

FREE MATCH III Multi VRF

(GC201305-I)

GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS

TECHNICAL SALES GUIDE-50Hz

CAPACITY RANGE:18~42kBtu/h

SUPER HIGH AMBIENT OPERATION TO 52 °C

GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS

R410A



GREE ELECTRIC APPLIANCES INC.OF ZHUHAI



CONTENTS

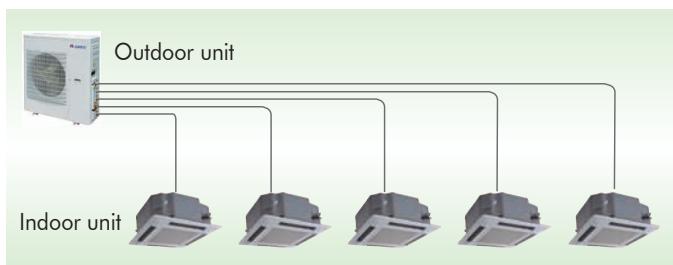
| | |
|--|----|
| 1. OUTLINE OF MULTI VRF | 1 |
| 2. SUMMARY OF SYSTEM EQUIPMENTS | 4 |
| 3. BASIC SYSTEM CONFIGURATION..... | 9 |
| 4. EQUIPMENT SELECTION PROCEDURE | 10 |
| 5. REFRIGERANT PIPING DESIGN | 14 |
| 6. WIRING DESIGN | 21 |
| 7. ACCESSORIES | 24 |
| 8. TECHNICAL SPECIFICATIONS..... | 25 |
| 9. FAN CHARACTERISTICS..... | 62 |
| 10. DIMENSIONAL DRAWINGS | 64 |

FREE MATCH III Multi VRF Technical Sales Guide

1 OUTLINE OF MULTI VRF

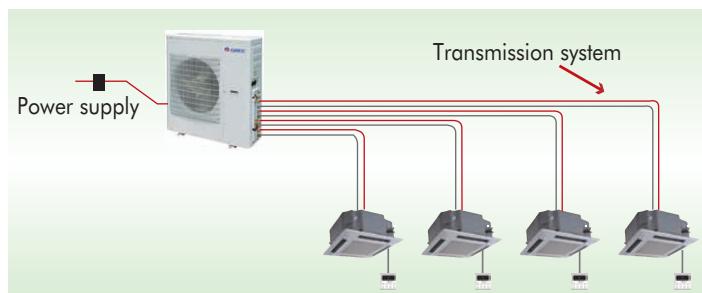
No sweating

No sweating is needed for the pipe connection between the indoor and outdoor units, simplifying and easing largely the pipe installation.



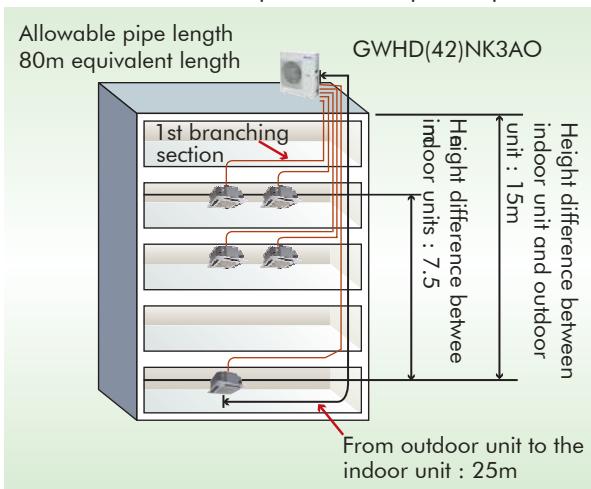
Simple Wiring

No dedicated communication line is needed between the indoor and outdoor unit, since the communication is available through the heavy-current carrier signals as soon as the electricwiring between the indoor and outdoor units gets ready.



High Lift Design

Equivalent pipe length of 80m and vertical lift of 15m is made possible with GWHD(42)NK3AO. Vertical lift between indoor units of 7.5m is the highestin the industry. This allows for greater flexibility in the location of the system. Please refer to chapter 5.2 for specific parameter.



Energy Saving

Because each room is controlled individually, only those rooms requiring air conditioning are cooled or heated. In addition, thanks to inverter technology, the level of air conditioning can be precisely controlled depending on the condition of each room. High EER is achieved by employing advanced technology, contributing to smooth and economical operation. The largest EER value can reach 3.2w/w, COP can reach 3.67w/w compared with the conventional chiller fan coil system, a large energy saving can be realized.

Self Diagnostics System

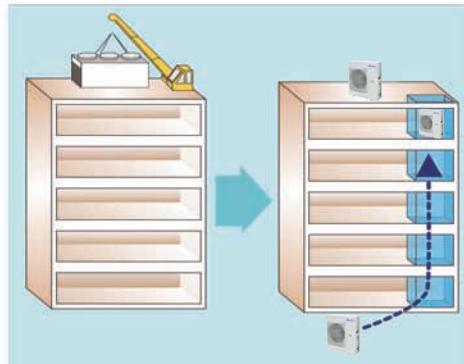
Comprehensive troubleshooting code allows for timely identification of problems arising.
Self diagnostics examples

| Error code | Malfunctrion |
|------------|---|
| 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 |

Compact Design

We offer a wide lineup of outdoor and indoor units to answer the needs of building size and interior design. The length of refrigerant pipes is laid without narrow on design, thus it allowing of flexibility more greater in planning.

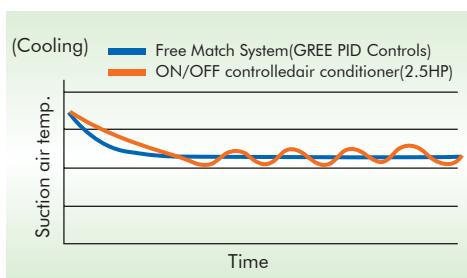
Indoor units are so lightweight and compact that they can be installed in any ceiling space. Outdoor units do not require the special cranes or conveyors to move them. They can even be hauled in a building elevator. the diameter of pipes is narrow, and the number is few, so making layout simpler. Inspection after installation is straightforward.



Intelligent Control

GREE Free Match intelligent controls and modulating valves could deliver the required capacity, according to the load variation from 10% to 100%. the intelligent controls and modulating valves limit or increase the cooling modulating valves limit or increase the cooling capacity, so humidity and temperature are kept in the comfort 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 $\pm 0.5^{\circ}\text{C}$ of the set temperature .



FREE MATCH III Multi VRF Technical Sales Guide

Refrigerant Recovery

The Generation III Free Match System is able to recover the refrigerant automatically, which simplifies the refrigerant recovery operation and also is highly safe.

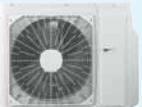
Adjustable Heating Capacity

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.

2 SUMMARY OF SYSTEM SQUIPMENTS

2.1 Outdoor Unit

| FREE MATCH III outdoor unit | | |
|-----------------------------|---------------|---|
| Model | GWHD(18)NK3FO | Appearance |
| Cooling Capacity (kW) | 5.0 | |
| Heating Capacity (kW) | 5.6 |  |

| FREE MATCH III outdoor unit | | | | |
|-----------------------------|---------------|---------------|---------------|---|
| Model | GWHD(24)NK3FO | GWHD(24)NK3GO | GWHD(28)NK3FO | Appearance |
| Cooling Capacity (kW) | 7.0 | 7.1 | 8.0 |  |
| Heating Capacity (kW) | 7.7 | 8.5 | 9.3 | |

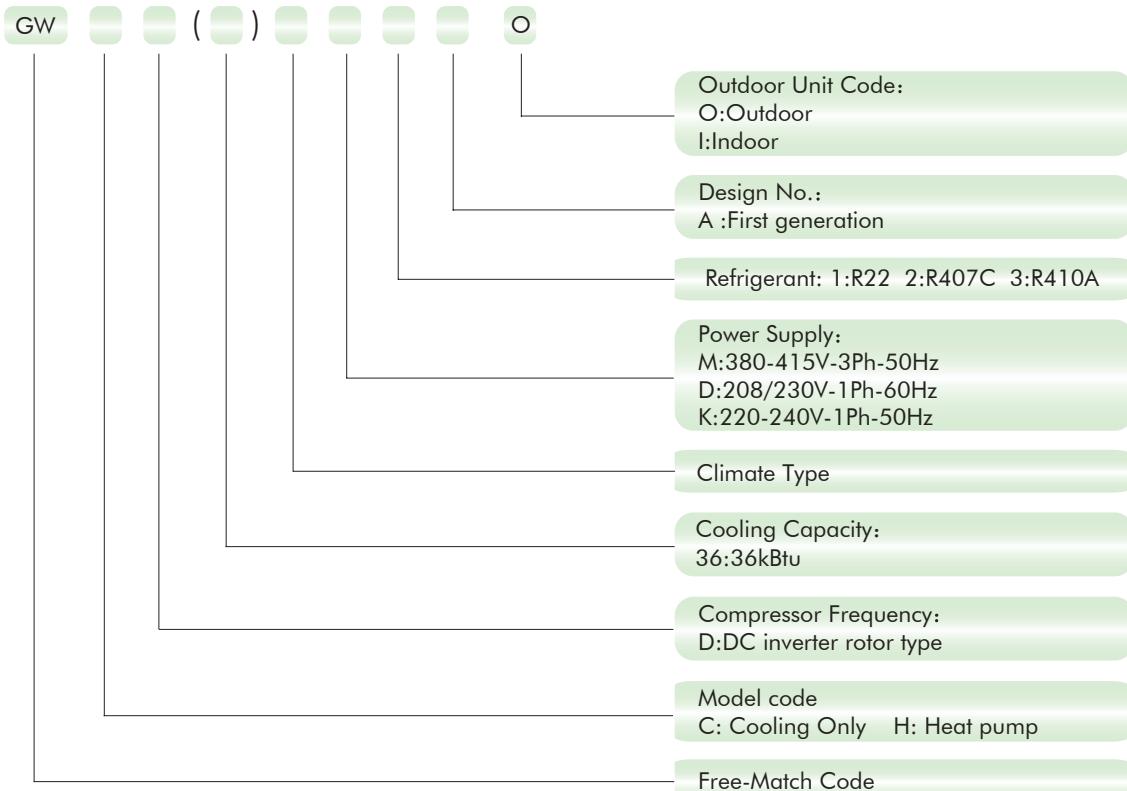
| FREE MATCH III outdoor unit | | |
|-----------------------------|---------------|---|
| Model | GWHD(36)NK3BO | Appearance |
| Cooling Capacity (kW) | 10.5 |  |
| Heating Capacity (kW) | 11.0 | |

| FREE MATCH III outdoor unit | | |
|-----------------------------|---------------|---|
| Model | GWHD(42)NK3AO | Appearance |
| Cooling Capacity (kW) | 12.1 |  |
| Heating Capacity (kW) | 13.0 | |

Conversion Formula: 1kW=3412Btu/h

FREE MATCH III Multi VRF Technical Sales Guide

a. Nomenclature



Example:

GWHD(18)NK3FO: FREE MATCH III outdoor unit of GREE, with single compressor and the nominal cooling capacity is 5.0kW. The power supply is 220V~240V-1Ph-50Hz.

b. Rated Conditions

Cooling: Indoor air temperature 27°C (80.6 °F)DB/19 °C (66.2 °F)WB
Outdoor air temperature 35 °C (95 °F)DB/24 °C (75.2 °F)WB

Heating: Indoor air temperature 20 °C (68 °F)DB/15 °C (59 °F)WB
Outdoor air temperature 7 °C (44.6 °F)DB/6 °C (42.8 °F)WB



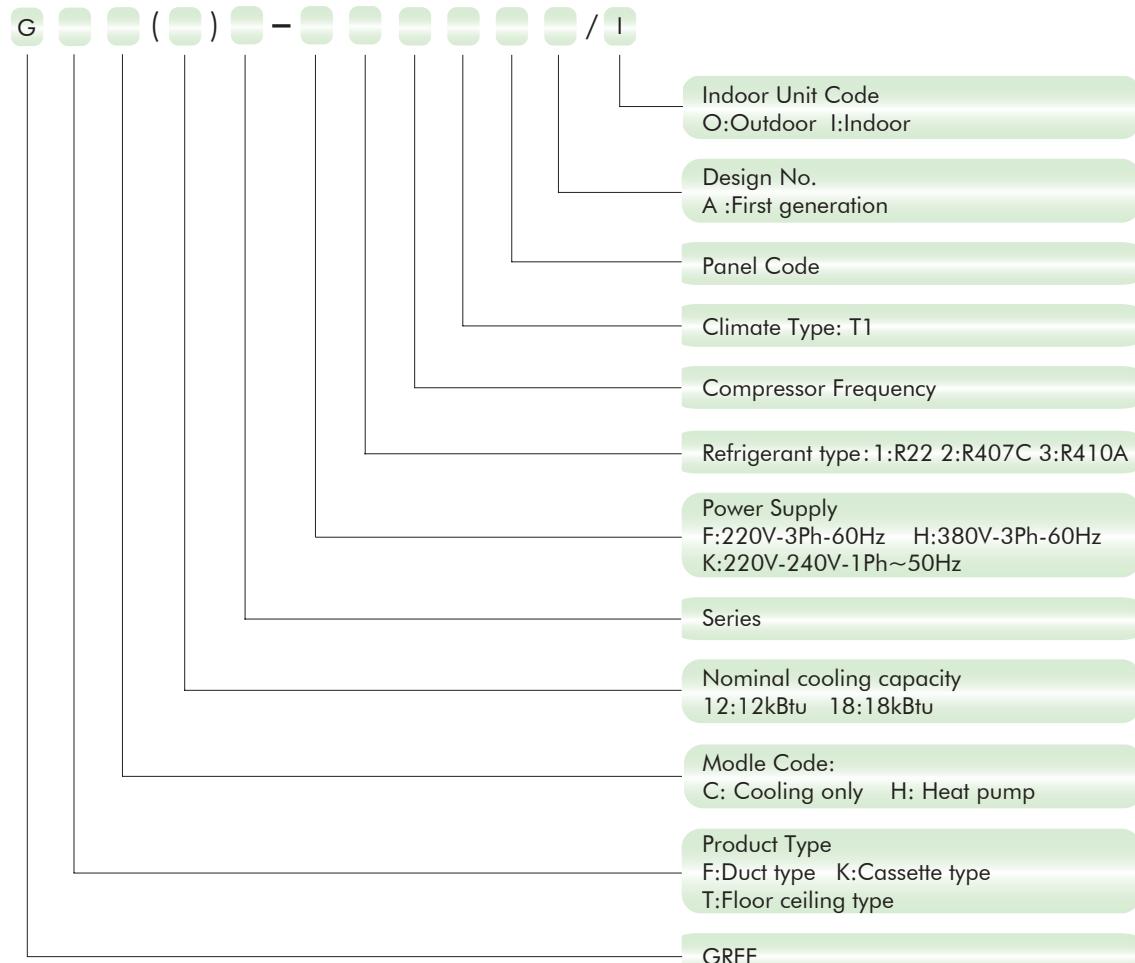
2.2 Indoor Unit

| Type | Appearance | Model Name | Capacity Code | Cooling Capacity(kW) | Heating Capacity(kW) |
|-----------------------------------|------------|---------------------|---------------|----------------------|----------------------|
| VIOLA | | GWH(07)RA-K3DNA3E/I | 7 | 2.1 | 2.6 |
| | | GWH(09)RA-K3DNA3E/I | 9 | 2.6 | 2.8 |
| | | GWH(12)RB-K3DNA3E/I | 12 | 3.5 | 3.8 |
| | | GWH(18)RC-K3DNA3E/I | 18 | 5.3 | 5.8 |
| Change | | GWH(07)KF-K3DNA6E/I | 7 | 2.1 | 2.6 |
| | | GWH(09)KF-K3DNA6E/I | 9 | 2.6 | 2.8 |
| | | GWH(12)KF-K3DNA6E/I | 12 | 3.5 | 3.8 |
| | | GWH(18)KG-K3DNA6E/I | 18 | 5.3 | 5.8 |
| Cozy | | GWH(07)MA-K3DNA4E/I | 7 | 2.1 | 2.6 |
| | | GWH(09)MA-K3DNA4E/I | 9 | 2.6 | 2.8 |
| | | GWH(12)MB-K3DNA4E/I | 12 | 3.5 | 3.8 |
| | | GWH(18)MC-K3DNA4E/I | 18 | 5.3 | 5.8 |
| Conceded Duct Standard Type | | GFH(09)EA-K3DNA1A/I | 9 | 2.5 | 2.8 |
| | | GFH(12)EA-K3DNA1A/I | 12 | 3.5 | 3.85 |
| | | GFH(18)EA-K3DNA1A/I | 18 | 5.0 | 5.5 |
| | | GFH(21)EA-K3DNA1A/I | 21 | 6.0 | 6.6 |
| | | GFH(24)EA-K3DNA1A/I | 24 | 7.1 | 8.0 |
| 4-way Air Discharge Cassette Type | | GKH(12)BA-K3DNA1A/I | 12 | 3.5 | 3.85 |
| | | GKH(18)BA-K3DNA1A/I | 18 | 5.0 | 5.5 |
| | | GKH(24)BA-K3DNA1A/I | 24 | 7.1 | 8.0 |
| | | GKH(12)BA-K3DNA2A/I | 12 | 3.5 | 4.0 |
| | | GKH(18)BA-K3DNA2A/I | 18 | 4.5 | 5.0 |
| Flooring ceiling Type | | GTH(09)BA-K3DNA1A/I | 9 | 2.5 | 2.8 |
| | | GTH(12)BA-K3DNA1A/I | 12 | 3.5 | 3.85 |
| | | GTH(18)BA-K3DNA1A/I | 18 | 5.0 | 5.5 |
| | | GTH(24)BA-K3DNA1A/I | 24 | 7.1 | 8.0 |

Conversion Formula: 1kW=3412Btu/h

FREE MATCH III Multi VRF Technical Sales Guide

a. Nomenclature



Example:

GFH(09)BA-K3DNA1A/I:A ducted type indoor unit of GREE, and the nominal cooling capacity is 2.5kW. It the R410A product. The power supply is 220V-240V-1Ph~50Hz.

b. Rated Conditions

Cooling: Indoor air temperature 27°C (80.6 °F)DB/19 °C (66.2 °F)WB
Outdoor air temperature 35 °C (95 °F)DB/24 °C (75.2 °F)WB

Heating: Indoor air temperature 20 °C (68 °F)DB/15 °C (59 °F)WB
Outdoor air temperature 7 °C (44.6 °F)DB/6 °C (42.8 °F)WB

2.3 Controller

| Name | Model Name | Appearance | Application | Function |
|-------------------|------------|------------|-------------|--|
| Wired controller | XK19 | | | <ul style="list-style-type: none"> Start/Stop Mode changing Temperature setting Air flow changing Timing setting Self-diagnosis function Display codes of trouble. <p>Control by 2 remote controllers is available</p> <p>Two remote controllers can be connected to one indoor unit.</p> <p>The indoor unit can be separately operated from the isolated places.</p> |
| Remote controller | YT1F | | | <ul style="list-style-type: none"> Start/Stop Mode changing Temperature setting Air flow changing Timing setting |

FREE MATCH III Multi VRF Technical Sales Guide

3 BASIC SYSTEM CONFIGURATION

System Legend (ex.)

Model name of outdoor unit:

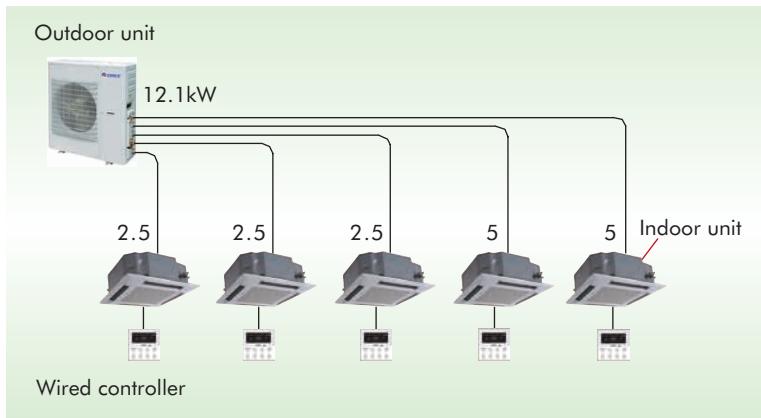
GWHD(42)NK3AO

Allowed max. indoor unit:

5 Units

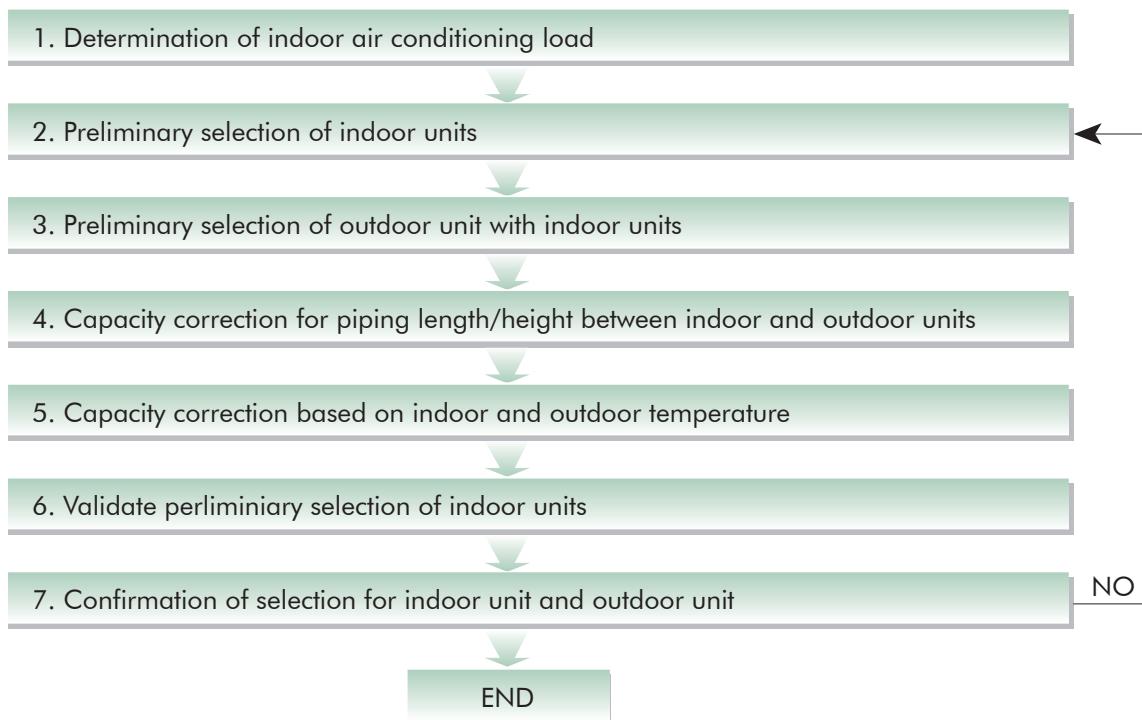
Allowed capacity code of indoor unit:

Min. : 9K Max. : 24K



4 EQUIPMENT SELECTION PROCEDURE

4.1 Selection Flow Chart



4.2 Combination Conditions for Indoor Unit and Outdoor Unit

- (1) The capacity code of indoor units = the nominal cooling capacity (Btu/h) × 1000.
- (2) For outdoor unit, maximum No. of connectable indoor units and total capacity code of indoor units are decided.

| Model name of outdoor unit | Capacity code of outdoor unit | Max. No. of indoor units | Total capacity code of indoor units |
|----------------------------|-------------------------------|--------------------------|-------------------------------------|
| GWHD(18)NK3FO | 18 | 2 | 7 to 21 |
| GWHD(24)NK3FO | 24 | 2 | 14 to 30 |
| GWHD(24)NK3GO | 24 | 3 | 14 to 36 |
| GWHD(28)NK3FO | 28 | 4 | 14 to 42 |
| GWHD(36)NK3BO | 36 | 4 | 18 to 51.2 |
| GWHD(42)NK3AO | 42 | 5 | 21 to 63 |

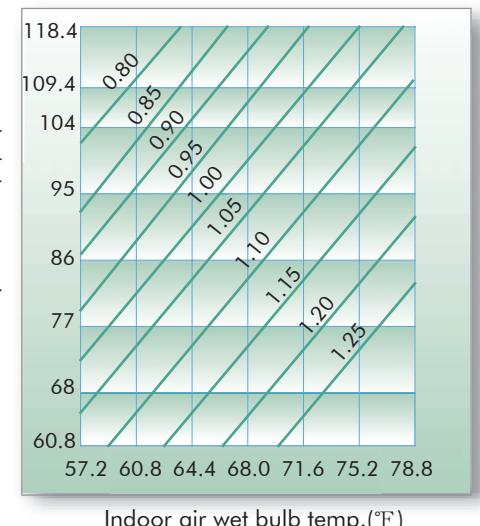
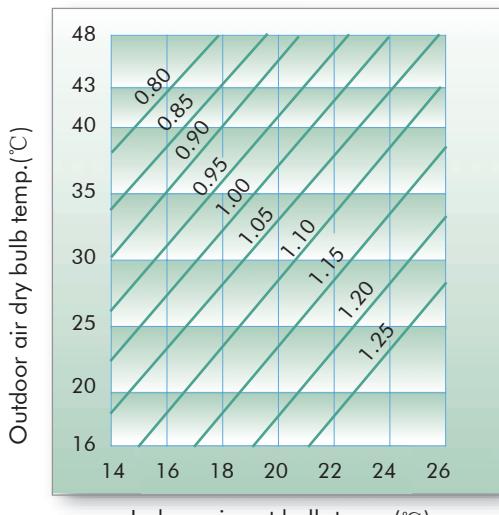
4.3 Cooling/Heating Capacity Characteristics

4.3.1 Cooling Capacity Calculation Method

Required cooling capacity = cooling capacity × Factor ① × Factor ② kW

① Ambient Temperature vs. Capacity Correction Value

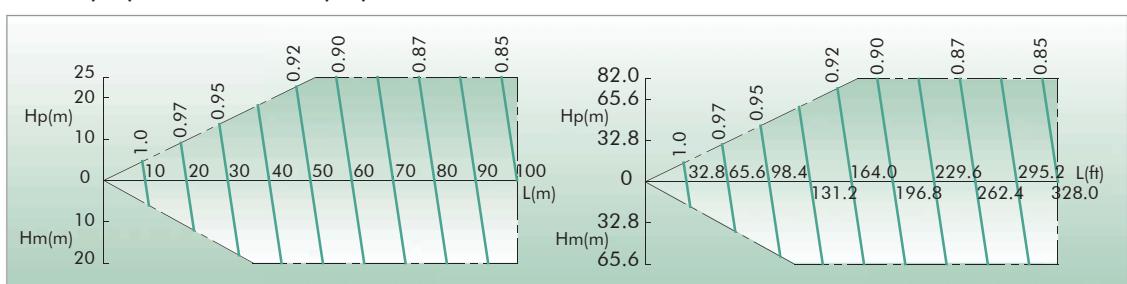
FREE MATCH III Multi VRF Technical Sales Guide



② Connecting Pipe Length and Height Difference Between Indoor and Outdoor Units vs. Capacity Correction Value

- ◆ Hp: Height Difference Between Indoor and Outdoor Units(Outdoor unit higher)
- ◆ Hm: Height Difference Between Indoor and Outdoor Units(Outdoor unit lower)
- ◆ L:Equivalent pipe length

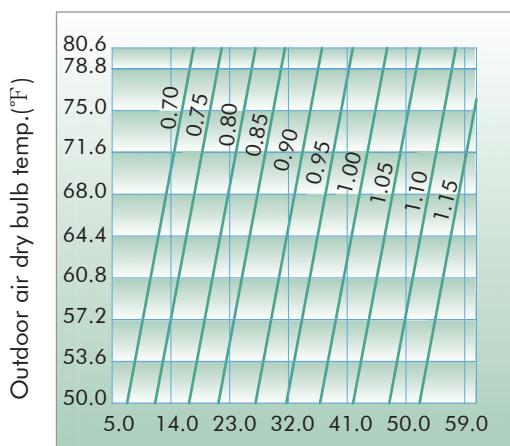
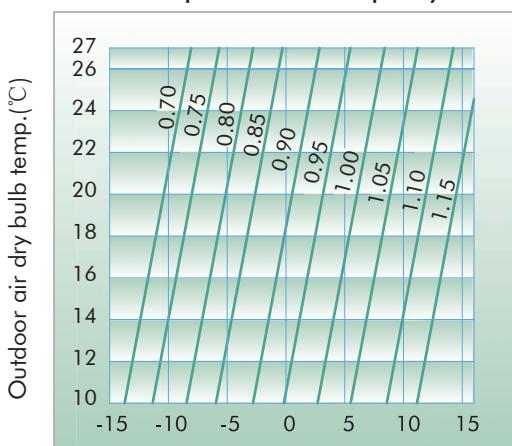
GWHD(36)NK3BO, GWHD(42)NK3AO



4.3.2 Heating Capacity Calculation Method

$$\text{Required Heating capacity} = \text{Heating capacity} \times \text{Factor ①} \times \text{Factor ②} \text{ kW}$$

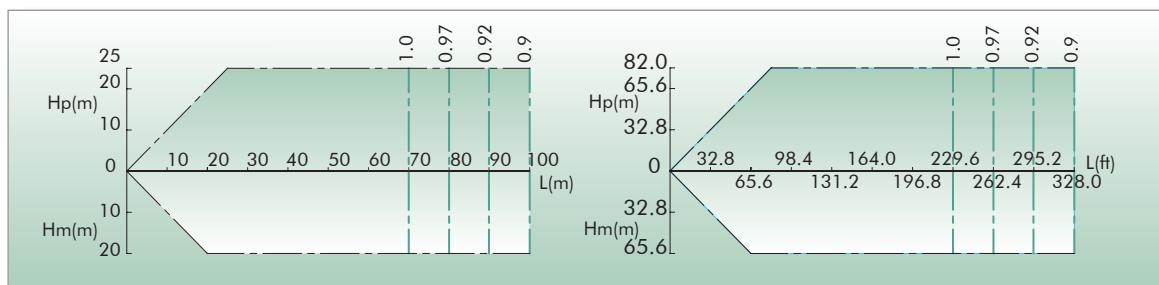
① Ambient Temperature vs. Capacity Correction Value



② Connecting Pipe Length Between Indoor and Outdoor Units vs. Capacity Correction Value

- ◆ Hp: Height Difference Between Indoor and Outdoor Units(Outdoor unit higher)
- ◆ Hm: Height Difference Between Indoor and Outdoor Units(Outdoor unit lower)
- ◆ L:Equivalent pipe length

GWHD(36)NK3BO, GWHD(42)NK3AO



4.3.3 Capacity Calculation for Each Indoor Unit

Capacity for each indoor unit

$$= \text{Capacity after correction of outdoor unit} \times \frac{\text{Required standard capacity of indoor unit}}{\text{Total value of standard indoor unit capacity}}$$

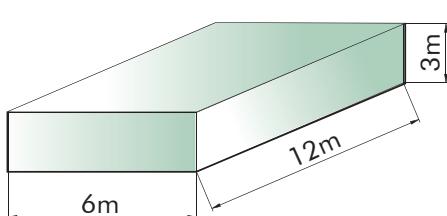
4.3.4 Operating temperature range

| Range | Mode | Outdoor temperature range °C (°F) |
|-------|---------|-------------------------------------|
| | Cooling | -5~48°C (23~118.4 °F) |
| | Heating | -15~27°C (5~81 °F) |

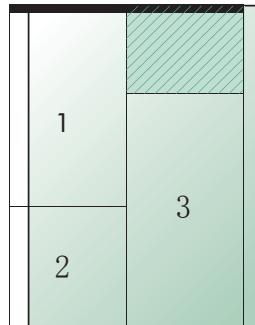
4.4 Example of Equipment Selection

4.4.1 Overview of Building Model

<Outside view>



<Stories configuration>



Non-air conditioning zone



Steel frame, reinforced concrete building, ten stories above ground.

