34/28	42/40/35/30	45/43/37/33	46/43/40/35/-
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	φ1/2(12.7)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)	φ1/4(6.35)
Dimension (W×H×D)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298
	Package	mm	918×370×258	918×370×258	1013×300×383	1013×288×395
Net weight/Gross weight	kg		9/11	9/11	13/16	13.0/16.0
Loading quantity	20°GP	set	318	318	248	254
	40°GP/40°HQ	set	798/684	798/684	539/607	541/609

Viola



Model			GWH(07)RA-K3DNA1E/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	9000	12000	18000	22000
	Heating	BTU/h	8900	10200	12500	18000	22000
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		500	600	600	850	1000
	CFM		294	353	353	500	588
Sound pressure level(H/M/L/SL)	dB(A)		40/37/35/32	40/34/30/23	42/35/32/23	45/40/37/33	50/44/39/35
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	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)	1/4 (φ6.35)	3/8 (φ9.52)
Dimension (W×H×D)	Outline	mm	794×186×265	848×189×274	848×189×274	945×208×298	1018×315×223
	Package	mm	873×258×365	926×371×267	926×371×267	1013×300×383	1086×398×328
Net weight/Gross weight	kg		9/11.5	10/12	10/12	13/17	15.5/19
Loading quantity	20'GP	set	348	312	312	254	174
	40'GP/40'HQ	set	720/840	643/749	643/749	541/609	366/427

Change



Model			GWH(07)KF-K3DNA8E/I	GWH(09)KF-K3DNA8E/I	GWH(12)KF-K3DNA8E/I	GWH(18)KG-K3DNA8E/I
Capacity	Cooling	BTU/h	7165	9000	12000	18000
	Heating	BTU/h	8871	9600	13000	19000
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		600	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	770×283×201	770×283×201	865×305×215
	Package	mm	847×264×357	847×264×357	847×264×357	948×310×383
Net weight/Gross weight	kg		8/10	8/9.5	9/10.5	12/15
Loading quantity	20'GP	set	328	328	328	264
	40'GP/40'HQ	set	688/744	688/744	688/744	542/616

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	17080	24225
	Heating	BTU/h	9554	13136	18766	27296
Power supply	Ph/V/Hz		1/220-240/50	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume	m³/h		850	850	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)	φ3/8(9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.88)
	Liquid	inch(mm)	φ1/4(6.35)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)
Dimension (W×H×D)	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	set	66	66	66	66
	40'GP/40'HQ	set	132/132	132/132	132/132	132/132

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	17080	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	m³/h		600	600	680	680	1180	
	CFM		353	353	400	400	694	
Sound pressure level(H/L)	dB(A)		46/42	46/42	37/33	37/33	39/35	
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 (W×D×H)	Outline	mm	570×570×230	570×570×230	840×840×180	840×840×180	840×840×240
		Package	mm	851×731×325	851×731×325	963×963×273	963×963×273	963×963×325
Panel	Net weight/Gross weight	kg		18/23	18/23	25/33	25/33	28/35
		Dimension (W×D×H)	Outline	mm	650×650×50	650×650×50	950×950×60	950×950×60
Loading quantity	Net weight/Gross weight		kg		2.5/3.5	2.5/3.5	6.5/10	6.5/10
		20'GP	set	102	102	48	48	40
Loading quantity	40'GP/40'HQ	set		209/246	209/246	128/144	128/144	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	11940	17080	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
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	800×615×200	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



Model			GEH(09)AA-K3DNA1C/I	GEH(12)AA-K3DNA1C/I	GEH(18)AA-K3DNA1C/I
Capacity	Cooling	BTU/h	8873	11942	18083
	Heating	BTU/h	9553	12969	19790
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50
Airflow volume	m³/h		500	600	850
	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 (W×H×D)	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	set	168	168	168
	40'GP/40'HQ	set	348/440	348/440	348/440

Control System Lineup

Controlling system	Product series	Wall-mounted type							Duct type	Cassette type	Floor calling type	Console type
		Lomo	Hansol	U Crown	U-Cool	Cozy	Change	Viola				
Wireless remote controller	YAA1FB1 				●							●
	YT1F(MOTO) 					●		●	●	●	●	
	YAG1FB 		●									
	YB1F2 (XFAN) 						●					
	YAN1F1(XFAN) 		●									
	SAA1FB1 				●							
Wired controller	XK19 								●	●	●	
Centralized controller	CE50-24/E 								●	●	●	

Note: ● means standard, ● means optional.

Award and Certification



ISO 9001 Quality System Certificate



ISO 14001 Environment Management System Certificate



ISO 18001 Occupation Health Safety System Certificate



Canadian CSA Certificate



German TÜV Certificate



3C Certificate



European Communities CE Certificate



American UL Certificate



Russian Safety Certificate



EOM



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



Austrian SAA Certificate



CQC Certificate



Aussie ETL Certificate



Canadian ETL Certificate



Taiwane TIS Certificate



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