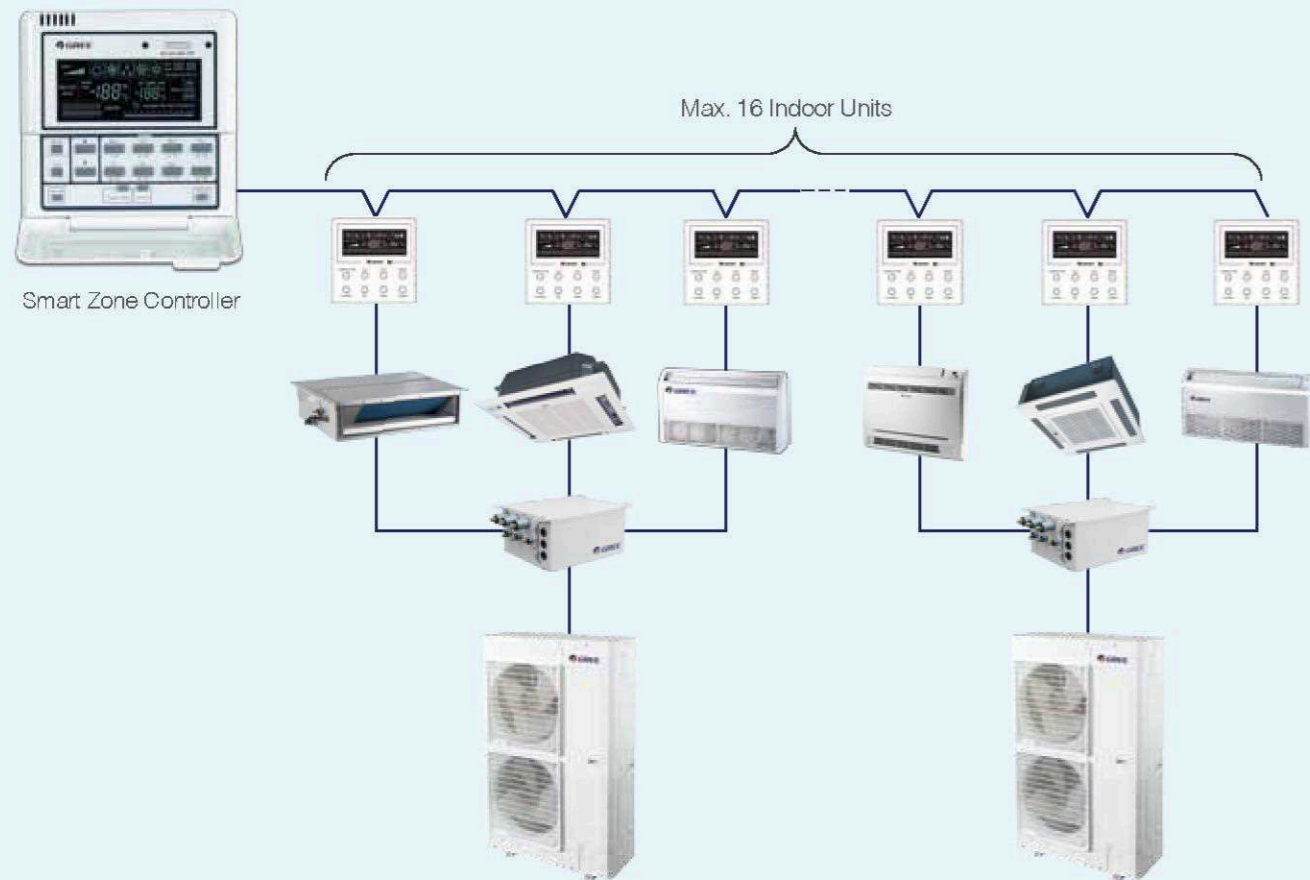


Smart Zone Controller

It can directly control 16 indoor units in the network without extra communication module.



Note: Can't use on wall mounted type indoor unit.



