



# ***Technical Sales Guide***

## **PHOTOVOLTAIC DIRECT-DRIVEN INVERTER MULTI VRF UNITS**

(GC202006-I)

TECHNICAL SALES GUIDE-60Hz

CAPACITY RANGE: 72000~360000Btu/h

SUPER HIGH AMBIENT OPERATION TO 125.6°F

# CONTENTS

|   |    |
|---|----|
| 1 UNIT CHARACTERISTICS .....  | 1  |
| 2 UNIT PARAMETERS .....   | 6  |
| 3 ELECTRICAL SPECIFICATIONS.....  | 10 |
| 4 COMBINATION MODE.....   | 12 |
| 5 INTERNAL PIPING DESIGN OF THE UNITS .....                             | 13 |
| 6 UNIT CAPACITY CORRECTION .....  | 14 |
| 7 UNIT NOISE CURVES .....   | 44 |
| 8 UNIT GRAVITY CENTER DIAGRAMS .....                                    | 46 |
| 9 UNIT INSTALLATION SPACE REQUIREMENTS .....                            | 47 |
| 10 MODEL SELECTION FOR UNIT PIPING.....                                 | 53 |
| 11 REQUIREMENTS FOR COMMUNICATION MODE .....                            | 64 |
| 12 ELECTRICAL CONNECTION.....   | 71 |
| 13 Installation of Photovoltaic System .....                            | 73 |
| 14 CALCULATION METHOD OF REFRIGERANT ADDED FOR ENGINEERING PIPING ..... | 76 |
| 15 PRECAUTIONS ON REFRIGERANT LEAKAGE .....                             | 77 |
| 16 OPTIONAL COMPONENTS.....   | 78 |
| 17 UNIT OPERATING RANGE .....   | 78 |

# 1 UNIT CHARACTERISTICS

## 1.1 Lineup of Outdoor Unit

Photovoltaic Direct-driven Inverter Multi VRF units: The basic models of the whole series are 6Ton, 8Ton, 10Ton, and the combination model is 12Ton-30Ton.

| Refrigeration Capacity/HP | Model             | Combination Mode                                       | Appearance  |
|---------------------------|-------------------|--|---|
| 6                         | GMV-Y72WM/C-F(U)  | -  |    |
| 8                         | GMV-Y96WM/C-F(U)  | -  |   |
| 10                        | GMV-Y120WM/C-F(U) | -  |   |
| 12                        | GMV-Y144WM/C-F(U) | -  |  |
| 14                        | GMV-Y168WM/C-F(U) | -  |  |
| 16                        | GMV-Y192WM/C-F(U) | GMV-Y96WM/C-F(U) + GMV-Y96WM/C-F(U)                    |  |
| 18                        | GMV-Y216WM/C-F(U) | GMV-Y96WM/C-F(U) + GMV-Y120WM/C-F(U)                   |   |
| 20                        | GMV-Y240WM/C-F(U) | GMV-Y120WM/C-F(U) + GMV-Y120WM/C-F(U)                  |   |
| 22                        | GMV-Y264WM/C-F(U) | GMV-Y72WM/C-F(U) + GMV-Y96WM/C-F(U) + GMV-Y96WM/C-F(U) |   |

| Refrigeration Capacity/HP | Model             | Combination Mode  | Appearance |
|---------------------------|-------------------|---|------------|
| 24                        | GMV-Y288WM/C-F(U) | GMV-Y96WM/C-F(U) + GMV-Y96WM/C-F(U) + GMV-Y96WM/C-F(U)    |            |
| 26                        | GMV-Y312WM/C-F(U) | GMV-Y96WM/C-F(U) + GMV-Y96WM/C-F(U) + GMV-Y120WM/C-F(U)   |            |
| 28                        | GMV-Y336WM/C-F(U) | GMV-Y96WM/C-F(U) + GMV-Y120WM/C-F(U) + GMV-Y120WM/C-F(U)  |            |
| 30                        | GMV-Y360WM/C-F(U) | GMV-Y120WM/C-F(U) + GMV-Y120WM/C-F(U) + GMV-Y120WM/C-F(U) |            |

## 1.2 Product Functions and Features

### ➤ Energy efficient

The products benefit from the advanced DC inverter technology, optimized air conditioner system design, and accurate intelligent control technology.

- High efficient DC inverter compressor
 

The DC inverter compressor is adopted for Gree DC inverter VRF units. The compressor is designed in the high pressure chamber with excellent performance to suck directly, reduce the suction super-heat loss and increase the compression efficiency in comparison to the low pressure chamber compression. The motor part adopts a high efficient permanent magnet synchronous motor, the rotor is a permanent magnet, and the stator implements concentrated winding. Therefore, the efficiency far surpasses that of a common DC inverter compressor.
- Sensorless DC inverter fan motor
 

The DC convertor motor with a high back electromotive force is adopted to implement stepless speed regulation in the range of 5 Hz to 65 Hz. In contrast to the common DC convertor motor, both the operating current and motor input power are lower, but the efficiency is greatly improved.
- Advanced torque control technology
 

The technology of minimum current and maximum torque control is adopted. The rotor reluctance torque of DC inverter compressor is effectively used to export the maximum torque at the cost of minimum current, thus reducing the motor winding loss and achieving higher energy efficiency. The low frequency torque control is implemented. The motor torque is directly controlled to realize operation of the DC inverter at an ultralow speed. The small torque pulsation not only meets system requirements, but also guarantees the higher degree of comfort.

### ➤ Comfortable mute

Gree GMV air conditioning units fully consider the comfort requirement of people, and the humanized technology further perfects the degree of comfort. The wider operation range of the units ensures normal operation in sub-zero weather or hot weather. The better mute effect creates a quiet environment for work and life.

- Outdoor unit mute mode
  - ◆ Night mute
 

The system can memorize and judge the outdoor maximum temperature. When the system operates with a low load at night, it can automatically enter the mute mode. Nine mute modes can be set for the

units according to requirements of actual application scenarios.

For example, the unit can automatically enter the night operation mode after operation for 8h, and will restore the normal operation mode in 9h.

- ◆ Forced mute

When the unit is installed at a place with the requirement for a lower noise level, it should operate in the mute mode in the daytime and at night. In this case, three forced mute setting modes can be selected to ensure that the unit operates at the low noise mode all the time.

- Indoor unit mute mode

The indoor unit also adopts the DC inverter motor to implement stepless speed regulation and greatly reduce the noise level. Moreover, the wired controller can be used to set the automatic mute mode of indoor unit and enable the automatic mute function according to the indoor temperature and movements of persons.

## ➤ Advanced technology to ensure stability and reliability

Gree Photovoltaic Direct-driven Inverter Multi VRF series units have earned a reputation in the field due to the high technical content. Thanks to research and experiments for more than one decade, all the technologies of GMV have become more matured. Gree Photovoltaic Direct-driven Inverter Multi VRF has been upgraded in an all-round way, including electric elements, machine elements, control technology and communication technology. Continuous revolution in technologies must bring more reliable and efficient service to users.

- ◆ Oil return control of new generation

Gree oil return control technology of new generation integrates the pressure control oil return technology. Pressure control effectively controls oil return of the system and the oil storage status of each compressor, thus substantially increasing the service life of the compressor.

- ◆ Proprietary compressor oil storage technology

Gree DC inverter unit is designed with the proprietary compressor oil storage technology. The relevant parameter is judged to control the lowest oil level required for operating the compressor.

- Refrigerant storage and distribution technology

Gree Photovoltaic Direct-driven Inverter Multi VRF adopts the system loop without any reservoir to greatly reduce the refrigerant filling quantity, improve the refrigerant control precision of the system, and store the surplus refrigerant in the pipeline.

- ◆ Inter-compressor oil balance technology

Refrigerant is sucked into the compression chamber of the compressor through the air suction pipe, discharged to the fully-closed compressor cavity after being compressed, and then flows through the refrigerating system via the vent pipe. According to the principle of moving fluid mechanics and the oil quantity actually required during operation of the compressor, the technology decides the height of the oil balance pipe, controls the oil level in the oil pool, ensures the minimum oil quantity required by each compressor during operation, and implements oil balance between compressors.

- Unique comfortability control

The outdoor unit is regulated using dual electronic expansion valves within the regulation range of 960 stages to accurately realize the flow control between the indoor unit module and outdoor unit module, so the system operates more stably.

Heating can start quickly.

## ➤ Humanized engineering operation

- The unit is characterized by automatic address allocation and non-polarity communication.

- The unit can perform automatic debugging and fault detection.

Photovoltaic Direct-driven Inverter Multi VRF has five automatic debugging functions.

- ◆ Automatically allocating indoor and outdoor unit addresses

- ◆ Automatically checking the quantities of indoor and outdoor units

- ◆ Automatically detecting internal faults of units
- ◆ Automatically starting debugging
- ◆ Judging pipeline exceptions in real time
- The units provide three emergency functions: module, compressor and fan.
- The units can recover refrigerants in two modes.

### ➤ **Intelligent management**

- The units are designed in the dual-energy saving operation modes.  
Along with penetration of energy conservation and emission reduction and increasingly strict requirements for power utilization in cities raised by the state, a lot of cities will issue corresponding power rationing measures in the peak of power consumption, especially in summer. Gree Photovoltaic Direct-driven Inverter Multi VRF conditioning units unit provides two energy saving modes for users to select as needed and meets the requirements for off-peak power consumption and power brownout in cities.
  - ◆ Energy saving mode 1: When the unit is set to the automatic energy saving mode during operation, the system automatically adjusts and controls the target parameter according to the operating status, and greatly reduces power consumption of the whole system.
  - ◆ Energy saving mode 2: When the unit is set to the forced energy saving mode during operation, the system forcedly limits power output of the system.
- The unit is provided with the energy consumption analysis function and corresponding solution.
- The unit supports the emergency shutdown function.  
Without remote monitoring, the outdoor unit can directly intervene in the fire alarm linkage signal, and the whole system can stop immediately in case of an emergency to avoid more risk losses.
- The unit has the management function by area.

### ➤ **Ultra-long piping distance design, with the maximum piping length of 1000m(3280-7/8ft.)**

In comparison to the traditional water chilling unit, the VRF unit shows the strength of simple and convenient engineering piping. Gree Photovoltaic Direct-driven Inverter Multi VRF unit more significantly displays the strength of actual engineering piping, and the air conditioning system can be flexibly applied to various buildings more simply and freely, reducing the engineering installation cost for users.

### ➤ **A single refrigerating system, able to connect to a maximum of 80 indoor units**

Gree Photovoltaic Direct-driven Inverter Multi VRF can implement combination of module units and connect to a maximum of 61 indoor units (the quantity of connected units ranks first in the field). It is more applicable to large-sized commercial office buildings or apart-hotels.

### ➤ **Wide operation range**

Operating temperature range: -5°C(23°F) to 52°C(125.6°F) for cooling; -20°C (-4°F) to 24°C (75.2°F) for heating.

### ➤ **Module switching control**

The module status automatically switches between modules every eight hours according to the operating status. This avoids long-term “waiting for work” of several modules and greatly improves reliability of the whole system.

### ➤ **High static pressure design of the outdoor unit to realize more flexible selection**

The unit is provided with four levels of static pressures (0 in.W.G., 0.12 in.W.G., 0.20 in.W.G., and 0.33

in.W.G.) for regulation. The corresponding static pressure can be selected for the outdoor unit according to the building form, and the maximum static pressure is 0.33 in.W.G.. The unit especially applies to the scenario where the outdoor unit needs to be placed indoors.