An apartment area : 72 m²

Outdoor unit is installed on the balcony.Design indoor conditions:

Cooling : 27.0°C (80.6 °F)/19.0°C (66.2 °F)DB/WB

Design outdoor conditions

Cooling : 35°C (95 °F)DB (Standard condition)

FREE MATCH III Multi VRF Technical Sales Guide

4.4.2 Selection Criteria for Each Apartment

Outdoor capacity exactly matches the total indoor capacity.

Total indoor HP = Outdoor unit HP

Indoor : 1.5 HP + 1HP + 2 HP = 4.5 HP

Outdoor : 5 HP (Same capacity)

4.4.3 Procedure and Result of Equipment Selection

a. Procedure of Equipment Selection

① Calculate cooling for every rooms.

② Select an indoor unit to match the cooling load for every room.

③ Choose a tentative outdoor that will match with the indoor units. Perform capacity correction based on the pipe length, system lift, indoor set temperature, outdoor temperature. Then, make sure the corrected system cooling capacity satisfies the cooling load.

b. Equipment Selection and Capacity Check

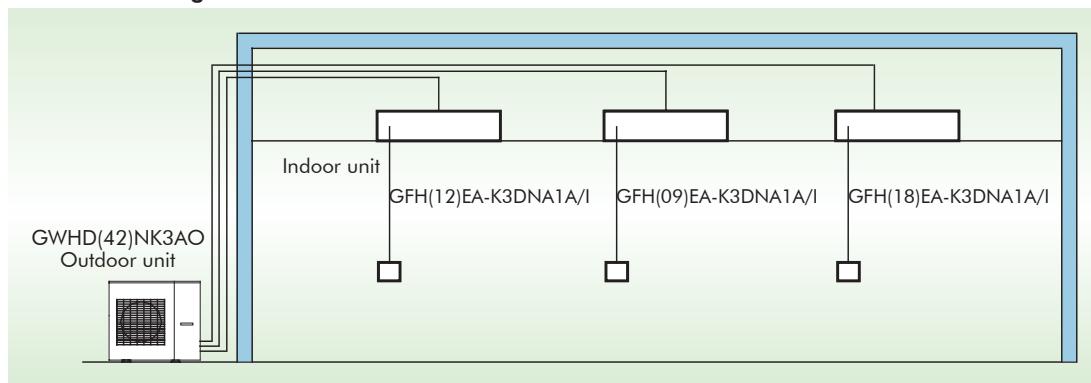
| Air conditioning load | | | Equipment selection | | | | | |
|-----------------------|----------|--------------------------|---------------------|---------------|------|---------------|---------------|------|
| Floor | Room No. | Indoor cooling load (kW) | Indoor unit | | | Outdoor unit | | |
| | | | Model | Capacity (kW) | | Model | Capacity (kW) | |
| 5F | 1 | 3.5 | GFH(12)EA-K3DNA1A/I | 3.5 | 3.85 | GWHD(42)NK3AO | 11.6 | 13.0 |
| | 2 | 2.5 | GFH(09)EA-K3DNA1A/I | 2.5 | 2.8 | | | |
| | 3 | 5 | GFH(18)EA-K3DNA1A/I | 5 | 5.5 | | | |

Conversion Formula: 1kW=3412Btu/h

| Piping distance | | | | Capacity correction | | Capacity check after correction | | |
|-----------------|----------|-----------------------|----------------------------|-------------------------------|---------|---------------------------------|----------|--|
| Floor | Room No. | Equivalent length (m) | Height Pipe difference (m) | correction x temp. correction | | Capacity | Judgment | |
| | | | | Cooling | Heating | | | |
| 5F | 1 | 30 | 0 | 0.95 | 1 | 3.42 | good | |
| | 2 | | | | | 2.375 | | |
| | 3 | | | | | 4.75 | | |

Conversion Formula: 1kW=3412Btu/h

c. Schematic Diagram



5 REFRIGERANT PIPING DESIGN

5.1 Warning on Refrigerant Leakage

The room in which the air conditioner is to be installed requires a design that in the event of refrigerant gas leaking out, its concentration will not exceed a set limit.

The refrigerant R410A which is used in the air conditioner is safe, without the toxicity or combustibility of ammonia. However, since it contains more than air, it poses the risk of suffocation if its concentration should rise excessively. Suffocation from leakage of R410A is almost non-existent. With the recent increase in the number of high concentration buildings, the installation of multi air conditioner systems is on the increase because of the need for effective use of floor space, individual control, energy conservation by curtailing heat and carrying power etc.

Most importantly, the multi air conditioner system is able to replenish a large amount of refrigerant compared with conventional individual air conditioners. If a single unit of the multi conditioner system is to be installed in a small room, select a suitable model and installation procedure so that if the refrigerant accidentally leaks out, its concentration does not reach the limit (and in the event of an emergency, measures can be made before injury can occur).

In a room where the concentration may exceed the limit, create an opening with adjacent rooms, or install mechanical ventilation combined with a gas leak detection device.

5.1.1 The Concentration Limit of R410A Which is Used in Multi Air Conditioner

The concentration limit of R410A which means the concentration limit of R410A that can be controlled by emergency measures to prevent human body from harming. The refrigerant concentration unit is kg/m³ (Which means the weight of refrigerant per m³ air).

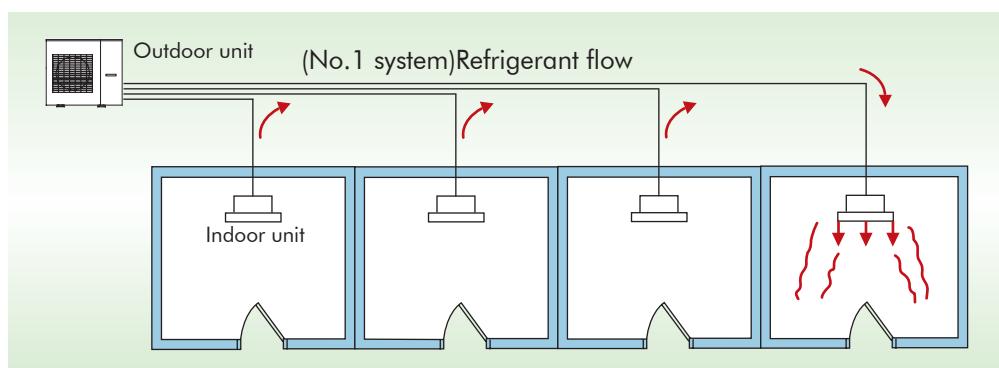


Fig.5.1

5.1.2 Check of Refrigerant Leakage

Calculate the refrigerant concentration as follows:

① Calculate the Amount of Refrigerant of Each Refrigeration System

[The amount of refrigerant of each system of outdoor unit] + [Additional charged amount at field installation]

Refrigerant amount of the outdoor unit at ex-factory

According to the liquid tube length and diameter

= System total amount of refrigerant(kg)

NOTE:

When single refrigeration system consists of several independent refrigeration circuit, figure out the total refrigerant amount by each independent refrigerant circuit. For the amount of charge in this example:

FREE MATCH III Multi VRF Technical Sales Guide

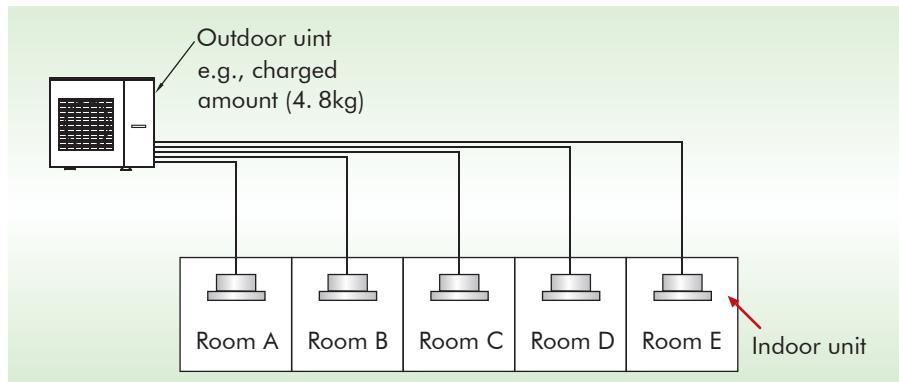


Fig.5.2

The possible amount of leaked refrigerant gas in rooms A, B, C, D and E is 4.8kg.
The possible amount of leaked refrigerant gas in rooms D, E is 7 kg.

② Calculate the Minimum Room Volume are as Follows

- ◆ No partition (shaded portion)

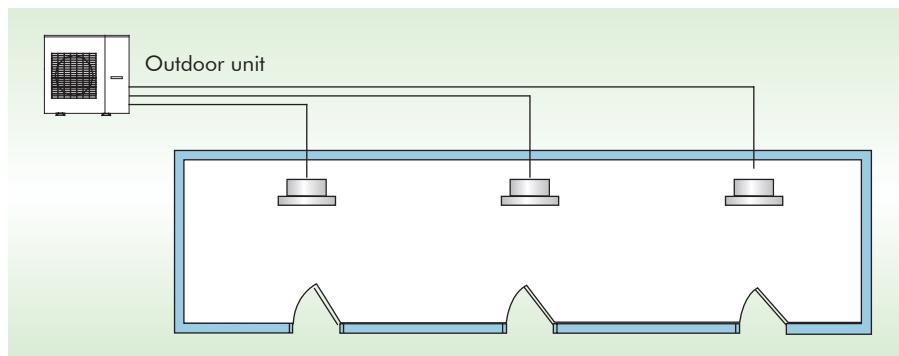


Fig.5.3

- ◆ When there is an effective opening with the adjacent room for ventilation of leaking refrigerant gas (opening with a door, or an opening 0.15% or larger than the respective floor spaces at the top or bottom of the door).

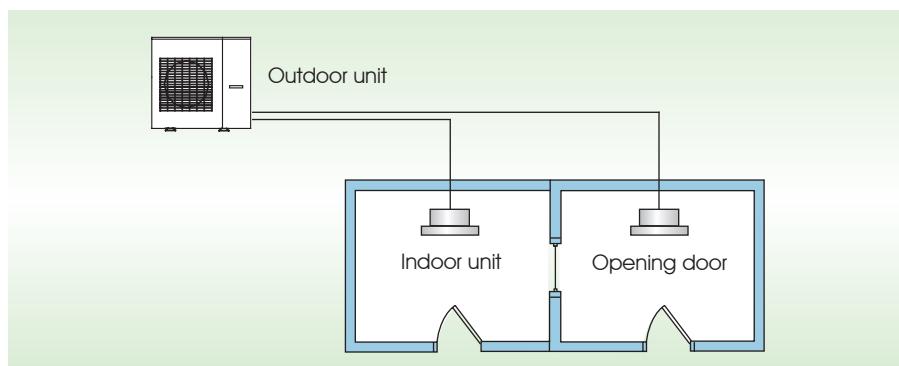


Fig.5.4

- ◆ If an indoor unit is installed in each partitioned room and the refrigerant tubing is interconnected, the smallest room of course becomes the object.

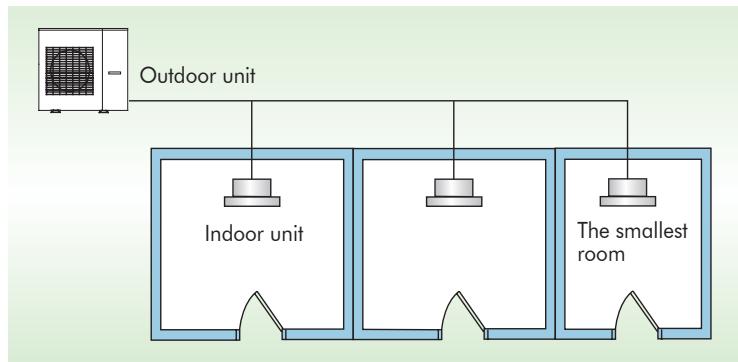
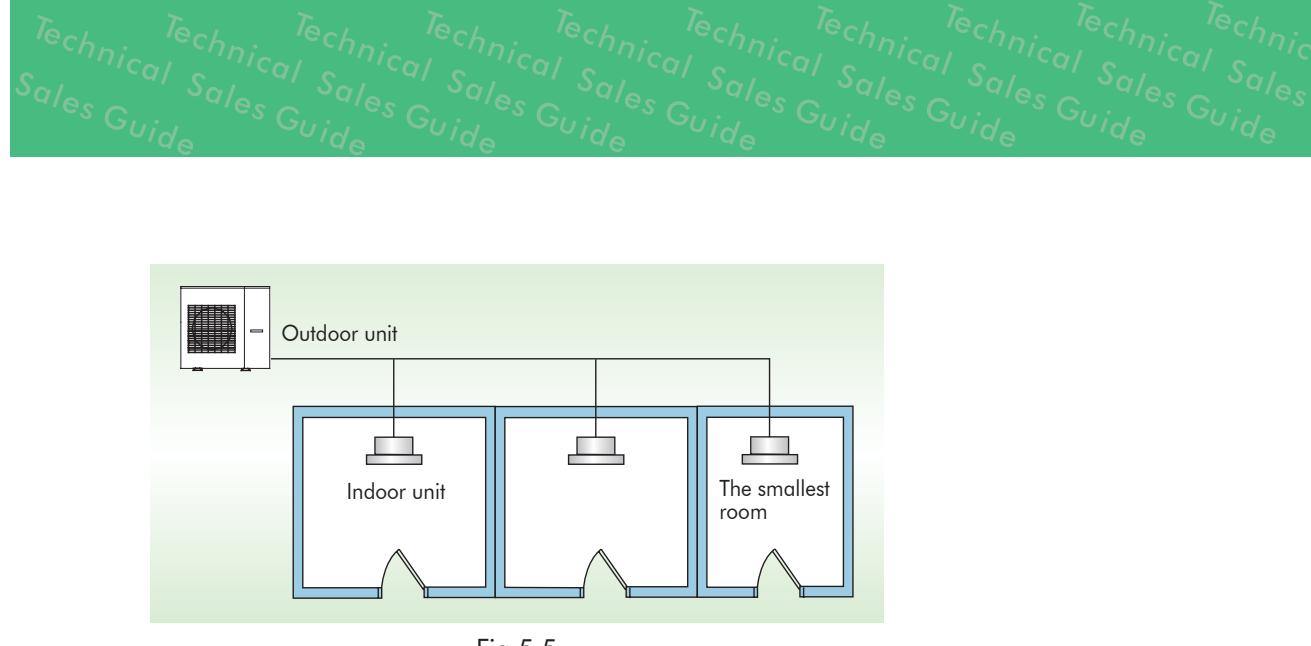


Fig.5.5

The concentration limit of R410A which is used in multi air conditioners is 0.3kg/m³.

③ Use the results of calculations ① and ② to calculate the refrigerant concentration:

The concentration is as given below:

$$\frac{\text{Total amount of refrigerant(kg)}}{\text{Min.volume of the indoor unit installed room(m}^3\text{)}} \leq \text{Concentration limit(kg/m}^3\text{)}$$

5.1.3 Measures When The Refrigerant Concentration Limit is Exceeded(JRA-GL 13-1998)

When the refrigerant concentration exceeds the density limit value relative to indoor volume, take proper actions according to following key points:

◆ **Method 1:** Set up an opening for efficient air exchange

Opening with a door, or an opening 0.1% or larger than the respective floor spaces at the top or bottom of the door.

◆ **Method 2:** Decrease the total amount of refrigerant in refrigerant equipment.

Shorten the Length of Refrigerant Pipe

Install the outdoor unit closer to the indoor unit and shorten the length of refrigerant pipe, hence to decrease the total amount of refrigerant in refrigerant equipment.

Decrease the Capacity of Outdoor Unit

Split the outdoor unit into multiple sets, thus decreasing the capacity of each outdoor unit to which one refrigerant system corresponds and hence to decrease the filling amount of refrigerant.

For example: If one 10HP system is split into 2 sets of 5HP systems, the amount of refrigerant in one refrigerant system may be half decreased approximately.

◆ **Method 3:** Set up an air exchange system

An air exchange system can be set to avoid too high concentration of refrigerant in event of refrigerant leakage. The air exchange system includes two types, i.e. external air import and air discharge. From the property of refrigerant, it is recommended to adopt the external air import.

Exchanging Air Volume

According to the total amount of refrigerant of refrigerant equipment and the room volume, air exchange volume should be greater than the volume showed in Fig.5.6.

FREE MATCH III Multi VRF Technical Sales Guide

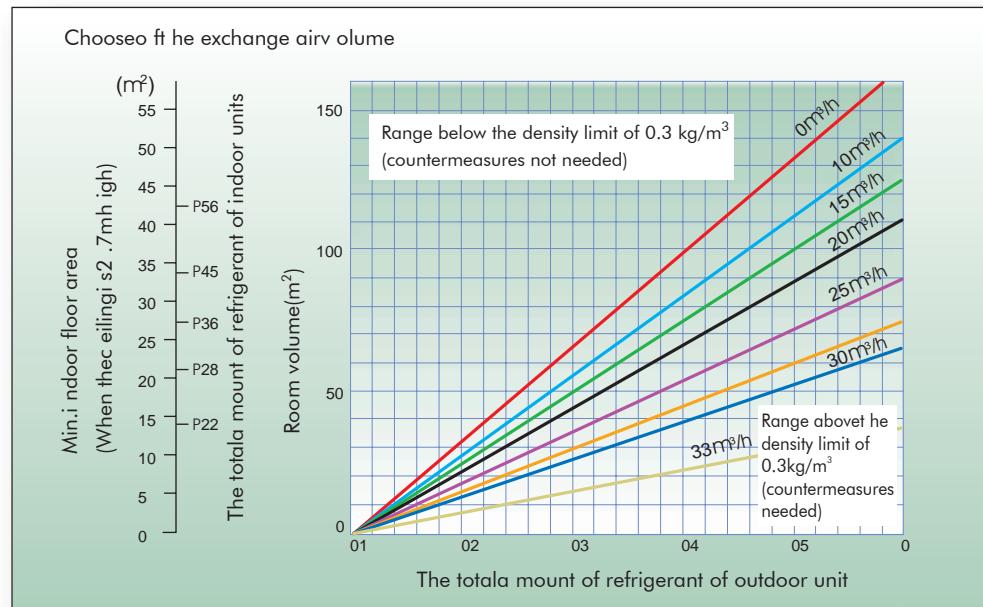


Fig.5.6

Detector and Interlink

In principle, the air exchange system shall always work normally no matter the air conditioner is used or any person stays in the room. If it is impossible to realize long-term working, please use a detector system to activate the air exchange system upon leakage of refrigerant. Shown in Fig. 5.7 is the air exchange system in long-term working. Shown in Fig. 5.8 is the detector interlink system.

NOTE:

- (a) In order to avoid malfunction of air exchange system, please do not choose the range showed in oblique line in Fig. 5.6 even though equipped with air exchange system. If entering into this range, should set effective air exchange port, expand room volume or decrease the amount of outdoor unit, change the piping length in order to decrease total refrigerant amount, in principle according to method 1 and 2.
- (b) Where an air exchange system is provided but it is impossible to take Method 1 or Method 2 when the refrigerant concentration is within the range indicated by the oblique line in Fig. 5.6, please use other means independent from air exchange system to ensure safety. In detail, we can set a refrigerant cutoff valve that can be activated by the detector upon refrigerant leakage and as well, set an alarm system that can notify the indoor person. The detector here is different from the detector in aforementioned air exchange system. Shown in Fig. 5.9 is the status that a refrigerant cutoff valve is set.
- (c) To set an air exchange system, please ensure to leave an efficient air exchange gap (e.g. gap below the door) at the lowest part of the room.
- (d) For connection of pipes within living area, please make sure to comply with JIS specification and perform thorough airtight test after the work is completed. Additionally, please ensure that the pipe is installed with shockproof device to avoid damage due to earthquake or the other external forces. (But on axial direction, a leeway shall be left to eliminate the stress caused by temperature variation).