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

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GC-1312-1

Distributor information

GREE

AIR CONDITIONER

هلدينگ
اصغريان



SUPER FREE MATCH

R410A

INVERTER

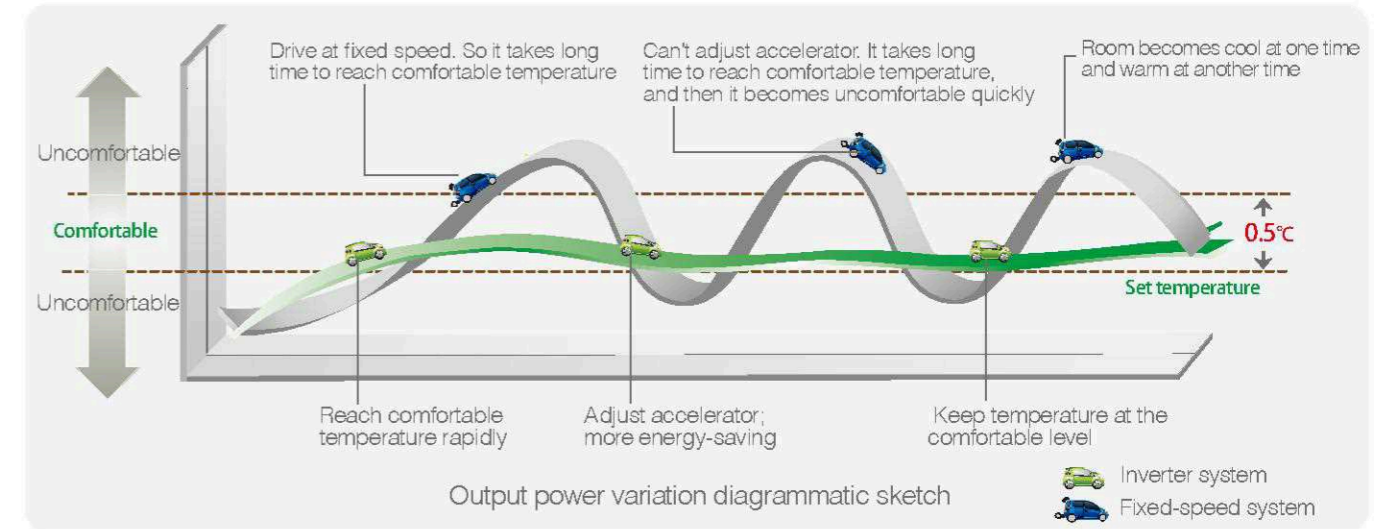
Multi-split System from 42,000-56,000BTU/h

GREE Inverter Technology

Gree Super Free Match is the latest generation of Multiple Inverter Air Conditioner, which is connectable up to 9 indoor units and offers rich choices of indoor units for different decoration requirement. With the GREE Inverter technology, the Super Free Match can achieve a high energy efficient, steady operation, highly comfort and low sound level to suit modern living environment.



Thanks to GREE Inverter technology, the unit operates with lower power consumption, lower noise and more comfort.



More Power Saving

GREE with advanced DC inverter 180° vector control ensures the stable operation of the compressor and saves around 20% power per year (compared with the normal air conditioner).