## 1.3 Nomenclature

| GMV | □ | - | □ | □ | □ | □ | □ | W | □ | / | □  | □  | □  | (□) |
|-----|---|---|---|---|---|---|---|---|---|---|----|----|----|-----|
| 1   | 2 |   | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   | 10 | 11 | 12 | 13  |

| No. | Description              | Options  |
|-----|--------------------------|--|
| 1   | Product code             | GMV—Gree Multi VRF Units   |
| 2   | Suitable climate         | Blank—T1 condition; T2—Low temperature climate; T3—High temperature climate  |
| 3   | RAC or CAC               | RAC—H<br>CAC—Default   |
| 4   | Special function         | G—High sensible heat<br>V—Low-temperature heat pump<br>Default—Without special function  |
| 5   | Unit type                | DC inverter—Default<br>Y—Solar power   |
| 6   | Function code            | Q—Heat Recovery; S—Water Heater; W—Water-cooled Unit; X—Fresh Air Unit<br>Z—Reheat dehumidifier<br>Default—If above functions are unavailable. |
| 7   | Code of cooling capacity | Nominal capacity*1000(Btu/h)   |
| 8   | Code for outdoor unit    | W—Outdoor unit   |
| 9   | Unit structure           | M—Modular (top discharge); L—Non-modular (side discharge); Default—Non-modular (top discharge)   |
| 10  | Refrigerant              | R410A (omit)   |
| 11  | Design No.               | Named in order of A, B, C, or combined with 1, 2, 3...   |
| 12  | Power supply             | F—208/230V-3ph-60Hz;<br>U—440/460V-3ph-60Hz;<br>T—208/230V-1ph-60Hz  |
| 13  | Special code             | For special area; leave blank if it is not for special area  |

## 2 UNIT PARAMETERS

| Outdoor Units_Heat Pump                | —                 | 6Ton                  | 8Ton                  | 10Ton                 |
|--|-------------------|-----------------------|-----------------------|-----------------------|
| Model                                  | —                 | GMV-Y72WM/C-F(U)      | GMV-Y96WM/C-F(U)      | GMV-Y120WM/C-F(U)     |
| Module (combined)                      | —                 | —                     | —                     | —                     |
| Cooling capacity                       | Btu/h             | 72000                 | 96000                 | 120000                |
| Heating capacity                       | Btu/h             | 81000                 | 108000                | 135000                |
| Air volume                             | CFM               | 6710                  | 8240                  | 8240                  |
| Max. external static pressure          | Pa                | 82                    | 82                    | 82                    |
| Noise (sound level)                    | dB(A)             | 60                    | 61                    | 63                    |
| Power                                  |                   | 208/240V 3~ 60Hz      | 208/240V 3~ 60Hz      | 208/240V 3~ 60Hz      |
| Input power for cooling                | kW                | 5.45                  | 7.30                  | 10.00                 |
| Input power for heating                | kW                | 5.80                  | 7.85                  | 10.50                 |
| Input current for cooling              | A                 | 16.42                 | 20.37                 | 26.27                 |
| Input current for heating              | A                 | 17.29                 | 23.50                 | 27.87                 |
| MOP                                    | A                 | 45(208V)/40(240V)     | 45(208V)/40(240V)     | 45(208V)/40(240V)     |
| MCA                                    | A                 | 35.3(208V)/30.3(240V) | 43.6(208V)/37.3(240V) | 44.8(208V)/39.8(240V) |
| Compressor type                        | —                 | Inverter Scroll       | Inverter Scroll       | Inverter Scroll       |
| Compressor quantity                    | N                 | 1                     | 1                     | 1                     |
| Refrigeration oil no. of compressor    | —                 | FVC68D or FV68H       | FVC68D or FV68H       | FVC68D or FV68H       |
| Oil Charge                             | Compressor        | L                     | 1.1                   | 1.1                   |
|  | Oil separate tank | L                     | 3.5                   | 4                     |
|  | Total             | L                     | 4.6                   | 5.1                   |
| Ambient temperature range for cooling  | °F                | 23~125.6              | 23~125.6              | 23~125.6              |
| Ambient temperature range of heating   | °F                | -4~75                 | -4~75                 | -4~75                 |
| Refrigerant type                       | —                 | R410A                 | R410A                 | R410A                 |
| Charging volume of refrigerant         | oz                | 229.3                 | 398.6                 | 416.2                 |
| Max. quantity of connected indoor unit | unit              | 13                    | 16                    | 19                    |
| Size of gas pipe                       | in.               | Φ3/4                  | Φ7/8                  | Φ1-1/8                |
| Size of liquid pipe                    | in.               | Φ3/8                  | Φ3/8                  | Φ1/2                  |
| Size of oil-balanced pipe              | in.               | Φ3/8                  | Φ3/8                  | Φ3/8                  |
| Outline dimension(W×D×H)               | in.               | 36-5/8×30-1/8×63-1/4  | 52-3/4×30-1/8×63-1/4  | 52-3/4×30-1/8×63-1/4  |
| Packing size(W×D×H)                    | in.               | 39-3/4×33-1/8×69-7/8  | 55-7/8×33-1/8×69-7/8  | 55-7/8×33-1/8×69-7/8  |
| Net weight (Not include converter)     | LBS               | 487                   | 650                   | 650                   |
| Gross weight (Not include converter)   | LBS               | 514                   | 683                   | 683                   |



# GMV5 DC Inverter VRF Units Technical Sales Guide

| Outdoor Units_Heat Pump                | —     | 12Ton                                 | 14Ton   | 16Ton                                 |
|--|-------|---------------------------------------|---|---------------------------------------|
| Model                                  | —     | GMV-Y144WM/C-F(U)                     | GMV-Y168WM/C-F(U)                                 | GMV-Y192WM/C-F(U)                     |
| Module (combined)                      | —     | GMV-Y72WM/C-F(U)+<br>GMV-Y72WM/C-F(U) | GMV-Y72WM/C-F(U)+<br>GMV-Y96WM/C-F(U)             | GMV-Y96WM/C-F(U)+<br>GMV-Y96WM/C-F(U) |
| Cooling capacity                       | Btu/h | 144000                                | 168000  | 192000                                |
| Heating capacity                       | Btu/h | 162000                                | 189000  | 216000                                |
| Air volume                             | CFM   | 6710+6710                             | 6710+8240   | 8240+8240                             |
| Max. external static pressure          | Pa    | 82                                    | 82  | 82                                    |
| Power                                  |       | 208/240V 3~ 60Hz                      | 208/240V 3~ 60Hz                                  | 208/240V 3~ 60Hz                      |
| Input power for cooling                | kW    | 5.45+5.45                             | 5.45+7.3  | 7.3+7.3                               |
| Input power for heating                | kW    | 5.80+5.80                             | 5.80+7.85   | 7.85+7.85                             |
| Input current for cooling              | A     | 16.42+16.42                           | 16.42+20.37                                       | 20.37+20.37                           |
| Input current for heating              | A     | 17.29+17.29                           | 17.29+23.50                                       | 23.50+23.50                           |
| MOP                                    | A     | 208V:45+45<br>240V:40+40              | 208V:45+45<br>240V:40+40                          | 208V:45+45<br>240V:40+40              |
| MCA                                    | A     | 208V:35.3+35.3<br>240V:30.3+30.3      | 208V:35.3+43.6<br>240V:30.3+37.3                  | 208V:43.6+43.6<br>240V:37.3+37.3      |
| Refrigeration oil no. of compressor    | —     | FVC68D or FV68H                       | FVC68D or FV68H                                   | FVC68D or FV68H                       |
| Ambient temperature range for cooling  | °F    | 23~125.6                              | 23~125.6  | 23~125.6                              |
| Ambient temperature range of heating   | °F    | -4~75                                 | -4~75   | -4~75                                 |
| Refrigerant type                       | —     | R410A                                 | R410A   | R410A                                 |
| Charging volume of refrigerant         | oz    | 229.3+229.3                           | 229.3+398.6                                       | 398.6+398.6                           |
| Max. quantity of connected indoor unit | unit  | 23                                    | 29  | 33                                    |
| Size of gas pipe                       | in.   | Φ1-1/8                                | Φ1-1/8  | Φ1-1/8                                |
| Size of liquid pipe                    | in.   | Φ1/2                                  | Φ5/8  | Φ5/8                                  |
| Size of oil-balanced pipe              | in.   | Φ3/8                                  | Φ3/8  | Φ3/8                                  |
| Outline dimension(W×D×H)               | in.   | (36-5/8×30-1/8×63-1/4)×2              | (36-5/8×30-1/8×63-1/4)<br>+(52-3/4×30-1/8×63-1/4) | (52-3/4×30-1/8×63-1/4)×2              |
| Packing size(W×D×H)                    | in.   | /                                     | /   | /                                     |
| Net weight                             | LBS   | 487+487                               | 487+650   | 650+650                               |
| Gross weight                           | LBS   | 514+514                               | 514+683   | 683+683                               |

| Outdoor Units_Heat Pump                | —     | 18Ton                                  | 20Ton                                   | 22Ton  |
|--|-------|--|---|--|
| Model                                  | —     | GMV-Y216WM/C-F(U)                      | GMV-Y240WM/C-F(U)                       | GMV-Y264WM/C-F(U)  |
| Module (combined)                      | —     | GMV-Y96WM/C-F(U)+<br>GMV-Y120WM/C-F(U) | GMV-Y120WM/C-F(U)+<br>GMV-Y120WM/C-F(U) | GMV-Y72WM/C-F(U)+<br>GMV-Y96WM/C-F(U)+<br>GMV-Y96WM/C-F(U) |
| Cooling capacity                       | Btu/h | 216000                                 | 240000                                  | 264000   |
| Heating capacity                       | Btu/h | 243000                                 | 270000                                  | 297000   |
| Air volume                             | CFM   | 8240+8240                              | 8240+8240                               | 6710+8240+8240   |
| Max. external static pressure          | Pa    | 82                                     | 82                                      | 82   |
| Power                                  |       | 208/240V 3~ 60Hz                       | 208/240V 3~ 60Hz                        | 208/240V 3~ 60Hz   |
| Input power for cooling                | kW    | 7.30+10.00                             | 10.00+10.00                             | 5.45+7.3+7.3   |
| Input power for heating                | kW    | 7.85+10.50                             | 10.50+10.50                             | 5.80+7.85+7.85   |
| Input current for cooling              | A     | 20.37+26.27                            | 26.27+26.27                             | 16.42+20.37+20.37  |
| Input current for heating              | A     | 23.50+27.87                            | 27.87+27.87                             | 17.29+23.50+23.50  |
| MOP                                    | A     | 208V:45+45<br>240V:40+40               | 208V:45+45<br>240V:40+40                | 208V:45+45+45<br>240V:40+40+40                             |
| MCA                                    | A     | 208V:43.6+44.8<br>240V:37.3+39.8       | 208V:44.8+44.8<br>240V:39.8+39.8        | 208V:35.3+43.6+43.6<br>240V:30.3+37.3+37.3                 |
| Refrigeration oil no. of compressor    | —     | FVC68D or FV68H                        | FVC68D or FV68H                         | FVC68D or FV68H  |
| Ambient temperature range for cooling  | °F    | 23~125.6                               | 23~125.6                                | 23~125.6   |
| Ambient temperature range of heating   | °F    | -4~75                                  | -4~75                                   | -4~75  |
| Refrigerant type                       | —     | R410A                                  | R410A                                   | R410A  |
| Charging volume of refrigerant         | oz    | 398.6+416.2                            | 416.2+416.2                             | 229.3+398.6+398.6  |
| Max. quantity of connected indoor unit | unit  | 36                                     | 39                                      | 46   |
| Size of gas pipe                       | in.   | Φ1-1/8                                 | Φ1-3/8                                  | Φ1-3/8   |
| Size of liquid pipe                    | in.   | Φ5/8                                   | Φ5/8                                    | Φ3/4   |
| Size of oil-balanced pipe              | in.   | Φ3/8                                   | Φ3/8                                    | Φ3/8   |
| Outline dimension(W×D×H)               | in.   | (52-3/4×30-1/8×63-1/4)×2               | (52-3/4×30-1/8×63-1/4)×2                | (36-5/8×30-1/8×63-1/4)+<br>(52-3/4×30-1/8×63-1/4)×2        |
| Net weight                             | LBS   | 650+650                                | 650+650                                 | 487+650+650  |
| Gross weight                           | LBS   | 683+683                                | 683+683                                 | 514+683+683  |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Outdoor Units_Heat Pump                | —     | 24Ton  | 26Ton   | 28Ton  | 30Ton   |
|--|-------|--|---|--|---|
| Model                                  | —     | GMV-Y288WM/C-F(U)  | GMV-Y312WM/C-F(U)   | GMV-Y336WM/C-F(U)  | GMV-Y360WM/C-F(U)   |
| Module (combined)                      | —     | GMV-Y96WM/C-F(U)+<br>GMV-Y96WM/C-F(U)+<br>GMV-Y96WM/C-F(U) | GMV-Y96WM/C-F(U)<br>+GMV-Y96WM/C-F(U)<br>+GMV-Y120WM/C-F(U) | GMV-Y96WM/C-F(U)<br>+GMV-Y120WM/C-F(U)<br>+GMV-Y120WM/C-F(U) | GMV-Y120WM/C-F(U)<br>+GMV-Y120WM/C-F(U)<br>+GMV-Y120WM/C-F(U) |
| Cooling capacity                       | Btu/h | 288000   | 312000  | 336000   | 360000  |
| Heating capacity                       | Btu/h | 324000   | 351000  | 378000   | 405000  |
| Air volume                             | CFM   | 8240+8240+8240   | 8240+8240+8240  | 8240+8240+8240   | 8240+8240+8240  |
| Max. external static pressure          | Pa    | 82   | 82  | 82   | 82  |
| Power                                  |       | 208/240V 3~ 60Hz   | 208/240V 3~ 60Hz  | 208/240V 3~ 60Hz   | 208/240V 3~ 60Hz  |
| Input power for cooling                | kW    | 7.30+7.30+7.30   | 7.30+7.30+10.00   | 7.30+10.00+10.00   | 10.00+10.00+10.00   |
| Input power for heating                | kW    | 7.85+7.85+7.85   | 7.85+7.85+10.50   | 7.85+10.50+10.50   | 10.50+10.50+10.50   |
| Input current for cooling              | A     | 20.37+20.37+20.37  | 20.37+20.37+26.27   | 20.37+26.27+26.27  | 26.27+26.27+26.27   |
| Input current for heating              | A     | 23.50+23.50+23.50  | 23.50+23.50+27.87   | 23.50+27.87+27.87  | 27.87+27.87+27.87   |
| MOP                                    | A     | 208V:45+45+45<br>240V:40+40+40                             | 208V:45+45+45<br>240V:40+40+40                              | 208V:45+45+45<br>240V:40+40+40                               | 208V:45+45+45<br>240V:40+40+40                                |
| MCA                                    | A     | 208V:43.6+43.6+43.6<br>240V:37.3+37.3+37.3                 | 208V:43.6+43.6+44.8<br>240V:37.3+37.3+39.8                  | 208V:43.6+44.8+44.8<br>240V:37.3+39.8+39.8                   | 208V:44.8+44.8+44.8<br>240V:39.8+39.8+39.8                    |
| Refrigeration oil no. of compressor    | —     | FVC68D or FV68H  | FVC68D or FV68H   | FVC68D or FV68H  | FVC68D or FV68H   |
| Ambient temperature range for cooling  | °F    | 23~125.6   | 23~125.6  | 23~125.6   | 23~125.6  |
| Ambient temperature range of heating   | °F    | -4~75  | -4~75   | -4~75  | -4~75   |
| Refrigerant type                       | —     | R410A  | R410A   | R410A  | R410A   |
| Charging volume of refrigerant         | oz    | 398.6+398.6+398.6  | 398.6+398.6+416.2   | 398.6+416.2+416.2  | 416.2+416.2+416.2   |
| Max. quantity of connected indoor unit | unit  | 50   | 53  | 56   | 59  |
| Size of gas pipe                       | in.   | Φ1-3/8   | Φ1-3/8  | Φ1-3/8   | Φ1-5/8  |
| Size of liquid pipe                    | in.   | Φ3/4   | Φ3/4  | Φ3/4   | Φ3/4  |
| Size of oil-balanced pipe              | in.   | Φ3/8   | Φ3/8  | Φ3/8   | Φ3/8  |
| Outline dimension(W×D×H)               | in.   | (52-3/4×30-1/8×63-1/4)×3                                   | (52-3/4×30-1/8×63-1/4)×3                                    | (52-3/4×30-1/8×63-1/4)×3                                     | (52-3/4×30-1/8×63-1/4)×3                                      |
| Packing size(W×D×H)                    | in.   | /  | /   | /  | /   |
| Net weight                             | LBS   | 650+650+650  | 650+650+650   | 650+650+650  | 650+650+650   |
| Gross weight                           | LBS   | 683+683+683  | 683+683+683   | 683+683+683  | 683+683+683   |