Long Term Working Air Exchange System

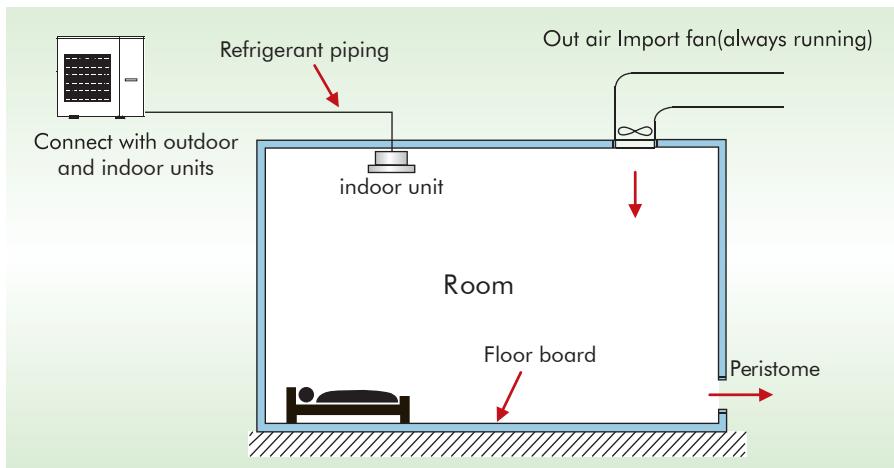


Fig.5.7

Detector Interlink System

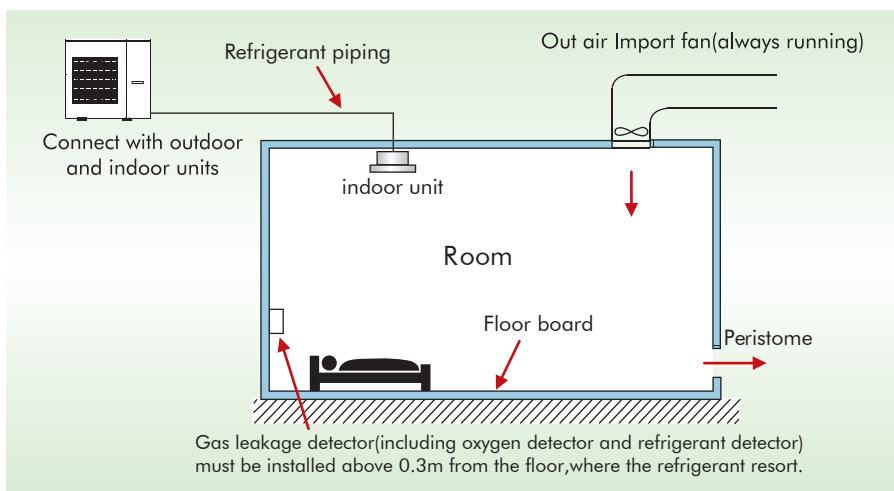


Fig.5.8

Position of Long Term Running Ventilation System and Refrigerant Cut-off Valve

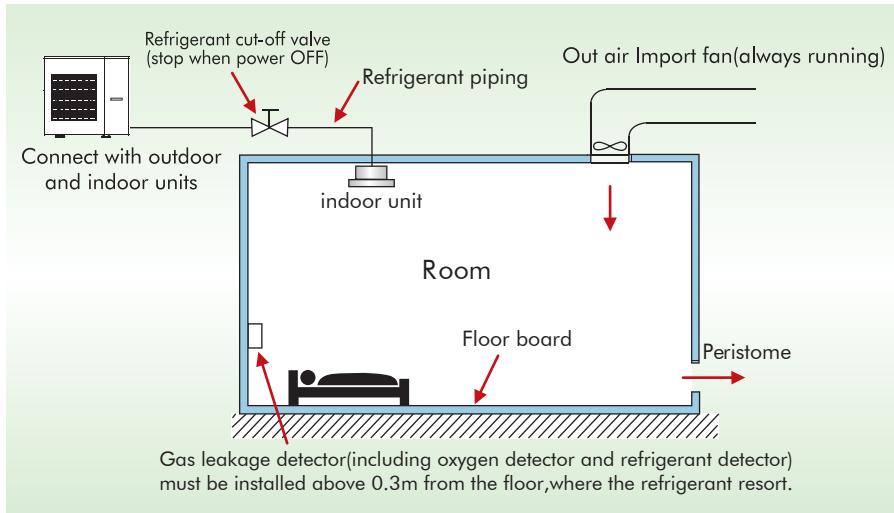


Fig.5.9

FREE MATCH III Multi VRF Technical Sales Guide

5.2 Allowable Length/Height Difference of Refrigerant Piping

GWHD(18)NK3FO, GWHD(24)NK3FO

| | | Allowable Length | | Refrigerant Pipe | |
|---|------------------------------|------------------|---------------|------------------|---------------|
| | | GWHD(18)NK3FO | GWHD(24)NK3FO | GWHD(18)NK3FO | GWHD(24)NK3FO |
| Max. Total Liquid Pipe Length (m) | | 20 | 20 | L1+L2 | L1+L2 |
| Max. Not Additional Gas Total Liquid Pipe Length(m) | | 10 | 10 | - | - |
| Max. Length for Single Unit (m) | | 10 | 10 | L1 | |
| Max. installation altitude | Outdoor unit and indoor unit | 5 | 5 | H1 | |
| | Indoor unit and indoor unit | 7.5 | 7.5 | H2 | |

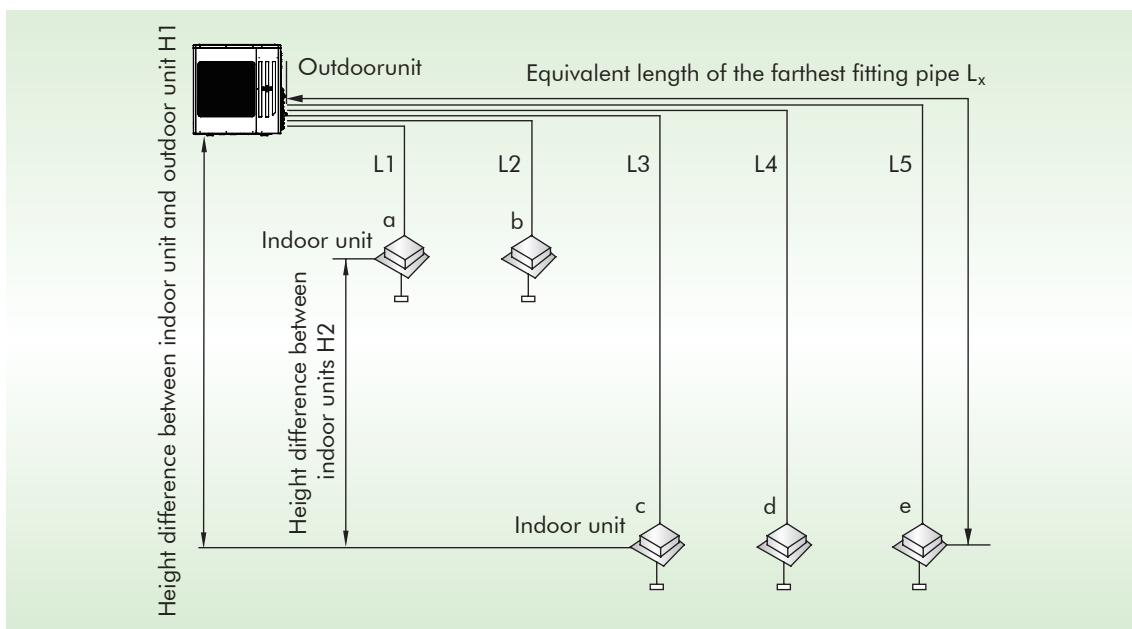
GWHD(24)NK3GO, GWHD(28)NK3FO

| | | Allowable Length | | Refrigerant Pipe | |
|---|------------------------------|------------------|---------------|------------------|---------------|
| | | GWHD(24)NK3GO | GWHD(28)NK3FO | GWHD(24)NK3GO | GWHD(28)NK3FO |
| Max. Total Liquid Pipe Length (m) | | 60 | 70 | L1+L2+L3 | L1+L2+L3+ L4 |
| Max. Not Additional Gas Total Liquid Pipe Length(m) | | 15 | 20 | - | - |
| Max. Length for Single Unit (m) | | 20 | 20 | L1 | |
| Max. installation altitude | Outdoor unit and indoor unit | 10 | 10 | H1 | |
| | Indoor unit and indoor unit | 7.5 | 7.5 | H2 | |

GWHD(36)NK3BO, GWHD(42)NK3AO

| | | Allowable Length | | Refrigerant Pipe | |
|---|------------------------------|------------------|---------------|------------------|------------------|
| | | GWHD(36)NK3BO | GWHD(42)NK3AO | GWHD(36)NK3BO | GWHD(42)NK3AO |
| Max. Total Liquid Pipe Length (m) | | 70 | 80 | L1+L2+L3+ L4 | L1+L2+L3+ L4+ L5 |
| Max. Not Additional Gas Total Liquid Pipe Length(m) | | 40 | 50 | - | - |
| Max. Length for Single Unit (m) | | 20 | 25 | L1 | |
| Max. installation altitude | Outdoor unit and indoor unit | 15 | 15 | H1 | |
| | Indoor unit and indoor unit | 7.5 | 7.5 | H2 | |

Additional Refrigerant Charge=ΣExtra Liquid Pipe Length×22g/m(liquid pipe 1/4").



If the specification of the outdoor unit pipe joint does not conform to that of the indoor unit, then the joint specification of the outlet pipe of the indoor unit takes precedence. A reducing nipple shall be installed at the joint of the outdoor unit so as to make the joint of the outdoor unit compatible with that of the indoor unit.

5.3 Charging requirement with Additional Refrigerant

Refrigerant in the System When Shipped from the Factory

| Model name | GWHD(18)NK3FO | GWHD(24)NK3FO |
|---------------------------------------|---------------|---------------|
| Refrigerant amount charged in factory | 1.4kg | 2.0kg |
| Model name | GWHD(24)NK3GO | GWHD(28)NK3FO |
| Refrigerant amount charged in factory | 2.2kg | 2.2kg |
| Model name | GWHD(36)NK3BO | GWHD(42)NK3AO |
| Refrigerant amount charged in factory | 4.3kg | 4.8kg |

NOTE:

- (a) The refrigerant charge mentioned in the table above is not included those charged additionally in the indoor unit and the refrigerant pipe.
- (b) The amount of the additional refrigerant charge is dependent on the diameter and length of the liquid refrigerant pipe which is decided by the actual yield installation requirement.
- (c) Record the additional refrigerant charge for future maintenance.

FREE MATCH III Multi VRF Technical Sales Guide

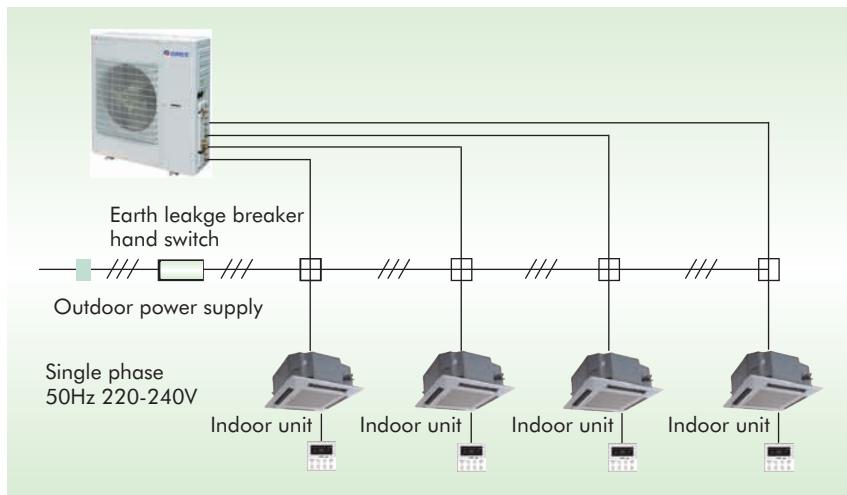
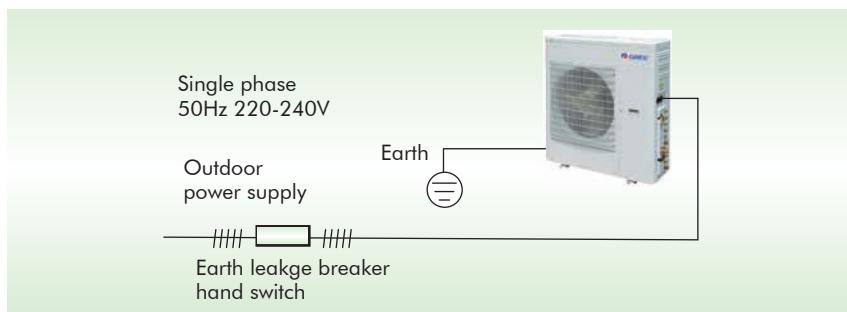
6 WIRING DESIGN

6.1 General

- (1) Perform wiring of the power supply in conformance with the regulations of the local electric company.
- (2) For the control wires connecting indoor units, and between indoor and outdoor units, use of twisted -pair shield wires is recommended to prevent noise trouble.
- (3) Be sure to set the earth leakage breaker and the switches to the power supply section of the indoor unit.
- (4) Supply power to each outdoor unit and provide an earth leakage breaker or hand switch for each outdoor unit.
- (5) Store wiring system for control and refrigerant piping system in the same line.
- (6) Arrange the cables so that the electric wires do not contact with high-temperature part of the pipe; otherwise coating melts and an accident may be caused.
- (7) Do not turn on power of the indoor unit until vacuuming of the refrigerant pipe finish.

6.2 Electrical Wiring Design

6.2.1 Wiring Drawing



6.2.2 Selection of Power Supply Cabling and Fuse of Units

| Model | Power supply wiring | | |
|--------------|----------------------------|--------------------|-----|
| | Wire Size | Field Fuse | |
| Outdoor Unit | GWHD(18)NK3FO | 2.5mm ² | 25A |
| | GWHD(24)NK3FO | 2.5mm ² | 30A |
| | GWHD(24)NK3GO | 2.5mm ² | 30A |
| | GWHD(28)NK3FO | 2.5mm ² | 30A |
| | GWHD(36)NK3BO | 4mm ² | 32A |
| | GWHD(42)NK3AO | 4mm ² | 32A |
| Indoor Unit | All models of indoor units | 1.5mm ² | 10A |

- ◆ Determine the wire size for indoor unit according to the number of connected indoor units downstream.
 - ◆ Observe local regulation regarding wire size selection and installation.

NOTE :

The specification of power cord mentioned hereby is defined as the required specification when wiring with BV single core cable (2~4 pieces) under the cover of PVC pipe, and environment temperature shall be at 40°C ; Air switch shall be selected according to 40°C temperature condition, and shall in D type. if the installation condition on site changed, please consider the modification on the required specification of Power cord and Air switch, according to the specification manual provided by manufacture.

CAUTIONS

- (1) Keep the refrigerant piping system and the indoor-indoor/indoor-outdoor control wiring systems together.
 - (2) When running power wires and control wires parallel to each other, either run them through separate conduits or (Current capacity of power wires: 10A or less for 300m, 50A or less for 500m).

6.3 Parameters

6.3.1 Outdoor Unit

| Model name | Voltage Range | | Compressor | Fan Motor | |
|---------------|---------------|-----|------------|-----------|-------|
| | Min | Max | RLA | kW | FLA |
| GWHD(18)NK3FO | 198 | 264 | 7.2A | 0.06 | 0.56 |
| GWHD(24)NK3FO | 198 | 264 | 11.5A | 0.06 | 0.06 |
| GWHD(24)NK3GO | 198 | 264 | 11.5A | 0.06 | 0.06 |
| GWHD(28)NK3FO | 198 | 264 | 11.5A | 0.09 | 0.06 |
| GWHD(36)NK3BO | 198 | 264 | 14.0A | 0.17 | 0.95A |
| GWHD(42)NK3AO | 198 | 264 | 13.5A | 0.14 | 1.1A |

LEGEND:

MCA: Minimum Circuit Amps

kW: Fan Motor Rated Output(kW)

Note: RLA is based on the following conditions.

Indoor temperature: **29°C (84.2F)DB/19°C (66.6F)WB**

FLA: Full Load Amps

RLA: Rated Load Amps

Outdoor temperature: **46°C (114.8F) DB**

FREE MATCH III Multi VRF Technical Sales Guide

6.3.2 Indoor Unit

| Type | Model name | Nominal Voltage (V/Ph/Hz) | Voltage Range | | Fan Motor | |
|---|---------------------|------------------------------|---------------|-----|-----------|--------|
| | | | Min | Max | kW | FLA |
| VIOLA | GWH(07)RA-K3DNA3E/I | 220-240/1/50 | 198 | 264 | 0.01 | 0.144A |
| | GWH(09)RA-K3DNA3E/I | | | | 0.01 | 0.144A |
| | GWH(12)RB-K3DNA3E/I | | | | 0.02 | 0.22A |
| | GWH(18)RC-K3DNA3E/I | | | | 0.02 | 0.31A |
| Cozy | GWH(07)MA-K3DNA4E/I | 220-240/1/50 | 198 | 264 | 0.01 | 0.144A |
| | GWH(09)MA-K3DNA4E/I | | | | 0.01 | 0.144A |
| | GWH(12)MB-K3DNA4E/I | | | | 0.02 | 0.22A |
| | GWH(18)MC-K3DNA4E/I | | | | 0.02 | 0.31A |
| Change | GWH(07)KF-K3DNA6E/I | 220-240/1/50 | 198 | 264 | 0.01 | 0.16A |
| | GWH(09)KF-K3DNA6E/I | | | | 0.01 | 0.16A |
| | GWH(12)KF-K3DNA6E/I | | | | 0.01 | 0.16A |
| | GWH(18)KG-K3DNA6E/I | | | | 0.02 | 0.31A |
| Duct type | GFH(09)EA-K3DNA1A/I | 220-240/1/50 | 198 | 264 | 0.078 | 0.28A |
| | GFH(12)EA-K3DNA1A/I | | | | 0.1 | 0.31A |
| | GFH(18)EA-K3DNA1A/I | | | | 0.11 | 0.41A |
| | GFH(21)EA-K3DNA1A/I | | | | 0.08 | 0.5A |
| | GFH(24)EA-K3DNA1A/I | | | | 0.08 | 0.5A |
| 4-way Air Discharge Cassette Type | GKH(12)BA-K3DNA1A/I | 220-240/1/50 | 198 | 264 | 0.08 | 0.32A |
| | GKH(18)BA-K3DNA1A/I | | | | 0.08 | 0.32A |
| | GKH(24)BA-K3DNA1A/I | | | | 0.1 | 0.43A |
| | GKH(12)BA-K3DNA2A/I | 220-240/1/50 | 198 | 264 | 0.05 | 0.2A |
| | GKH(18)BA-K3DNA2A/I | | | | 0.05 | 0.2A |
| Flooring Ceiling Type | GTH(09)BA-K3DNA1A/I | 220-240/1/50 | 198 | 264 | 0.04 | 0.28A |
| | GTH(12)BA-K3DNA1A/I | | | | 0.05 | 0.28A |
| | GTH(18)BA-K3DNA1A/I | | | | 0.08 | 0.5A |
| | GTH(24)BA-K3DNA1A/I | | | | 0.11 | 0.5A |

LEGEND:

FLA: Full Load Amps

kW: Fan Motor Rated Output(kW)

7 ACCESSORIES

7.1 Outdoor Unit

| Accessories model name | Standard | Option | Field supplied |
|------------------------|----------|--------|----------------|
| Power Cable | | | √ |
| Flexible pipe | √ | | |

7.2 Indoor Unit

| Accessories model name | Standard | Option | Field supplied |
|--|----------|--------|----------------|
| Power Cable | | | √ |
| Wireless Remote Controller | √ | | |
| Wired Controller | √ | | |
| Connecting Cable for Wired Controller (8m) | √ | | |
| Drain Pipe | √ | | |

7.3 Controller

| Accessories name | Model name | Standard | Option | Remark |
|----------------------------|------------|----------|--------|---------------------------------|
| Wireless Remote Controller | YT1F | √ | | Common parts for all type model |

FREE MATCH III Multi VRF Technical Sales Guide

8 TECHNICAL SPECIFICATIONS



8.1 Indoor Unit

◆ VIOLA

| Indoor Unit | | Model | | GWH(07)RA-K3DNA3E/I | GWH(09)RA-K3DNA3E/I |
|---------------------------------|--------------------|--------------|----|---------------------|---------------------|
| Electrical Data | | Power supply | | 220-240-50-1 | 220-240-50-1 |
| Sound Pressure Level (H/M/L) | | dB (A) | | 37/35/32 | 37/35/32 |
| Air Flow Volume(rated EXP) | | CFM | | 247 | 247 |
| Fan Motor | Drive Type | | - | Direct drive | Direct drive |
| | Power Output | | W | 10 | 10 |
| | Full Load Amp(FLA) | | A | 0.144 | 0.144 |
| Drainage Connection Size | | mm | | 16 | 16 |
| Dimension | Outline(W×D×H) | | mm | 794×186×265 | 794×186×265 |
| | Package(L×W×H) | | mm | 873×353×270 | 873×353×270 |
| Weight | Net/Gross | | kg | 9.0/11.5 | 9.0/11.5 |
| Loading quantity (within panel) | | 20'GP | | 366 | 366 |
| | | 40'GP | | 756 | 756 |
| | | 40'HQ | | 840 | 840 |

NOTES:

- The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data.
- The Heating capacity of the heat pump type is the capacity of heat pump.
- Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.



| Indoor Unit | | Model | | GWH(12)RB-K3DNA3E/I | | GWH(18)RC-K3DNA3E/I | | | |
|---------------------------------|--------------------|--------------|--------|---------------------|--|---------------------|--|--|--|
| Electrical Data | | Power supply | | V-Hz-Ph | | 220-240-50-1 | | | |
| Sound Pressure Level (H/M/L) | | | dB (A) | 39/36/33 | | 42/37/33 | | | |
| Air Flow Volume(rated EXP) | | | CFM | 312 | | 459 | | | |
| Fan Motor | Drive Type | | - | Direct drive | | Direct drive | | | |
| | Power Output | | W | 20 | | 20 | | | |
| | Full Load Amp(FLA) | | A | 0.22 | | 0.31 | | | |
| Drainage Connection Size | | | mm | 16 | | 16 | | | |
| Dimension | Outline(W×D×H) | | mm | 848×189×274 | | 945×208×298 | | | |
| | Package(L×W×H) | | mm | 926×359×279 | | 1013×383×300 | | | |
| Weight | Net/Gross | | kg | 10.0/12.5 | | 13.0/16.0 | | | |
| Loading quantity (within panel) | | | 20'GP | 306 | | 254 | | | |
| | | | 40'GP | 636 | | 541 | | | |
| | | | 40'HQ | 742 | | 609 | | | |

NOTES:

FREE MATCH III Multi VRF Technical Sales Guide

◆ Cozy

| Indoor Unit | | Model | | GWH(07)MA-K3DNA4E/I | GWH(09)MA-K3DNA4E/I |
|---------------------------------|--------------------|--------------|--------------|---------------------|---------------------|
| Electrical Data | | Power supply | | 220-240-50-1 | 220-240-50-1 |
| Sound Pressure Level (H/M/L) | | dB (A) | | 34/31/28 | 34/31/28 |
| Air Flow Volume(rated EXP) | | CFM | | 241 | 241 |
| Fan Motor | Drive Type | - | Direct drive | | Direct drive |
| | Power Output | W | 10 | | 10 |
| | Full Load Amp(FLA) | A | 0.144 | | 0.144 |
| Drainage Connection Size | | mm | 16 | | 16 |
| Dimension | Outline(W×D×H) | mm | 790×170×265 | | 790×170×265 |
| | Package(L×W×H) | mm | 873×251×370 | | 873×251×370 |
| Weight | Net/Gross | kg | 9.0/11.0 | | 9.0/11.0 |
| Loading quantity (within panel) | | 20'GP | 348 | | 348 |
| | | 40'GP | 732 | | 732 |
| | | 40'HQ | 852 | | 852 |

NOTES:

- a. The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

| Indoor Unit | | Model | | GWH(12)MB-K3DNA4E/I | GWH(18)MC-K3DNA4E/I |
|---------------------------------|--------------------|--------------|--------------|---------------------|---------------------|
| Electrical Data | | Power supply | | 220-240-50-1 | 220-240-50-1 |
| Sound Pressure Level (H/M/L) | | dB (A) | | 34/32/30 | 43/40/36 |
| Air Flow Volume(rated EXP) | | CFM | | 294 | 459 |
| Fan Motor | Drive Type | - | Direct drive | | Direct drive |
| | Power Output | W | 20 | | 20 |
| | Full Load Amp(FLA) | A | 0.22 | | 0.31 |
| Drainage Connection Size | | mm | 16 | | 16 |
| Dimension | Outline(W×D×H) | mm | 845×180×275 | | 940×200×298 |
| | Package(L×W×H) | mm | 918×258×370 | | 1013×288×395 |
| Weight | Net/Gross | kg | 10.0/12.5 | | 13.0/16.0 |
| Loading quantity (within panel) | | 20'GP | 336 | | 254 |
| | | 40'GP | 684 | | 541 |
| | | 40'HQ | 798 | | 609 |

NOTES:

- a. The technical parameters are changed along with the products improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

FREE MATCH III Multi VRF Technical Sales Guide

◆ Change

| Indoor Unit | | Model | | GWH(07)KF-K3DNA6E/I | GWH(09)KF-K3DNA6E/I |
|---------------------------------|--------------------|--------------|-----|---------------------|---------------------|
| Electrical Data | | Power supply | | 220-240-50-1 | 220-240-50-1 |
| Sound Pressure Level (H/M/L) | | dB (A) | | 38/30/24 | 38/30/24 |
| Air Flow Volume(rated EXP) | | CFM | | 306 | 306 |
| Fan Motor | Drive Type | | - | Direct drive | Direct drive |
| | Power Output | | W | 10 | 10 |
| | Full Load Amp(FLA) | | A | 0.16 | 0.16 |
| Drainage Connection Size | | mm | 16 | | 16 |
| Dimension | Outline(W×D×H) | | mm | 770×201×283 | 770×201×283 |
| | Package(L×W×H) | | mm | 847×264×357 | 847×264×357 |
| Weight | Net/Gross | | kg | 8.0/10.0 | 8.0/10.0 |
| Loading quantity (within panel) | | 20'GP | 342 | | 336 |
| | | 40'GP | 712 | | 696 |
| | | 40'HQ | 803 | | 783 |

NOTES:

- a. The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.



| Indoor Unit | | Model | | GWH(12)KF-K3DNA6E/I | | GWH(18)KG-K3DNA6E/I | | | |
|---------------------------------|--------------------|--------------|--------|---------------------|--|---------------------|--|--|--|
| Electrical Data | | Power supply | | V-Hz-Ph | | 220-240-50-1 | | | |
| Sound Pressure Level (H/M/L) | | | dB (A) | 39/31/25 | | 40/37/32 | | | |
| Air Flow Volume(rated EXP) | | | CFM | 329 | | 400 | | | |
| Fan Motor | Drive Type | | - | Direct drive | | Direct drive | | | |
| | Power Output | | W | 10 | | 20 | | | |
| | Full Load Amp(FLA) | | A | 0.16 | | 0.31 | | | |
| Drainage Connection Size | | | mm | 16 | | 16 | | | |
| Dimension | Outline(W×D×H) | | mm | 770×201×283 | | 865×215×305 | | | |
| | Package(L×W×H) | | mm | 847×264×357 | | 948×298×395 | | | |
| Weight | Net/Gross | | kg | 9.0/11.0 | | 12.0/15.0 | | | |
| Loading quantity (within panel) | | | 20'GP | 336 | | 264 | | | |
| | | | 40'GP | 696 | | 542 | | | |
| | | | 40'HQ | 783 | | 616 | | | |

NOTES:

FREE MATCH III Multi VRF Technical Sales Guide

◆ Duct Type

| Model | | | GFH(09)EA-K3DNA1A/I | GFH(12)EA-K3DNA1A/I | GFH(18)EA-K3DNA1A/I |
|---------------------------------|----------------------------|---------|---------------------|---------------------|---------------------|
| Electrical Data | Power supply | V-Hz-Ph | 220-240-50-1 | 220-240-50-1 | 220-240-50-1 |
| | Sound Pressure Level (H/L) | dB (A) | 37/31 | 39/32 | 41/33 |
| | Air Flow Volume(rated EXP) | CFM | 265 | 294 | 412 |
| Fan Motor | Drive Type | - | directly drive | directly drive | directly drive |
| | Power Output | W | 30 | 40 | 60 |
| | Full Load Amp(FLA) | A | 0.28 | 0.31 | 0.41 |
| Drainage Connection Size | | mm | 26 | 26 | 26 |
| Dimension | Outline(W×D×H) | mm | 700×615×200 | 700×615×200 | 900×615×200 |
| | Package(L×W×H) | mm | 893×743×305 | 893×743×305 | 1123×743×305 |
| Weight | Net/Gross | kg | 22.0/27.0 | 23.0/29.0 | 27.0/36.0 |
| Loading quantity (within panel) | | 20'GP | 108 | 108 | 90 |
| | | 40'GP | 234 | 234 | 180 |
| | | 40'HQ | 234 | 234 | 180 |

NOTES:

- a. The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

| Model | | | GFH(21)EA-K3DNA1A/I | GFH(24)EA-K3DNA1A/I |
|---------------------------------|----------------------------|---------|---------------------|---------------------|
| Electrical Data | Power supply | V-Hz-Ph | 220-240-50-1 | 220-240-50-1 |
| | Sound Pressure Level (H/L) | dB (A) | 42/34 | 42/34 |
| | Air Flow Volume(rated EXP) | CFM | 589 | 589 |
| | Drive Type | - | directly drive | directly drive |
| Fan Motor | Power Output | W | 20 | 20 |
| | Full Load Amp(FLA) | A | 0.5 | 0.5 |
| | Drainage Connection Size | mm | 26 | 26 |
| Dimension | Outline(W×D×H) | mm | 1100×615×200 | 1100×615×200 |
| | Package(L×W×H) | mm | 1323×743×305 | 1323×743×305 |
| Weight | Net/Gross | kg | 31.0/41.0 | 31.0/41.0 |
| | | 20'GP | 72 | 72 |
| Loading quantity (within panel) | | 40'GP | 162 | 162 |
| | | 40'HQ | 162 | 162 |

NOTES:

- a. The technical parameters are changed along with the products improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

FREE MATCH III Multi VRF Technical Sales Guide

◆ Cassette Type

| Model | | | GKH(12)BA-K3DNA1A/I | GKH(18)BA-K3DNA1A/I | GKH(24)BA-K3DNA1A/I | |
|---------------------------------|--------------------|---------|---------------------|---------------------|---------------------|--|
| Electrical Data | Power supply | V-Hz-Ph | 220-240-50-1 | 220-240-50-1 | 220-240-50-1 | |
| | Power input | Cooling | kW | 0.07 | 0.07 | |
| | | Heating | kW | 0.07 | 0.07 | |
| Sound Pressure Level (H/L) | | dB (A) | 37/33 | 37/33 | 39/35 | |
| Air Flow Volume(rated EXP) | | CFM | 400 | 400 | 694 | |
| Fan Motor | Drive Type | - | directly drive | directly drive | directly drive | |
| | Power Output | W | 35 | 35 | 35 | |
| | Full Load Amp(FLA) | A | 0.32 | 0.32 | 0.43 | |
| Drainage Connection Size | | mm | 31 | 31 | 31 | |
| Dimension | Outline(W×D×H) | mm | 840×840×190 | 840×840×190 | 840×840×240 | |
| | Package(L×W×H) | mm | 963×963×273 | 963×963×273 | 963×963×325 | |
| Weight | Net/Gross | kg | 25.0/33.0 | 25.0/33.0 | 28.0/35.0 | |
| Loading quantity (within panel) | | 20'GP | 48 | 48 | 40 | |
| | | 40'GP | 128 | 128 | 108 | |
| | | 40'HQ | 144 | 144 | 128 | |
| Panel | Outline(W×D×H) | mm | 950×950×60 | 950×950×60 | 950×950×60 | |
| | Package(W×D×H) | mm | 1043×1028×130 | 1043×1028×130 | 1043×1028×130 | |
| | Net/Gross Weight | kg | 6.5/10 | 6.5/10 | 6.5/10 | |