Highly Comfortable

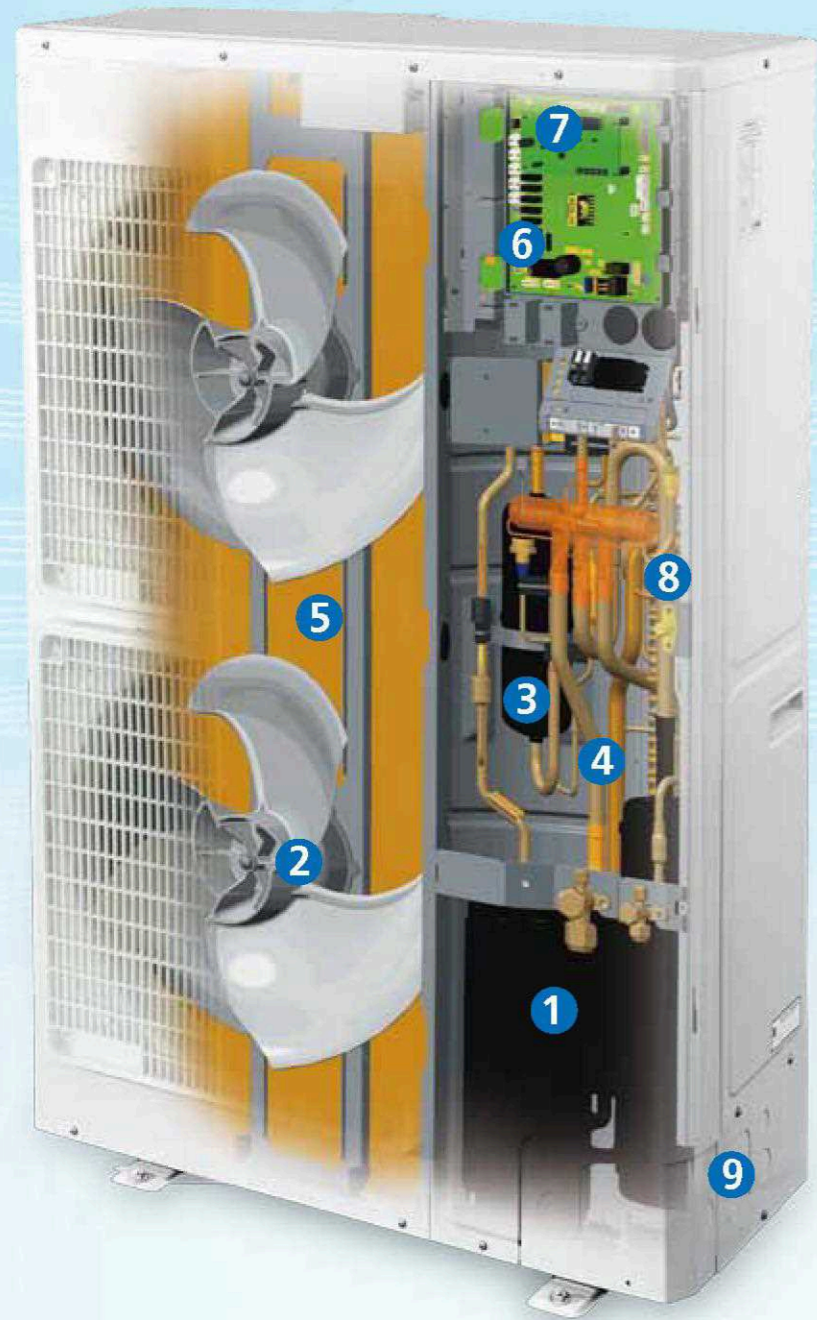
The GREE intelligent inverter control delivers the required capacity, according to the load variation from 10% to 120% and maintain the room temperature within $\pm 0.5^{\circ}\text{C}$ of the set temperature.

Lower Noise

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

Maximum 9 IDU Connections

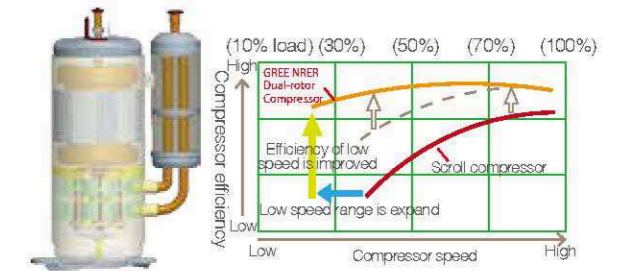
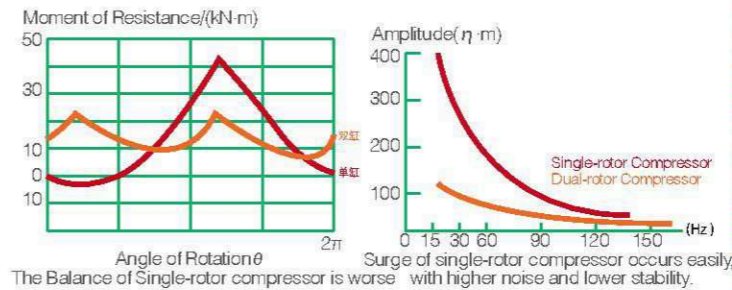




- ① Compressor
- ② Fan and Motor
- ③ Oil Separator
- ④ Components and Pipeline
- ⑤ Heat Exchanger
- ⑥ Electrical Box
- ⑦ Built-in Debugger
- ⑧ Service Port
- ⑨ Flexible Piping Connection

Compressor

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



GREE Dual-rotor Compressor VS Single-rotor Compressor

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

GREE Dual-rotor Compressor VS Scroll 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.

