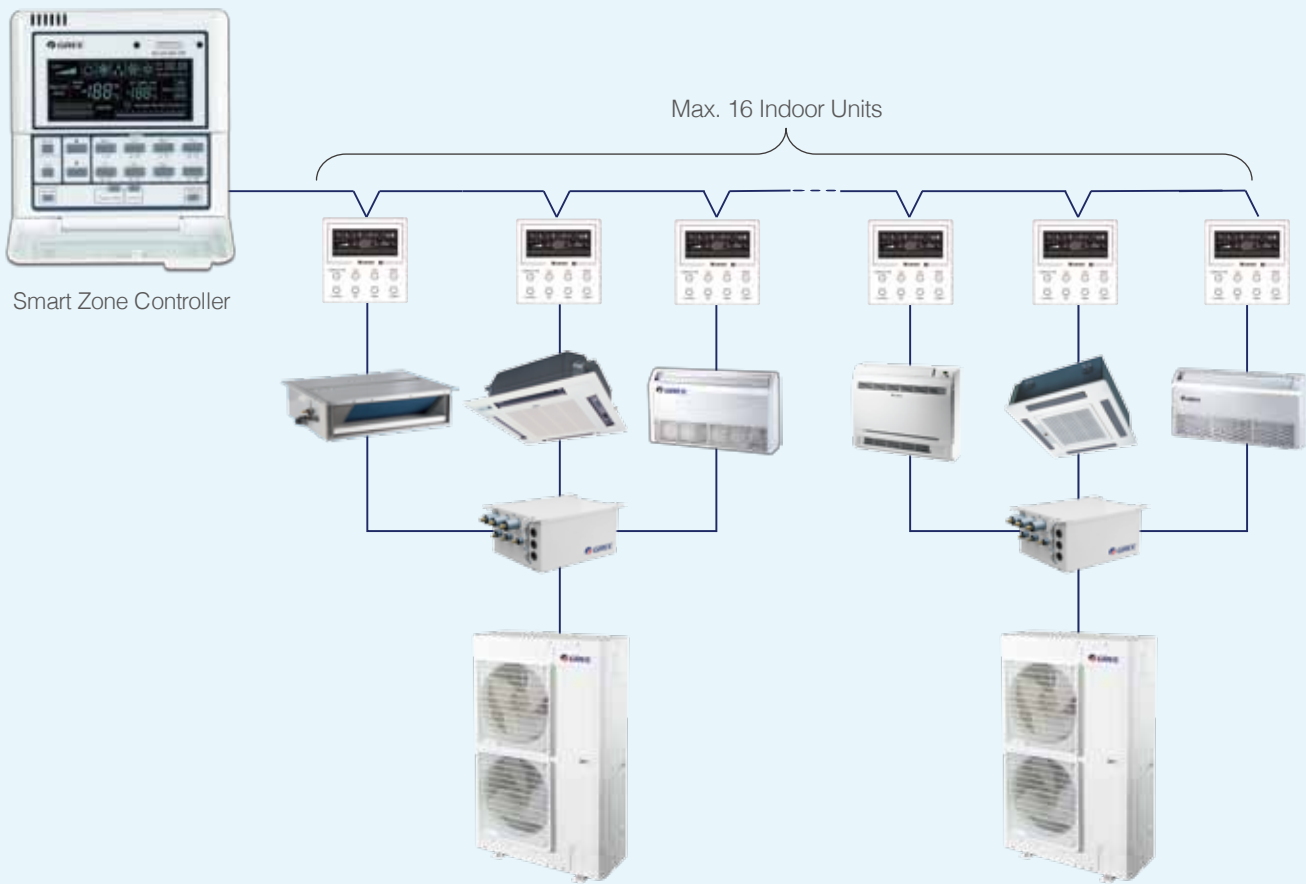


Smart Zone Controller

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

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070
Tel: (+86-756)8522218 Fax: (+86-756)8669426
Email: gree@gree.com.cn Http://www.gree.com

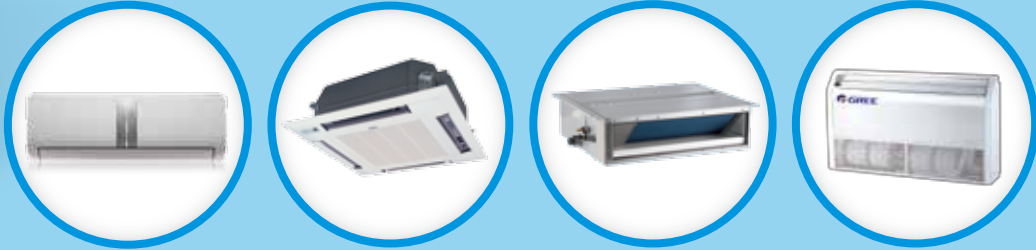
HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