NOTES:

- a. The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

| Model | | | GKH(12)BA-K3DNA2A/I | GKH(18)BA-K3DNA2A/I | |
|---------------------------------|--------------------|------------|---------------------|---------------------|--|
| Electrical Data | Power supply | V-Hz-Ph | 220-240-50-1 | 220-240-50-1 | |
| | Power input | Cooling | kW | 0.05 | |
| | | Heating | kW | 0.05 | |
| Sound Pressure Level (H/L) | | dB (A) | 46/42 | 46/42 | |
| Air Flow Volume(rated EXP) | | CFM | 353 | 353 | |
| Fan Motor | | Drive Type | - | directly drive | |
| Fan Motor | Power Output | W | 11 | 11 | |
| | Full Load Amp(FLA) | A | 0.2 | 0.2 | |
| Drainage Connection Size | | mm | 31 | 31 | |
| Dimension | Outline(W×D×H) | mm | 570×570×230 | 570×570×230 | |
| | Package(L×W×H) | mm | 851×731×325 | 851×731×325 | |
| Weight | Net/Gross | kg | 18.0/23.0 | 18.0/23.0 | |
| Loading quantity (within panel) | | 20'GP | 102 | 102 | |
| | | 40'GP | 209 | 209 | |
| | | 40'HQ | 246 | 246 | |
| Panel | Outline(W×D×H) | mm | 650×650×50 | 650×650×50 | |
| | Package(W×D×H) | mm | 733×673×117 | 733×673×117 | |
| | Net/Gross Weight | kg | 2.5/3.5 | 2.5/3.5 | |

NOTES:

- a. The technical parameters are changed along with the products improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
 Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
 Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
 Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

FREE MATCH III Multi VRF Technical Sales Guide

◆ Floor Ceiling Type

| Model | | | GTH(09)BA-K3DNA1A/I | | GTH(12)BA-K3DNA1A/I | | |
|---------------------------------|--------------------|---------|---------------------|----------------|---------------------|----------------|--|
| Electrical Data | Power supply | | V-Hz-Ph | | 220-240-50-1 | | |
| | Power input | Cooling | kW | 0.055 | 0.055 | 0.055 | |
| | | Heating | kW | 0.055 | 0.055 | 0.055 | |
| Sound Pressure Level (H/L) | | dB (A) | 40/36 | | 40/36 | | |
| Air Flow Volume(rated EXP) | | CFM | 383 | | 383 | | |
| Fan Motor | Drive Type | | - | directly drive | | directly drive | |
| | Power Output | | W | 15 | 15 | | |
| | Full Load Amp(FLA) | | A | 0.3 | 0.3 | | |
| Drainage Connection Size | | mm | 17 | | 17 | | |
| Dimension | Outline(W×D×H) | | mm | 1220×700×225 | | 1220×700×225 | |
| | Package(L×W×H) | | mm | 1343×823×315 | | 1343×823×315 | |
| Weight | Net/Gross | | kg | 40.0/50.0 | | 40.0/50.0 | |
| Loading quantity (within panel) | | 20'GP | 66 | | 66 | | |
| | | 40'GP | 132 | | 132 | | |
| | | 40'HQ | 132 | | 132 | | |

NOTES:

- a. The technical parameters are changed along with the products improvement; please refer to the nameplate of the unit for actual data.
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.



| Model | | | GTH(18)BA-K3DNA1A/I | | GTH(24)BA-K3DNA1A/I | | | |
|---------------------------------|--------------------|---------|---------------------|----------------|---------------------|----------------|--|--|
| Electrical Data | Power supply | | V-Hz-Ph | | 220-240-50-1 | | | |
| | Power input | Cooling | kW | 0.11 | | 0.11 | | |
| | | Heating | kW | 0.11 | | 0.11 | | |
| Sound Pressure Level (H/L) | | dB (A) | 45/40 | | 48/44 | | | |
| Air Flow Volume(rated EXP) | | CFM | 559 | | 736 | | | |
| Fan Motor | Drive Type | | - | directly drive | | directly drive | | |
| | Power Output | | W | 20 | | 50 | | |
| | Full Load Amp(FLA) | | A | 0.5 | | 0.5 | | |
| Drainage Connection Size | | mm | 17 | | 17 | | | |
| Dimension | Outline(W×D×H) | | mm | 1220×700×225 | | 1220×700×225 | | |
| | Package(L×W×H) | | mm | 1343×823×315 | | 1343×823×315 | | |
| Weight | Net/Gross | | kg | 40.0/50.0 | | 45.0/54.0 | | |
| Loading quantity (within panel) | | | 20'GP | 66 | | 66 | | |
| | | | 40'GP | 132 | | 132 | | |
| | | | 40'HQ | 132 | | 132 | | |

NOTES:

FREE MATCH III Multi VRF Technical Sales Guide



8.2 Outdoor Unit

| Outdoor Unit | | Model | | GWHD(18)NK3FO | GWHD(24)NK3FO | |
|----------------------|-----------------------|--------------|---------|-----------------|-----------------|--|
| Total Capacity | Cooling | kW | 5.00 | 7.00 | | |
| | | Btu/h | 17100 | 23900 | | |
| | Heating | kW | 5.60 | 7.70 | | |
| | | Btu/h | 19100 | 26300 | | |
| EER / C.O.P | | | W/W | / | / | |
| Electrical Data | Power supply | | V-Hz-Ph | 220-240-50-1 | 220-240-50-1 | |
| | Power input | Cooling | kW | 1.55 | 2.46 | |
| | | Heating | kW | 1.55 | 2.56 | |
| Sound Pressure Level | | | dB (A) | 56 | 58 | |
| Sound Power Level | | | dB (A) | 63 | 68 | |
| Compressor | Type | | — | Inverter Rotary | Inverter Rotary | |
| | Power Input | | W | 1440 | 2550 | |
| Fan Motor | Model | | — | LW60M-ZL | LW92K-ZL | |
| | Drive Type | | — | Direct drive | Direct drive | |
| | Power Output | | PH | 60 | 90 | |
| Dimension | Outline (W×D×H) | | mm | 955×396×700 | 980×427×790 | |
| | Package (L×W×H) | | mm | 1029×458×750 | 1083×488×855 | |
| Weight | Net/Gross | | kg | 50.0/55.0 | 68.0/73.0 | |
| Loading quantity | Outdoor Unit | | 20'GP | 81 | 44 | |
| | | | 40'GP | 171 | 96 | |
| | | | 40'HQ | 171 | 144 | |
| Connection Pipe | Gas additional charge | | g/m | 15 | 15 | |
| | Outer Diameter | Liquid Pipe1 | Inch | 1/4" | 1/4" | |
| | | Gas Pipe 1 | Inch | 3/8" | 3/8" | |
| | | Liquid Pipe2 | Inch | 1/4" | 1/4" | |
| | Gas Pipe 2 | Inch | | 3/8" | 3/8" | |

NOTES:

- a. The technical parameters are changed along with the products improvement; please refer to the nameplate of the unit for actual data
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

| Outdoor Unit | | Model | | GWHD(24)NK3GO | GWHD(28)NK3FO | |
|----------------------|-----------------------|--------------|---------|-----------------|-----------------|--|
| Total Capacity | Cooling | kW | 7.10 | 8.00 | | |
| | | Btu/h | 24200 | 27300 | | |
| | Heating | kW | 8.50 | 9.30 | | |
| | | Btu/h | 29000 | 31700 | | |
| EER / C.O.P | | | W/W | / | / | |
| Electrical Data | Power supply | | V-Hz-Ph | 220-240-50-1 | 220-240-50-1 | |
| | Power input | Cooling | kW | 2.4 | 2.49 | |
| | | Heating | kW | 2.35 | 2.58 | |
| Sound Pressure Level | | | dB (A) | 58 | 58 | |
| Sound Power Level | | | dB (A) | 68 | 68 | |
| Compressor | Type | | — | Inverter Rotary | Inverter Rotary | |
| | Power Input | | W | 2550 | 2550 | |
| Fan Motor | Model | | — | LW92K-ZL | LW92K-ZL | |
| | Drive Type | | — | Direct drive | Direct drive | |
| | Power Output | | PH | 90 | 90 | |
| Dimension | Outline (W×D×H) | | mm | 980×427×790 | 980×427×790 | |
| | Package (L×W×H) | | mm | 1083×488×855 | 1083×488×855 | |
| Weight | Net/Gross | | kg | 69.0/74.0 | 69.0/74.0 | |
| Loading quantity | Outdoor Unit | | 20'GP | 44 | 44 | |
| | | | 40'GP | 96 | 96 | |
| | | | 40'HQ | 144 | 144 | |
| Connection Pipe | Gas additional charge | | g/m | 15 | 15 | |
| | Outer Diameter | Liquid Pipe1 | Inch | 1/4" | 1/4" | |
| | | Gas Pipe 1 | Inch | 3/8" | 3/8" | |
| | | Liquid Pipe2 | Inch | 1/4" | 1/4" | |
| | | Gas Pipe 2 | Inch | 3/8" | 3/8" | |
| | | Liquid Pipe3 | Inch | 1/4" | 1/4" | |
| | | Gas Pipe 3 | Inch | 3/8" | 3/8" | |
| | | Liquid Pipe4 | Inch | / | 1/4" | |
| | Gas Pipe 4 | | Inch | / | 3/8" | |

NOTES:

- The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data
- The Heating capacity of the heat pump type is the capacity of heat pump.
- Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- Rated conditions: Cooling : Indoor air temperature 27°C (80.6°F) DB/19°C (66.2°F) WB,
Outdoor air temperature 35°C (95°F) DB/24°C (75.2°F) WB.
Heating : Indoor air temperature 20°C (68°F) DB/15°C (59°F) WB,
Outdoor air temperature 7°C (44.6°F) DB/6°C (42.8°F)

FREE MATCH III Multi VRF Technical Sales Guide

| Outdoor Unit | Model | | GWHD(36)NK3BO | GWHD(42)NK3AO | |
|----------------------|-----------------------|--------------|---------------|-----------------|--|
| Total Capacity | Cooling | kW | 10.50 | 12.10 | |
| | | Btu/h | 35826 | 41285 | |
| | Heating | kW | 11.00 | 13.00 | |
| | | Btu/h | 37532 | 44400 | |
| EER / C.O.P | | W/W | 3.00/3.19 | 3.37/3.67 | |
| Electrical Data | Power supply | | V-Hz-Ph | 220-240-50-1 | |
| | Power input | Cooling | kW | 3.50 | |
| | | Heating | kW | 3.45 | |
| Sound Pressure Level | | dB (A) | 60 | 54 | |
| Sound Power Level | | dB (A) | 70 | 64 | |
| Compressor | Type | | — | Inverter Rotary | |
| | Power Input | W | 3300 | 3010 | |
| Fan Motor | Model | | — | SWZ150B | |
| | Drive Type | | — | direct drive | |
| | Power Output | | PH | 170 | |
| Dimension | Outline (W×D×H) | | mm | 1015×440×1103 | |
| | Package (L×W×H) | | mm | 1158×493×1235 | |
| Weight | Net/Gross | | kg | 94.0/104.0 | |
| Loading quantity | Outdoor Unit | | 20'GP | 22 | |
| | | | 40'GP | 48 | |
| | | | 40'HQ | 96 | |
| Connection Pipe | Gas additional charge | | g/m | 22 | |
| | Outer Diameter | Liquid Pipe1 | Inch | 1/4 | |
| | | Gas Pipe 1 | Inch | 3/8 | |
| | | Liquid Pipe2 | Inch | 1/4 | |
| | | Gas Pipe 2 | Inch | 3/8 | |
| | | Liquid Pipe3 | Inch | 1/4 | |
| | | Gas Pipe 3 | Inch | 1/2 | |
| | | Liquid Pipe4 | Inch | 3/8 | |
| | | Gas Pipe 4 | Inch | 5/8 | |
| | | Liquid Pipe5 | Inch | | |
| | | Gas Pipe 5 | Inch | 5/8 | |

NOTES:

- a. The technical parameters are changed along with the products, improvement; please refer to the nameplate of the unit for actual data
- b. The Heating capacity of the heat pump type is the capacity of heat pump.
- c. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual operation due to the environmental change.
- d. Rated conditions: Cooling : Indoor air temperature 27°C (80.6 °F) DB/19°C (66.2 °F) WB,
Outdoor air temperature 35°C (95 °F) DB/24°C (75.2 °F) WB.
Heating : Indoor air temperature 20°C (68 °F) DB/15°C (59 °F) WB,
Outdoor air temperature 7°C (44.6 °F) DB/6°C (42.8 °F) WB.

8.3 Performance Parameters

◆ GWHD(18)NK3FO

| GWHD(18)NK3FO (1 to 2) Cooling Performance Parameters | | | | | | | |
|---|-------------------|-----------|-----------|-----------|-----------|----------------------------------|-------------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7 | 7 | 2100 | - | - | - | 2100(1500~3500) | 850(500~1800) |
| 9 | 9 | 2600 | - | - | - | 2600(1500~3500) | 850(500~2000) |
| 12 | 12 | 3500 | - | - | - | 3500(2000~4400) | 1100(500~2000) |
| 7+7 | 14 | 2050 | 2050 | - | - | 4100(2050~4700) | 1150(500~2000) |
| 7+9 | 16 | 2300 | 2500 | - | - | 4800(2050~5800) | 1500(500~2550) |
| 9+9 | 18 | 2500 | 2500 | - | - | 5000(2050~6200) | 1550(500~2550) |
| 7+12 | 19 | 2000 | 3500 | - | - | 5500(2150~6300) | 1850(500~2550) |
| 9+12 | 21 | 2500 | 3500 | - | - | 5800(2150~6300) | 2000(500~2550) |

GWHD(18)NK3FO (1 to 2) Heating Performance Parameters

| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
|-----------------------|-------------------|-----------|-----------|-----------|-----------|----------------------------------|-------------------------------|
| 7 | 7 | 2600 | - | - | - | 2600(1600~4500) | 950(550~2000) |
| 9 | 9 | 2800 | - | - | - | 2800(1600~4500) | 1100(550~2000) |
| 12 | 12 | 3800 | - | - | - | 3800(1800~4800) | 1150(550~2000) |
| 7+7 | 14 | 2250 | 2250 | - | - | 4500(2500~6000) | 1180(580~2000) |
| 7+9 | 16 | 2200 | 2850 | - | - | 5050(2500~6650) | 1400(580~2500) |
| 9+9 | 18 | 2800 | 2800 | - | - | 5600(2500~6650) | 1540(580~2500) |
| 7+12 | 19 | 2250 | 3800 | - | - | 6050(2650~6750) | 1750(600~2600) |
| 9+12 | 21 | 2800 | 3800 | - | - | 6300(2650~6750) | 1850(600~2600) |

◆ GWHD(24)NK3FO

GWHD(24)NK3FO (1 to 2) Cooling Performance Parameters

| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
|-----------------------|-------------------|-----------|-----------|-----------|-----------|----------------------------------|-------------------------------|
| 7+7 | 14 | 2300 | 2300 | - | - | 4600(2000~7800) | 1150(600~4200) |
| 7+9 | 16 | 2300 | 2500 | - | - | 4800(2000~7800) | 1420(600~4200) |
| 9+9 | 18 | 2500 | 2500 | - | - | 5000(2000~7800) | 1550(600~4200) |
| 7+12 | 19 | 2200 | 3600 | - | - | 5800(2100~8000) | 1850(650~4300) |
| 9+12 | 21 | 2600 | 3600 | - | - | 6200(2100~8000) | 2000(700~4300) |
| 12+12 | 24 | 3500 | 3500 | - | - | 7000(2200~8200) | 2180(750~4300) |
| 7+18 | 25 | 2000 | 5000 | - | - | 7000(2200~8200) | 2180(800~4400) |
| 9+18 | 27 | 2300 | 4700 | - | - | 7000(2250~8200) | 2180(800~4400) |
| 12+18 | 30 | 2800 | 4200 | - | - | 7000(2300~8200) | 2180(800~4400) |

FREE MATCH III Multi VRF Technical Sales Guide

| GWHD(24)NK3FO (1 to 2) Heating Performance Parameters | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7+7 | 14 | 3000 | 3000 | - | - | 6000(3000~8000) | 1950(900~3800) |
| 7+9 | 16 | 3000 | 3200 | - | - | 6200(3000~8500) | 2000(900~3850) |
| 9+9 | 18 | 3200 | 3200 | - | - | 6400(3200~8500) | 2050(900~3950) |
| 7+12 | 19 | 3000 | 4000 | - | - | 7000(3400~9000) | 2250(900~4300) |
| 9+12 | 21 | 3200 | 4000 | - | - | 7200(3500~9300) | 2250(900~4400) |
| 12+12 | 24 | 3850 | 3850 | - | - | 7700(3500~9500) | 2260(900~4400) |
| 7+18 | 25 | 2200 | 5500 | - | - | 7700(3600~9600) | 2400(900~4400) |
| 9+18 | 27 | 2600 | 5100 | - | - | 7700(3700~9900) | 2400(900~4400) |
| 12+18 | 30 | 3200 | 4600 | - | - | 7800(3800~9900) | 2400(900~4400) |

◆ GWHD(24)NK3GO

| GWHD(24)NK3GO (2 to 3) Cooling Performance Parameters | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7+7 | 14 | 2300 | 2300 | - | - | 4600(2000~7800) | 1150(600~4200) |
| 7+9 | 16 | 2300 | 2500 | - | - | 4800(2000~7800) | 1420(600~4200) |
| 9+9 | 18 | 2500 | 2500 | - | - | 5000(2000~7800) | 1550(600~4200) |
| 7+12 | 19 | 2200 | 3600 | - | - | 5800(2100~8000) | 1850(650~4300) |
| 9+12 | 21 | 2600 | 3600 | - | - | 6200(2100~8000) | 2000(700~4300) |
| 12+12 | 24 | 3500 | 3500 | - | - | 7000(2200~8200) | 2180(750~4300) |
| 7+18 | 25 | 2000 | 5000 | - | - | 7000(2200~9000) | 2180(800~4400) |
| 9+18 | 27 | 2300 | 4700 | - | - | 7000(2250~9200) | 2180(800~4400) |
| 12+18 | 30 | 2800 | 4200 | - | - | 7000(2300~9500) | 2180(800~4400) |
| 18+18 | 36 | 3550 | 3550 | - | - | 7100(2500~9500) | 2200(650~4600) |
| 7+7+7 | 21 | 2300 | 2300 | 2300 | - | 6900(2200~9000) | 2140(550~4000) |
| 7+7+9 | 23 | 2250 | 2250 | 2500 | - | 7000(2200~9200) | 2180(550~4200) |
| 7+9+9 | 25 | 2200 | 2450 | 2450 | - | 7100(2200~9400) | 2200(550~4300) |
| 7+7+12 | 26 | 2000 | 2000 | 3100 | - | 7100(2200~9400) | 2200(550~4550) |
| 9+9+9 | 27 | 2366 | 2366 | 2366 | - | 7100(2200~9500) | 2200(650~4600) |
| 7+9+12 | 28 | 2000 | 2150 | 2950 | - | 7100(2200~9500) | 2200(650~4600) |
| 9+9+12 | 30 | 2100 | 2100 | 2900 | - | 7100(2200~9500) | 2200(650~4600) |
| 7+12+12 | 31 | 1900 | 2600 | 2600 | - | 7100(2200~9600) | 2200(650~4650) |
| 9+12+12 | 33 | 1900 | 2600 | 2600 | - | 7100(2200~9600) | 2200(650~4650) |
| 9+9+18 | 36 | 2200 | 2200 | 2700 | - | 7100(2200~9600) | 2200(650~4650) |
| 12+12+12 | 36 | 2366 | 2366 | 2366 | - | 7100(2200~9600) | 2200(650~4650) |

| GWHD(24)NK3GO (2 to 3) Heating Performance Parameters | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7+7 | 14 | 3000 | 3000 | - | - | 6000(3000~8000) | 1950(900~3800) |
| 7+9 | 16 | 3000 | 3200 | - | - | 6200(3000~8500) | 2000(900~3850) |
| 9+9 | 18 | 3200 | 3200 | - | - | 6400(3200~8500) | 2050(900~3950) |
| 7+12 | 19 | 3000 | 4000 | - | - | 7000(3400~9000) | 2250(900~4300) |
| 9+12 | 21 | 3200 | 4000 | - | - | 7200(3500~9300) | 2250(900~4400) |
| 12+12 | 24 | 3850 | 3850 | - | - | 7700(3500~9500) | 2260(900~4400) |
| 7+18 | 25 | 2200 | 5500 | - | - | 7700(3600~9600) | 2400(900~4400) |
| 9+18 | 27 | 2600 | 5100 | - | - | 7700(3700~9900) | 2400(900~4400) |
| 12+18 | 30 | 3200 | 4600 | - | - | 7800(3800~9900) | 2400(900~4400) |
| 18+18 | 36 | 3900 | 3900 | - | - | 7800(3800~9300) | 2400(900~4500) |
| 7+7+7 | 21 | 2700 | 2700 | 2700 | - | 8100(3500~9900) | 2400(850~4000) |
| 7+7+9 | 23 | 2500 | 2500 | 3100 | - | 8100(3500~9900) | 2400(850~4000) |
| 7+9+9 | 25 | 2400 | 3050 | 3050 | - | 8500(3600~9900) | 2400(850~4000) |
| 7+7+12 | 26 | 2300 | 2300 | 3900 | - | 8500(3700~9900) | 2400(850~4000) |
| 9+9+9 | 27 | 2850 | 2850 | 2850 | - | 8500(3700~9900) | 2400(850~4000) |
| 7+9+12 | 28 | 2100 | 2750 | 3650 | - | 8500(3700~9900) | 2400(850~4000) |
| 9+9+12 | 30 | 2550 | 2550 | 3400 | - | 8550(3800~9900) | 2400(850~4000) |
| 9+12+12 | 33 | 2200 | 3050 | 3050 | - | 8550(3800~9900) | 2400(850~4000) |
| 9+9+18 | 36 | 2220 | 2220 | 4100 | - | 8550(3800~9900) | 2400(850~4000) |
| 12+12+12 | 36 | 2850 | 2850 | 2850 | - | 8550(3800~9900) | 2500(850~4000) |

◆ GWHD(28)NK3FO

| GWHD(28)NK3FO (2 to 4) Cooling Performance Parameters | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7+7 | 14 | 2300 | 2300 | - | - | 4600(2000~7800) | 1150(600~4200) |
| 7+9 | 16 | 2300 | 2500 | - | - | 4800(2000~7800) | 1420(600~4200) |
| 9+9 | 18 | 2500 | 2500 | - | - | 5000(2000~7800) | 1550(600~4200) |
| 7+12 | 19 | 2200 | 3600 | - | - | 5800(2100~8000) | 1850(650~4300) |
| 9+12 | 21 | 2600 | 3600 | - | - | 6200(2100~8000) | 2000(700~4300) |
| 12+12 | 24 | 3500 | 3500 | - | - | 7000(2200~8200) | 2180(750~4300) |
| 7+18 | 25 | 2000 | 5000 | - | - | 7000(2200~9000) | 2180(800~4400) |
| 9+18 | 27 | 2300 | 4700 | - | - | 7000(2250~9200) | 2180(800~4400) |
| 12+18 | 30 | 2800 | 4200 | - | - | 7000(2300~9500) | 2180(800~4400) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | |
|-----------|----|------|------|------|------|------------------|----------------|
| 18+18 | 36 | 3550 | 3550 | - | - | 7100(2500~9500) | 2200(650~4600) |
| 7+7+7 | 21 | 2300 | 2300 | 2300 | - | 6900(2200~9000) | 2140(550~4000) |
| 7+7+9 | 23 | 2250 | 2250 | 2500 | - | 7000(2200~9200) | 2180(550~4200) |
| 7+9+9 | 25 | 2200 | 2450 | 2450 | - | 7100(2200~9400) | 2200(550~4300) |
| 7+7+12 | 26 | 2000 | 2000 | 3100 | - | 7100(2200~9400) | 2200(550~4550) |
| 9+9+9 | 27 | 2366 | 2366 | 2366 | - | 7100(2200~9500) | 2200(650~4600) |
| 7+9+12 | 28 | 2000 | 2150 | 2950 | - | 7100(2200~9500) | 2200(650~4600) |
| 9+9+12 | 30 | 2100 | 2100 | 2900 | - | 7100(2200~9500) | 2200(650~4600) |
| 7+12+12 | 31 | 1900 | 2600 | 2600 | - | 7100(2200~9600) | 2200(650~4650) |
| 9+12+12 | 33 | 1900 | 2600 | 2600 | - | 7100(2200~9600) | 2200(650~4650) |
| 9+9+18 | 36 | 2200 | 2200 | 2700 | - | 7100(2200~9600) | 2200(650~4650) |
| 12+12+12 | 36 | 2366 | 2366 | 2366 | - | 7100(2200~9600) | 2200(650~4650) |
| 7+12+18 | 37 | 2100 | 2300 | 2700 | - | 7100(2200~9600) | 2200(650~4650) |
| 9+12+18 | 39 | 2100 | 2300 | 2700 | - | 7100(2200~9600) | 2200(650~4650) |
| 12+12+18 | 42 | 2300 | 2300 | 2500 | - | 7100(2200~9600) | 2200(650~4650) |
| 7+7+7+7 | 28 | 1900 | 1900 | 1900 | 1900 | 7600(2200~9600) | 2360(650~4650) |
| 7+7+7+9 | 30 | 1950 | 1950 | 1950 | 2150 | 8000(2200~9600) | 2480(650~4650) |
| 7+7+9+9 | 32 | 1900 | 1900 | 2100 | 2100 | 8000(2200~9600) | 2480(650~4650) |
| 7+7+7+12 | 33 | 1750 | 1750 | 1750 | 2750 | 8000(2200~9600) | 2480(650~4650) |
| 7+9+9+9 | 34 | 1850 | 2050 | 2050 | 2050 | 8000(2200~9600) | 2480(650~4650) |
| 7+7+9+12 | 35 | 1700 | 1700 | 1850 | 2750 | 8000(2200~9600) | 2480(650~4650) |
| 9+9+9+9 | 36 | 2000 | 2000 | 2000 | 2000 | 8000(2200~9600) | 2480(650~4650) |
| 7+9+9+12 | 37 | 2100 | 2300 | 2300 | 2900 | 8000(2200~11000) | 2600(650~3800) |
| 7+7+12+12 | 38 | 1700 | 1700 | 2300 | 2300 | 8000(2200~9600) | 2480(650~4650) |
| 7+7+7+18 | 39 | 1700 | 1700 | 1700 | 2900 | 8000(2200~9600) | 2480(650~4650) |
| 9+9+9+12 | 39 | 1750 | 1750 | 1750 | 2750 | 8000(2200~9600) | 2480(650~4650) |
| 7+9+12+12 | 40 | 1400 | 2000 | 2300 | 2300 | 8000(2200~9600) | 2480(650~4650) |
| 7+7+9+18 | 41 | 1400 | 1400 | 2500 | 2700 | 8000(2200~9600) | 2480(650~4650) |
| 9+9+12+12 | 42 | 1500 | 1500 | 2500 | 2500 | 8000(2200~10000) | 2480(650~4500) |