Fan and Motor

Optimized Fan

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



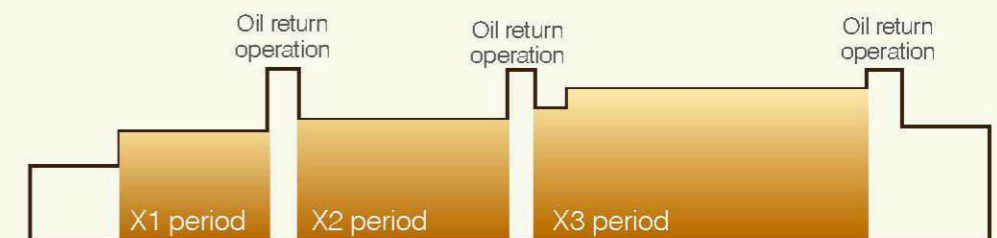
High-efficiency DC Brushless Fan Motor

High-efficiency DC brushless fan motor offers greater efficiency and reduces operating noise,



Oil Separator

Adopting high efficient oil separator, of which maximum efficiency reaches to 99%, with Intelligent Oil return operation, system will automatically recover the chilled oil efficiently to ensure lubrication of the compressor.



Optimized System Design

Components and Pipeline

In order to further reduce the discordant noise due to the operation of components, dynamic simulation of product component is conducted. The 3-D simulation of damping design for the pipelines has efficiently eliminated the hydrodynamic noise of refrigerant and ensures the quite operation of the system.



Heat Exchanger

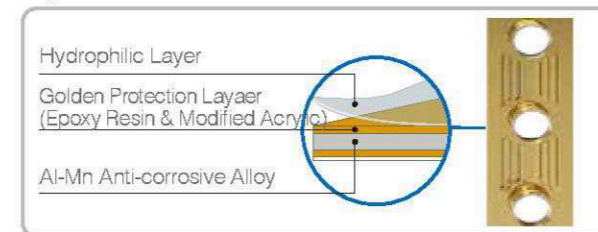
• High Efficiency Inner-grooved Copper Tube

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



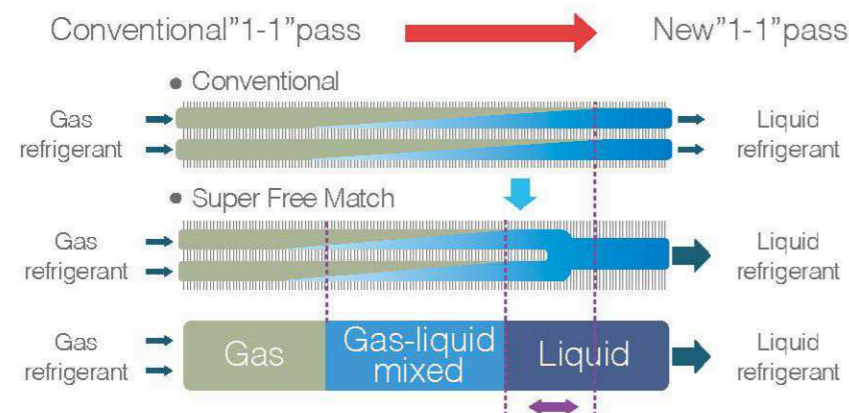
• Slit Type Fin with Anti-corrosion Coating

The slit type fin enlarges heat exchange area significantly by 5%, meanwhile the anti-corrosive performance in salt-spray testing is 200%~300% higher than conventional.



• New "2-1" Pass

The new "2-1" high efficiency heat exchanger design increased the exchanging effect and reducing the refrigerant pressure, system reliability is higher.



Electrical Box

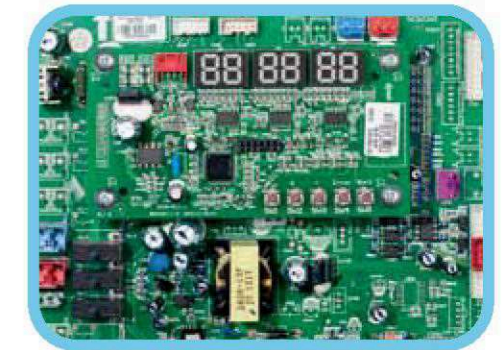
New electrical box, design with quick debugger, easier for testing, commissioning and maintenance.



Built-in Debugger

Unique design with built in debugger, convenient for commissioning.

- 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.
- Remember and look up history running data.