Add: Unit 2612, 26/F., Miramar Tower 132 Nathan Road, TST, Kowloon, HK
Tel: (852)31658898 Fax: (852)31651029

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GC-1312-1

Distributor information



SUPER FREE MATCH



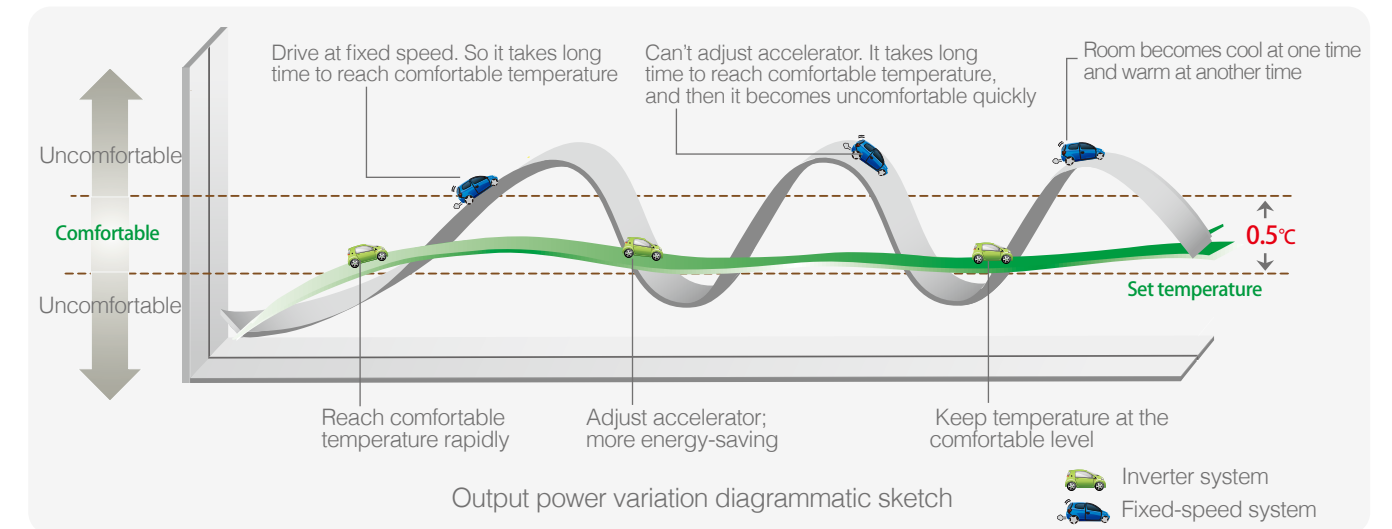
Multi-split System from 42,000-56,000BTU/h

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.



GREE Inverter Technology

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).