**NOTICES:**

- (1) Rated Capacity=Rated in accordance with AHRI Standard 1230.  
Nominal Capacity=Outside the scope of AHRI Standard 1230 and base on the follow conditions:  
Cooling:indoor temp.80°F(26.7°C) DB/67°F(19.4°C)WB, outdoor temp.95°F(35°C) DB.  
Heating:indoor temp.70°F(21.1°C) DB, outdoor temp.47°F(8.3°C) DB/43°F(6.1°C) WB.  
Piping length: 25ft(7.6) m, without height drop between units.
- (2)The total capacity of connected indoor units must be in the range of 50%~135% of the outdoor unit capacity. The relevant parameters can be corrected by referring to the unit capacity correction table.
- (3)Wiring cable size must comply with the applicable and national code.
- (4)Due to continuing improvement,above specifications may be subject to change without notice.
- (5)Combinated modules are under development.Gree reserves the right to modify the specifications without prior notice.
- (6) Conversion Formula:  
 $kcal/h = kW \times 860$   
 $Btu/h = kW \times 3412$   
 $CFM = m^3/h \times 0.588$   
 $lb = kg / 0.4536$

## 3 ELECTRICAL SPECIFICATIONS

Circuit Breaker and Wire Diameter Selection of Photovoltaic Direct-driven Inverter Multi VRF Units.

### 3.1 Outdoor Unit (208V)

| Outdoor units     | Power Supply | Fuse Capacity | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|-------------------|--------------|---------------|--------------------------|--------------------------------|
|                   | V/ Ph /Hz    | A             | A                        | A                              |
| GMV-Y72WM/C-F(U)  | 208V 3~ 60Hz | 45            | 35.3                     | 45                             |
| GMV-Y96WM/C-F(U)  | 208V 3~ 60Hz | 45            | 43.6                     | 45                             |
| GMV-Y120WM/C-F(U) | 208V 3~ 60Hz | 45            | 44.8                     | 45                             |
| GMV-Y144WM/C-F(U) | 208V 3~ 60Hz | 45+45         | 35.3+35.3                | 45+45                          |
| GMV-Y168WM/C-F(U) | 208V 3~ 60Hz | 45+45         | 35.3+43.6                | 45+45                          |
| GMV-Y192WM/C-F(U) | 208V 3~ 60Hz | 45+45         | 43.6+43.6                | 45+45                          |
| GMV-Y216WM/C-F(U) | 208V 3~ 60Hz | 45+45         | 43.6+44.8                | 45+45                          |
| GMV-Y240WM/C-F(U) | 208V 3~ 60Hz | 45+45         | 44.8+44.8                | 45+45                          |
| GMV-Y264WM/C-F(U) | 208V 3~ 60Hz | 45+45+45      | 35.3+43.6+43.6           | 45+45+45                       |
| GMV-Y288WM/C-F(U) | 208V 3~ 60Hz | 45+45+45      | 43.6+43.6+43.6           | 45+45+45                       |
| GMV-Y312WM/C-F(U) | 208V 3~ 60Hz | 45+45+45      | 43.6+43.6+44.8           | 45+45+45                       |
| GMV-Y336WM/C-F(U) | 208V 3~ 60Hz | 45+45+45      | 43.6+44.8+44.8           | 45+45+45                       |
| GMV-Y360WM/C-F(U) | 208V 3~ 60Hz | 45+45+45      | 44.8+44.8+44.8           | 45+45+45                       |

### 3.2 Outdoor Unit (240V)

| Outdoor units     | Power Supply | Fuse Capacity | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|-------------------|--------------|---------------|--------------------------|--------------------------------|
|                   | V/ Ph /Hz    | A             | A                        | A                              |
| GMV-Y72WM/C-F(U)  | 240V 3~ 60Hz | 40            | 30.3                     | 40                             |
| GMV-Y96WM/C-F(U)  | 240V 3~ 60Hz | 40            | 37.3                     | 40                             |
| GMV-Y120WM/C-F(U) | 240V 3~ 60Hz | 40            | 39.8                     | 40                             |

| Outdoor units     | Power Supply | Fuse Capacity | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|-------------------|--------------|---------------|--------------------------|--------------------------------|
|                   | V/ Ph /Hz    | A             | A                        | A                              |
| GMV-Y144WM/C-F(U) | 240V 3~ 60Hz | 40+40         | 30.3+30.3                | 40+40                          |
| GMV-Y168WM/C-F(U) | 240V 3~ 60Hz | 40+40         | 30.3+37.3                | 40+40                          |
| GMV-Y192WM/C-F(U) | 240V 3~ 60Hz | 40+40         | 37.3+37.3                | 40+40                          |
| GMV-Y216WM/C-F(U) | 240V 3~ 60Hz | 40+40         | 37.3+39.8                | 40+40                          |
| GMV-Y240WM/C-F(U) | 240V 3~ 60Hz | 40+40         | 39.8+39.8                | 40+40                          |
| GMV-Y264WM/C-F(U) | 240V 3~ 60Hz | 40+40+40      | 30.3+37.3+37.3           | 40+40+40                       |
| GMV-Y288WM/C-F(U) | 240V 3~ 60Hz | 40+40+40      | 37.3+37.3+37.3           | 40+40+40                       |
| GMV-Y312WM/C-F(U) | 240V 3~ 60Hz | 40+40+40      | 37.3+37.3+39.8           | 40+40+40                       |
| GMV-Y336WM/C-F(U) | 240V 3~ 60Hz | 40+40+40      | 37.3+39.8+39.8           | 40+40+40                       |
| GMV-Y360WM/C-F(U) | 240V 3~ 60Hz | 40+40+40      | 39.8+39.8+39.8           | 40+40+40                       |

## NOTICES:

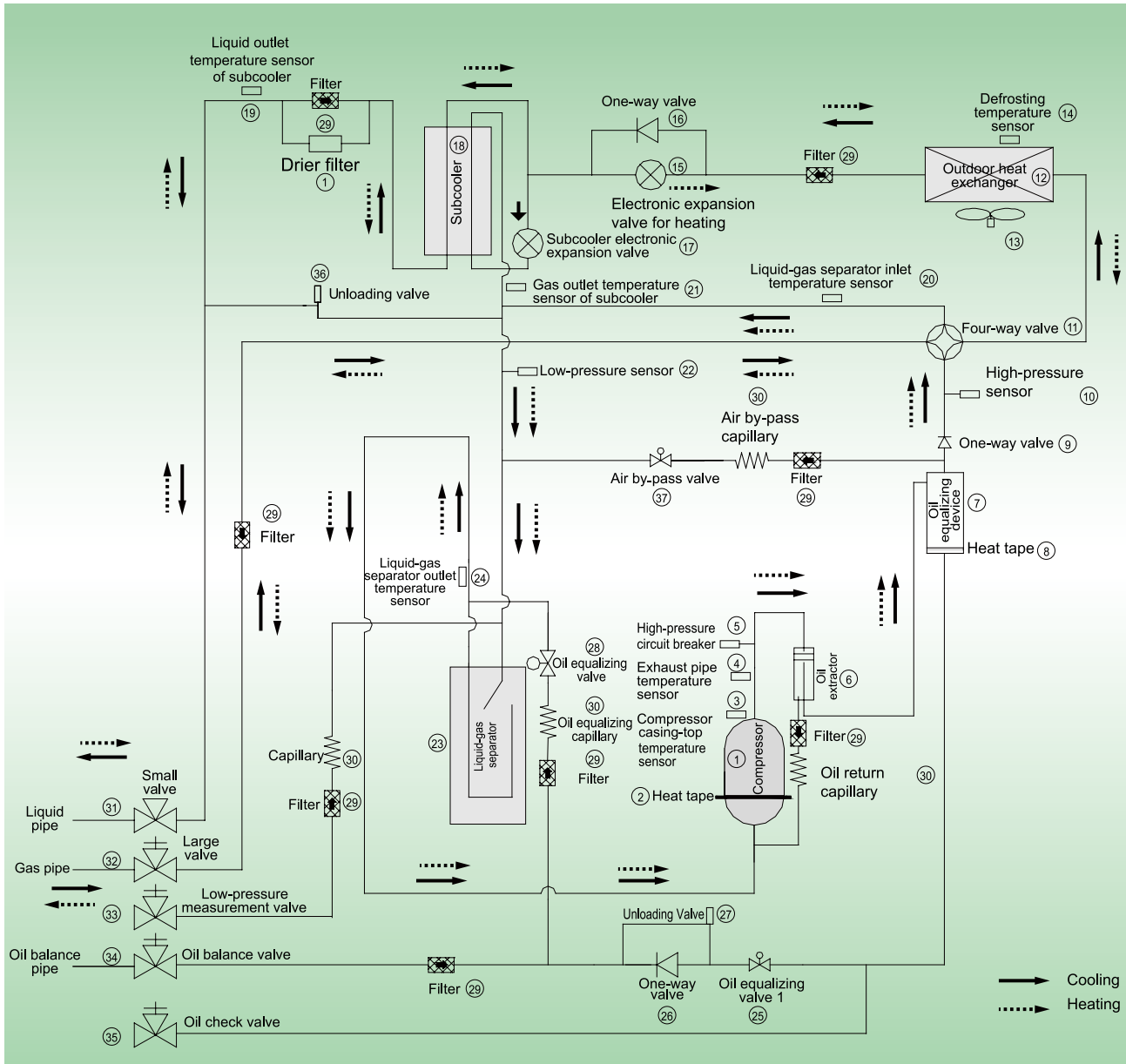
- (1) Specification of circuit breaker and power cord is selected on the basis of unit's maximum power (max. current).
- (2) Specification of power cord is based on the working condition where ambient temperature is 40 °C (104°F) and multi-core cable with copper conductor(working temperature is 90°C (194°F), e.g. power cable with YJV cross-linked copper, insulated PE and PVC sheath) is lying on the surface of slot. If working condition is different, please adjust the specification according to national standard.
- (3) Copper-core cable must be used.
- (4) The above sectional area is suitable for a maximum distance of 15m(49-1/5ft.). If it's over 15m(49-1/5ft.), sectional area must be expanded to prevent overload current from burning the wire or causing fire hazard.
- (5) Specification of circuit breaker is based on the working condition where the ambient temperature of circuit breaker is 40°C(104°F). If working condition is different, please adjust the specification according to national standard.
- (6) The air switch should include magnetic trip function and thermal trip function so that system can be protected from short circuit and overload.
- (7) An all-pole disconnection switch having a contact separation of at least 3mm(1/8in.) in all poles should be connected in fixed wiring.