GWHD(28)NK3FO (2 to 4) Heating Performance Parameters

| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
|--------------------|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| 7+7 | 14 | 3000 | 3000 | - | - | 6000(3000~8000) | 1950(900~3800) |
| 7+9 | 16 | 3000 | 3200 | - | - | 6200(3000~8500) | 2000(900~3850) |
| 9+9 | 18 | 3200 | 3200 | - | - | 6400(3200~8500) | 2050(900~3950) |
| 7+12 | 19 | 3000 | 4000 | - | - | 7000(3400~9000) | 2250(900~4300) |

| | | | | | | | |
|-----------|----|------|------|------|------|------------------|----------------|
| 9+12 | 21 | 3200 | 4000 | - | - | 7200(3500~9300) | 2250(900~4400) |
| 12+12 | 24 | 3850 | 3850 | - | - | 7700(3500~9500) | 2260(900~4400) |
| 7+18 | 25 | 2200 | 5500 | - | - | 7700(3600~9600) | 2400(900~4400) |
| 9+18 | 27 | 2600 | 5100 | - | - | 7700(3700~9900) | 2400(900~4400) |
| 12+18 | 30 | 3200 | 4600 | - | - | 7800(3800~9900) | 2400(900~4400) |
| 18+18 | 36 | 3900 | 3900 | - | - | 7800(3800~9300) | 2400(900~4500) |
| 7+7+7 | 21 | 2700 | 2700 | 2700 | - | 8100(3500~9900) | 2400(850~4000) |
| 7+7+9 | 23 | 2500 | 2500 | 3100 | - | 8100(3500~9900) | 2400(850~4000) |
| 7+9+9 | 25 | 2400 | 3050 | 3050 | - | 8500(3600~9900) | 2400(850~4000) |
| 7+7+12 | 26 | 2300 | 2300 | 3900 | - | 8500(3700~9900) | 2400(850~4000) |
| 9+9+9 | 27 | 2850 | 2850 | 2850 | - | 8500(3700~9900) | 2400(850~4000) |
| 7+9+12 | 28 | 2100 | 2750 | 3650 | - | 8500(3700~9900) | 2400(850~4000) |
| 9+9+12 | 30 | 2550 | 2550 | 3400 | - | 8550(3800~9900) | 2400(850~4000) |
| 9+12+12 | 33 | 2200 | 3050 | 3050 | - | 8550(3800~9900) | 2400(850~4000) |
| 9+9+18 | 36 | 2220 | 2220 | 4100 | - | 8550(3800~9900) | 2400(850~4000) |
| 12+12+12 | 36 | 2850 | 2850 | 2850 | - | 8550(3800~9900) | 2500(850~4000) |
| 7+7+7+7 | 28 | 2300 | 2300 | 2300 | 2300 | 9200(3900~11000) | 2550(950~4000) |
| 7+7+7+9 | 30 | 2250 | 2250 | 2250 | 2550 | 9300(3900~11000) | 2550(950~4000) |
| 7+7+9+9 | 32 | 2100 | 2100 | 2550 | 2550 | 9300(3900~11000) | 2550(950~4000) |
| 7+7+7+12 | 33 | 2100 | 2100 | 2100 | 3000 | 9300(3900~11000) | 2550(950~4000) |
| 7+9+9+9 | 34 | 2100 | 2400 | 2400 | 2400 | 9300(3900~11000) | 2550(950~4000) |
| 7+7+9+12 | 35 | 2200 | 2200 | 2200 | 2700 | 9300(3900~11000) | 2550(950~4000) |
| 9+9+9+9 | 36 | 2325 | 2325 | 2325 | 2325 | 9300(3900~11000) | 2550(980~4000) |
| 7+9+9+12 | 37 | 2100 | 2300 | 2300 | 2900 | 9600(3900~11000) | 2600(900~4000) |
| 7+7+12+12 | 38 | 2100 | 2300 | 2300 | 2900 | 9600(3900~11000) | 2600(900~4000) |
| 7+7+7+18 | 39 | 2000 | 2000 | 2000 | 3600 | 9600(3900~11000) | 2600(900~4000) |
| 9+9+9+12 | 39 | 2200 | 2200 | 2200 | 3000 | 9600(3900~11000) | 2550(980~4000) |
| 7+9+12+12 | 40 | 2000 | 2200 | 2700 | 2700 | 9600(3900~11000) | 2600(900~4000) |
| 7+7+9+18 | 41 | 2100 | 2100 | 2400 | 3000 | 9600(3900~11000) | 2600(900~4000) |
| 9+9+12+12 | 42 | 2100 | 2100 | 2700 | 2700 | 9600(3900~11000) | 2550(980~4000) |

◆ GWHD(36)NK3BO

| GWHD(36)NK3BO (2 to 4) Cooling Performance Parameters | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7+12 | 19 | 2300 | 3600 | - | - | 5800(3000~7800) | 1810(1300~4300) |
| 7+18 | 25 | 2100 | 5000 | - | - | 7100(3000~9000) | 2700(1300~4400) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | |
|---------|----|------|------|------|---|-----------------|-----------------|
| 7+21 | 28 | 2000 | 6000 | - | - | 8000(3000~9000) | 2700(1300~4400) |
| 7+24 | 31 | 1900 | 6100 | - | - | 8000(3000~9000) | 2700(1300~4600) |
| 9+9 | 18 | 2500 | 2500 | - | - | 5000(3000~7800) | 1810(1300~4300) |
| 9+12 | 21 | 2500 | 3600 | - | - | 6000(3000~8000) | 1810(1300~4300) |
| 9+18 | 27 | 2200 | 4900 | - | - | 7100(3000~9200) | 2700(1300~4400) |
| 9+21 | 30 | 2000 | 6000 | - | - | 8000(3000~9200) | 2700(1300~4400) |
| 9+24 | 33 | 2000 | 6000 | - | - | 8000(3000~9200) | 2700(1300~4600) |
| 12+12 | 24 | 3000 | 3000 | - | - | 6000(3000~9200) | 2700(1300~4300) |
| 12+18 | 30 | 3100 | 4000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 12+21 | 33 | 3000 | 5000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 12+24 | 36 | 3000 | 5000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 18+18 | 36 | 4000 | 4000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 18+21 | 39 | 3600 | 4500 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 18+24 | 42 | 3600 | 4500 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 21+21 | 42 | 4000 | 4000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 21+24 | 45 | 4000 | 4000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 24+24 | 48 | 4000 | 4000 | - | - | 8000(3000~9500) | 3030(1300~4600) |
| 7+7+7 | 21 | 2300 | 2300 | 2300 | - | 6900(3000~9000) | 2700(1500~4300) |
| 7+7+9 | 23 | 2250 | 2250 | 2500 | - | 7000(3000~9000) | 2700(1500~4300) |
| 7+7+12 | 26 | 2000 | 2000 | 3100 | - | 7100(3000~9000) | 2700(1500~4400) |
| 7+7+18 | 32 | 2100 | 2100 | 4500 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+7+21 | 35 | 1950 | 1950 | 4800 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+7+24 | 38 | 1850 | 1850 | 5000 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+9+9 | 25 | 2200 | 2450 | 2450 | - | 7100(3000~9000) | 2700(1500~4400) |
| 7+9+12 | 28 | 2000 | 2100 | 3000 | - | 7100(3000~9000) | 2700(1500~4400) |
| 7+9+18 | 34 | 2000 | 2200 | 4500 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+9+21 | 37 | 1900 | 2000 | 4800 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+9+24 | 40 | 1900 | 2000 | 5000 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+12+12 | 31 | 2100 | 3300 | 3300 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+12+18 | 37 | 1700 | 3000 | 4000 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+12+21 | 40 | 1500 | 2400 | 4800 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+12+24 | 43 | 1500 | 2400 | 4800 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+18+18 | 43 | 1700 | 3600 | 3600 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+18+21 | 46 | 1500 | 2700 | 4500 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+18+24 | 49 | 1500 | 2700 | 4500 | - | 8700(3000~9600) | 3030(1500~4600) |



| | | | | | | | |
|-----------|----|------|------|------|------|------------------|-----------------|
| 7+21+21 | 49 | 1450 | 3625 | 3625 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+9+9 | 27 | 2400 | 2400 | 2400 | - | 7200(3000~9000) | 2700(1500~4400) |
| 9+9+12 | 30 | 2050 | 2150 | 3000 | - | 7200(3000~9000) | 2700(1500~4400) |
| 9+9+18 | 36 | 2100 | 2100 | 4500 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+9+21 | 39 | 1850 | 1850 | 5000 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+9+24 | 42 | 1850 | 1850 | 5000 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+12+12 | 33 | 2200 | 3250 | 3250 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+12+18 | 39 | 1800 | 2950 | 3950 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+12+21 | 42 | 1600 | 2350 | 4750 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+12+24 | 45 | 1600 | 2350 | 4750 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+18+18 | 45 | 1750 | 3450 | 3450 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+18+21 | 48 | 1600 | 2650 | 4450 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+18+24 | 51 | 1600 | 2650 | 4450 | - | 8700(3000~9600) | 3030(1500~4600) |
| 9+21+21 | 51 | 1500 | 3600 | 3600 | - | 8700(3000~9600) | 3030(1500~4600) |
| 12+12+12 | 36 | 2900 | 2900 | 2900 | - | 8700(3000~9600) | 3030(1500~4600) |
| 12+12+18 | 42 | 2500 | 2500 | 3700 | - | 8700(3000~9600) | 3030(1500~4600) |
| 12+12+21 | 45 | 2200 | 2200 | 4300 | - | 8700(3000~9600) | 3030(1500~4600) |
| 12+12+24 | 48 | 2200 | 2200 | 4300 | - | 8700(3000~9600) | 3030(1500~4600) |
| 12+18+18 | 48 | 2700 | 3600 | 3600 | - | 8700(3000~9600) | 3030(1500~4600) |
| 12+18+21 | 51 | 1600 | 3100 | 4000 | - | 8700(3000~9600) | 3030(1500~4600) |
| 18+18+18 | 54 | 2900 | 2900 | 2900 | - | 8700(3000~9600) | 3030(1500~4600) |
| 7+7+7+7 | 28 | 2150 | 2150 | 2150 | 2150 | 8600(3000~9600) | 2700(1500~4400) |
| 7+7+7+9 | 30 | 2100 | 2100 | 2100 | 2300 | 8600(3000~9600) | 2700(1500~4400) |
| 7+7+7+12 | 33 | 2250 | 2250 | 2250 | 3050 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+7+18 | 39 | 1850 | 1850 | 1850 | 4250 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+7+21 | 42 | 1600 | 1600 | 1600 | 5000 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+7+24 | 45 | 1550 | 1550 | 1550 | 5150 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+9+9 | 32 | 2000 | 2000 | 2300 | 2300 | 8600(3000~9600) | 2700(1500~4600) |
| 7+7+9+12 | 35 | 2100 | 2100 | 2250 | 3250 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+9+18 | 41 | 1800 | 1800 | 2200 | 4000 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+9+21 | 44 | 1700 | 1700 | 2000 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+9+24 | 47 | 1700 | 1700 | 2000 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+12+12 | 38 | 2000 | 2000 | 2900 | 2900 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+12+18 | 44 | 1700 | 1700 | 2400 | 4000 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+12+21 | 47 | 1600 | 1600 | 2200 | 4400 | 9800(3000~10000) | 3030(1500~4600) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | |
|-------------|----|------|------|------|------|------------------|-----------------|
| 7+7+12+24 | 50 | 1600 | 1600 | 2200 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 7+7+18+18 | 50 | 1600 | 1600 | 3600 | 3600 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+9+9 | 34 | 2300 | 2500 | 2500 | 2500 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+9+12 | 37 | 2100 | 2250 | 2250 | 3200 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+9+18 | 43 | 1900 | 2050 | 2050 | 3600 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+9+21 | 46 | 1600 | 2000 | 2000 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+9+24 | 49 | 1600 | 2000 | 2000 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+12+12 | 40 | 1800 | 1900 | 2900 | 2900 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+12+18 | 46 | 1800 | 1900 | 2600 | 3600 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+12+21 | 49 | 1550 | 1650 | 2700 | 3900 | 9800(3000~10000) | 3030(1500~4600) |
| 7+9+18+18 | 52 | 1550 | 1650 | 3300 | 3300 | 9800(3000~10000) | 3030(1500~4600) |
| 7+12+12+12 | 43 | 1850 | 2650 | 2650 | 2650 | 9800(3000~10000) | 3030(1500~4600) |
| 7+12+12+18 | 46 | 1500 | 2300 | 2300 | 3700 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+9+9 | 36 | 2450 | 2450 | 2450 | 2450 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+9+12 | 39 | 2200 | 2200 | 2200 | 3200 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+9+18 | 45 | 2000 | 2000 | 2000 | 3600 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+9+21 | 48 | 1800 | 1800 | 1800 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+9+24 | 51 | 1800 | 1800 | 1800 | 4400 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+12+12 | 42 | 2000 | 2000 | 2900 | 2900 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+12+18 | 48 | 1850 | 1850 | 2600 | 3600 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+12+21 | 51 | 1600 | 1600 | 2700 | 3900 | 9800(3000~10000) | 3030(1500~4600) |
| 9+9+18+18 | 54 | 1600 | 1600 | 3300 | 3300 | 9800(3000~10000) | 3030(1500~4600) |
| 9+12+12+12 | 45 | 2300 | 2500 | 2500 | 2500 | 9800(3000~10000) | 3030(1500~4600) |
| 9+12+12+18 | 51 | 1800 | 2200 | 2200 | 3600 | 9800(3000~10000) | 3030(1500~4600) |
| 12+12+12+12 | 48 | 2450 | 2450 | 2450 | 2450 | 9800(3000~10000) | 3030(1500~4600) |

GWHD(36)NK3BO (2 to 4) Heating Performance Parameters

| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
|--------------------|----------------|--------|--------|--------|--------|-------------------------------|----------------------------|
| 7+12 | 19 | 2990 | 4680 | - | - | 7540(4500~9000) | 1798(1300~3870) |
| 7+18 | 25 | 2730 | 6500 | - | - | 9230(4500~9600) | 2682(1300~3960) |
| 7+21 | 28 | 2400 | 7200 | - | - | 9600(4500~9900) | 2682(1300~3960) |
| 7+24 | 31 | 2280 | 7320 | - | - | 9600(4500~9900) | 2682(1300~4140) |
| 9+9 | 18 | 3250 | 3250 | - | - | 6500(4500~8500) | 1798(1300~3870) |
| 9+12 | 21 | 3250 | 4680 | - | - | 7800(4500~9600) | 2100(1300~3870) |
| 9+18 | 27 | 2860 | 6370 | - | - | 9230(4500~9900) | 2682(1300~3960) |
| 9+21 | 30 | 2400 | 7200 | - | - | 9600(4500~9900) | 2682(1300~3960) |

| | | | | | | | |
|---------|----|------|------|------|---|-------------------|-----------------|
| 9+24 | 33 | 2400 | 7200 | - | - | 9600(4500~9900) | 2682(1300~4140) |
| 12+12 | 24 | 3900 | 3900 | - | - | 7800(4500~9900) | 2682(1300~3870) |
| 12+18 | 30 | 3720 | 4800 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 12+21 | 33 | 3600 | 6000 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 12+24 | 36 | 3600 | 6000 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 18+18 | 36 | 4800 | 4800 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 18+21 | 39 | 4320 | 5400 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 18+24 | 42 | 4320 | 5400 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 21+21 | 42 | 4800 | 4800 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 21+24 | 45 | 4800 | 4800 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 24+24 | 48 | 4800 | 4800 | - | - | 9600(4500~9900) | 3010(1300~4140) |
| 7+7+7 | 21 | 2530 | 2530 | 2530 | - | 7590(4500~9900) | 2682(1500~3870) |
| 7+7+9 | 23 | 2475 | 2475 | 2750 | - | 7700(4500~9900) | 2682(1500~3870) |
| 7+7+12 | 26 | 2200 | 2200 | 3410 | - | 7810(4500~9900) | 2682(1500~3960) |
| 7+7+18 | 32 | 2520 | 2520 | 5400 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+7+21 | 35 | 2340 | 2340 | 5760 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+7+24 | 38 | 2220 | 2220 | 6000 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+9+9 | 25 | 2420 | 2695 | 2695 | - | 7810(4500~9900) | 2682(1500~3960) |
| 7+9+12 | 28 | 2200 | 2310 | 3300 | - | 7810(4500~9900) | 2682(1500~3960) |
| 7+9+18 | 34 | 2400 | 2640 | 5400 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+9+21 | 37 | 2280 | 2400 | 5760 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+9+24 | 40 | 2280 | 2400 | 6000 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+12+12 | 31 | 2520 | 3960 | 3960 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+12+18 | 37 | 2040 | 3600 | 4800 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+12+21 | 40 | 1800 | 2880 | 5760 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+12+24 | 43 | 1800 | 2880 | 5760 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+18+18 | 43 | 2040 | 4320 | 4320 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+18+21 | 46 | 1800 | 3240 | 5400 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+18+24 | 49 | 1800 | 3240 | 5400 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+21+21 | 49 | 1740 | 4350 | 4350 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+9+9 | 27 | 2640 | 2640 | 2640 | - | 7920(4500~9900) | 2682(1500~3960) |
| 9+9+12 | 30 | 2255 | 2365 | 3300 | - | 7920(4500~9900) | 2682(1500~3960) |
| 9+9+18 | 36 | 2520 | 2520 | 5400 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+9+21 | 39 | 2220 | 2220 | 6000 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+9+24 | 42 | 2220 | 2220 | 6000 | - | 10440(4500~11000) | 3010(1500~4140) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | |
|-----------|----|------|------|------|------|-------------------|-----------------|
| 9+12+12 | 33 | 2640 | 3900 | 3900 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+12+18 | 39 | 2160 | 3540 | 4740 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+12+21 | 42 | 1920 | 2820 | 5700 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+12+24 | 45 | 1920 | 2820 | 5700 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+18+18 | 45 | 2100 | 4140 | 4140 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+18+21 | 48 | 1920 | 3180 | 5340 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+18+24 | 51 | 1920 | 3180 | 5340 | - | 10440(4500~11000) | 3010(1500~4140) |
| 9+21+21 | 51 | 1800 | 4320 | 4320 | - | 10440(4500~11000) | 3010(1500~4140) |
| 12+12+12 | 36 | 3480 | 3480 | 3480 | - | 10440(4500~11000) | 3010(1500~4140) |
| 12+12+18 | 42 | 3000 | 3000 | 4440 | - | 10440(4500~11000) | 3010(1500~4140) |
| 12+12+21 | 45 | 2640 | 2640 | 5160 | - | 10440(4500~11000) | 3010(1500~4140) |
| 12+12+24 | 48 | 2640 | 2640 | 5160 | - | 10440(4500~11000) | 3010(1500~4140) |
| 12+18+18 | 48 | 3240 | 4320 | 4320 | - | 10440(4500~11000) | 3010(1500~4140) |
| 12+18+21 | 51 | 1920 | 3720 | 4800 | - | 10440(4500~11000) | 3010(1500~4140) |
| 18+18+18 | 54 | 3480 | 3480 | 3480 | - | 10440(4500~11000) | 3010(1500~4140) |
| 7+7+7+7 | 28 | 2365 | 2365 | 2365 | 2365 | 9460(4500~11000) | 2682(1500~3960) |
| 7+7+7+9 | 30 | 2310 | 2310 | 2310 | 2530 | 9460(4500~11000) | 2682(1500~3960) |
| 7+7+7+12 | 33 | 2700 | 2700 | 2700 | 3660 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+7+18 | 39 | 2220 | 2220 | 2220 | 5100 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+7+21 | 42 | 1920 | 1920 | 1920 | 6000 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+7+24 | 45 | 1860 | 1860 | 1860 | 6180 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+9+9 | 32 | 2200 | 2200 | 2530 | 2530 | 9460(4500~11000) | 2682(1500~4140) |
| 7+7+9+12 | 35 | 2520 | 2520 | 2700 | 3900 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+9+18 | 41 | 2160 | 2160 | 2640 | 4800 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+9+21 | 44 | 2040 | 2040 | 2400 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+9+24 | 47 | 2040 | 2040 | 2400 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+12+12 | 38 | 2400 | 2400 | 3480 | 3480 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+12+18 | 44 | 2040 | 2040 | 2880 | 4800 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+12+21 | 47 | 1920 | 1920 | 2640 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+12+24 | 50 | 1920 | 1920 | 2640 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 7+7+18+18 | 50 | 1920 | 1920 | 4320 | 4320 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+9+9 | 34 | 2760 | 3000 | 3000 | 3000 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+9+12 | 37 | 2520 | 2700 | 2700 | 3840 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+9+18 | 43 | 2280 | 2460 | 2460 | 4320 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+9+21 | 46 | 1920 | 2400 | 2400 | 5280 | 11760(4500~12000) | 3010(1500~4140) |



| | | | | | | | |
|-------------|----|------|------|------|------|-------------------|-----------------|
| 7+9+9+24 | 49 | 1920 | 2400 | 2400 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+12+12 | 40 | 2160 | 2280 | 3480 | 3480 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+12+18 | 46 | 2160 | 2280 | 3120 | 4320 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+12+21 | 49 | 1860 | 1980 | 3240 | 4680 | 11760(4500~12000) | 3010(1500~4140) |
| 7+9+18+18 | 52 | 1860 | 1980 | 3960 | 3960 | 11760(4500~12000) | 3010(1500~4140) |
| 7+12+12+12 | 43 | 2220 | 3180 | 3180 | 3180 | 11760(4500~12000) | 3010(1500~4140) |
| 7+12+12+18 | 46 | 1800 | 2760 | 2760 | 4440 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+9+9 | 36 | 2940 | 2940 | 2940 | 2940 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+9+12 | 39 | 2640 | 2640 | 2640 | 3840 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+9+18 | 45 | 2400 | 2400 | 2400 | 4320 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+9+21 | 48 | 2160 | 2160 | 2160 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+9+24 | 51 | 2160 | 2160 | 2160 | 5280 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+12+12 | 42 | 2400 | 2400 | 3480 | 3480 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+12+18 | 48 | 2220 | 2220 | 3120 | 4320 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+12+21 | 51 | 1920 | 1920 | 3240 | 4680 | 11760(4500~12000) | 3010(1500~4140) |
| 9+9+18+18 | 54 | 1920 | 1920 | 3960 | 3960 | 11760(4500~12000) | 3010(1500~4140) |
| 9+12+12+12 | 45 | 2760 | 3000 | 3000 | 3000 | 11760(4500~12000) | 3010(1500~4140) |
| 9+12+12+18 | 51 | 2160 | 2640 | 2640 | 4320 | 11760(4500~12000) | 3010(1500~4140) |
| 12+12+12+12 | 48 | 2940 | 2940 | 2940 | 2940 | 11760(4500~12000) | 3010(1500~4140) |

◆ **GWHD(42)NK3AO**

| GWHD(42)NK3AO (2 to 5) Cooling Performance Parameters | | | | | | | | | | |
|---|-------------------|-----------|-----------|-----------|-----------|-----------|--------------------|---------------------------|-----------------|------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Room E | Capacity Rating | Capacity (Min. ~ Max.) | Power Rating | Power (Min. ~ Max.) |
| 7+18 | 25 | 2100 | 5000 | - | - | - | 7100(3500~9000) | 2198(1800~4900) | | |
| 7+21 | 28 | 2000 | 6000 | - | - | - | 8000(3500~9000) | 2450(1800~4900) | | |
| 7+24 | 31 | 1900 | 6100 | - | - | - | 8000(3500~9000) | 2450(1800~4900) | | |
| 9+12 | 21 | 2500 | 3500 | - | - | - | 6000(3500~9000) | 1858(1300~4700) | | |
| 9+18 | 27 | 2200 | 4900 | - | - | - | 7100(3500~9000) | 2150(1800~4900) | | |
| 9+21 | 30 | 2000 | 6000 | - | - | - | 8000(3500~9000) | 2450(1800~4900) | | |
| 9+24 | 33 | 2000 | 6000 | - | - | - | 8000(3500~9000) | 2450(1800~4900) | | |
| 12+12 | 24 | 3000 | 3000 | - | - | - | 6000(3500~8000) | 1858(1300~4900) | | |
| 12+18 | 30 | 3100 | 4900 | - | - | - | 8000(3500~9000) | 2450(1800~4900) | | |
| 12+21 | 33 | 3500 | 6000 | - | - | - | 9500(3500~11000) | 2940(2000~4900) | | |
| 12+24 | 36 | 3000 | 6500 | - | - | - | 9500(3500~11000) | 2940(2000~4900) | | |
| 18+18 | 36 | 4750 | 4750 | - | - | - | 9500(3500~11000) | 2940(2000~4900) | | |
| 18+21 | 39 | 4300 | 5200 | - | - | - | 9500(3500~11000) | 2940(2000~4900) | | |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | | |
|---------|----|------|------|------|---|---|-------------------|-----------------|
| 18+24 | 42 | 4100 | 5500 | - | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 21+21 | 42 | 4750 | 4750 | - | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 21+24 | 45 | 4700 | 4800 | - | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 24+24 | 48 | 4750 | 4750 | - | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+7+7 | 21 | 2300 | 2300 | 2300 | - | - | 6900(3500~9000) | 2130(1800~4900) |
| 7+7+9 | 23 | 2250 | 2250 | 2500 | - | - | 7000(3500~9000) | 2130(1800~4900) |
| 7+7+12 | 26 | 2000 | 2000 | 3100 | - | - | 7100(3500~9000) | 2150(1800~4900) |
| 7+7+18 | 32 | 2100 | 2100 | 4500 | - | - | 8700(3500~9600) | 2650(1800~4900) |
| 7+7+21 | 35 | 2000 | 2000 | 5500 | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+7+24 | 38 | 1850 | 1850 | 5800 | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+9+9 | 25 | 2200 | 2450 | 2450 | - | - | 7100(3500~9000) | 2150(1800~4900) |
| 7+9+12 | 28 | 2000 | 2100 | 3000 | - | - | 7100(3500~9000) | 2150(1800~4900) |
| 7+9+18 | 34 | 2250 | 2400 | 4850 | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+9+21 | 37 | 2100 | 2200 | 5200 | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+9+24 | 40 | 2050 | 2150 | 5300 | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+12+12 | 31 | 2100 | 3300 | 3300 | - | - | 8700(3500~9600) | 2650(2000~4900) |
| 7+12+18 | 37 | 2200 | 3100 | 5100 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+12+21 | 40 | 2100 | 3000 | 5300 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+12+24 | 43 | 2050 | 2950 | 5400 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+18+18 | 43 | 1900 | 4250 | 4250 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+18+21 | 46 | 1900 | 4200 | 5500 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+18+24 | 49 | 1900 | 4100 | 5600 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+21+21 | 49 | 1800 | 4900 | 4900 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+21+24 | 52 | 1700 | 4900 | 5000 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+24+24 | 55 | 1600 | 5000 | 5000 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9 | 27 | 2400 | 2400 | 2400 | - | - | 7200(3500~9000) | 2150(1800~4900) |
| 9+9+12 | 30 | 2050 | 2150 | 3000 | - | - | 7200(3500~9000) | 2150(1800~4900) |
| 9+9+18 | 36 | 2350 | 2350 | 4800 | - | - | 9500(3500~11000) | 2940(2000~4900) |
| 9+9+21 | 39 | 2450 | 2450 | 5500 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+9+24 | 42 | 2400 | 2400 | 5600 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+12+12 | 33 | 2500 | 3100 | 3100 | - | - | 8700(3500~9600) | 2650(1800~4900) |
| 9+12+18 | 39 | 2500 | 3200 | 4700 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+12+21 | 42 | 2300 | 2800 | 5300 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+12+24 | 45 | 2300 | 2800 | 6500 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+18+18 | 45 | 2100 | 4400 | 4400 | - | - | 11600(3500~13600) | 3590(2000~4900) |