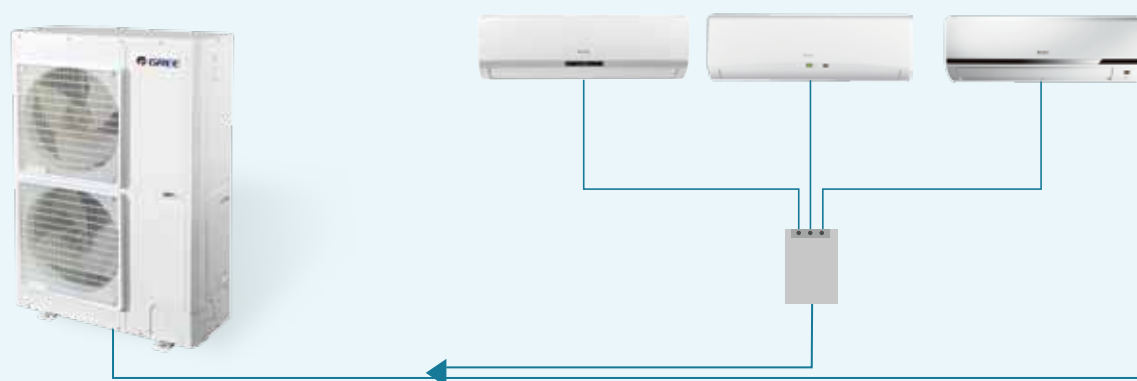
Highly Comfortable

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

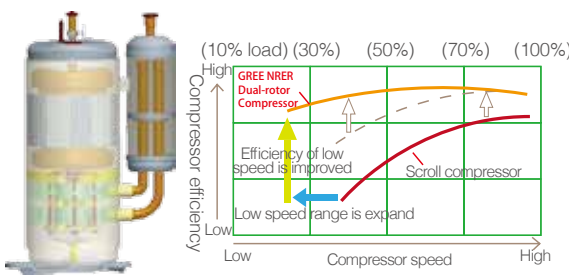
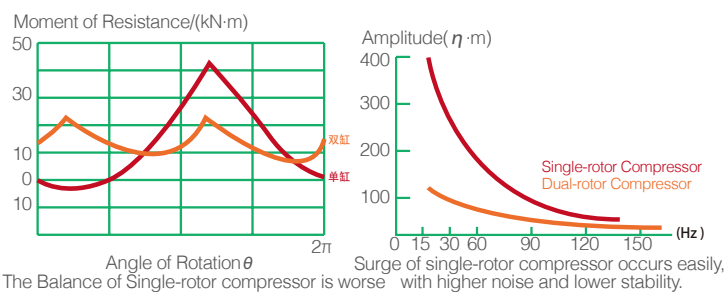
Built-in Debugger
- 8

Service Port
- 9

Flexible Piping Connection

Compressor

The High Efficiency NRER (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.

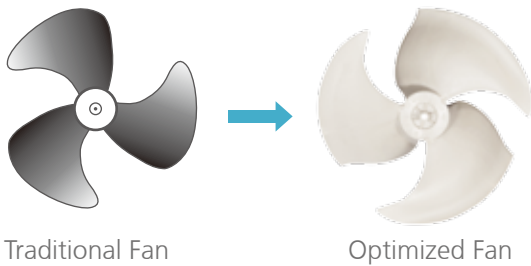
GREE Dual-rotor Compressor VS Scroll Compressor

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,

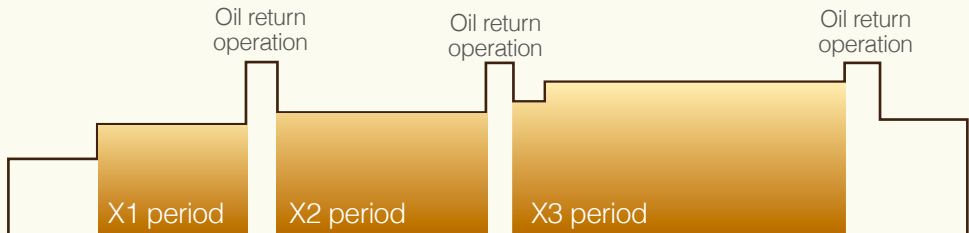


Oil Separator

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.



Efficient oil separator



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

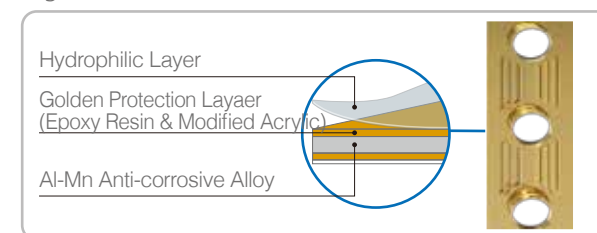
Heat exchanging performance is increased with high efficiency inner-grooved design.



Inner groove copper tube

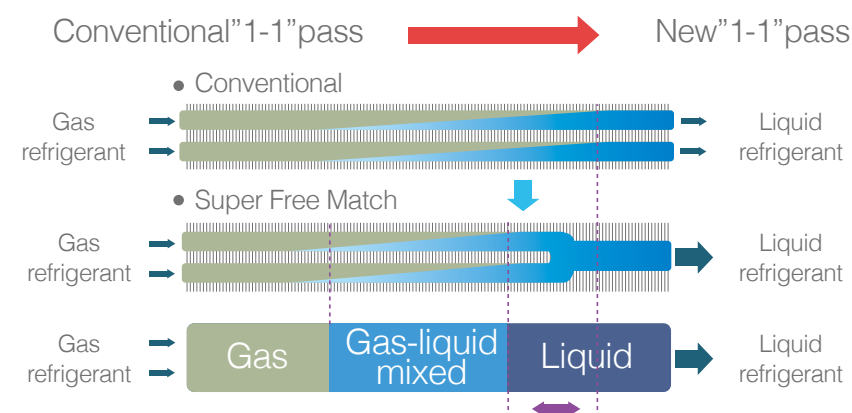
• Slit Type Fin with Anti-corrosion Coating

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.