Service Port

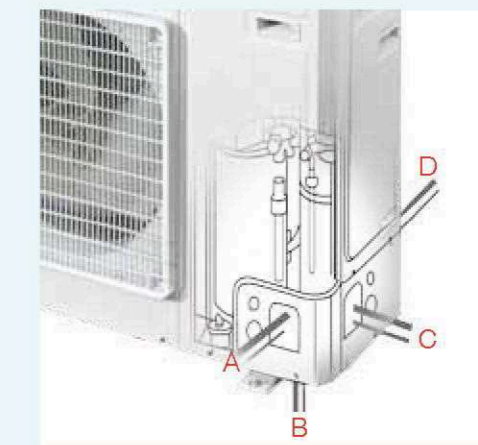
Special service port for easier pressure detection and maintenance.

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



Flexible Piping Connection

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



Flexible Piping Work with BU Module

The Super Free Match introduces the BU (Branching Unit) module to simplify the piping work, so that the refrigerant piping is easier in handling and connecting, installation time and materials can be significantly reduced.



• Quick & Safe

By using flared connection, the installation is easier with less welding, higher safety and reliable.

• Convenient Service

Quickly check refrigerant leak point; the welding points are less so once there is refrigerant leak, the leak point can be quickly found.

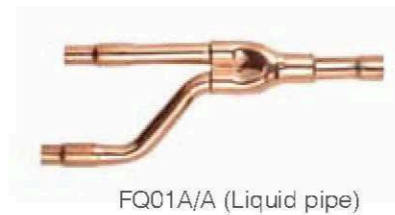


• Comfort & Quite

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

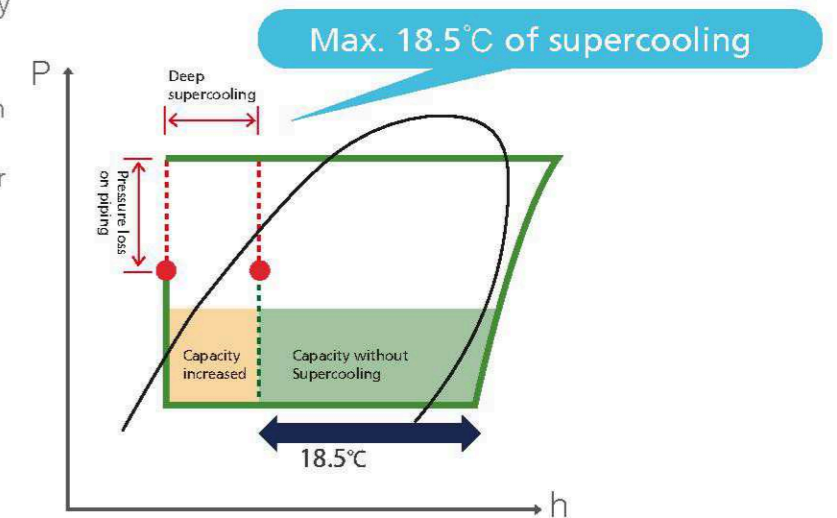
• Y-Joint Connection

Quickly check refrigerant leak point; the welding points are less so once there is refrigerant leak, the leak point can be quickly found.