| | | | | | | | | |
|-----------|----|------|------|------|------|---|-------------------|-----------------|
| 9+18+21 | 48 | 2000 | 4100 | 5500 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+18+24 | 51 | 2000 | 4000 | 5600 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+21+21 | 51 | 1800 | 4900 | 4900 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+21+24 | 54 | 1750 | 4900 | 4950 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+24+24 | 57 | 1700 | 4950 | 4950 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+12 | 36 | 3450 | 3450 | 3500 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 12+12+18 | 42 | 3200 | 3200 | 4000 | - | - | 10400(3500~12200) | 3200(2000~4900) |
| 12+12+21 | 45 | 3000 | 3000 | 5600 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+24 | 48 | 2950 | 2950 | 5700 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+18+18 | 48 | 2800 | 4400 | 4400 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+18+21 | 51 | 2700 | 4200 | 4700 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+18+24 | 54 | 2650 | 4150 | 4800 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+21+21 | 54 | 2600 | 4500 | 4500 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+21+24 | 57 | 2550 | 4450 | 4600 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+24+24 | 60 | 2500 | 4550 | 4550 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 18+18+18 | 54 | 3850 | 3850 | 3900 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 18+18+21 | 57 | 3650 | 3650 | 4300 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 18+18+24 | 60 | 3600 | 3600 | 4400 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 18+21+21 | 60 | 3600 | 4000 | 4000 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 21+21+21 | 63 | 3850 | 3850 | 3900 | - | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+7 | 28 | 2150 | 2150 | 2150 | 2150 | - | 8600(3500~9600) | 2650(1800~4900) |
| 7+7+7+9 | 30 | 2100 | 2100 | 2100 | 2300 | - | 8600(3500~9600) | 2650(1800~4900) |
| 7+7+7+12 | 33 | 2100 | 2100 | 2100 | 3200 | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+7+7+18 | 39 | 2000 | 2000 | 2000 | 4400 | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+7+21 | 42 | 1800 | 1800 | 1800 | 5000 | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+7+24 | 45 | 2000 | 2000 | 2000 | 5600 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+9 | 32 | 2000 | 2000 | 2300 | 2300 | - | 8600(3500~9600) | 2650(2000~4900) |
| 7+7+9+12 | 35 | 2000 | 2000 | 2300 | 3200 | - | 9500(3500~11000) | 2650(2000~4900) |
| 7+7+9+18 | 41 | 1900 | 1900 | 2300 | 4300 | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+9+21 | 44 | 1950 | 1950 | 2200 | 5500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+24 | 47 | 1900 | 1900 | 2200 | 5600 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+12 | 38 | 2000 | 2000 | 3200 | 3200 | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+12+18 | 44 | 2000 | 2000 | 3100 | 4500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+21 | 47 | 1800 | 1800 | 2900 | 5100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+24 | 50 | 1800 | 1800 | 2800 | 5200 | - | 11600(3500~13600) | 3590(2000~4900) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | | |
|------------|----|------|------|------|------|---|-------------------|-----------------|
| 7+7+18+18 | 50 | 1900 | 1900 | 3900 | 3900 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+18+21 | 43 | 1800 | 1800 | 3500 | 4500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+18+24 | 46 | 1750 | 1750 | 3100 | 5000 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+21+21 | 56 | 1600 | 1600 | 4200 | 4200 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+21+24 | 59 | 1550 | 1550 | 4250 | 4250 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+9 | 34 | 2300 | 2400 | 2400 | 2400 | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+9+9+12 | 37 | 2000 | 2200 | 2200 | 3100 | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+9+9+18 | 43 | 2200 | 2300 | 2300 | 4800 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+21 | 46 | 1900 | 2100 | 2100 | 5500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+24 | 49 | 1800 | 2100 | 2100 | 5600 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+12+12 | 40 | 2000 | 2200 | 2200 | 3100 | - | 9500(3500~11000) | 2940(2000~4900) |
| 7+9+12+18 | 46 | 1900 | 2100 | 3100 | 4500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+12+21 | 49 | 1750 | 1850 | 2900 | 5100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+12+24 | 52 | 1800 | 1850 | 2800 | 5150 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+18+18 | 52 | 1850 | 1950 | 3900 | 3900 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+18+21 | 55 | 1850 | 1900 | 3450 | 4400 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+18+24 | 58 | 1750 | 1800 | 3050 | 5000 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+21+21 | 58 | 1600 | 1800 | 4100 | 4100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+21+24 | 61 | 1550 | 1650 | 4200 | 4200 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+12+12 | 43 | 2000 | 2000 | 3200 | 3200 | - | 10400(3500~12200) | 3200(2000~4900) |
| 7+12+12+18 | 46 | 1900 | 2600 | 2600 | 4500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+12+21 | 52 | 1700 | 2400 | 2400 | 5100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+12+24 | 55 | 1800 | 2325 | 2325 | 5150 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+18+18 | 55 | 1800 | 2400 | 3700 | 3700 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+18+21 | 58 | 1850 | 2000 | 3450 | 4300 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+18+24 | 61 | 1750 | 2000 | 3050 | 4800 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+21+21 | 61 | 1600 | 2000 | 4000 | 4000 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+18+18+18 | 61 | 1700 | 3300 | 3300 | 3300 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+9 | 36 | 2600 | 2600 | 2600 | 2600 | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+9+9+12 | 39 | 2400 | 2400 | 2400 | 3200 | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+9+9+18 | 45 | 2300 | 2300 | 2300 | 4700 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+21 | 48 | 2050 | 2050 | 2050 | 5450 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+24 | 51 | 2000 | 2000 | 2000 | 5600 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+12+12 | 42 | 2100 | 2100 | 3100 | 3100 | - | 10400(3500~12200) | 3200(2000~4900) |
| 9+9+12+18 | 48 | 2000 | 2000 | 3100 | 4500 | - | 11600(3500~13600) | 3590(2000~4900) |



| | | | | | | | | |
|-------------|----|------|------|------|------|------|-------------------|-----------------|
| 9+9+12+21 | 51 | 1800 | 1800 | 2900 | 5100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+12+24 | 54 | 1850 | 1850 | 2800 | 5150 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+18+18 | 54 | 1900 | 1900 | 3900 | 3900 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+18+21 | 57 | 1900 | 1900 | 3450 | 4350 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+18+24 | 60 | 1800 | 1800 | 3050 | 4950 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+21+21 | 60 | 1700 | 1700 | 4100 | 4100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+12+12 | 45 | 2300 | 3100 | 3100 | 3100 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+12+18 | 51 | 2100 | 2550 | 2550 | 4400 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+12+21 | 54 | 1900 | 2350 | 2350 | 5000 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+12+24 | 57 | 1900 | 2325 | 2325 | 5050 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+18+18 | 57 | 1900 | 2400 | 3650 | 3650 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+18+21 | 58 | 1900 | 2000 | 3450 | 4250 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+21+21 | 62 | 1800 | 2000 | 3900 | 3900 | - | 11600(3500~13600) | 3590(2000~4900) |
| 9+18+18+18 | 63 | 1700 | 3300 | 3300 | 3300 | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+12+12 | 48 | 2900 | 2900 | 2900 | 2900 | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+12+18 | 54 | 2450 | 2450 | 2450 | 4250 | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+12+21 | 57 | 2200 | 2200 | 2200 | 5000 | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+12+24 | 60 | 2200 | 2200 | 2200 | 5000 | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+18+18 | 60 | 2300 | 2300 | 3500 | 3500 | - | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+18+21 | 63 | 2000 | 2000 | 3400 | 4200 | - | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+7+7 | 35 | 2080 | 2080 | 2080 | 2080 | 2080 | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+7+7+9 | 37 | 2050 | 2050 | 2050 | 2050 | 2200 | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+7+7+12 | 40 | 1950 | 1950 | 1950 | 1950 | 2600 | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+7+7+18 | 46 | 1950 | 1950 | 1950 | 1950 | 3800 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+7+21 | 49 | 1850 | 1850 | 1850 | 1850 | 4200 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+7+24 | 52 | 1850 | 1850 | 1850 | 1850 | 4200 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+9+9 | 39 | 2000 | 2000 | 2000 | 2200 | 2200 | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+7+9+12 | 42 | 2100 | 2100 | 2100 | 2300 | 3000 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+9+18 | 48 | 1950 | 1950 | 1950 | 2050 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+9+21 | 51 | 1850 | 1850 | 1850 | 1950 | 4100 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+9+24 | 54 | 1850 | 1850 | 1850 | 1950 | 4100 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+12+12 | 45 | 2000 | 2000 | 2000 | 2800 | 2800 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+12+18 | 51 | 1850 | 1850 | 1850 | 2500 | 3550 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+12+21 | 54 | 1800 | 1800 | 1800 | 2400 | 3800 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+12+24 | 57 | 1800 | 1800 | 1800 | 2400 | 3800 | 11600(3500~13600) | 3590(2000~4900) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | | |
|---------------|----|------|------|------|------|------|-------------------|-----------------|
| 7+7+7+18+18 | 57 | 1800 | 1800 | 1800 | 3100 | 3100 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+7+18+21 | 60 | 1700 | 1700 | 1700 | 2800 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+9+9 | 41 | 1900 | 1900 | 2200 | 2200 | 2200 | 10400(3500~12200) | 3200(2000~4900) |
| 7+7+9+9+12 | 44 | 2100 | 2100 | 2200 | 2200 | 3000 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+9+18 | 50 | 1950 | 1950 | 2000 | 2000 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+9+21 | 53 | 1850 | 1850 | 1900 | 1900 | 4100 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+9+24 | 56 | 1850 | 1850 | 1900 | 1900 | 4100 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+12+12 | 47 | 2000 | 2000 | 2100 | 2750 | 2750 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+12+18 | 53 | 1850 | 1850 | 1900 | 2500 | 3500 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+12+21 | 56 | 1800 | 1800 | 1900 | 2350 | 3750 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+12+24 | 59 | 1800 | 1800 | 1900 | 2350 | 3750 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+18+18 | 49 | 1800 | 1800 | 1900 | 3050 | 3050 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+9+18+21 | 52 | 1700 | 1700 | 1800 | 2750 | 3650 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+12+12 | 50 | 1900 | 1900 | 2600 | 2600 | 2600 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+12+18 | 56 | 1700 | 1700 | 2400 | 2400 | 3400 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+12+21 | 59 | 1700 | 1700 | 2200 | 2200 | 3800 | 11600(3500~13600) | 3590(2000~4900) |
| 7+7+12+18+18 | 62 | 1800 | 1800 | 2200 | 2900 | 2900 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+9+9 | 43 | 2200 | 2350 | 2350 | 2350 | 2350 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+9+12 | 46 | 2050 | 2200 | 2200 | 2200 | 2950 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+9+18 | 52 | 1900 | 2000 | 2000 | 2000 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+9+21 | 55 | 1850 | 1900 | 1900 | 1900 | 4050 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+9+24 | 58 | 1850 | 1900 | 1900 | 1900 | 4050 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+12+12 | 49 | 2000 | 2100 | 2100 | 2700 | 2700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+12+18 | 55 | 1850 | 1900 | 1900 | 2450 | 3500 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+12+21 | 58 | 1800 | 1900 | 1900 | 2300 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+12+24 | 61 | 1800 | 1900 | 1900 | 2300 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+9+18+18 | 61 | 1800 | 1900 | 1900 | 3000 | 3000 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+12+12+12 | 42 | 1850 | 1950 | 2600 | 2600 | 2600 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+12+12+18 | 48 | 1700 | 1800 | 2350 | 2350 | 3400 | 11600(3500~13600) | 3590(2000~4900) |
| 7+9+12+12+21 | 51 | 1700 | 1800 | 2200 | 2200 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+12+12+12 | 55 | 1800 | 2450 | 2450 | 2450 | 2450 | 11600(3500~13600) | 3590(2000~4900) |
| 7+12+12+12+18 | 61 | 1650 | 2250 | 2250 | 2250 | 3200 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+9+9 | 45 | 2320 | 2320 | 2320 | 2320 | 2320 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+9+12 | 48 | 2175 | 2175 | 2175 | 2175 | 2900 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+9+18 | 54 | 2000 | 2000 | 2000 | 2000 | 3600 | 11600(3500~13600) | 3590(2000~4900) |



| | | | | | | | | |
|----------------|----|------|------|------|------|------|-------------------|-----------------|
| 9+9+9+9+21 | 57 | 1900 | 1900 | 1900 | 1900 | 4000 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+9+24 | 60 | 1900 | 1900 | 1900 | 1900 | 4000 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+12+12 | 51 | 2100 | 2100 | 2100 | 2650 | 2650 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+12+18 | 57 | 1900 | 1900 | 1900 | 2425 | 3475 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+12+21 | 60 | 1900 | 1900 | 1900 | 2250 | 3650 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+9+18+18 | 63 | 1900 | 1900 | 1900 | 2950 | 2950 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+12+12+12 | 54 | 1900 | 1900 | 2600 | 2600 | 2600 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+12+12+18 | 60 | 1750 | 1750 | 2350 | 2350 | 3400 | 11600(3500~13600) | 3590(2000~4900) |
| 9+9+12+12+21 | 63 | 1750 | 1750 | 2200 | 2200 | 3700 | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+12+12+12 | 57 | 1900 | 2425 | 2425 | 2425 | 2425 | 11600(3500~13600) | 3590(2000~4900) |
| 9+12+12+12+18 | 63 | 1800 | 2225 | 2225 | 2225 | 3125 | 11600(3500~13600) | 3590(2000~4900) |
| 12+12+12+12+12 | 60 | 2320 | 2320 | 2320 | 2320 | 2320 | 11600(3500~13600) | 3590(2000~4900) |

GWHD(4?)NK3AQ (2 to 5) Heating Performance Parameters

| GWHID (12), NERCS (E13-3) Heating Performance Parameters | | | | | | | | |
|--|-------------------|-----------|-----------|-----------|-----------|-----------|----------------------------------|-------------------------------|
| Indoor units match | Total capacity | Room A | Room B | Room C | Room D | Room E | Capacity Rating (Min. ~ Max.) | Power Rating (Min. ~ Max.) |
| 7+18 | 25 | 2625 | 6250 | - | - | - | 8875(4500~9900) | 2171(1800~4400) |
| 7+21 | 28 | 2500 | 7500 | - | - | - | 10000(4500~11000) | 2419(1800~4400) |
| 7+24 | 31 | 2375 | 7625 | - | - | - | 10000(4500~11000) | 2419(1800~4400) |
| 9+12 | 21 | 3125 | 4375 | - | - | - | 7500(4500~9900) | 1834(1300~4200) |
| 9+18 | 27 | 2750 | 6125 | - | - | - | 8875(4500~9900) | 2123(1800~4400) |
| 9+21 | 30 | 2500 | 7500 | - | - | - | 10000(4500~11000) | 2419(1800~4400) |
| 9+24 | 33 | 2500 | 7500 | - | - | - | 10000(4500~11000) | 2419(1800~4400) |
| 12+12 | 24 | 3750 | 3750 | - | - | - | 7500(4500~8800) | 1834(1300~4400) |
| 12+18 | 30 | 3875 | 6125 | - | - | - | 10000(4500~11000) | 2419(1800~4400) |
| 12+21 | 33 | 4375 | 7500 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 12+24 | 36 | 3750 | 8125 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 18+18 | 36 | 5938 | 5938 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 18+21 | 39 | 5375 | 6500 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 18+24 | 42 | 5125 | 6875 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 21+21 | 42 | 5938 | 5938 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 21+24 | 45 | 5875 | 6000 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 24+24 | 48 | 5938 | 5938 | - | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+7+7 | 21 | 2875 | 2875 | 2875 | - | - | 8625(4500~12000) | 2103(1800~4400) |
| 7+7+9 | 23 | 2813 | 2813 | 3125 | - | - | 8750(4500~12000) | 2103(1800~4400) |
| 7+7+12 | 26 | 2500 | 2500 | 3875 | - | - | 8875(4500~12000) | 2123(1800~4400) |
| 7+7+18 | 32 | 2625 | 2625 | 5625 | - | - | 10875(4500~12000) | 2617(1800~4400) |

FREE MATCH III Multi VRF Technical Sales Guide

| | | | | | | | | |
|----------|----|------|------|------|---|---|-------------------|-----------------|
| 7+7+21 | 35 | 2500 | 2500 | 6875 | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+7+24 | 38 | 2313 | 2313 | 7250 | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+9+9 | 25 | 2750 | 3063 | 3063 | - | - | 8875(4500~12000) | 2123(1800~4400) |
| 7+9+12 | 28 | 2500 | 2625 | 3750 | - | - | 8875(4500~12000) | 2123(1800~4400) |
| 7+9+18 | 34 | 2813 | 3000 | 6063 | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+9+21 | 37 | 2625 | 2750 | 6500 | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+9+24 | 40 | 2563 | 2688 | 6625 | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+12+12 | 31 | 2625 | 4125 | 4125 | - | - | 10875(4500~12000) | 2617(2000~4400) |
| 7+12+18 | 37 | 2750 | 3875 | 6375 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 7+12+21 | 40 | 2625 | 3750 | 6625 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 7+12+24 | 43 | 2563 | 3688 | 6750 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 7+18+18 | 43 | 2375 | 5313 | 5313 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 7+18+21 | 46 | 2162 | 4779 | 6259 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+18+24 | 49 | 2162 | 4666 | 6372 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+21+21 | 49 | 2048 | 5576 | 5576 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+21+24 | 52 | 1934 | 5576 | 5690 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+24+24 | 55 | 1821 | 5690 | 5690 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9 | 27 | 3000 | 3000 | 3000 | - | - | 9000(4500~12000) | 2123(1800~4400) |
| 9+9+12 | 30 | 2563 | 2688 | 3750 | - | - | 9000(4500~12000) | 2123(1800~4400) |
| 9+9+18 | 36 | 2938 | 2938 | 6000 | - | - | 11875(4500~12500) | 2903(2000~4400) |
| 9+9+21 | 39 | 3063 | 3063 | 6875 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 9+9+24 | 42 | 3000 | 3000 | 7000 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 9+12+12 | 33 | 3125 | 3875 | 3875 | - | - | 10875(4500~12000) | 2617(1800~4400) |
| 9+12+18 | 39 | 3125 | 4000 | 5875 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 9+12+21 | 42 | 2875 | 3500 | 6625 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 9+12+24 | 45 | 2617 | 3186 | 7397 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+18+18 | 45 | 2390 | 5007 | 5007 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+18+21 | 48 | 2276 | 4666 | 6259 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+18+24 | 51 | 2276 | 4552 | 6372 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+21+21 | 51 | 2048 | 5576 | 5576 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+21+24 | 54 | 1991 | 5576 | 5633 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+24+24 | 57 | 1934 | 5633 | 5633 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+12+12 | 36 | 4313 | 4313 | 4375 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 12+12+18 | 42 | 4000 | 4000 | 5000 | - | - | 13000(4500~13200) | 3160(2000~4400) |
| 12+12+21 | 45 | 3414 | 3414 | 6372 | - | - | 13200(4500~14000) | 3545(2000~4400) |



| | | | | | | | | |
|-----------|----|------|------|------|------|---|----------------------|-----------------|
| 12+12+24 | 48 | 3357 | 3357 | 6486 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+18+18 | 48 | 3186 | 5007 | 5007 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+18+21 | 51 | 3072 | 4779 | 5348 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+18+24 | 54 | 3016 | 4722 | 5462 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+21+21 | 54 | 2959 | 5121 | 5121 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+21+24 | 57 | 2902 | 5064 | 5234 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 12+24+24 | 60 | 2845 | 5178 | 5178 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 18+18+18 | 54 | 4381 | 4381 | 4438 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 18+18+21 | 57 | 4153 | 4153 | 4893 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 18+18+24 | 60 | 4097 | 4097 | 5007 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 18+21+21 | 60 | 4097 | 4552 | 4552 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 21+21+21 | 63 | 4381 | 4381 | 4438 | - | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+7+7 | 28 | 2688 | 2688 | 2688 | 2688 | - | 10750(4500~12000) | 2617(1800~4400) |
| 7+7+7+9 | 30 | 2625 | 2625 | 2625 | 2875 | - | 10750(4500~12000) | 2617(1800~4400) |
| 7+7+7+12 | 33 | 2625 | 2625 | 2625 | 4000 | - | 11875(4500~12500) | 2903(2000~4400) |
| 7+7+7+18 | 39 | 2500 | 2500 | 2500 | 5500 | - | 13000(4500~14000) | 3160(2000~4400) |
| 7+7+7+21 | 42 | 2250 | 2250 | 2250 | 6250 | - | 13000(4500~14000) | 3160(2000~4400) |
| 7+7+7+24 | 45 | 2276 | 2276 | 2276 | 6372 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+9+9 | 32 | 2500 | 2500 | 2875 | 2875 | - | 10750(4500~14000) | 2617(2000~4400) |
| 7+7+9+12 | 35 | 2500 | 2500 | 2875 | 4000 | - | 11875(4500~14000) | 2617(2000~4400) |
| 7+7+9+18 | 41 | 2375 | 2375 | 2875 | 5375 | - | 13000(4500~14000) | 3160(2000~4400) |
| 7+7+9+21 | 44 | 2219 | 2219 | 2503 | 6259 | - | 13199.99(4500~14000) | 3545(2000~4400) |
| 7+7+9+24 | 47 | 2162 | 2162 | 2503 | 6372 | - | 13199.99(4500~14000) | 3545(2000~4400) |
| 7+7+12+12 | 38 | 2500 | 2500 | 4000 | 4000 | - | 13000(4500~14000) | 3160(2000~4400) |
| 7+7+12+18 | 44 | 2500 | 2500 | 3875 | 5121 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+12+21 | 47 | 2250 | 2250 | 3625 | 5803 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+12+24 | 50 | 2250 | 2250 | 3500 | 5917 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+18+18 | 50 | 2375 | 2375 | 4875 | 4438 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+18+21 | 43 | 2250 | 2250 | 4375 | 5121 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+18+24 | 46 | 2188 | 2188 | 3875 | 5690 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+21+21 | 56 | 2000 | 2000 | 5250 | 4779 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+21+24 | 59 | 1938 | 1938 | 5313 | 4836 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+9 | 34 | 2875 | 3000 | 3000 | 3000 | - | 11875(4500~14000) | 2903(2000~4400) |
| 7+9+9+12 | 37 | 2500 | 2750 | 2750 | 3875 | - | 11875(4500~14000) | 2903(2000~4400) |
| 7+9+9+18 | 43 | 2503 | 2617 | 2617 | 5462 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+21 | 46 | 2162 | 2390 | 2390 | 6259 | - | 13200(4500~14000) | 3545(2000~4400) |

FREE MATCH III Multi VRF Technical Sales Guide

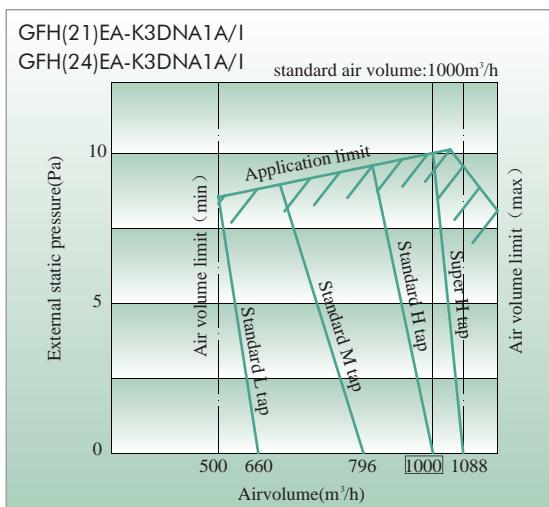
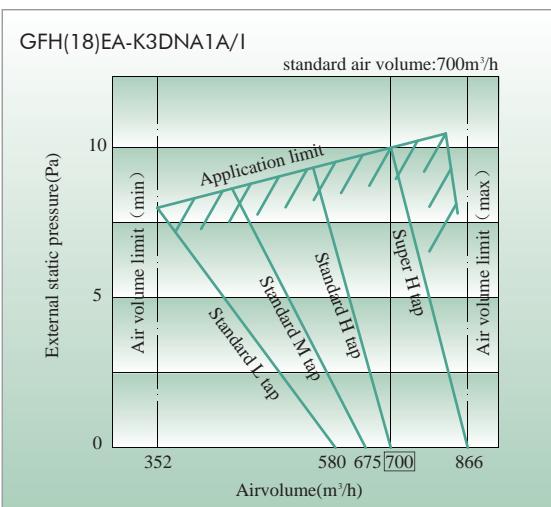
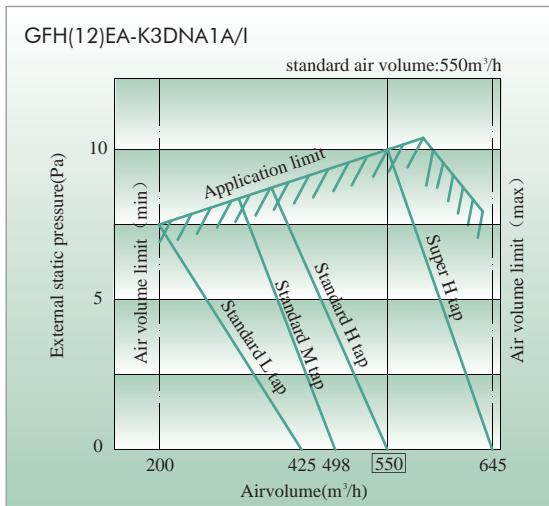
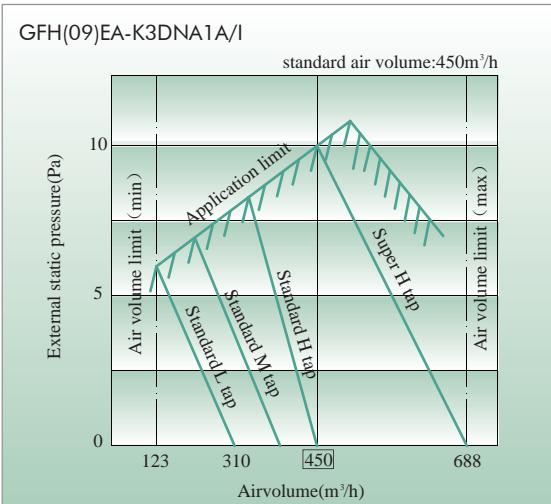
| | | | | | | | | |
|------------|----|------|------|------|------|---|-------------------|-----------------|
| 7+9+9+24 | 49 | 2048 | 2390 | 2390 | 6372 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+12+12 | 40 | 2500 | 2750 | 2750 | 3875 | - | 11875(4500~14000) | 2903(2000~4400) |
| 7+9+12+18 | 46 | 2162 | 2390 | 3528 | 5121 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+12+21 | 49 | 1991 | 2105 | 3300 | 5803 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+12+24 | 52 | 2048 | 2105 | 3186 | 5860 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+18+18 | 52 | 2105 | 2219 | 4438 | 4438 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+18+21 | 55 | 2105 | 2162 | 3926 | 5007 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+18+24 | 58 | 1991 | 2048 | 3471 | 5690 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+21+21 | 58 | 1821 | 2048 | 4666 | 4666 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+21+24 | 61 | 1764 | 1878 | 4779 | 4779 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+12+12 | 43 | 2500 | 2500 | 4000 | 4000 | - | 13000(4500~14000) | 3160(2000~4400) |
| 7+12+12+18 | 46 | 2162 | 2959 | 2959 | 5121 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+12+21 | 52 | 1934 | 2731 | 2731 | 5803 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+12+24 | 55 | 2048 | 2646 | 2646 | 5860 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+18+18 | 55 | 2048 | 2731 | 4210 | 4210 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+18+21 | 58 | 2105 | 2276 | 3926 | 4893 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+18+24 | 61 | 1991 | 2276 | 3471 | 5462 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+21+21 | 61 | 1821 | 2276 | 4552 | 4552 | - | 13200(4500~14000) | 3545(2000~4400) |
| 7+18+18+18 | 61 | 1934 | 3755 | 3755 | 3755 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+9 | 36 | 3250 | 3250 | 3250 | 3250 | - | 13000(4500~14000) | 3160(2000~4400) |
| 9+9+9+12 | 39 | 3000 | 3000 | 3000 | 4000 | - | 13000(4500~14000) | 3160(2000~4400) |
| 9+9+9+18 | 45 | 2617 | 2617 | 2617 | 5348 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+21 | 48 | 2333 | 2333 | 2333 | 6202 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+24 | 51 | 2276 | 2276 | 2276 | 6372 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+12+12 | 42 | 2625 | 2625 | 3875 | 3875 | - | 13000(4500~14000) | 3160(2000~4400) |
| 9+9+12+18 | 48 | 2276 | 2276 | 3528 | 5121 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+12+21 | 51 | 2048 | 2048 | 3300 | 5803 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+12+24 | 54 | 2105 | 2105 | 3186 | 5860 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+18+18 | 54 | 2162 | 2162 | 4438 | 4438 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+18+21 | 57 | 2162 | 2162 | 3926 | 4950 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+18+24 | 60 | 2048 | 2048 | 3471 | 5633 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+21+21 | 60 | 1934 | 1934 | 4666 | 4666 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+12+12+12 | 45 | 2617 | 3528 | 3528 | 3528 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+12+12+18 | 51 | 2390 | 2902 | 2902 | 5007 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+12+12+21 | 54 | 2162 | 2674 | 2674 | 5690 | - | 13200(4500~14000) | 3545(2000~4400) |
| 9+12+12+24 | 57 | 2162 | 2646 | 2646 | 5747 | - | 13200(4500~14000) | 3545(2000~4400) |