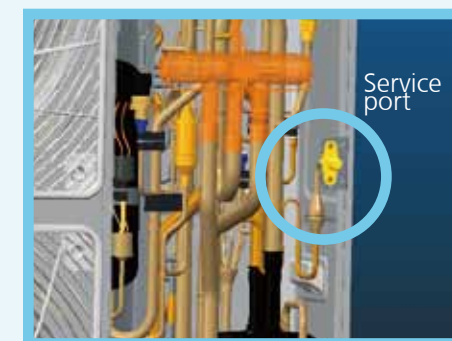
- Automatically detect indoor unit numbers.
- Automatically assign indoor unit addresses.
- Automatically display real running function and error code.
- Option settings to suit the demand of the customer.
- Remember and look up history running data.



Service Port

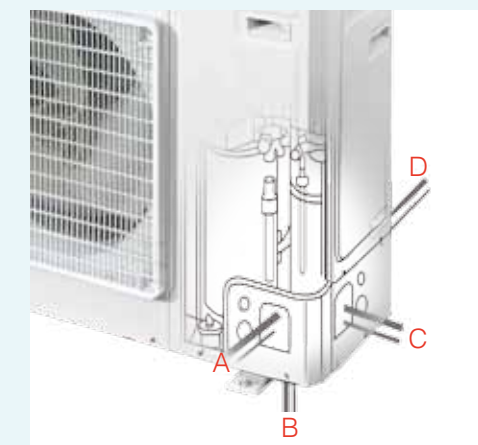
Special service port for easier pressure detection and maintenance.

- 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.



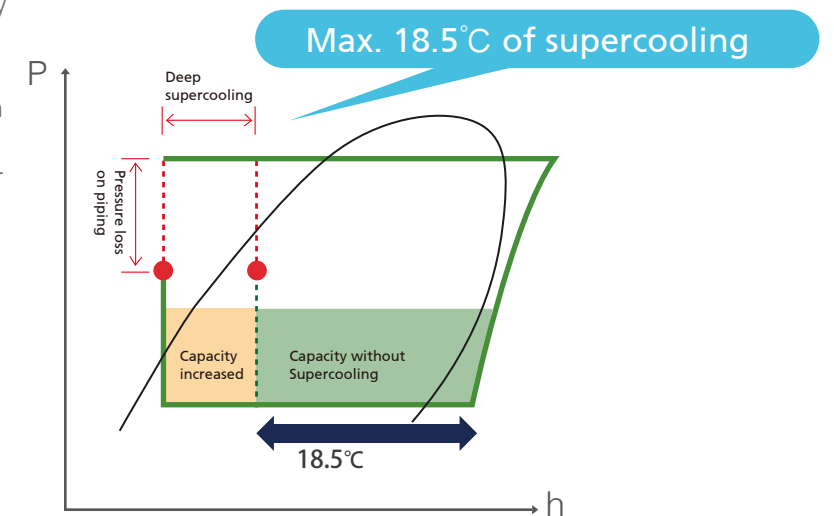
FQ01A/A (Liquid pipe)



FQ01A/A (Gas pipe)