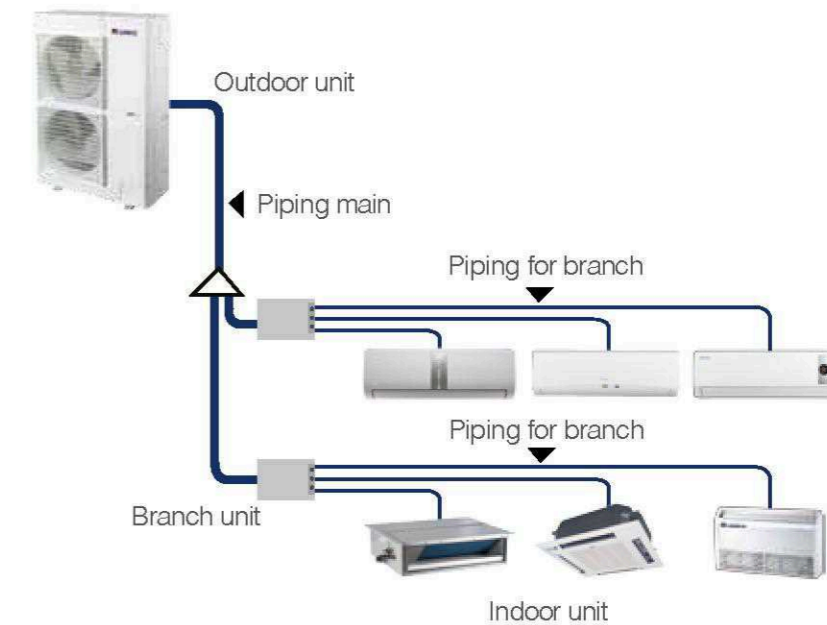
Super Cooling Technology

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



Flexible Piping Installation

- Total pipe length $\leq 145\text{m}$
- Total pipe length between outdoor unit and BU $\leq 55\text{m}$
- Total pipe length between BU and indoor unit $\leq 90\text{m}$
- Piping length between the farthest indoor unit and the outdoor unit $\leq 70\text{m}$
- Pipe length between BU and indoor unit $\leq 15\text{m}$
- Different in height between outdoor unit and indoor unit $\leq 30\text{m}$



Wide Range of Outdoor and Indoor Unit

With various types of indoor unit and wide range of outdoor units, the Super Free Match can satisfy both residential and commercial air conditioning requirements, such as villas, apartments, offices, shops, etc. It is not only an air conditioner but also a perfect indoor decoration.

Outdoor unit (50Hz)

3 models

12.3kW, 14kW, 16kW

There are 3 models outdoor unit for precise power to suit the size of house, offices of shops.

1-Phase model:
 GWHD(42S)NK3CO
 GWHD(48S)NK3CO
 GWHD(56S)NK3CO

3-Phase model:
 GWHD(48S)NM3CO
 GWHD(56S)NM3CO



Outdoor Unit

Model	Heat Pump		GWHD(42S)NK3CO	GWHD(48S)NK3CO	GWHD(56S)NK3CO	GWHD(48S)NM3CO	GWHD(56S)NM3CO
Capacity	Cooling	BTU/h	42000	47800	52900	47800	54600
	Heating	BTU/h	42700	53000	58000	54600	61400
EER/COP	Cooling	kW/kW	3.0/3.38	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
Air Pressure Level		m ³ /h	6400	6400	7000	7000	7000
Sound pressure level		dB(A)	57	57	57	58	58
Dimension(WxDxH)	Outline	mm	900x340x1345	900x340x1345	900x340x1345	900x340x1345	900x340x1345
	Package	mm	983x443x1398	983x443x1398	983x443x1398	983x443x1398	983x443x1398
Net weight/Gross weight		kg	116/125	116/125	116/125	116/125	116/125
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	115	135	145	135	145
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			FXA2B-K	FXA3B-K	FXA2A-K	FXA3A-K	FXB3A-K	FXB5A-K
Fuse current		A	3.15	3.15	3.15	3.15	3.15	3.15
Dimension(WxDxH)	Outline	mm	361x313x182	361x313x182	361x313x182	361x313x182	513x312x193	513x312x193
	Package	mm	683x392x270	683x392x270	683x392x270	683x392x270	676x473x275	676x473x275
Net weight/Gross weight		kg	6.5/8.3	6.7/8.9	6.5/8.3	6.7/8.9	9/11	10/12
Connecting pipe diameter (to IDU)	Gas	inch(mm)	φ5/8(16.3)	φ5/8(16.3)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
	Liquid	inch(mm)	φ1/4(6.5)	φ1/4(6.5)	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(16.3)	φ5/8(16.3)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.7)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Max connect IDU		unit	2	3	2	3	3	5
Loading quantity	40'GP/40'HQ	set	294/294	294/294	294/294	294/294	246/246	246/246
Connection method		—	Braze	Braze	Flare	Flare	Flare	Flare
Type of PDU can connect		—	Single phase ODU				Three phase ODU	
Max. equivalent connection pipe length (BU unit to last IDU)		m	15	15	15	15	15	15

Indoor Unit (50Hz)

38 models 5 types

A wide range of indoor units includes 38 models in 5 types. Indoor units can be selected to match each room and preference.

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

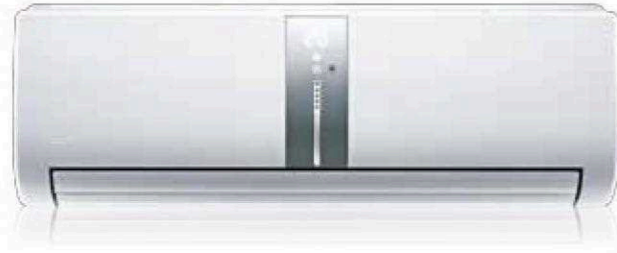
Control System Lineup

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

Note: ● means standard, ● means optional.