| 9+12+18+18 | 57 | 2162 | 2731 | 4153 | 4153 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
|-------------|----|------|------|------|------|------|-------------------|-----------------|-----------------------|
| 9+12+18+21 | 58 | 2162 | 2276 | 3926 | 4836 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 9+12+21+21 | 62 | 2048 | 2276 | 4438 | 4438 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 9+18+18+18 | 63 | 1934 | 3755 | 3755 | 3755 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 12+12+12+12 | 48 | 3300 | 3300 | 3300 | 3300 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 12+12+12+18 | 54 | 2788 | 2788 | 2788 | 4836 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 12+12+12+21 | 57 | 2503 | 2503 | 2503 | 5690 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 12+12+12+24 | 60 | 2503 | 2503 | 2503 | 5690 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 12+12+18+18 | 60 | 2617 | 2617 | 3983 | 3983 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 12+12+18+21 | 63 | 2276 | 2276 | 3869 | 4779 | - | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+7+7 | 35 | 2600 | 2600 | 2600 | 2600 | 2600 | 13000(4500~14000) | 3160(2000~4400) | Technical Sales Guide |
| 7+7+7+7+9 | 37 | 2563 | 2563 | 2563 | 2563 | 2750 | 13000(4500~14000) | 3160(2000~4400) | Technical Sales Guide |
| 7+7+7+7+12 | 40 | 2438 | 2438 | 2438 | 2438 | 3250 | 13000(4500~14000) | 3160(2000~4400) | Technical Sales Guide |
| 7+7+7+7+18 | 46 | 2219 | 2219 | 2219 | 2219 | 4324 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+7+21 | 49 | 2105 | 2105 | 2105 | 2105 | 4779 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+7+24 | 52 | 2105 | 2105 | 2105 | 2105 | 4779 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+9+9 | 39 | 2500 | 2500 | 2500 | 2750 | 2750 | 13000(4500~14000) | 3160(2000~4400) | Technical Sales Guide |
| 7+7+7+9+12 | 42 | 2390 | 2390 | 2390 | 2617 | 3414 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+9+18 | 48 | 2219 | 2219 | 2219 | 2333 | 4210 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+9+21 | 51 | 2105 | 2105 | 2105 | 2219 | 4666 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+9+24 | 54 | 2105 | 2105 | 2105 | 2219 | 4666 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+12+12 | 45 | 2276 | 2276 | 2276 | 3186 | 3186 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+12+18 | 51 | 2105 | 2105 | 2105 | 2845 | 4040 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+12+21 | 54 | 2048 | 2048 | 2048 | 2731 | 4324 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+12+24 | 57 | 2048 | 2048 | 2048 | 2731 | 4324 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+18+18 | 57 | 2048 | 2048 | 2048 | 3528 | 3528 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+7+18+21 | 60 | 1934 | 1934 | 1934 | 3186 | 4210 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+9+9 | 41 | 2375 | 2375 | 2750 | 2750 | 2750 | 13000(4500~14000) | 3160(2000~4400) | Technical Sales Guide |
| 7+7+9+9+12 | 44 | 2390 | 2390 | 2503 | 2503 | 3414 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+9+18 | 50 | 2219 | 2219 | 2276 | 2276 | 4210 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+9+21 | 53 | 2105 | 2105 | 2162 | 2162 | 4666 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+9+24 | 56 | 2105 | 2105 | 2162 | 2162 | 4666 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+12+12 | 47 | 2276 | 2276 | 2390 | 3129 | 3129 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+12+18 | 53 | 2105 | 2105 | 2162 | 2845 | 3983 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+12+21 | 56 | 2048 | 2048 | 2162 | 2674 | 4267 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |
| 7+7+9+12+24 | 59 | 2048 | 2048 | 2162 | 2674 | 4267 | 13200(4500~14000) | 3545(2000~4400) | Technical Sales Guide |

FREE MATCH III Multi VRF Technical Sales Guide

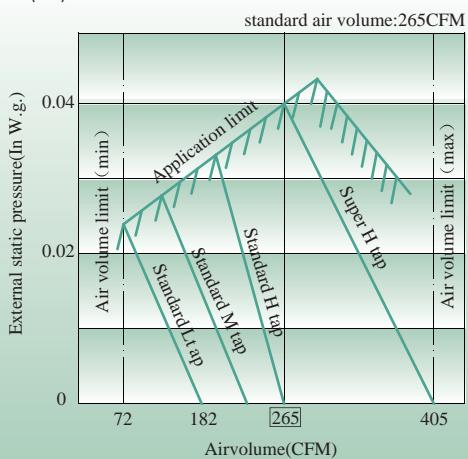
| | | | | | | | | |
|----------------|----|------|------|------|------|------|-------------------|-----------------|
| 7+7+9+18+18 | 49 | 2048 | 2048 | 2162 | 3471 | 3471 | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+9+18+21 | 52 | 1934 | 1934 | 2048 | 3129 | 4153 | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+12+12+12 | 50 | 2162 | 2162 | 2959 | 2959 | 2959 | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+12+12+18 | 56 | 1934 | 1934 | 2731 | 2731 | 3869 | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+12+12+21 | 59 | 1934 | 1934 | 2503 | 2503 | 4324 | 13200(4500~14000) | 3545(2000~4400) |
| 7+7+12+18+18 | 62 | 2048 | 2048 | 2503 | 3300 | 3300 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+9+9 | 43 | 2503 | 2674 | 2674 | 2674 | 2674 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+9+12 | 46 | 2333 | 2503 | 2503 | 2503 | 3357 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+9+18 | 52 | 2162 | 2276 | 2276 | 2276 | 4210 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+9+21 | 55 | 2105 | 2162 | 2162 | 2162 | 4609 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+9+24 | 58 | 2105 | 2162 | 2162 | 2162 | 4609 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+12+12 | 49 | 2276 | 2390 | 2390 | 3072 | 3072 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+12+18 | 55 | 2105 | 2162 | 2162 | 2788 | 3983 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+12+21 | 58 | 2048 | 2162 | 2162 | 2617 | 4210 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+12+24 | 61 | 2048 | 2162 | 2162 | 2617 | 4210 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+9+18+18 | 61 | 2048 | 2162 | 2162 | 3414 | 3414 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+12+12+12 | 42 | 2105 | 2219 | 2959 | 2959 | 2959 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+12+12+18 | 48 | 1934 | 2048 | 2674 | 2674 | 3869 | 13200(4500~14000) | 3545(2000~4400) |
| 7+9+12+12+21 | 51 | 1934 | 2048 | 2503 | 2503 | 4210 | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+12+12+12 | 55 | 2048 | 2788 | 2788 | 2788 | 2788 | 13200(4500~14000) | 3545(2000~4400) |
| 7+12+12+12+18 | 61 | 1878 | 2560 | 2560 | 2560 | 3641 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+9+9 | 45 | 2640 | 2640 | 2640 | 2640 | 2640 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+9+12 | 48 | 2475 | 2475 | 2475 | 2475 | 3300 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+9+18 | 54 | 2276 | 2276 | 2276 | 2276 | 4097 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+9+21 | 57 | 2162 | 2162 | 2162 | 2162 | 4552 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+9+24 | 60 | 2162 | 2162 | 2162 | 2162 | 4552 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+12+12 | 51 | 2390 | 2390 | 2390 | 3016 | 3016 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+12+18 | 57 | 2162 | 2162 | 2162 | 2759 | 3954 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+12+21 | 60 | 2162 | 2162 | 2162 | 2560 | 4153 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+9+18+18 | 63 | 2162 | 2162 | 2162 | 3357 | 3357 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+12+12+12 | 54 | 2162 | 2162 | 2959 | 2959 | 2959 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+12+12+18 | 60 | 1991 | 1991 | 2674 | 2674 | 3869 | 13200(4500~14000) | 3545(2000~4400) |
| 9+9+12+12+21 | 63 | 1991 | 1991 | 2503 | 2503 | 4210 | 13200(4500~14000) | 3545(2000~4400) |
| 9+12+12+12+12 | 57 | 2162 | 2759 | 2759 | 2759 | 2759 | 13200(4500~14000) | 3545(2000~4400) |
| 9+12+12+12+18 | 63 | 2048 | 2532 | 2532 | 2532 | 3556 | 13200(4500~14000) | 3545(2000~4400) |
| 12+12+12+12+12 | 60 | 2640 | 2640 | 2640 | 2640 | 2640 | 13200(4500~14000) | 3545(2000~4400) |

9 FAN CHARACTERISTICS

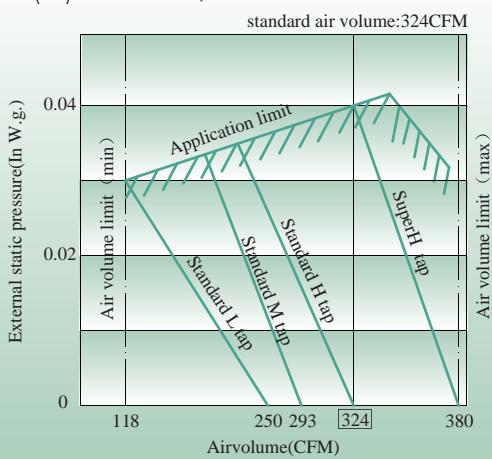


FREE MATCH III Multi VRF Technical Sales Guide

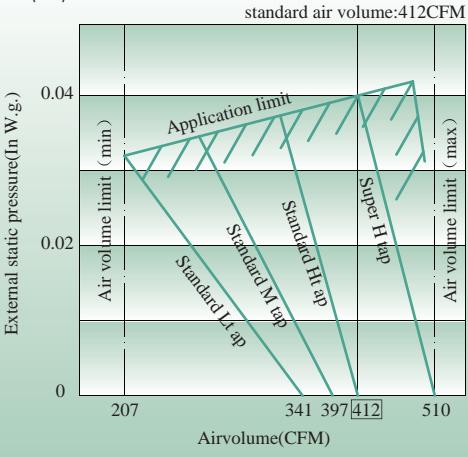
GFH(09)EA-K3DNA1A/I



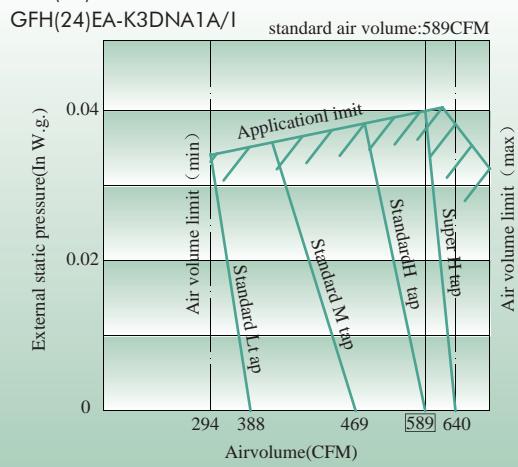
GFH(12)EA-K3DNA1A/I



GFH(18)EA-K3DNA1A/I



GFH(21)EA-K3DNA1A/I

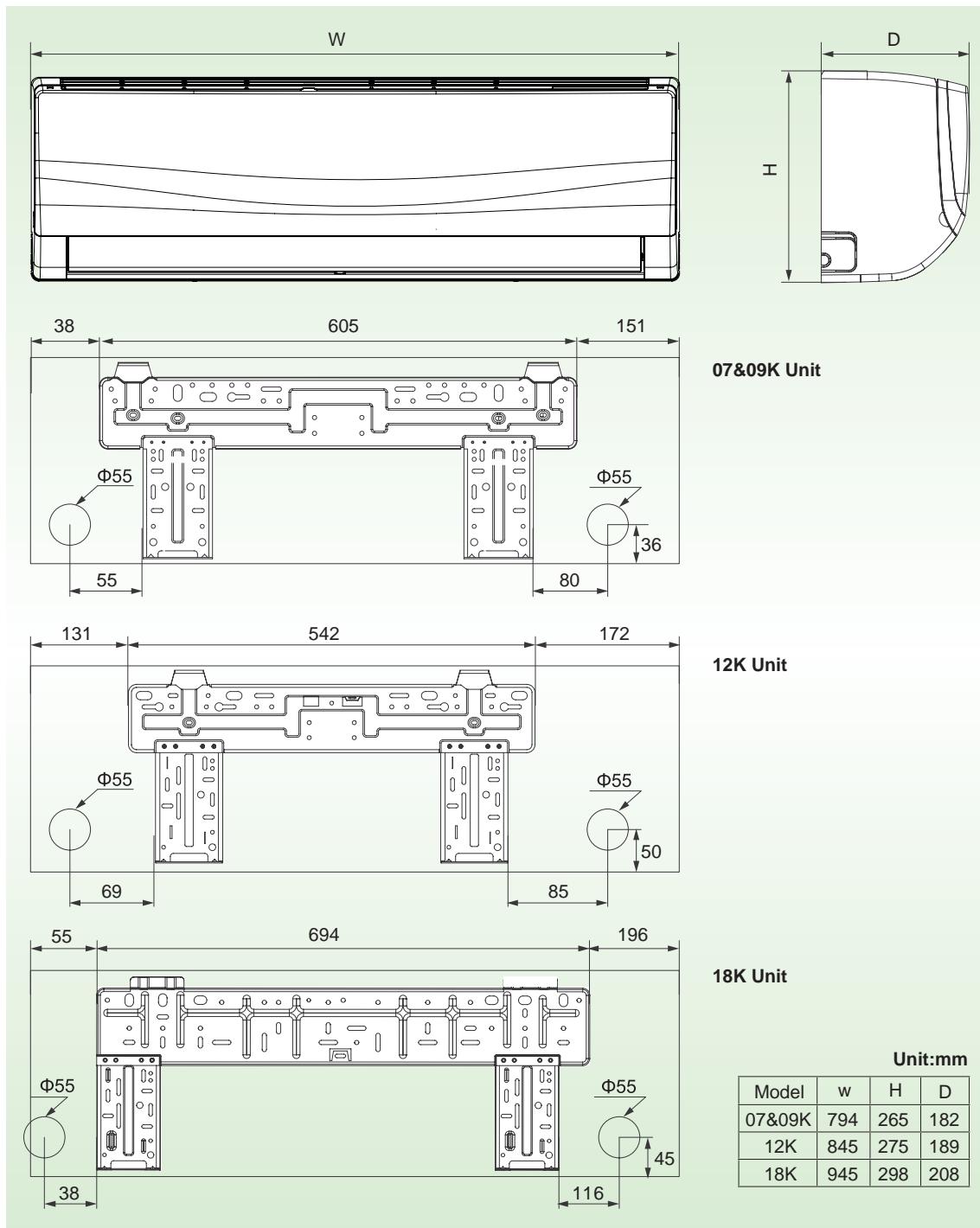


10 DIMENSIONAL DRAWINGS

10.1 Indoor Unit

◆ VIOLA

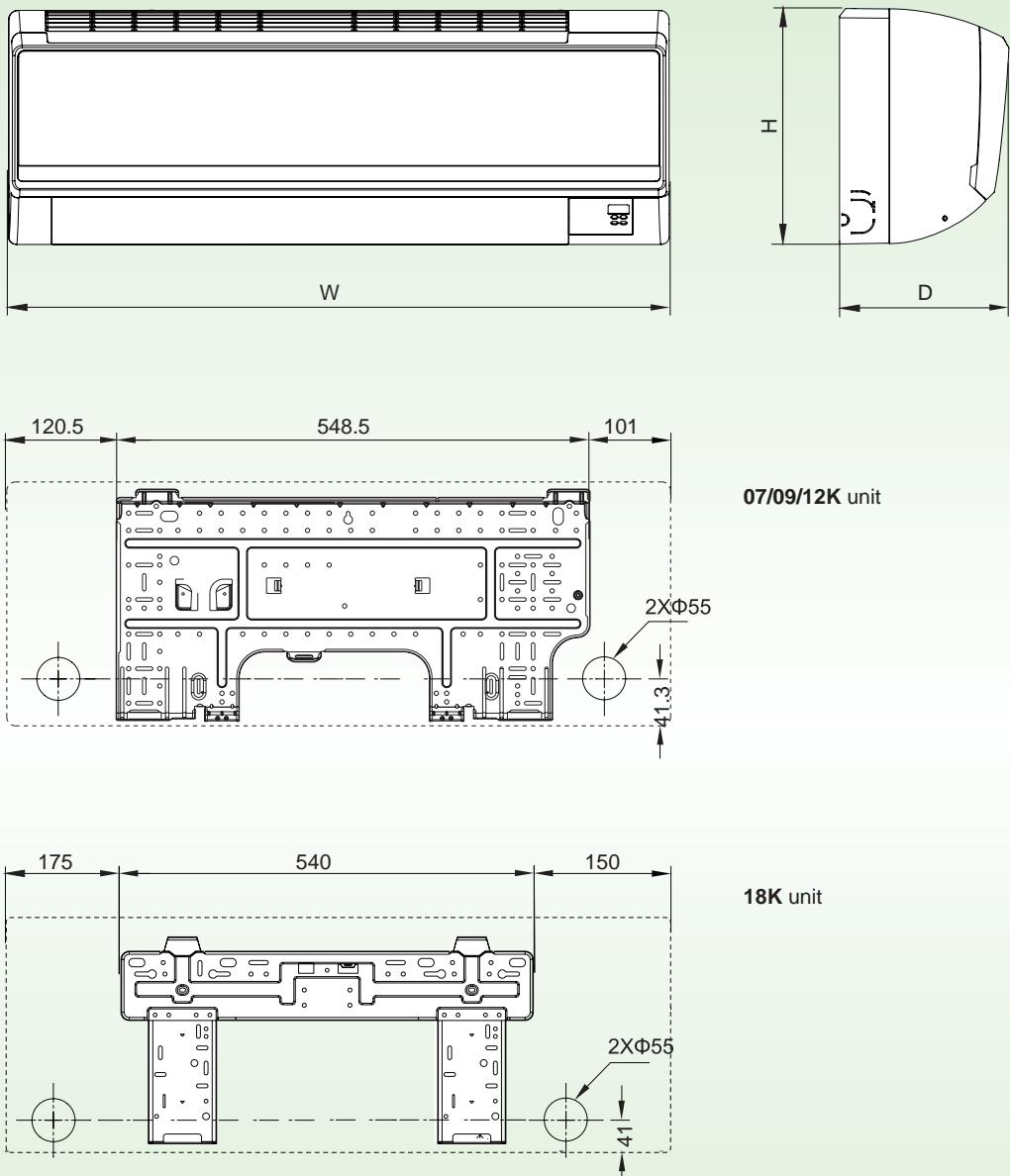
Dimensions for: GWH(07)RA-K3DNA3E/I, GWH(09)RA-K3DNA3E/I, GWH(12)RB-K3DNA3E/I, GWH(18)RC-K3DNA3E/I



FREE MATCH III Multi VRF Technical Sales Guide

◆ Change

Dimensions for: GWH(07)KF-K3DNA6E/I, GWH(09)KF-K3DNA6E/I, GWH(12)KF-K3DNA6E/I, GWH(18)KG-K3DNA6E/II

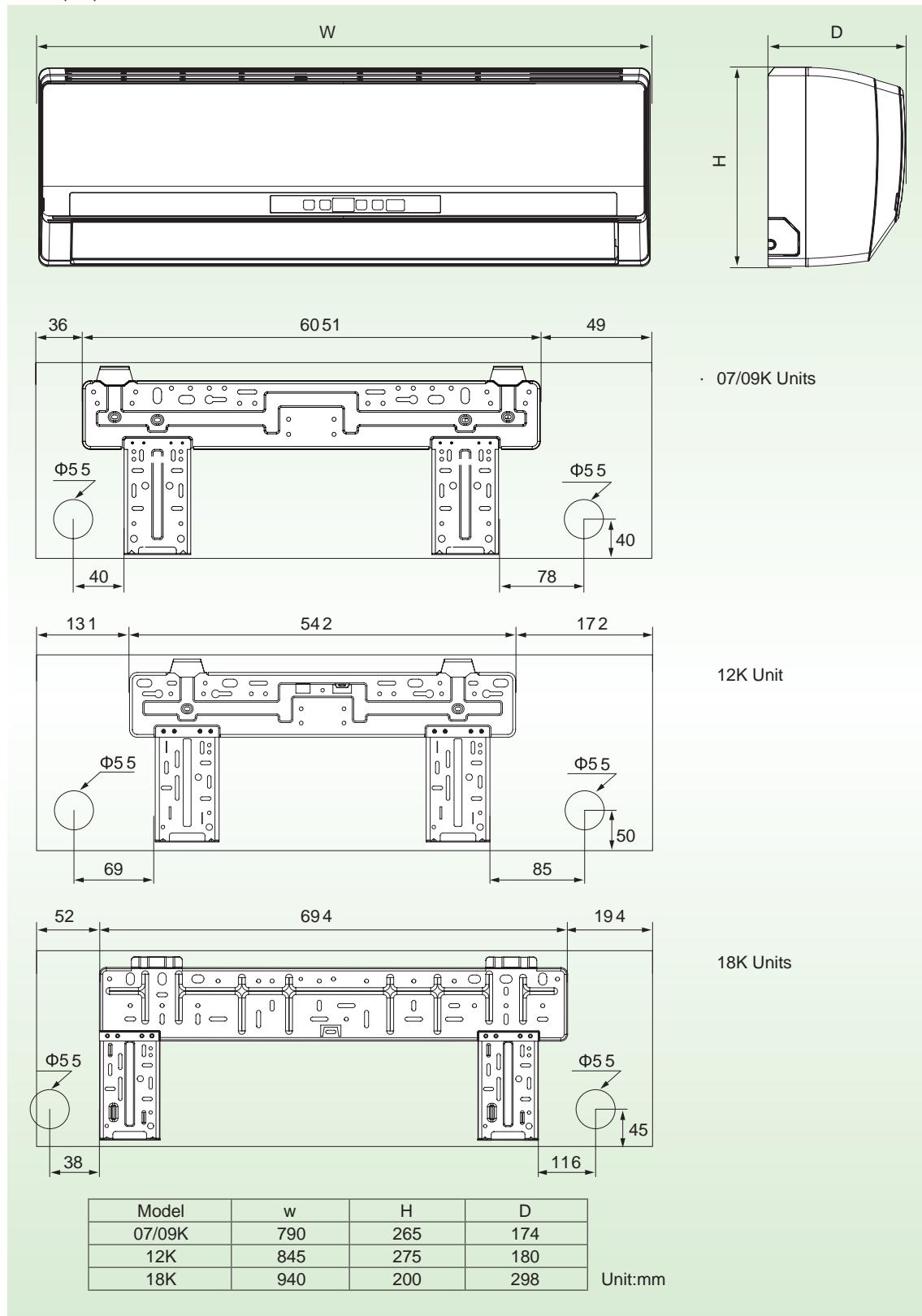


unit:mm

| Mode | W | H | D |
|-----------|-----|-----|-----|
| 07/09/12K | 770 | 283 | 201 |
| 18K | 865 | 305 | 215 |

◆ Cozy

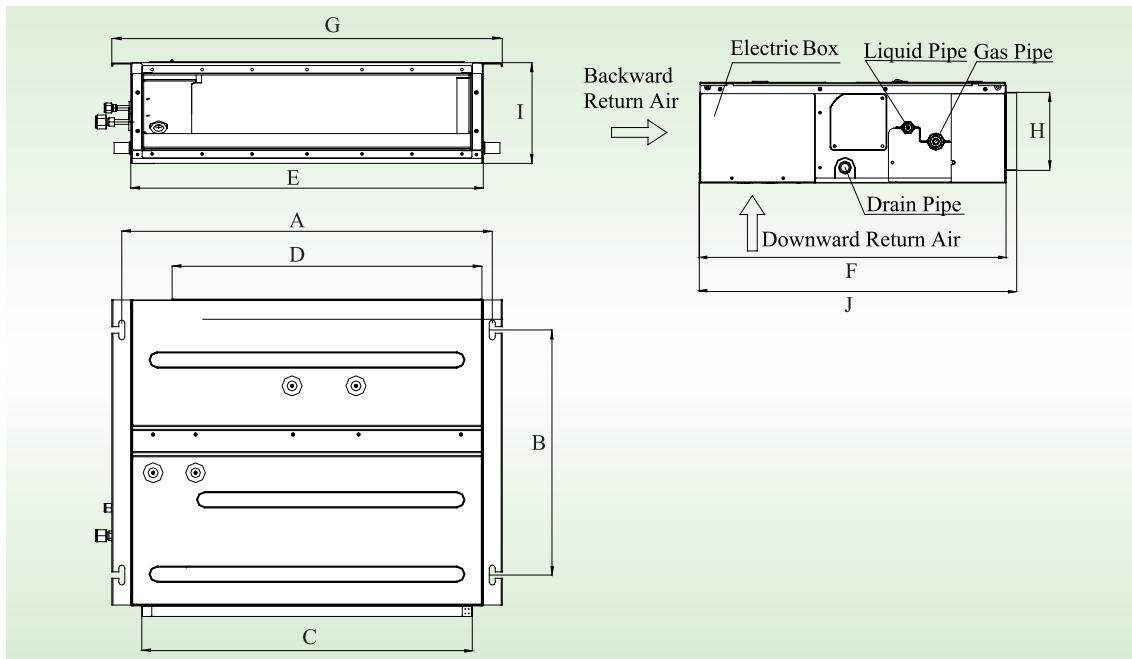
Dimensions for: GWH(07)MA-K3DNA4E/I, GWH(09)MA-K3DNA4E/I, GWH(12)MB-K3DNA4E/I,
 GWH(18)MC-K3DNA4E/I



FREE MATCH III Multi VRF Technical Sales Guide

◆ Duct Type

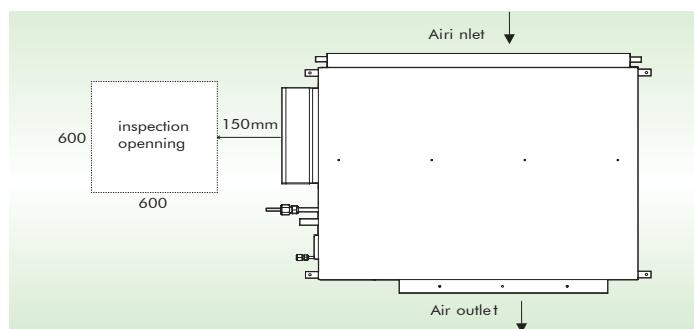
Dimensions for: GFH(09)EA-K3DNA1A/I, GFH(12)EA-K3DNA1A/I, GFH(18)EA-K3DNA1A/I, GFH(21)EA-K3DNA1A/I, GFH(24)EA-K3DNA1A/I



| Model | A | B | C | D | E | F | G | H | I | J |
|---------------------|------|-----|------|------|------|-----|------|-----|-----|-----|
| GFH(09)EA-K3DNA1A/I | 742 | 491 | 662 | 620 | 700 | 615 | 782 | 156 | 200 | 635 |
| GFH(12)EA-K3DNA1A/I | | | | | | | | | | |
| GFH(18)EA-K3DNA1A/I | 942 | 491 | 862 | 820 | 900 | 615 | 982 | 156 | 200 | 635 |
| GFH(21)EA-K3DNA1A/I | 1142 | 491 | 1062 | 1020 | 1100 | 615 | 1182 | 156 | 200 | 635 |
| GFH(24)EA-K3DNA1A/I | | | | | | | | | | |