# 4 COMBINATION MODE

| Model             | GMV-Y72WM/C-F(U) | GMV-Y96WM/C-F(U) | GMV-Y120WM/C-F(U) |
|-------------------|------------------|------------------|-------------------|
| GMV-Y72WM/C-F(U)  |                  |                  |                   |
| GMV-Y96WM/C-F(U)  |                  |                  |                   |
| GMV-Y120WM/C-F(U) |                  |                  |                   |
| GMV-Y144WM/C-F(U) |                  |                  |                   |
| GMV-Y168WM/C-F(U) |                  |                  |                   |
| GMV-Y192WM/C-F(U) |                  |                  |                   |
| GMV-Y216WM/C-F(U) |                  |                  |                   |
| GMV-Y240WM/C-F(U) |                  |                  |                   |
| GMV-Y264WM/C-F(U) |                  |                  |                   |
| GMV-Y288WM/C-F(U) |                  |                  |                   |
| GMV-Y312WM/C-F(U) |                  |                  |                   |
| GMV-Y336WM/C-F(U) |                  |                  |                   |
| GMV-Y360WM/C-F(U) |                  |                  |                   |

## 5 INTERNAL PIPING DESIGN OF THE UNITS

Piping diagrams of GMV-Y72WM/C-F(U)、GMV-Y96WM/C-F(U) and GMV-Y120WM/C-F(U):



**NOTICE:** The pressure balance valve is configured for the two compressors modules only.

# 6 UNIT CAPACITY CORRECTION

## 6.1 Correction of Capacity Along with Ambient Temperature and Configuration Ratio

- Cooling Capacity Calculation Method  
GMV-Y72WM/C-F(U)

TC—Total capacity of outdoor unit; PI—Power input of outdoor unit

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   |
| 135%        | 23.0                    | 63.3            | 2.41 | 75.3     | 2.94 | 87.4     | 2.97 | 90.8     | 2.99 | 92.4     | 3.00 | 94.8     | 3.04 | 97.2     | 3.07 |
|             | 32.0                    | 63.3            | 2.42 | 75.3     | 2.94 | 87.4     | 2.98 | 90.8     | 2.99 | 92.4     | 3.01 | 94.8     | 3.04 | 97.2     | 3.08 |
|             | 39.2                    | 63.3            | 2.43 | 75.3     | 2.95 | 87.4     | 2.99 | 90.8     | 3.00 | 92.4     | 3.02 | 94.8     | 3.06 | 97.2     | 3.09 |
|             | 44.6                    | 63.3            | 2.47 | 75.3     | 3.01 | 87.4     | 3.04 | 90.8     | 3.06 | 92.4     | 3.08 | 94.8     | 3.11 | 97.2     | 3.15 |
|             | 50.0                    | 63.3            | 2.51 | 75.3     | 3.07 | 87.4     | 3.65 | 90.8     | 3.73 | 91.8     | 3.66 | 94.1     | 3.51 | 96.4     | 3.34 |
|             | 53.6                    | 63.3            | 2.56 | 75.3     | 3.13 | 87.4     | 3.73 | 89.5     | 3.71 | 90.8     | 3.64 | 92.8     | 3.48 | 95.2     | 3.43 |
|             | 57.2                    | 63.3            | 2.61 | 75.3     | 3.19 | 87.2     | 3.77 | 88.5     | 3.70 | 89.5     | 3.62 | 91.8     | 3.59 | 94.1     | 3.62 |
|             | 60.8                    | 63.3            | 2.65 | 75.3     | 3.26 | 86.1     | 3.76 | 87.2     | 3.73 | 88.2     | 3.74 | 90.5     | 3.78 | 92.8     | 3.81 |
|             | 64.4                    | 63.3            | 2.70 | 75.3     | 3.32 | 84.9     | 3.90 | 85.9     | 3.92 | 87.2     | 3.94 | 89.5     | 3.98 | 91.8     | 4.01 |
|             | 68.0                    | 63.3            | 2.76 | 75.3     | 3.54 | 83.6     | 4.09 | 84.9     | 4.11 | 85.9     | 4.13 | 88.2     | 4.17 | 90.5     | 4.21 |
|             | 69.8                    | 63.3            | 2.84 | 75.3     | 3.66 | 83.1     | 4.18 | 84.3     | 4.20 | 85.4     | 4.23 | 87.7     | 4.27 | 90.0     | 4.31 |
|             | 73.4                    | 63.3            | 3.04 | 75.3     | 3.92 | 82.0     | 4.37 | 83.1     | 4.40 | 84.1     | 4.42 | 86.4     | 4.46 | 88.7     | 4.51 |
|             | 77.0                    | 63.3            | 3.25 | 75.3     | 4.20 | 80.7     | 4.56 | 82.0     | 4.59 | 83.1     | 4.62 | 85.4     | 4.66 | 87.7     | 4.70 |
|             | 80.6                    | 63.3            | 3.47 | 75.3     | 4.50 | 79.7     | 4.02 | 80.7     | 4.78 | 81.8     | 4.81 | 84.1     | 4.86 | 86.4     | 4.91 |
|             | 84.2                    | 63.3            | 3.70 | 75.3     | 4.81 | 78.4     | 4.95 | 79.5     | 4.98 | 80.7     | 5.01 | 83.1     | 5.06 | 85.4     | 5.11 |
|             | 87.8                    | 63.3            | 3.95 | 75.1     | 5.09 | 77.1     | 5.15 | 78.4     | 5.17 | 79.5     | 5.20 | 81.8     | 5.26 | 84.1     | 5.31 |
|             | 91.4                    | 63.3            | 4.21 | 73.8     | 5.28 | 76.1     | 5.33 | 77.1     | 5.37 | 78.4     | 5.39 | 80.7     | 5.45 | 82.8     | 5.52 |
|             | 95.0                    | 63.3            | 4.49 | 72.5     | 5.47 | 74.8     | 5.53 | 76.1     | 5.56 | 77.1     | 5.59 | 79.5     | 5.66 | 81.8     | 5.72 |
|             | 98.6                    | 63.3            | 4.78 | 71.5     | 5.67 | 73.8     | 5.73 | 74.8     | 5.76 | 76.1     | 5.80 | 78.2     | 5.87 | 80.5     | 5.93 |
|             | 102.2                   | 63.3            | 5.09 | 70.2     | 5.86 | 72.5     | 5.92 | 73.8     | 5.96 | 74.8     | 6.00 | 77.1     | 6.06 | 79.5     | 6.14 |
| 105.8       | 59.8                    | 5.66            | 68.9 | 6.89     | 71.1 | 6.97     | 72.4 | 6.45     | 73.4 | 6.49     | 75.6 | 6.57     | 77.9 | 6.63     |      |
| 111.2       | 55.7                    | 6.15            | 65.3 | 7.49     | 67.7 | 7.75     | 69.3 | 7.29     | 70.4 | 6.99     | 72.8 | 6.90     | 75.2 | 6.98     |      |
| 116.6       | 52.5                    | 8.19            | 63.1 | 9.97     | 65.5 | 8.14     | 66.8 | 7.40     | 67.9 | 7.44     | 70.3 | 7.41     | 72.8 | 7.49     |      |
| 122.0       | 48.1                    | 8.04            | 56.6 | 9.79     | 58.4 | 8.58     | 59.6 | 8.01     | 60.6 | 7.94     | 62.8 | 7.92     | 65.4 | 7.83     |      |
| 125.6       | 36.4                    | 6.78            | 42.1 | 8.26     | 43.8 | 7.31     | 44.9 | 7.29     | 46.3 | 7.16     | 50.1 | 7.07     | 53.2 | 6.86     |      |



# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   |
| 120%        | 23.0                    | 58.4            | 2.15 | 69.4     | 2.78 | 80.7     | 2.95 | 86.4     | 2.97 | 90.9     | 2.98 | 93.0     | 3.02 | 95.0     | 3.05 |
|             | 32.0                    | 58.4            | 2.15 | 69.4     | 2.78 | 80.7     | 2.96 | 86.4     | 2.97 | 90.9     | 2.99 | 93.0     | 3.02 | 95.0     | 3.05 |
|             | 39.2                    | 58.4            | 2.16 | 69.4     | 2.79 | 80.7     | 2.97 | 86.4     | 2.98 | 90.9     | 3.00 | 93.0     | 3.03 | 95.0     | 3.06 |
|             | 44.6                    | 58.4            | 2.20 | 69.4     | 2.85 | 80.7     | 3.02 | 86.4     | 3.04 | 90.9     | 3.06 | 93.0     | 3.09 | 95.0     | 3.12 |
|             | 50.0                    | 58.4            | 2.29 | 69.4     | 2.80 | 80.7     | 3.33 | 86.4     | 3.60 | 90.5     | 3.76 | 92.6     | 3.61 | 94.6     | 3.47 |
|             | 53.6                    | 58.4            | 2.34 | 69.4     | 2.85 | 80.7     | 3.40 | 86.4     | 3.67 | 89.2     | 3.73 | 91.3     | 3.59 | 93.3     | 3.45 |
|             | 57.2                    | 58.4            | 2.38 | 69.4     | 2.91 | 80.7     | 3.46 | 86.4     | 3.74 | 87.9     | 3.71 | 90.3     | 3.57 | 92.3     | 3.59 |
|             | 60.8                    | 58.4            | 2.43 | 69.4     | 2.97 | 80.7     | 3.53 | 85.9     | 3.77 | 86.9     | 3.72 | 89.0     | 3.76 | 91.0     | 3.79 |
|             | 64.4                    | 58.4            | 2.47 | 69.4     | 3.03 | 80.7     | 3.65 | 84.6     | 3.90 | 85.6     | 3.91 | 87.7     | 3.95 | 90.0     | 3.98 |
|             | 68.0                    | 58.4            | 2.52 | 69.4     | 3.15 | 80.7     | 3.92 | 83.6     | 4.09 | 84.6     | 4.10 | 86.7     | 4.14 | 88.7     | 4.17 |
|             | 69.8                    | 58.4            | 2.54 | 69.4     | 3.26 | 80.7     | 4.06 | 82.8     | 4.18 | 83.8     | 4.20 | 86.1     | 4.23 | 88.2     | 4.28 |
|             | 73.4                    | 58.4            | 2.72 | 69.4     | 3.49 | 80.7     | 4.35 | 81.8     | 4.37 | 82.8     | 4.39 | 84.9     | 4.43 | 86.9     | 4.47 |
|             | 77.0                    | 58.4            | 2.90 | 69.4     | 3.73 | 79.5     | 4.54 | 80.5     | 4.56 | 81.5     | 4.58 | 83.8     | 4.62 | 85.9     | 4.67 |
|             | 80.6                    | 58.4            | 3.10 | 69.4     | 3.99 | 78.4     | 4.73 | 79.5     | 4.76 | 80.5     | 4.78 | 82.5     | 4.82 | 84.6     | 4.87 |
|             | 84.2                    | 58.4            | 3.31 | 69.4     | 4.26 | 77.1     | 4.92 | 78.2     | 4.95 | 79.2     | 4.97 | 81.3     | 5.02 | 83.6     | 5.06 |
|             | 87.8                    | 58.4            | 3.53 | 69.4     | 4.55 | 76.1     | 5.12 | 77.1     | 5.14 | 78.2     | 5.17 | 80.2     | 5.22 | 82.3     | 5.27 |
|             | 91.4                    | 58.4            | 3.76 | 69.4     | 4.86 | 74.8     | 5.31 | 75.9     | 5.34 | 76.9     | 5.36 | 78.9     | 5.42 | 81.0     | 5.47 |
|             | 95.0                    | 58.4            | 4.00 | 69.4     | 5.17 | 73.5     | 5.50 | 74.6     | 5.53 | 75.9     | 5.56 | 77.9     | 5.62 | 80.0     | 5.67 |
|             | 98.6                    | 58.4            | 4.26 | 69.4     | 5.51 | 72.5     | 5.70 | 73.5     | 5.73 | 74.6     | 5.76 | 76.6     | 5.81 | 78.7     | 5.88 |
|             | 102.2                   | 58.4            | 4.53 | 69.2     | 5.82 | 71.2     | 5.89 | 72.3     | 5.92 | 73.3     | 5.95 | 75.6     | 6.02 | 77.7     | 6.08 |
| 105.8       | 55.2                    | 5.04            | 66.0 | 6.52     | 69.9 | 6.93     | 70.9 | 6.41     | 72.1 | 6.45     | 74.2 | 6.51     | 76.2 | 6.58     |      |
| 111.2       | 51.4                    | 5.48            | 62.5 | 7.09     | 66.6 | 7.70     | 67.9 | 7.24     | 69.3 | 6.95     | 71.4 | 6.85     | 73.6 | 6.92     |      |
| 116.6       | 48.5                    | 7.29            | 60.4 | 9.43     | 64.4 | 8.08     | 65.5 | 7.35     | 66.8 | 7.39     | 69.0 | 7.36     | 71.2 | 7.43     |      |
| 122.0       | 44.4                    | 7.16            | 54.2 | 9.26     | 57.4 | 8.52     | 58.4 | 7.96     | 59.6 | 7.89     | 61.6 | 7.86     | 64.0 | 7.77     |      |
| 125.6       | 33.6                    | 6.04            | 40.3 | 7.81     | 43.0 | 7.26     | 44.0 | 7.24     | 45.5 | 7.11     | 49.1 | 7.02     | 52.0 | 6.81     |      |
| 110%        | 23.0                    | 53.5            | 1.90 | 63.8     | 2.44 | 74.1     | 2.93 | 79.2     | 2.95 | 84.3     | 2.96 | 90.9     | 2.99 | 92.8     | 3.02 |
|             | 32.0                    | 53.5            | 1.90 | 63.8     | 2.45 | 74.1     | 2.94 | 79.2     | 2.95 | 84.3     | 2.97 | 90.9     | 3.00 | 92.8     | 3.03 |
|             | 39.2                    | 53.5            | 1.91 | 63.8     | 2.46 | 74.1     | 2.95 | 79.2     | 2.96 | 84.3     | 2.98 | 90.9     | 3.01 | 92.8     | 3.04 |
|             | 44.6                    | 53.5            | 1.94 | 63.8     | 2.50 | 74.1     | 3.00 | 79.2     | 3.02 | 84.3     | 3.04 | 90.9     | 3.06 | 92.8     | 3.09 |
|             | 50.0                    | 53.5            | 2.08 | 63.8     | 2.54 | 74.1     | 3.01 | 79.2     | 3.26 | 84.3     | 3.51 | 90.8     | 3.72 | 92.8     | 3.59 |
|             | 53.6                    | 53.5            | 2.12 | 63.8     | 2.59 | 74.1     | 3.07 | 79.2     | 3.32 | 84.3     | 3.57 | 89.7     | 3.70 | 91.5     | 3.57 |
|             | 57.2                    | 53.5            | 2.16 | 63.8     | 2.63 | 74.1     | 3.13 | 79.2     | 3.38 | 84.3     | 3.64 | 88.5     | 3.70 | 90.5     | 3.56 |
|             | 60.8                    | 53.5            | 2.20 | 63.8     | 2.68 | 74.1     | 3.19 | 79.2     | 3.45 | 84.3     | 3.71 | 87.4     | 3.73 | 89.2     | 3.76 |
|             | 64.4                    | 53.5            | 2.24 | 63.8     | 2.73 | 74.1     | 3.26 | 79.2     | 3.54 | 84.3     | 3.89 | 86.1     | 3.92 | 88.2     | 3.95 |
|             | 68.0                    | 53.5            | 2.29 | 63.8     | 2.79 | 74.1     | 3.45 | 79.2     | 3.81 | 83.1     | 4.08 | 85.1     | 4.11 | 86.9     | 4.15 |
|             | 69.8                    | 53.5            | 2.31 | 63.8     | 2.87 | 74.1     | 3.57 | 79.2     | 3.95 | 82.5     | 4.17 | 84.3     | 4.20 | 86.4     | 4.24 |
|             | 73.4                    | 53.5            | 2.42 | 63.8     | 3.08 | 74.1     | 3.83 | 79.2     | 4.23 | 81.3     | 4.36 | 83.3     | 4.40 | 85.1     | 4.44 |
|             | 77.0                    | 53.5            | 2.57 | 63.8     | 3.29 | 74.1     | 4.09 | 79.2     | 4.53 | 80.2     | 4.55 | 82.0     | 4.59 | 84.1     | 4.63 |
|             | 80.6                    | 53.5            | 2.75 | 63.8     | 3.52 | 74.1     | 4.38 | 77.9     | 4.73 | 78.9     | 4.74 | 81.0     | 4.78 | 82.8     | 4.83 |
|             | 84.2                    | 53.5            | 2.93 | 63.8     | 3.76 | 74.1     | 4.68 | 76.9     | 4.92 | 77.9     | 4.94 | 79.7     | 4.98 | 81.8     | 5.03 |
|             | 87.8                    | 53.5            | 3.12 | 63.8     | 4.01 | 74.1     | 5.00 | 75.6     | 5.11 | 76.6     | 5.13 | 78.7     | 5.17 | 80.5     | 5.23 |
|             | 91.4                    | 53.5            | 3.32 | 63.8     | 4.27 | 73.5     | 5.27 | 74.6     | 5.30 | 75.6     | 5.32 | 77.4     | 5.37 | 79.5     | 5.42 |
|             | 95.0                    | 53.5            | 3.54 | 63.8     | 4.55 | 72.5     | 5.46 | 73.3     | 5.49 | 74.3     | 5.52 | 76.1     | 5.57 | 78.2     | 5.62 |
|             | 98.6                    | 53.5            | 3.76 | 63.8     | 4.84 | 71.2     | 5.66 | 72.3     | 5.68 | 73.0     | 5.71 | 75.1     | 5.77 | 76.9     | 5.82 |
|             | 102.2                   | 53.5            | 4.00 | 63.8     | 5.16 | 69.9     | 5.85 | 71.0     | 5.88 | 72.0     | 5.91 | 73.8     | 5.97 | 75.9     | 6.03 |
| 105.8       | 50.5                    | 4.45            | 60.6 | 5.73     | 68.9 | 6.88     | 69.7 | 6.37     | 70.7 | 6.40     | 72.5 | 6.46     | 74.5 | 6.52     |      |
| 111.2       | 47.1                    | 4.84            | 57.4 | 6.23     | 65.6 | 7.65     | 66.7 | 7.19     | 67.9 | 6.90     | 69.7 | 6.80     | 71.9 | 6.86     |      |
| 116.6       | 44.4                    | 6.44            | 55.5 | 8.29     | 63.5 | 8.03     | 64.3 | 7.30     | 65.4 | 7.34     | 67.4 | 7.30     | 69.6 | 7.37     |      |
| 122.0       | 40.7                    | 6.33            | 49.7 | 8.14     | 56.6 | 8.46     | 57.4 | 7.91     | 58.3 | 7.84     | 60.1 | 7.80     | 62.5 | 7.70     |      |
| 125.6       | 30.8                    | 5.34            | 37.0 | 6.87     | 42.4 | 7.21     | 43.2 | 7.19     | 44.6 | 7.07     | 48.0 | 6.96     | 50.8 | 6.75     |      |