INDOOR UNIT

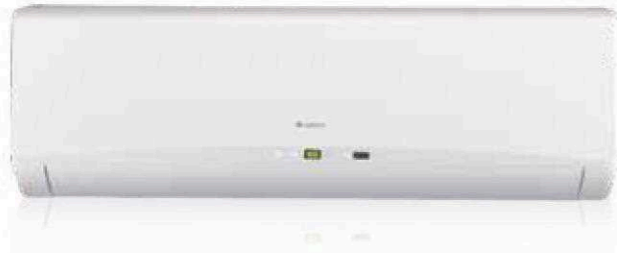
U-COOL



Wireless remote controller
YAA1FB1

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	7167	8874	11946	18089	
	Heating	BTU/h	8874	9556	12969	19795	
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
	m³/h		450	450	560	850	
Airflow volume	CFM		265	265	329	500	
	dB(A)		37/35/32/30/28/26/24	38/34/32/29/27/25/22	39/36/34/31/29/27/23	44/40/37/35/33/31/28	
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		860X153X299	860X153X299	896X159X320	998X178X340	
	Package		944X247X386	944X247X386	973X255X403	1083X283X428	
Net weight/Gross weight		kg	9.5/12.5	9.5/12.5	11.5/14.5	15/19	
Loading quantity		20'GP/40'GP/40'HQ	set	324/666/740	324/666/740	279/585/650	216/440/495

HANSOL



Wireless remote controller
YAG1FB

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	7167	8533	11946	18089	
	Heating	BTU/h	8874	9386	12457	19113	
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
	m³/h		550	550	770	950	
Airflow volume	CFM		324	324	430	559	
	dB(A)		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		806x209x292	806x209x292	856x209x292	1018x230x319	
	Package		888x297x377	888x297x377	945x297x377	1097x397x340	
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/40'GP/40'HQ	set	266/553/632	266/553/632	252/518/592	174/366/427

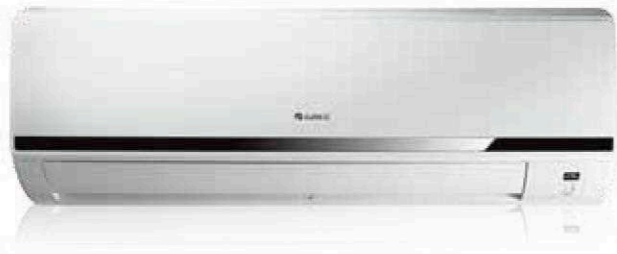
COZY



Wireless remote controller
YT1F(MOTO)

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	7167	8874	11946	18089	
	Heating	BTU/h	8874	9556	12969	19795	
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
	m³/h		450	500	630	850	
Airflow volume	CFM		265	294	371	500	
	dB(A)		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		790X170X265	790X170X265	845X180X275	940X200X298	
	Package		873X251X370	873X251X370	918X258X370	1013X288X395	
Net weight/Gross weight		kg	9/11	9/11	10/12.5	13/16	
Loading quantity		20'GP/40'GP/40'HQ	set	348/732/852	348/732/852	336/684/798	254/541/609

CHANGE



Wireless remote controller
YB1F2 (XFAN)

Model			GWH(07)KF-K3DNA6E/I	GWH(09)KF-K3DNA6E/I	GWH(12)KF-K3DNA6E/I	GWH(18)KG-K3DNA6E/I	
Capacity	Cooling	BTU/h	7167	8874	11946	18089	
	Heating	BTU/h	8874	9556	12969	19795	
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
	m³/h		550	600	680	800	
Airflow volume	CFM		324	353	400	471	
	dB(A)		40/38/30/24	41/38/30/24	42/39/31/25	45/40/37/32	
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		700X201X283	770X201X283	770X201X283	865X215X305	
	Package		847X264X357	847X264X357	847X264X357	948X298X395	
Net weight/Gross weight		kg	8/10	8/10	9/11	12/15	
Loading quantity		20'GP/40'GP/40'HQ	set	336/696/783	336/696/783	336/696/783	264/542/616

VIOLA



Wireless remote controller
YT1F(MOTO)