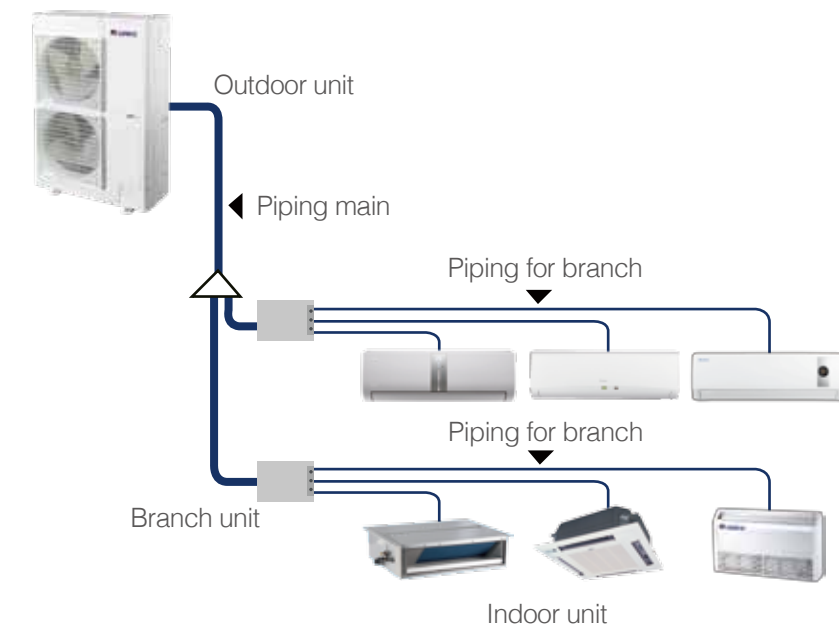
Super Cooling Technology

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			PhV/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			m³/h		6400	6400	7000	7000	7000
Sound pressure level			dB(A)		57	57	57	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			983×443×1398	983×443×1398	983×443×1398	983×443×1398	983×443×1398
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
Dimension(W×D×H)	Outline	mm			361×313×182	361×313×182	361×313×182	513×312×193
	Package	mm			683×392×270	683×392×270	683×392×270	676×473×275
Net weight/Gross weight			kg		6.5/8.3	6.7/8.9	6.5/8.3	9/11
Connecting pipe diameter (to IDU)	Gas	inch(mm)			φ5/8(16.3)	φ5/8(16.3)	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)
Connecting pipe diameter (to ODU)	Gas	inch(mm)			φ5/8(16.3)	φ5/8(16.3)	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)
Max.connect IDU			unit		2	3	2	3
Loading quantity			40'GP/40'HQ set		294/294	294/294	294/294	246/246
Connection method			—		Braze	Braze	Flare	Flare
Type of PDU can connect			—		Single phase ODU			There phase ODU
Max. equivalent connection pipe length (BU unit to last IDU)			m		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

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
Airflow volume		m³/h	450	450	560	850
		CFM	265	265	329	500
Sound pressure level (SH/H/MH/M/ML/L/SL)		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	mm	860X153X299	860X153X299	896X159X320	998X178X340
	Package	mm	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	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
Airflow volume		m³/h	550	550	770	950
		CFM	324	324	430	559
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	43/36/34/32/28/24/21	49/44/41/39/36/33/30
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	806×209×292	806×209×292	866×209×292	1018×230×319
	Package	mm	888×297×377	888×297×377	945×297×377	1097×397×340
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	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
Airflow volume		m³/h	450	500	630	850
		CFM	265	294	371	500
Sound pressure level (SH/H/M/L)		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	mm	790X170X265	790×170×265	845×180×275	940×200×298
	Package	mm	873X251X370	873×251×370	918×258×370	1013×288×395
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	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
Airflow volume		m³/h	550	600	680	800
		CFM	324	353	400	471
Sound pressure level (SH/H/M/L)		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	mm	700X201X283	770X201X283	770X201X283	865X215X305
	Package	mm	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	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)RC-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
Airflow volume		m³/h	500	500	630	850	1000
		CFM	294	294	371	500	588
Sound pressure level (SH/H/M/L)		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	mm	794X186X265	794X186X265	848X189X274	945X208X298	1018X223X315
	Package	mm	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

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		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	450	550	700	1000	1000
		CFM	265	324	412	588	588
Sound pressure level (H/L)		dB(A)	37/31	39/32	41/33	42/34	42/34
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	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
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



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
Airflow volume		m³/h	650	650	950	1250
		CFM	382	382	559	735
Sound pressure level (H/L)		dB(A)	40/36	40/36	45/40	48/44
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	1220X700X225	1220X700X225	1220X700X225	1220X700X225
	Package	mm	1343X823X315	1343X823X315	1343X823X315	1343X823X315
Net weight/Gross weight		kg	40/50	40/50	40/50	40/50
Loading quantity	20'GP	set	66	66	66	66
	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
Airflow volume			ml/h	600	600	680	1180
			CFM	353	353	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 (WxHxD)	mm	570x230x570	570x230x570	840x190x840	840x190x840	840x190x840
	Outline Package	mm	851x325x731	851x325x731	960x273x963	960x273x963	960x273x963
	Net weight/Gross weight		kg	18/23	18/23	25/33	28/35
Panel	Dimension (WxHxD)	mm	650x50x650	650x50x650	950x60x950	950x60x950	950x60x950
	Outline 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
Loading quantity		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
Airflow volume		m³/h	650	750	840
		CFM	382.3529412	441	494
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/25	48/46/44/41/37/35/32
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	700X600X215	700X600X215	700X600X215
	Package	mm	791X710X286	791X710X286	791X710X286
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