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   |
| 100%        | 23.0                    | 48.6            | 1.66 | 57.9     | 2.13 | 67.4     | 2.65 | 72.0     | 2.93 | 76.6     | 2.94 | 86.2     | 2.97 | 91.0     | 3.00 |
|             | 32.0                    | 48.6            | 1.66 | 57.9     | 2.13 | 67.4     | 2.66 | 72.0     | 2.93 | 76.6     | 2.95 | 86.2     | 2.98 | 91.0     | 3.00 |
|             | 39.2                    | 48.6            | 1.67 | 57.9     | 2.14 | 67.4     | 2.67 | 72.0     | 2.94 | 76.6     | 2.96 | 86.2     | 2.99 | 91.0     | 3.01 |
|             | 44.6                    | 48.6            | 1.70 | 57.9     | 2.18 | 67.4     | 2.71 | 72.0     | 3.00 | 76.6     | 3.01 | 86.2     | 3.04 | 91.0     | 3.07 |
|             | 50.0                    | 48.6            | 1.88 | 57.9     | 2.29 | 67.4     | 2.70 | 72.0     | 2.92 | 76.6     | 3.15 | 86.1     | 3.57 | 91.0     | 3.71 |
|             | 53.6                    | 48.6            | 1.91 | 57.9     | 2.32 | 67.4     | 2.74 | 72.0     | 2.96 | 76.6     | 3.21 | 86.1     | 3.63 | 89.7     | 3.68 |
|             | 57.2                    | 48.6            | 1.94 | 57.9     | 2.36 | 67.4     | 2.79 | 72.0     | 3.01 | 76.6     | 3.27 | 86.1     | 3.69 | 88.7     | 3.65 |
|             | 60.8                    | 48.6            | 1.98 | 57.9     | 2.41 | 67.4     | 2.85 | 72.0     | 3.08 | 76.6     | 3.35 | 85.8     | 3.78 | 87.4     | 3.73 |
|             | 64.4                    | 48.6            | 2.03 | 57.9     | 2.46 | 67.4     | 2.90 | 72.0     | 3.14 | 76.6     | 3.41 | 84.6     | 3.85 | 86.4     | 3.91 |
|             | 68.0                    | 48.6            | 2.06 | 57.9     | 2.50 | 67.4     | 3.00 | 72.0     | 3.30 | 76.6     | 3.63 | 83.3     | 4.05 | 85.1     | 4.11 |
|             | 69.8                    | 48.6            | 2.08 | 57.9     | 2.53 | 67.4     | 3.10 | 72.0     | 3.42 | 76.6     | 3.75 | 82.8     | 4.19 | 84.6     | 4.23 |
|             | 73.4                    | 48.6            | 2.13 | 57.9     | 2.70 | 67.4     | 3.34 | 72.0     | 3.67 | 76.6     | 4.03 | 81.8     | 4.43 | 83.3     | 4.47 |
|             | 77.0                    | 48.6            | 2.27 | 57.9     | 2.87 | 67.4     | 3.55 | 72.0     | 3.91 | 76.6     | 4.32 | 80.5     | 4.59 | 82.3     | 4.64 |
|             | 80.6                    | 48.6            | 2.42 | 57.9     | 3.07 | 67.4     | 3.81 | 72.0     | 4.19 | 76.6     | 4.63 | 79.2     | 4.76 | 81.0     | 4.80 |
|             | 84.2                    | 48.6            | 2.57 | 57.9     | 3.28 | 67.4     | 4.07 | 72.0     | 4.49 | 76.4     | 4.90 | 78.1     | 4.99 | 79.9     | 5.03 |
|             | 87.8                    | 48.6            | 2.73 | 57.9     | 3.49 | 67.4     | 4.34 | 72.0     | 4.83 | 75.4     | 5.10 | 76.3     | 5.19 | 78.7     | 5.23 |
|             | 91.4                    | 48.6            | 2.91 | 57.9     | 3.72 | 67.4     | 4.63 | 72.0     | 5.12 | 74.1     | 5.29 | 76.0     | 5.34 | 77.6     | 5.38 |
|             | 95.0                    | 48.6            | 3.09 | 57.9     | 3.96 | 67.4     | 4.94 | 72.0     | 5.45 | 72.8     | 5.48 | 74.5     | 5.53 | 76.3     | 5.58 |
|             | 98.6                    | 48.6            | 3.29 | 57.9     | 4.22 | 67.4     | 5.26 | 70.7     | 5.65 | 71.9     | 5.68 | 73.4     | 5.72 | 75.2     | 5.77 |
|             | 102.2                   | 48.6            | 3.51 | 57.9     | 4.49 | 67.4     | 5.60 | 69.8     | 5.84 | 70.1     | 5.87 | 72.5     | 5.91 | 73.4     | 5.96 |
| 105.8       | 45.9                    | 3.90            | 55.0 | 4.99     | 64.0 | 6.22     | 68.4 | 6.33     | 69.2 | 6.36     | 70.9 | 6.42     | 72.7 | 6.47     |      |
| 111.2       | 42.8                    | 4.24            | 52.1 | 5.42     | 61.0 | 6.91     | 65.5 | 7.14     | 66.4 | 6.85     | 68.3 | 6.75     | 70.2 | 6.81     |      |
| 116.6       | 40.3                    | 5.64            | 50.3 | 7.22     | 59.0 | 7.26     | 63.2 | 7.25     | 64.0 | 7.29     | 66.0 | 7.24     | 67.9 | 7.31     |      |
| 122.0       | 36.9                    | 5.53            | 45.1 | 7.09     | 52.6 | 7.65     | 56.4 | 7.85     | 57.1 | 7.78     | 58.9 | 7.74     | 61.1 | 7.64     |      |
| 125.6       | 28.0                    | 4.67            | 33.6 | 5.98     | 39.4 | 6.51     | 42.5 | 7.14     | 43.7 | 7.02     | 47.0 | 6.91     | 49.6 | 6.70     |      |
| 90%         | 23.0                    | 43.7            | 1.45 | 52.1     | 1.83 | 60.6     | 2.26 | 64.8     | 2.50 | 68.9     | 2.75 | 77.4     | 2.94 | 85.9     | 2.97 |
|             | 32.0                    | 43.7            | 1.45 | 52.1     | 1.84 | 60.6     | 2.27 | 64.8     | 2.51 | 68.9     | 2.76 | 77.4     | 2.95 | 85.9     | 2.98 |
|             | 39.2                    | 43.7            | 1.46 | 52.1     | 1.84 | 60.6     | 2.28 | 64.8     | 2.52 | 68.9     | 2.77 | 77.4     | 2.96 | 85.9     | 2.99 |
|             | 44.6                    | 43.7            | 1.48 | 52.1     | 1.88 | 60.6     | 2.32 | 64.8     | 2.56 | 68.9     | 2.82 | 77.4     | 3.02 | 85.9     | 3.04 |
|             | 50.0                    | 43.7            | 1.64 | 52.1     | 1.97 | 60.6     | 2.31 | 64.8     | 2.60 | 69.0     | 2.77 | 77.5     | 3.17 | 85.9     | 3.60 |
|             | 53.6                    | 43.7            | 1.66 | 52.1     | 2.00 | 60.6     | 2.34 | 64.8     | 2.64 | 69.0     | 2.82 | 77.5     | 3.23 | 85.9     | 3.64 |
|             | 57.2                    | 43.7            | 1.69 | 52.1     | 2.03 | 60.6     | 2.38 | 64.8     | 2.68 | 69.0     | 2.87 | 77.5     | 3.28 | 85.9     | 3.70 |
|             | 60.8                    | 43.7            | 1.73 | 52.1     | 2.08 | 60.6     | 2.43 | 64.8     | 2.74 | 69.0     | 2.94 | 77.5     | 3.36 | 85.6     | 3.77 |
|             | 64.4                    | 43.7            | 1.77 | 52.1     | 2.12 | 60.6     | 2.48 | 64.8     | 2.79 | 69.0     | 2.99 | 77.5     | 3.44 | 84.8     | 3.91 |
|             | 68.0                    | 43.7            | 1.80 | 52.1     | 2.16 | 60.6     | 2.56 | 64.8     | 2.85 | 69.0     | 3.12 | 77.5     | 3.69 | 83.3     | 4.07 |
|             | 69.8                    | 43.7            | 1.81 | 52.1     | 2.18 | 60.6     | 2.65 | 64.8     | 2.94 | 69.0     | 3.22 | 77.5     | 3.82 | 82.8     | 4.16 |
|             | 73.4                    | 43.7            | 1.86 | 52.1     | 2.33 | 60.6     | 2.85 | 64.8     | 3.16 | 69.0     | 3.45 | 77.5     | 4.10 | 81.5     | 4.38 |
|             | 77.0                    | 43.7            | 1.98 | 52.1     | 2.48 | 60.6     | 3.03 | 64.8     | 3.37 | 69.0     | 3.69 | 77.5     | 4.39 | 80.5     | 4.56 |
|             | 80.6                    | 43.7            | 2.11 | 52.1     | 2.65 | 60.6     | 3.25 | 64.8     | 3.60 | 69.0     | 3.95 | 77.5     | 4.68 | 79.2     | 4.76 |
|             | 84.2                    | 43.7            | 2.24 | 52.1     | 2.83 | 60.6     | 3.48 | 64.8     | 3.85 | 69.0     | 4.22 | 76.6     | 4.91 | 78.2     | 4.95 |
|             | 87.8                    | 43.7            | 2.38 | 52.1     | 3.01 | 60.6     | 3.71 | 64.8     | 4.11 | 69.0     | 4.50 | 75.3     | 5.08 | 76.9     | 5.15 |
|             | 91.4                    | 43.7            | 2.54 | 52.1     | 3.21 | 60.6     | 3.95 | 64.8     | 4.37 | 69.0     | 4.79 | 74.3     | 5.29 | 75.9     | 5.34 |
|             | 95.0                    | 43.7            | 2.70 | 52.1     | 3.41 | 60.6     | 4.22 | 64.8     | 4.66 | 69.0     | 5.12 | 73.0     | 5.48 | 74.6     | 5.53 |
|             | 98.6                    | 43.7            | 2.87 | 52.1     | 3.64 | 60.6     | 4.49 | 63.6     | 4.83 | 69.0     | 5.48 | 71.7     | 5.68 | 73.5     | 5.66 |
|             | 102.2                   | 43.7            | 3.06 | 52.1     | 3.87 | 60.6     | 4.78 | 62.8     | 4.98 | 69.0     | 5.81 | 70.7     | 5.89 | 72.3     | 5.87 |
| 105.8       | 41.3                    | 3.40            | 49.5 | 4.30     | 57.6 | 5.31     | 61.6 | 5.40     | 65.6 | 5.94     | 69.5 | 6.36     | 71.1 | 6.42     |      |
| 111.2       | 38.5                    | 3.70            | 46.9 | 4.68     | 54.9 | 5.90     | 59.0 | 6.10     | 63.0 | 6.40     | 66.9 | 6.69     | 68.6 | 6.75     |      |
| 116.6       | 36.3                    | 4.92            | 45.3 | 6.22     | 53.1 | 6.20     | 56.9 | 6.19     | 60.7 | 6.81     | 64.6 | 7.18     | 66.4 | 7.25     |      |
| 122.0       | 33.2                    | 4.83            | 40.6 | 6.11     | 47.4 | 6.53     | 50.7 | 6.71     | 54.1 | 7.27     | 57.7 | 7.67     | 59.7 | 7.58     |      |
| 125.6       | 25.2                    | 4.07            | 30.2 | 5.16     | 35.5 | 5.56     | 38.2 | 6.10     | 41.4 | 6.56     | 46.0 | 6.85     | 48.5 | 6.64     |      |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp (°FDB) | Indoor air temp |        |          |        |          |        |          |        |          |        |          |        |          |      |
|-------------|-------------------------|-----------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|------|
|             |                         | 57.2°FWB        |        | 60.8°FWB |        | 64.4°FWB |        | 66.2°FWB |        | 68°FWB   |        | 71.6°FWB |        | 75.2°FWB |      |
|             |                         | 68°FDB          |        | 73.4°FDB |        | 78.8°FDB |        | 80.6°FDB |        | 82.4°FDB |        | 86°FDB   |        | 89.6°FDB |      |
|             |                         | TC              | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI   |
|             | kBtu/h                  | kW              | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       |      |
| 80%         | 23.0                    | 38.9            | 1.25   | 46.3     | 1.54   | 53.9     | 1.92   | 57.6     | 2.11   | 61.2     | 2.31   | 68.9     | 2.74   | 76.4     | 2.94 |
|             | 32.0                    | 38.9            | 1.25   | 46.3     | 1.55   | 53.9     | 1.92   | 57.6     | 2.12   | 61.2     | 2.31   | 68.9     | 2.74   | 76.4     | 2.94 |
|             | 39.2                    | 38.9            | 1.26   | 46.3     | 1.55   | 53.9     | 1.93   | 57.6     | 2.12   | 61.2     | 2.32   | 68.9     | 2.75   | 76.4     | 2.95 |
|             | 44.6                    | 38.9            | 1.28   | 46.3     | 1.58   | 53.9     | 1.96   | 57.6     | 2.16   | 61.2     | 2.36   | 68.9     | 2.81   | 76.4     | 3.01 |
|             | 50.0                    | 38.9            | 1.49   | 46.3     | 1.79   | 53.9     | 2.10   | 57.6     | 2.26   | 61.3     | 2.42   | 68.9     | 2.77   | 76.4     | 3.22 |
|             | 53.6                    | 38.9            | 1.51   | 46.3     | 1.82   | 53.9     | 2.14   | 57.6     | 2.31   | 61.3     | 2.47   | 68.9     | 2.82   | 76.4     | 3.19 |
|             | 57.2                    | 38.9            | 1.54   | 46.3     | 1.85   | 53.9     | 2.18   | 57.6     | 2.34   | 61.3     | 2.52   | 68.9     | 2.87   | 76.4     | 3.26 |
|             | 60.8                    | 38.9            | 1.57   | 46.3     | 1.88   | 53.9     | 2.22   | 57.6     | 2.39   | 61.3     | 2.55   | 68.9     | 2.93   | 76.4     | 3.38 |
|             | 64.4                    | 38.9            | 1.59   | 46.3     | 1.92   | 53.9     | 2.27   | 57.6     | 2.44   | 61.3     | 2.60   | 68.9     | 3.00   | 76.4     | 3.62 |
|             | 68.0                    | 38.9            | 1.62   | 46.3     | 1.96   | 53.9     | 2.31   | 57.6     | 2.48   | 61.3     | 2.66   | 68.9     | 3.11   | 76.4     | 3.75 |
|             | 69.8                    | 38.9            | 1.64   | 46.3     | 1.97   | 53.9     | 2.33   | 57.6     | 2.51   | 61.3     | 2.72   | 68.9     | 3.22   | 76.4     | 4.01 |
|             | 73.4                    | 38.9            | 1.67   | 46.3     | 2.01   | 53.9     | 2.44   | 57.6     | 2.68   | 61.3     | 2.91   | 68.9     | 3.44   | 76.4     | 4.29 |
|             | 77.0                    | 38.9            | 1.72   | 46.3     | 2.14   | 53.9     | 2.61   | 57.6     | 2.86   | 61.3     | 3.11   | 68.9     | 3.68   | 76.4     | 4.58 |
|             | 80.6                    | 38.9            | 1.83   | 46.3     | 2.28   | 53.9     | 2.78   | 57.6     | 3.05   | 61.3     | 3.33   | 68.9     | 3.93   | 76.4     | 4.74 |
|             | 84.2                    | 38.9            | 1.95   | 46.3     | 2.43   | 53.9     | 2.96   | 57.6     | 3.25   | 61.1     | 3.55   | 68.9     | 4.20   | 76.4     | 4.91 |
|             | 87.8                    | 38.9            | 2.07   | 46.3     | 2.58   | 53.9     | 3.15   | 57.6     | 3.46   | 61.1     | 3.79   | 68.9     | 4.48   | 75.1     | 5.09 |
|             | 91.4                    | 38.9            | 2.20   | 46.3     | 2.87   | 53.9     | 3.36   | 57.6     | 3.69   | 61.1     | 4.04   | 68.9     | 4.78   | 74.1     | 5.27 |
|             | 95.0                    | 38.9            | 2.33   | 46.3     | 2.87   | 53.9     | 3.57   | 57.6     | 3.93   | 61.1     | 4.30   | 68.9     | 5.10   | 72.8     | 5.47 |
|             | 98.6                    | 38.9            | 2.47   | 46.3     | 3.09   | 53.9     | 3.80   | 56.6     | 4.19   | 61.1     | 4.58   | 68.9     | 5.43   | 71.7     | 5.67 |
|             | 102.2                   | 38.9            | 2.62   | 46.3     | 3.29   | 53.9     | 4.04   | 55.8     | 4.46   | 61.1     | 4.87   | 68.9     | 5.79   | 70.5     | 5.88 |
| 105.8       | 36.7                    | 2.94            | 44.0   | 3.62     | 51.2   | 4.50     | 54.8   | 4.56     | 58.1   | 4.99     | 65.6   | 5.92     | 69.4   | 6.34     |      |
| 111.2       | 34.2                    | 3.19            | 41.7   | 3.94     | 48.8   | 5.00     | 52.4   | 5.15     | 55.8   | 5.37     | 63.1   | 6.22     | 67.0   | 6.67     |      |
| 116.6       | 32.3                    | 4.25            | 40.3   | 5.24     | 47.2   | 5.25     | 50.6   | 5.23     | 53.8   | 5.72     | 61.0   | 6.68     | 64.8   | 7.16     |      |
| 122.0       | 29.6                    | 4.17            | 36.1   | 5.14     | 42.1   | 5.54     | 45.1   | 5.66     | 48.0   | 6.10     | 54.4   | 7.14     | 58.2   | 7.49     |      |
| 125.6       | 22.4                    | 3.52            | 26.8   | 4.34     | 31.5   | 4.72     | 34.0   | 5.15     | 36.7   | 5.50     | 43.4   | 6.38     | 47.3   | 6.56     |      |
| 70%         | 23.0                    | 34.0            | 1.07   | 40.5     | 1.32   | 47.2     | 1.60   | 50.4     | 1.75   | 53.7     | 1.91   | 60.2     | 2.25   | 66.9     | 2.62 |
|             | 32.0                    | 34.0            | 1.07   | 40.5     | 1.32   | 47.2     | 1.60   | 50.4     | 1.76   | 53.7     | 1.91   | 60.2     | 2.25   | 66.9     | 2.62 |
|             | 39.2                    | 34.0            | 1.07   | 40.5     | 1.33   | 47.2     | 1.61   | 50.4     | 1.76   | 53.7     | 1.92   | 60.2     | 2.26   | 66.9     | 2.63 |
|             | 44.6                    | 34.0            | 1.09   | 40.5     | 1.35   | 47.2     | 1.64   | 50.4     | 1.79   | 53.7     | 1.96   | 60.2     | 2.30   | 66.9     | 2.68 |
|             | 50.0                    | 34.0            | 1.32   | 40.5     | 1.56   | 47.2     | 1.82   | 50.4     | 1.96   | 53.6     | 2.09   | 60.3     | 2.38   | 66.9     | 2.68 |
|             | 53.6                    | 34.0            | 1.33   | 40.5     | 1.58   | 47.2     | 1.85   | 50.4     | 1.99   | 53.6     | 2.13   | 60.3     | 2.43   | 66.9     | 2.73 |
|             | 57.2                    | 34.0            | 1.35   | 40.5     | 1.61   | 47.2     | 1.88   | 50.4     | 2.02   | 53.6     | 2.17   | 60.3     | 2.47   | 66.9     | 2.78 |
|             | 60.8                    | 34.0            | 1.37   | 40.5     | 1.64   | 47.2     | 1.92   | 50.4     | 2.07   | 53.6     | 2.21   | 60.3     | 2.51   | 66.9     | 2.83 |
|             | 64.4                    | 34.0            | 1.40   | 40.5     | 1.67   | 47.2     | 1.96   | 50.4     | 2.10   | 53.6     | 2.25   | 60.3     | 2.57   | 66.9     | 2.89 |
|             | 68.0                    | 34.0            | 1.42   | 40.5     | 1.70   | 47.2     | 1.99   | 50.4     | 2.14   | 53.6     | 2.29   | 60.3     | 2.62   | 66.9     | 2.97 |
|             | 69.8                    | 34.0            | 1.43   | 40.5     | 1.71   | 47.2     | 2.01   | 50.4     | 2.16   | 53.6     | 2.32   | 60.3     | 2.65   | 66.9     | 3.07 |
|             | 73.4                    | 34.0            | 1.46   | 40.5     | 1.74   | 47.2     | 2.05   | 50.4     | 2.23   | 53.6     | 2.43   | 60.3     | 2.84   | 66.9     | 3.29 |
|             | 77.0                    | 34.0            | 1.48   | 40.5     | 1.82   | 47.2     | 2.18   | 50.4     | 2.39   | 53.6     | 2.59   | 60.3     | 3.04   | 66.9     | 3.52 |
|             | 80.6                    | 34.0            | 1.57   | 40.5     | 1.93   | 47.2     | 2.33   | 50.4     | 2.54   | 53.6     | 2.77   | 60.3     | 3.25   | 66.9     | 3.76 |
|             | 84.2                    | 34.0            | 1.67   | 40.5     | 2.05   | 47.2     | 2.48   | 50.4     | 2.71   | 53.6     | 2.95   | 60.3     | 3.46   | 66.9     | 4.02 |
|             | 87.8                    | 34.0            | 1.76   | 40.5     | 2.18   | 47.2     | 2.64   | 50.4     | 2.88   | 53.6     | 3.14   | 60.3     | 3.69   | 66.9     | 4.29 |
|             | 91.4                    | 34.0            | 1.87   | 40.5     | 2.32   | 47.2     | 2.81   | 50.4     | 3.06   | 53.6     | 3.34   | 60.3     | 3.93   | 66.9     | 4.57 |
|             | 95.0                    | 34.0            | 1.98   | 40.5     | 2.45   | 47.2     | 2.98   | 50.4     | 3.26   | 53.6     | 3.56   | 60.3     | 4.19   | 66.9     | 4.87 |
|             | 98.6                    | 34.0            | 2.09   | 40.5     | 2.60   | 47.2     | 3.17   | 49.5     | 3.47   | 53.6     | 3.79   | 60.3     | 4.46   | 66.9     | 5.19 |
|             | 102.2                   | 34.0            | 2.22   | 40.5     | 2.76   | 47.2     | 3.36   | 48.8     | 3.68   | 53.6     | 4.02   | 60.3     | 4.74   | 66.9     | 5.53 |
| 105.8       | 32.2                    | 2.50            | 38.5   | 3.09     | 44.8   | 3.75     | 47.9   | 3.79     | 51.0   | 4.13     | 57.4   | 4.86     | 63.7   | 5.65     |      |
| 111.2       | 29.9                    | 2.72            | 36.5   | 3.36     | 42.7   | 4.17     | 45.9   | 4.28     | 49.0   | 4.45     | 55.2   | 5.11     | 61.5   | 5.95     |      |
| 116.6       | 28.2                    | 3.62            | 35.2   | 4.48     | 41.3   | 4.38     | 44.3   | 4.34     | 47.2   | 4.73     | 53.4   | 5.49     | 59.5   | 6.38     |      |
| 122.0       | 25.9                    | 3.55            | 31.6   | 4.39     | 36.8   | 4.61     | 39.5   | 4.70     | 42.1   | 5.05     | 47.6   | 5.87     | 53.5   | 6.68     |      |
| 125.6       | 19.6                    | 3.00            | 23.5   | 3.71     | 27.6   | 3.93     | 29.7   | 4.28     | 32.2   | 4.55     | 38.0   | 5.24     | 43.5   | 5.85     |      |