Model			GWH(07)RA-K3DNA3E/I	GWH(09)RA-K3DNA3E/I	GWH(12)RB-K3DNA3E/I	GWH(18)RC-K3DNA3E/I	GWH(24)RD-K3DNA3E/I	
Capacity	Cooling	BTU/h	7167	8874	11946	18089	22014	
	Heating	BTU/h	8874	9556	12969	19795	24232	
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
	m³/h		500	500	630	850	1000	
Airflow volume	CFM		294	294	371	500	588	
	dB(A)		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		794X186X265	794X186X265	848X189X274	945X208X298	1018X223X315	
	Package		873X270X353	873X270X353	926X279X359	1013X300X383	1086X328X398	
Net weight/Gross weight		kg	9/11.5	9/11.5	10/12.5	13/16	15.5/20.5	
Loading quantity		20'GP/40'GP/40'HQ	set	348/720/840	348/720/840	306/636/742	254/541/609	174/366/427

DUCT



Wireless remote controller
YT1F(MOTO)



Wired controller
XK19

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	8533	11946	17065	20478	24232
	Heating	BTU/h	9556	13140	18772	22526	27304
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
	m ³ /h		450	550	700	1000	1000
Airflow volume	CFM		265	324	412	588	588
	dB(A)		37/31	39/32	41/33	42/34	42/34
Sound pressure level (H/L)	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	700X200X615	700X200X615	900X200X615	1100X200X615	1100X200X615
	Package	mm	893X305X743	893X305X743	1123X305X743	1323X305X743	1323X305X743
Net weight/Gross weight	kg		22/27	23/29	27/36	31/41	31/41
	20' GP	set	108	108	90	72	72
Loading quantity	40' GP/40' HQ	set	234/234	234/234	180/180	162/162	162/162

FLOOR CEILING



Wired controller
XK19

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	8533	11946	17065	24232
	Heating	BTU/h	9556	13140	18772	27304
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
	m ³ /h		650	550	950	1250
Airflow volume	CFM		382	382	559	735
	dB(A)		40/36	40/36	45/40	48/44
Sound pressure level (H/L)	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	1220X700X225	1220X700X225	1220X700X225	1220X700X225
	Package	mm	1343X823X315	1343X823X315	1343X823X315	1343X823X315
Net weight/Gross weight	kg		40/50	40/50	40/50	40/50
	20' GP	set	66	66	66	66
Loading quantity	40' GP/40' HQ	set	132/132	132/132	132/132	132/132

CASSETTE



Wireless remote controller
YT1F(MOTO)



Wired controller
XK19

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	11946	15359	11946	17065	24232
	Heating	BTU/h	13652	17065	13140	18772	27304
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
	m ³ /h		600	600	680	680	1180
Airflow volume	CFM		353	353	400	400	694
	dB(A)		46/42	46/42	37/33	37/33	39/35
Sound pressure level (H/L)	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	Outline	mm	570x230x570	570x230x570	840x190x840	840x190x840	840x190x840
	Package	mm	851x325x731	851x325x731	960x273x963	960x273x963	960x273x963
Net weight/Gross weight	kg		18/23	18/23	25/33	25/33	28/35
	Dimension(WxHxD)	mm	650x50x650	650x50x650	950x60x950	950x60x950	950x60x950
Panel	Outline	mm	733x117x673	733x117x673	1043x130x1028	1043x130x1028	1043x130x1028
	Package	mm	733x117x673	733x117x673	1043x130x1028	1043x130x1028	1043x130x1028
Net weight/Gross weight	kg		2.5/3.5	2.5/3.5	6.5/10	6.5/10	6.5/10
	40' GP/40' HQ	set	209/246	209/246	128/144	128/144	108/128

CONSOLE



Wireless remote controller
YAA1FB1

Model			GEH(09)AA-K3DNA1C/I	GEH(12)AA-K3DNA1C/I	GEH(18)AA-K3DNA1C/I
Capacity	Cooling	BTU/h	8874	11946	18089
	Heating	BTU/h	9556	12969	19795
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50
	m ³ /h		650	750	840
Airflow volume	CFM		382.3529412	441	494
	dB(A)		40/38/36/33/30/27/25	42/40/38/37/35/32/25	48/46/44/41/37/35/32
Sound pressure level (SH/H/MH/M/ML/SL)	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	700X600X215	700X600X215	700X600X215
	Package	mm	791X710X286	791X710X286	791X710X286
Net weight/Gross weight	kg		15/18	15/18	15/18
	20' GP	set	168	168	168
Loading quantity	40' GP/40' HQ	set	348/440	348/440	348/440