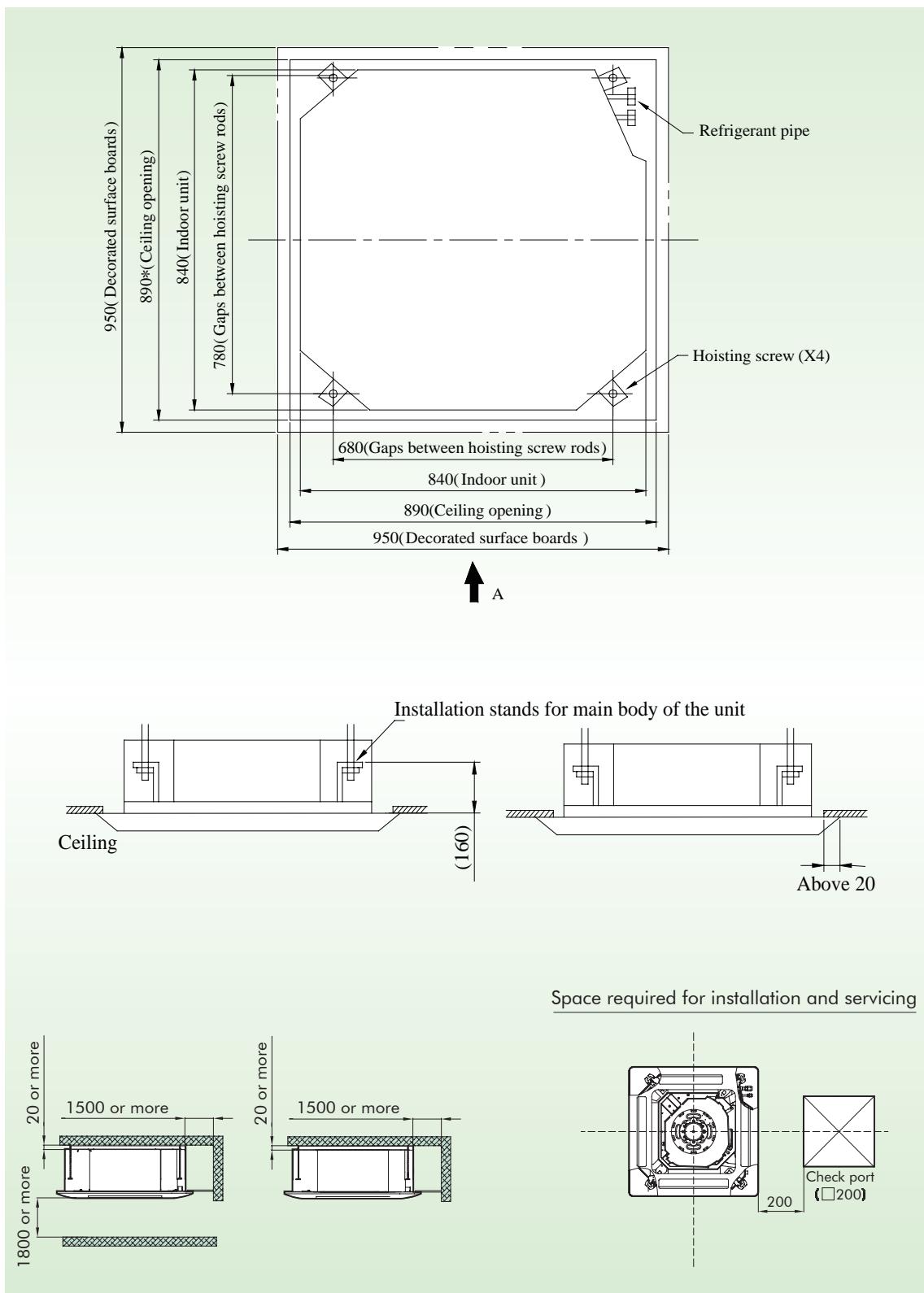
NOTES:

Be sure to place a inspection opening at the position indicated in the following figure for maintenance of the equipment.



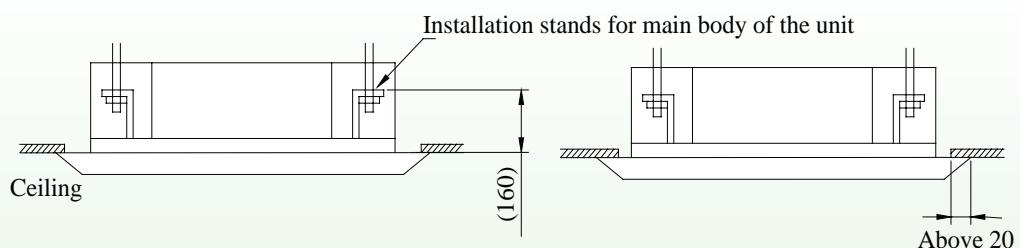
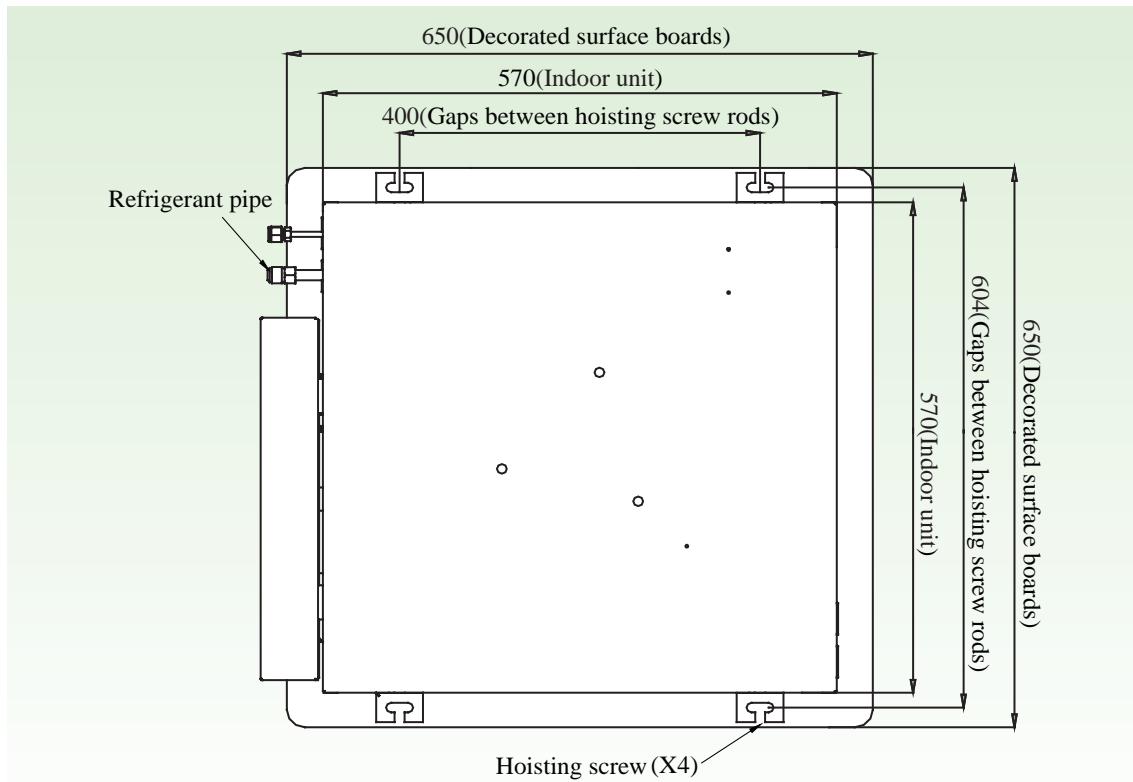
◆ Cassette Type

Dimensions for: GKH(12)BA-K3DNA1A/I, GKH(18)BA-K3DNA1A/I, GKH(24)BA-K3DNA1A/I

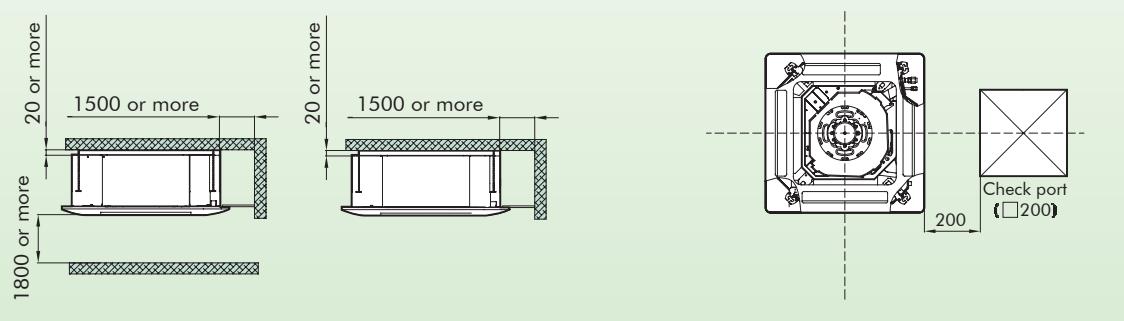


FREE MATCH III Multi VRF Technical Sales Guide

Dimensions for: GKH(12)BA-K3DNA2A/I; GKH(18)BA-K3DNA2A/I

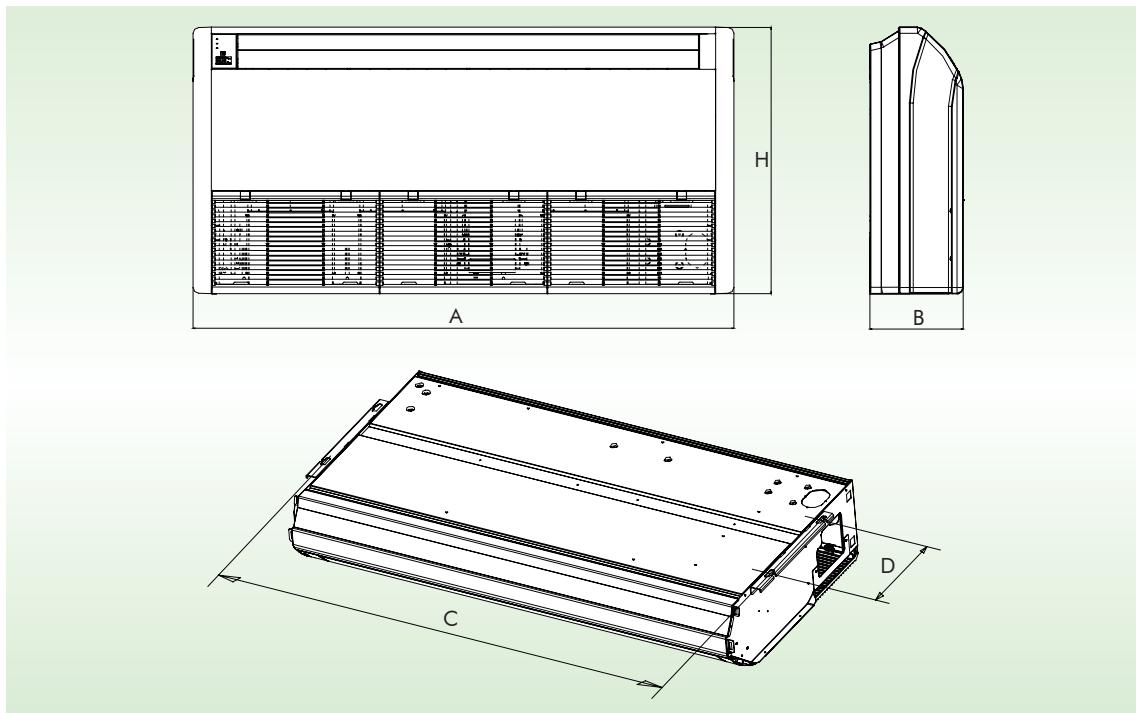


Space required for installation and servicing

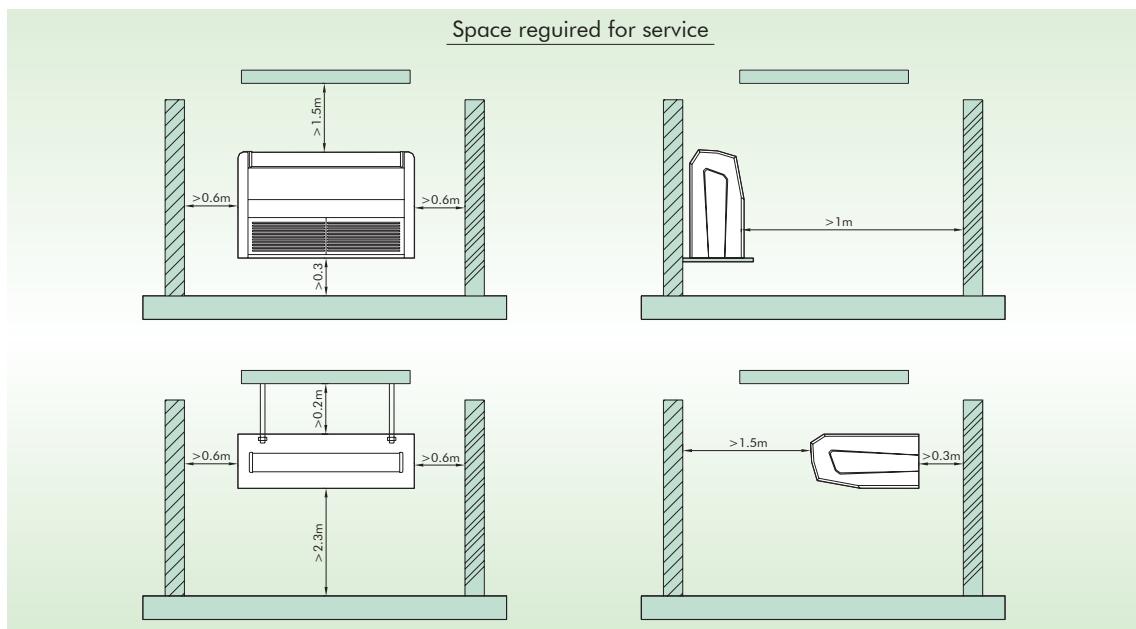


◆ Floor Ceiling Type

Dimensions for: GTH(09)BA-K3DNA1A/I, GTH(12)BA-K3DNA1A/I, GTH(18)BA-K3DNA1A/I, GTH(24)BA-K3DNA1A/I



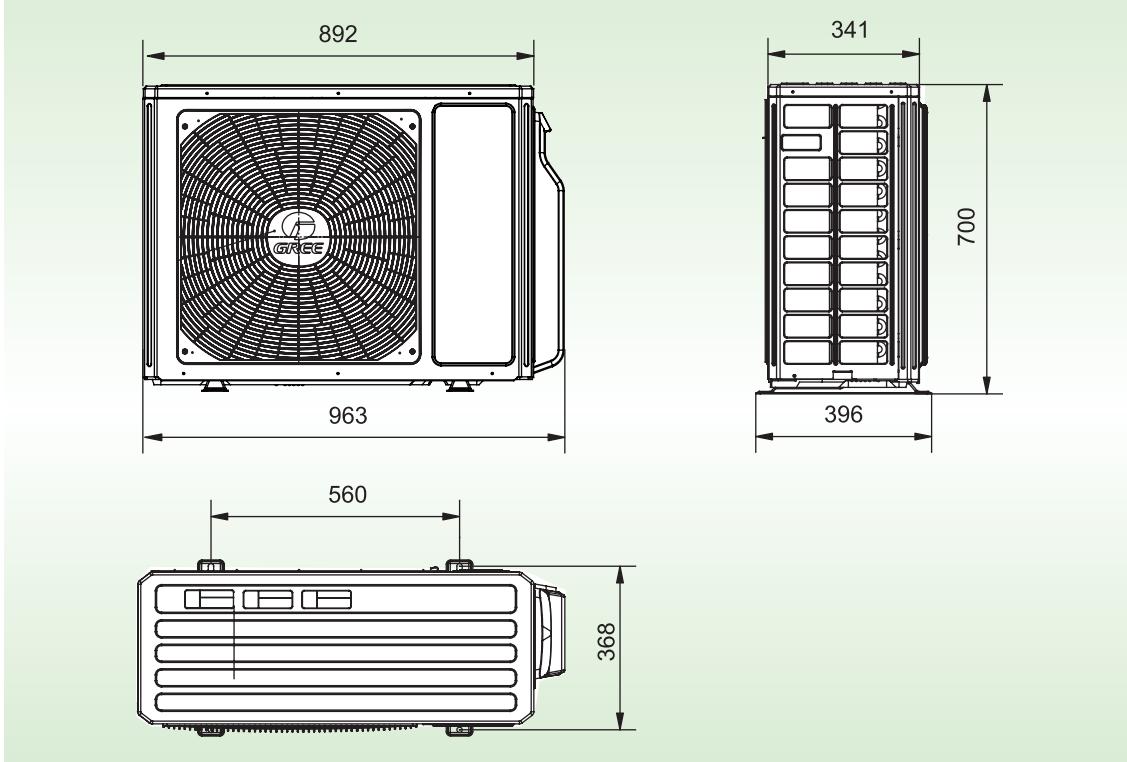
| Model | A | B | H | C | D |
|---------------------|------|-----|-----|------|-----|
| GTH(09)BA-K3DNA1A/I | | | | | |
| GTH(12)BA-K3DNA1A/I | 1220 | 225 | 700 | 1158 | 280 |
| GTH(18)BA-K3DNA1A/I | | | | | |
| GTH(24)BA-K3DNA1A/I | | | | | |



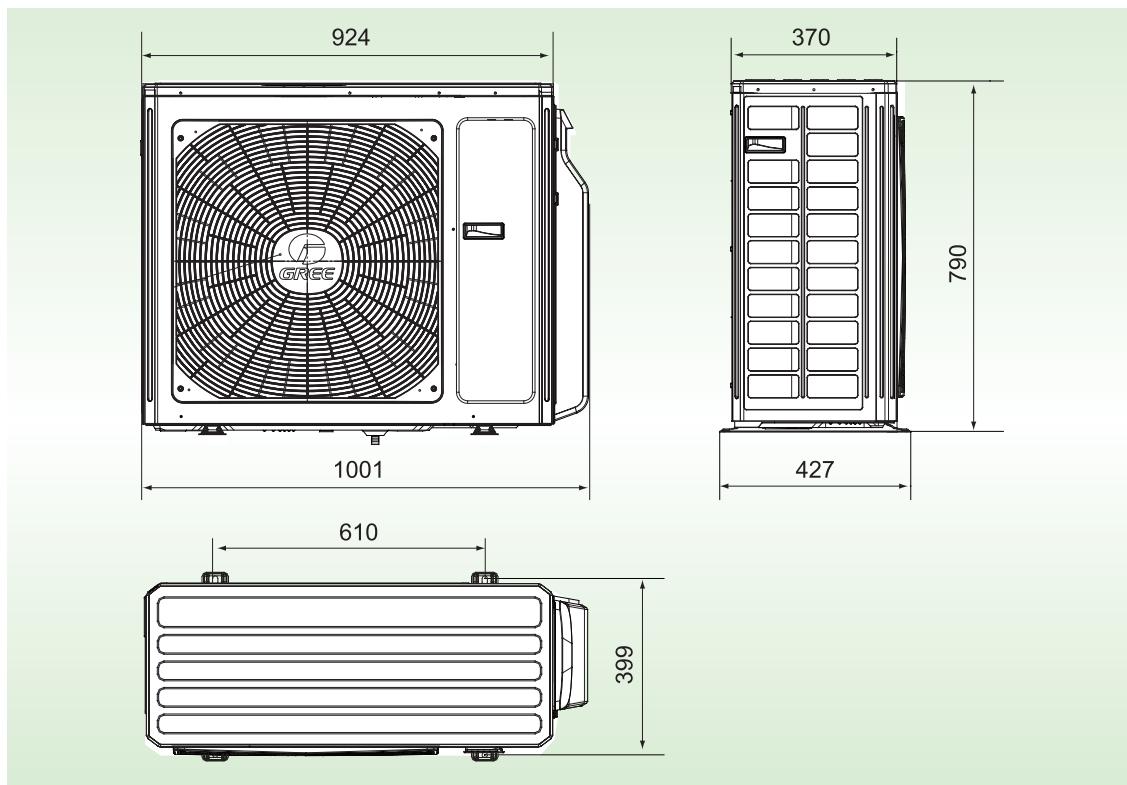
FREE MATCH III Multi VRF Technical Sales Guide

10.2 Outdoor Unit

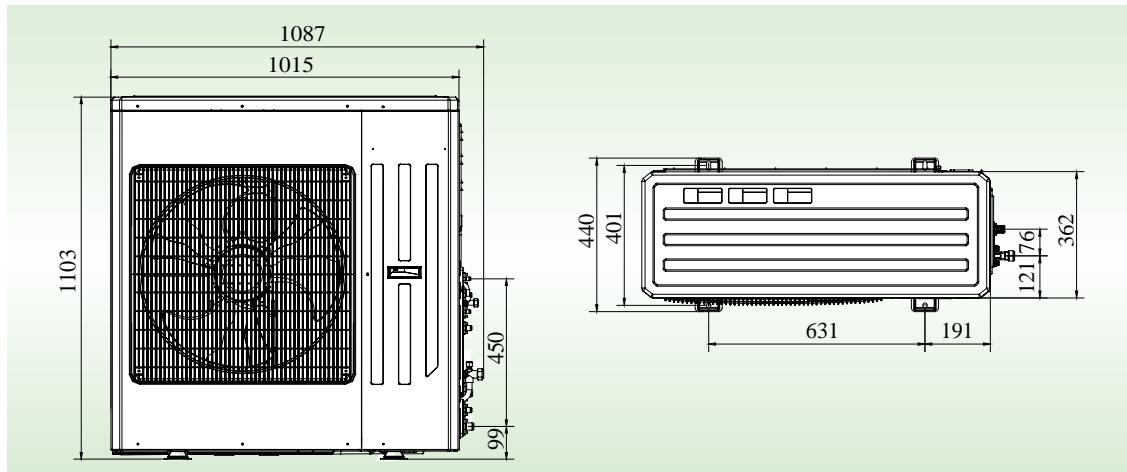
Dimensions for: GWHD(18)NK3FO



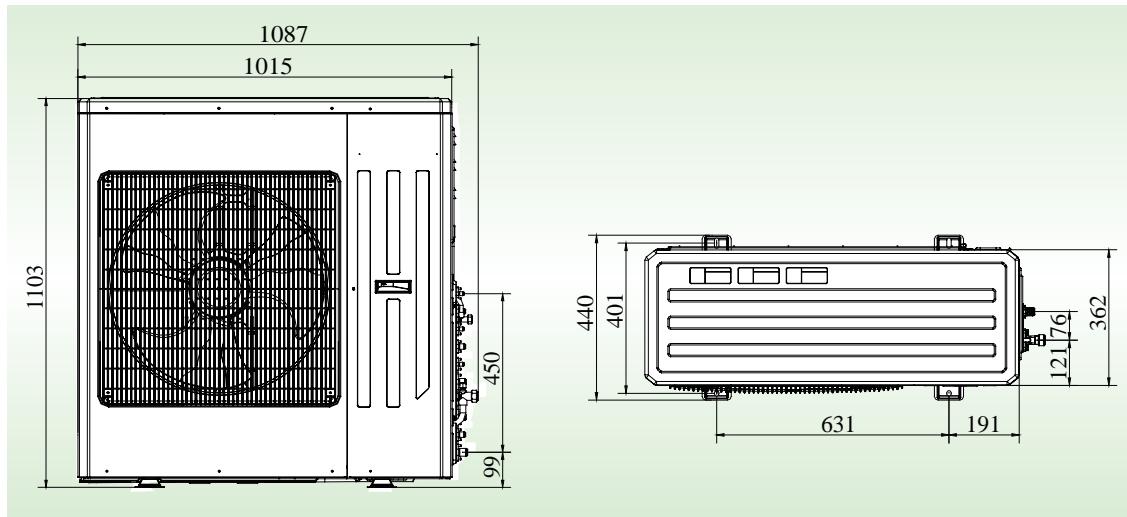
Dimensions for: GWHD(24)NK3FO, GWHD(24)NK3GO, GWHD(28)NK3FO



Dimensions for:GWHD(36)NK3BO



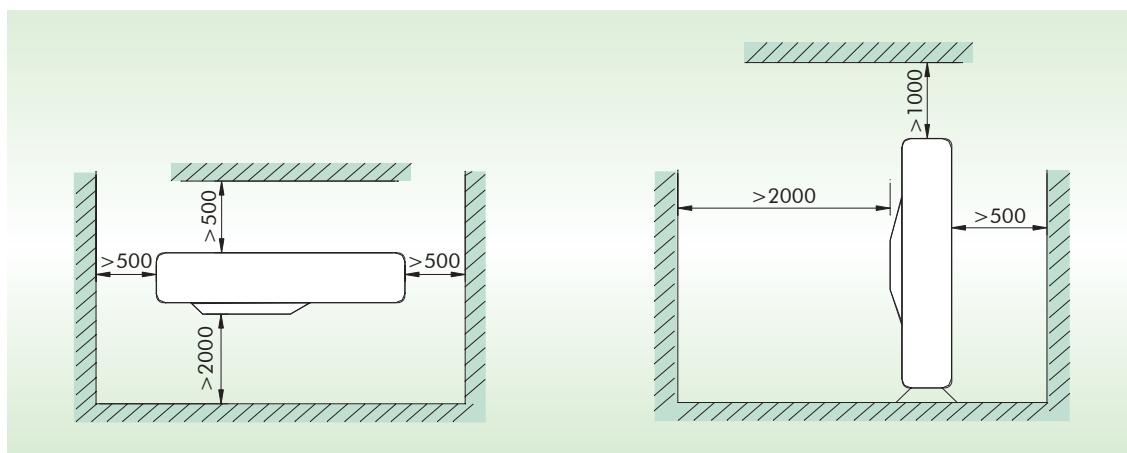
Dimensions for:GWHD(42)NK3AO



During installation, tighten the support and base of the unit by using M12 screws.

Outdoor unit shall be installed on a concrete base 10cm high.

Space dimension for installation of the unit is shown below.



FREE MATCH III Multi VRF Technical Sales Guide

10.3 Controller

◆ Wired Remote Controller



◆ Wireless Remote Controller



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

Technology Innovation and quality are always our priority. With efforts of thousands of Gree's engineers, we own more than 3500 patents for our products.

Nowadays, we have 7 production bases in Zhuhai, Chongqing, Hefei and Zhengzhou(China), as well as Brazil, Pakistan and Vietnam, with annual production capacity of 30 million sets of residential air conditioners and 4 million sets of commercial air conditioners.

With the installation of Gree commercial air conditioners in important projects at home and abroad like Media Village for 2008 Beijing Olympic Games, Stadiums for 2010 World Cup in South Africa, as well as India Telecom base station, Gree commercial air conditioners are ready to develop steadily to every corner in the world, to present a more comfortable and harmonious working environment and family atmosphere.



GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS



Add: West Jinji Rd, Qianshan Zhuhai, Guangdong, China 519070

Tel: (+86-756)8614883 Fax: (+86-756)8614998

[Http://www.gree.com](http://www.gree.com) Email: gree@gree.com.cn

For continuous improvement in the products, Gree reserves the right to modify the product specification and appearance in this manual without notice and without incurring any obligations.

■ SJ00400179