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   |
| 60%         | 23.0                    | 29.2            | 0.90 | 34.7     | 1.09 | 40.4     | 1.31 | 43.2     | 1.43 | 46.0     | 1.55 | 51.7     | 1.81 | 57.3     | 2.09 |
|             | 32.0                    | 29.2            | 0.90 | 34.7     | 1.10 | 40.4     | 1.31 | 43.2     | 1.43 | 46.0     | 1.55 | 51.7     | 1.82 | 57.3     | 2.10 |
|             | 39.2                    | 29.2            | 0.90 | 34.7     | 1.10 | 40.4     | 1.32 | 43.2     | 1.44 | 46.0     | 1.56 | 51.7     | 1.82 | 57.3     | 2.10 |
|             | 44.6                    | 29.2            | 0.92 | 34.7     | 1.12 | 40.4     | 1.34 | 43.2     | 1.46 | 46.0     | 1.59 | 51.7     | 1.86 | 57.3     | 2.14 |
|             | 50.0                    | 29.2            | 1.14 | 34.7     | 1.34 | 40.4     | 1.55 | 43.2     | 1.66 | 46.0     | 1.77 | 51.7     | 2.01 | 57.3     | 2.25 |
|             | 53.6                    | 29.2            | 1.16 | 34.7     | 1.36 | 40.4     | 1.58 | 43.2     | 1.69 | 46.0     | 1.80 | 51.7     | 2.04 | 57.3     | 2.29 |
|             | 57.2                    | 29.2            | 1.18 | 34.7     | 1.38 | 40.4     | 1.60 | 43.2     | 1.72 | 46.0     | 1.84 | 51.7     | 2.08 | 57.3     | 2.33 |
|             | 60.8                    | 29.2            | 1.19 | 34.7     | 1.40 | 40.4     | 1.63 | 43.2     | 1.75 | 46.0     | 1.87 | 51.7     | 2.12 | 57.3     | 2.37 |
|             | 64.4                    | 29.2            | 1.21 | 34.7     | 1.43 | 40.4     | 1.66 | 43.2     | 1.78 | 46.0     | 1.90 | 51.7     | 2.15 | 57.3     | 2.42 |
|             | 68.0                    | 29.2            | 1.23 | 34.7     | 1.46 | 40.4     | 1.69 | 43.2     | 1.82 | 46.0     | 1.94 | 51.7     | 2.20 | 57.3     | 2.47 |
|             | 69.8                    | 29.2            | 1.24 | 34.7     | 1.46 | 40.4     | 1.71 | 43.2     | 1.83 | 46.0     | 1.96 | 51.7     | 2.22 | 57.3     | 2.49 |
|             | 73.4                    | 29.2            | 1.26 | 34.7     | 1.49 | 40.4     | 1.73 | 43.2     | 1.87 | 46.0     | 1.99 | 51.7     | 2.31 | 57.3     | 2.65 |
|             | 77.0                    | 29.2            | 1.28 | 34.7     | 1.52 | 40.4     | 1.80 | 43.2     | 1.96 | 46.0     | 2.12 | 51.7     | 2.46 | 57.3     | 2.83 |
|             | 80.6                    | 29.2            | 1.33 | 34.7     | 1.61 | 40.4     | 1.92 | 43.2     | 2.09 | 46.0     | 2.26 | 51.7     | 2.62 | 57.3     | 3.02 |
|             | 84.2                    | 29.2            | 1.40 | 34.7     | 1.71 | 40.4     | 2.04 | 43.2     | 2.22 | 46.0     | 2.40 | 51.7     | 2.80 | 57.3     | 3.23 |
|             | 87.8                    | 29.2            | 1.49 | 34.7     | 1.82 | 40.4     | 2.17 | 43.2     | 2.36 | 46.0     | 2.56 | 51.7     | 2.98 | 57.3     | 3.43 |
|             | 91.4                    | 29.2            | 1.57 | 34.7     | 1.92 | 40.4     | 2.30 | 43.2     | 2.51 | 46.0     | 2.72 | 51.7     | 3.17 | 57.3     | 3.66 |
|             | 95.0                    | 29.2            | 1.67 | 34.7     | 2.04 | 40.4     | 2.44 | 43.2     | 2.66 | 46.0     | 2.89 | 51.7     | 3.37 | 57.3     | 3.90 |
|             | 98.6                    | 29.2            | 1.76 | 34.7     | 2.15 | 40.4     | 2.59 | 42.4     | 2.82 | 46.0     | 3.06 | 51.7     | 3.59 | 57.3     | 4.15 |
|             | 102.2                   | 29.2            | 1.86 | 34.7     | 2.28 | 40.4     | 2.74 | 41.9     | 2.99 | 46.0     | 3.26 | 51.7     | 3.81 | 57.3     | 4.41 |
| 105.8       | 27.6                    | 2.10            | 33.0 | 2.57     | 38.4 | 3.07     | 41.1 | 3.09     | 43.7 | 3.35     | 49.2 | 3.91     | 54.7 | 4.52     |      |
| 111.2       | 25.7                    | 2.29            | 31.2 | 2.79     | 36.6 | 3.42     | 39.3 | 3.49     | 42.0 | 3.61     | 47.3 | 4.12     | 52.8 | 4.75     |      |
| 116.6       | 24.2                    | 3.04            | 30.2 | 3.71     | 35.4 | 3.59     | 37.9 | 3.54     | 40.5 | 3.84     | 45.7 | 4.42     | 51.0 | 5.10     |      |
| 122.0       | 22.2                    | 2.99            | 27.1 | 3.64     | 31.6 | 3.78     | 33.8 | 3.83     | 36.1 | 4.10     | 40.8 | 4.72     | 45.9 | 5.34     |      |
| 125.6       | 16.8                    | 2.52            | 20.1 | 3.07     | 23.6 | 3.22     | 25.5 | 3.49     | 27.6 | 3.70     | 32.6 | 4.22     | 37.3 | 4.67     |      |
| 50%         | 23.0                    | 24.3            | 0.74 | 28.9     | 0.89 | 33.7     | 1.05 | 36.0     | 1.14 | 38.3     | 1.23 | 43.1     | 1.42 | 47.8     | 1.63 |
|             | 32.0                    | 24.3            | 0.74 | 28.9     | 0.89 | 33.7     | 1.05 | 36.0     | 1.14 | 38.3     | 1.23 | 43.1     | 1.42 | 47.8     | 1.63 |
|             | 39.2                    | 24.3            | 0.75 | 28.9     | 0.89 | 33.7     | 1.06 | 36.0     | 1.14 | 38.3     | 1.23 | 43.1     | 1.43 | 47.8     | 1.64 |
|             | 44.6                    | 24.3            | 0.76 | 28.9     | 0.91 | 33.7     | 1.08 | 36.0     | 1.16 | 38.3     | 1.26 | 43.1     | 1.46 | 47.8     | 1.67 |
|             | 50.0                    | 24.3            | 0.98 | 28.9     | 1.14 | 33.7     | 1.30 | 36.0     | 1.39 | 38.3     | 1.47 | 43.1     | 1.65 | 47.8     | 1.84 |
|             | 53.6                    | 24.3            | 0.99 | 28.9     | 1.15 | 33.7     | 1.32 | 36.0     | 1.40 | 38.3     | 1.50 | 43.1     | 1.68 | 47.8     | 1.87 |
|             | 57.2                    | 24.3            | 1.01 | 28.9     | 1.17 | 33.7     | 1.34 | 36.0     | 1.43 | 38.3     | 1.52 | 43.1     | 1.71 | 47.8     | 1.91 |
|             | 60.8                    | 24.3            | 1.02 | 28.9     | 1.18 | 33.7     | 1.36 | 36.0     | 1.46 | 38.3     | 1.54 | 43.1     | 1.74 | 47.8     | 1.94 |
|             | 64.4                    | 24.3            | 1.04 | 28.9     | 1.21 | 33.7     | 1.38 | 36.0     | 1.48 | 38.3     | 1.57 | 43.1     | 1.77 | 47.8     | 1.98 |
|             | 68.0                    | 24.3            | 1.05 | 28.9     | 1.22 | 33.7     | 1.40 | 36.0     | 1.51 | 38.3     | 1.60 | 43.1     | 1.81 | 47.8     | 2.01 |
|             | 69.8                    | 24.3            | 1.06 | 28.9     | 1.23 | 33.7     | 1.42 | 36.0     | 1.51 | 38.3     | 1.62 | 43.1     | 1.82 | 47.8     | 2.04 |
|             | 73.4                    | 24.3            | 1.07 | 28.9     | 1.25 | 33.7     | 1.44 | 36.0     | 1.54 | 38.3     | 1.65 | 43.1     | 1.85 | 47.8     | 2.08 |
|             | 77.0                    | 24.3            | 1.09 | 28.9     | 1.27 | 33.7     | 1.47 | 36.0     | 1.57 | 38.3     | 1.70 | 43.1     | 1.95 | 47.8     | 2.22 |
|             | 80.6                    | 24.3            | 1.11 | 28.9     | 1.32 | 33.7     | 1.55 | 36.0     | 1.68 | 38.3     | 1.80 | 43.1     | 2.07 | 47.8     | 2.37 |
|             | 84.2                    | 24.3            | 1.17 | 28.9     | 1.40 | 33.7     | 1.65 | 36.0     | 1.78 | 38.2     | 1.92 | 43.1     | 2.21 | 47.8     | 2.52 |
|             | 87.8                    | 24.3            | 1.23 | 28.9     | 1.48 | 33.7     | 1.76 | 36.0     | 1.89 | 38.2     | 2.04 | 43.1     | 2.34 | 47.8     | 2.68 |
|             | 91.4                    | 24.3            | 1.31 | 28.9     | 1.57 | 33.7     | 1.85 | 36.0     | 2.00 | 38.2     | 2.16 | 43.1     | 2.49 | 47.8     | 2.85 |
|             | 95.0                    | 24.3            | 1.38 | 28.9     | 1.65 | 33.7     | 1.96 | 36.0     | 2.12 | 38.2     | 2.29 | 43.1     | 2.65 | 47.8     | 3.03 |
|             | 98.6                    | 24.3            | 1.46 | 28.9     | 1.75 | 33.7     | 2.07 | 35.4     | 2.24 | 38.2     | 2.43 | 43.1     | 2.81 | 47.8     | 3.22 |
|             | 102.2                   | 24.3            | 1.54 | 28.9     | 1.84 | 33.7     | 2.19 | 34.9     | 2.37 | 38.2     | 2.57 | 43.1     | 2.98 | 47.8     | 3.42 |
| 105.8       | 23.0                    | 1.74            | 27.5 | 2.08     | 32.0 | 2.46     | 34.2 | 2.46     | 36.3 | 2.65     | 41.0 | 3.07     | 45.6 | 3.51     |      |
| 111.2       | 21.4                    | 1.89            | 26.0 | 2.27     | 30.5 | 2.74     | 32.8 | 2.77     | 34.9 | 2.86     | 39.4 | 3.23     | 44.0 | 3.69     |      |
| 116.6       | 20.2                    | 2.52            | 25.2 | 3.01     | 29.5 | 2.87     | 31.6 | 2.82     | 33.6 | 3.04     | 38.1 | 3.47     | 42.6 | 3.97     |      |
| 122.0       | 18.5                    | 2.47            | 22.6 | 2.96     | 26.3 | 3.03     | 28.2 | 3.05     | 30.0 | 3.25     | 34.0 | 3.70     | 38.3 | 4.15     |      |
| 125.6       | 14.0                    | 2.09            | 16.8 | 2.50     | 19.7 | 2.58     | 21.2 | 2.77     | 22.9 | 2.93     | 27.1 | 3.31     | 31.1 | 3.63     |      |

# GMV5 DC Inverter VRF Units Technical Sales Guide

GMV-Y96WM/C-F(U)

TC—Total capacity of outdoor unit; PI—Power input of outdoor unit

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |       |          |       |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|-------|----------|-------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |       | 71.6°FWB |       | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |       | 86°FDB   |       | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI    | TC       | PI    | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW   |
| 135%        | 23.0                    | 84.3            | 3.23 | 100.5    | 3.93 | 116.6    | 3.98 | 121.0    | 4.00 | 123.2    | 4.02  | 126.4    | 4.07  | 129.5    | 4.11 |
|             | 32.0                    | 84.3            | 3.23 | 100.5    | 3.94 | 116.6    | 3.99 | 121.0    | 4.01 | 123.2    | 4.03  | 126.4    | 4.08  | 129.5    | 4.12 |
|             | 39.2                    | 84.3            | 3.25 | 100.5    | 3.95 | 116.6    | 4.00 | 121.0    | 4.02 | 123.2    | 4.04  | 126.4    | 4.09  | 129.5    | 4.13 |
|             | 44.6                    | 84.3            | 3.31 | 100.5    | 4.03 | 116.6    | 4.07 | 121.0    | 4.10 | 123.2    | 4.12  | 126.4    | 4.17  | 129.5    | 4.21 |
|             | 50.0                    | 84.3            | 3.36 | 100.5    | 4.11 | 116.6    | 4.89 | 121.0    | 5.00 | 122.4    | 4.90  | 125.5    | 4.69  | 128.6    | 4.48 |
|             | 53.6                    | 84.3            | 3.42 | 100.5    | 4.19 | 116.6    | 4.99 | 119.3    | 4.97 | 121.0    | 4.87  | 123.8    | 4.65  | 126.9    | 4.58 |
|             | 57.2                    | 84.3            | 3.49 | 100.5    | 4.27 | 116.2    | 5.05 | 117.9    | 4.95 | 119.3    | 4.84  | 122.4    | 4.80  | 125.5    | 4.85 |
|             | 60.8                    | 84.3            | 3.55 | 100.5    | 4.36 | 114.9    | 5.03 | 116.2    | 4.99 | 117.6    | 5.01  | 120.7    | 5.06  | 123.8    | 5.11 |
|             | 64.4                    | 84.3            | 3.62 | 100.5    | 4.45 | 113.1    | 5.21 | 114.5    | 5.24 | 116.2    | 5.27  | 119.3    | 5.32  | 122.4    | 5.37 |
|             | 68.0                    | 84.3            | 3.70 | 100.5    | 4.73 | 111.4    | 5.47 | 113.1    | 5.50 | 114.5    | 5.53  | 117.6    | 5.58  | 120.7    | 5.64 |
|             | 69.8                    | 84.3            | 3.80 | 100.5    | 4.90 | 110.7    | 5.60 | 112.5    | 5.63 | 113.8    | 5.66  | 116.9    | 5.72  | 120.0    | 5.77 |
|             | 73.4                    | 84.3            | 4.07 | 100.5    | 5.25 | 109.4    | 5.85 | 110.7    | 5.88 | 112.1    | 5.91  | 115.2    | 5.97  | 118.3    | 6.03 |
|             | 77.0                    | 84.3            | 4.35 | 100.5    | 5.63 | 107.7    | 6.11 | 109.4    | 6.14 | 110.7    | 6.18  | 113.8    | 6.24  | 116.9    | 6.30 |
|             | 80.6                    | 84.3            | 4.64 | 100.5    | 6.02 | 106.3    | 5.38 | 107.7    | 6.41 | 109.0    | 6.43  | 112.1    | 6.50  | 115.2    | 6.57 |
|             | 84.2                    | 84.3            | 4.96 | 100.5    | 6.43 | 104.6    | 6.62 | 105.9    | 6.66 | 107.7    | 6.70  | 110.7    | 6.77  | 113.8    | 6.84 |
|             | 87.8                    | 84.3            | 5.29 | 100.1    | 6.81 | 102.9    | 6.89 | 104.6    | 6.93 | 105.9    | 6.96  | 109.0    | 7.03  | 112.1    | 7.11 |
|             | 91.4                    | 84.3            | 5.64 | 98.4     | 7.06 | 101.5    | 7.13 | 102.9    | 7.18 | 104.6    | 7.22  | 107.7    | 7.30  | 110.4    | 7.39 |
|             | 95.0                    | 84.3            | 6.01 | 96.7     | 7.32 | 99.8     | 7.41 | 101.5    | 7.45 | 102.9    | 7.49  | 105.9    | 7.58  | 109.0    | 7.65 |
|             | 98.6                    | 84.3            | 6.40 | 95.3     | 7.59 | 98.4     | 7.67 | 99.8     | 7.71 | 101.5    | 7.76  | 104.2    | 7.85  | 107.3    | 7.94 |
|             | 102.2                   | 84.3            | 6.81 | 93.6     | 7.84 | 96.7     | 7.93 | 98.4     | 7.98 | 99.8     | 8.03  | 102.9    | 8.12  | 105.9    | 8.22 |
| 105.8       | 79.7                    | 7.57            | 91.9 | 9.22     | 94.8 | 9.34     | 96.5 | 8.64     | 97.8 | 8.69     | 100.9 | 8.79     | 103.9 | 8.88     |      |
| 111.2       | 74.2                    | 8.24            | 87.0 | 10.03    | 90.3 | 10.37    | 92.4 | 9.76     | 93.9 | 9.36     | 97.0  | 9.24     | 100.3 | 9.34     |      |
| 116.6       | 70.0                    | 10.96           | 84.1 | 13.34    | 87.3 | 10.89    | 89.1 | 9.91     | 90.5 | 9.96     | 93.8  | 9.92     | 97.0  | 10.03    |      |
| 122.0       | 64.1                    | 10.76           | 75.4 | 13.10    | 77.9 | 11.48    | 79.5 | 10.73    | 80.7 | 10.63    | 83.7  | 10.61    | 87.2  | 10.49    |      |
| 125.6       | 48.6                    | 9.08            | 56.1 | 11.05    | 58.4 | 9.78     | 59.9 | 9.76     | 61.7 | 9.58     | 66.7  | 9.47     | 70.9  | 9.19     |      |
| 120%        | 23.0                    | 77.8            | 2.87 | 92.6     | 3.72 | 107.7    | 3.95 | 115.2    | 3.97 | 121.2    | 3.99  | 123.9    | 4.04  | 126.7    | 4.08 |
|             | 32.0                    | 77.8            | 2.88 | 92.6     | 3.73 | 107.7    | 3.96 | 115.2    | 3.98 | 121.2    | 4.00  | 123.9    | 4.04  | 126.7    | 4.09 |
|             | 39.2                    | 77.8            | 2.89 | 92.6     | 3.74 | 107.7    | 3.97 | 115.2    | 4.00 | 121.2    | 4.02  | 123.9    | 4.06  | 126.7    | 4.10 |
|             | 44.6                    | 77.8            | 2.94 | 92.6     | 3.81 | 107.7    | 4.05 | 115.2    | 4.07 | 121.2    | 4.09  | 123.9    | 4.13  | 126.7    | 4.18 |
|             | 50.0                    | 77.8            | 3.07 | 92.6     | 3.75 | 107.7    | 4.46 | 115.2    | 4.82 | 120.7    | 5.03  | 123.4    | 4.83  | 126.2    | 4.64 |
|             | 53.6                    | 77.8            | 3.13 | 92.6     | 3.82 | 107.7    | 4.55 | 115.2    | 4.91 | 119.0    | 5.00  | 121.7    | 4.81  | 124.5    | 4.61 |
|             | 57.2                    | 77.8            | 3.19 | 92.6     | 3.90 | 107.7    | 4.63 | 115.2    | 5.01 | 117.3    | 4.97  | 120.3    | 4.78  | 123.1    | 4.81 |
|             | 60.8                    | 77.8            | 3.25 | 92.6     | 3.97 | 107.7    | 4.72 | 114.5    | 5.05 | 115.9    | 4.98  | 118.6    | 5.03  | 121.4    | 5.07 |
|             | 64.4                    | 77.8            | 3.31 | 92.6     | 4.05 | 107.7    | 4.89 | 112.8    | 5.21 | 114.2    | 5.23  | 116.9    | 5.28  | 120.0    | 5.33 |
|             | 68.0                    | 77.8            | 3.37 | 92.6     | 4.21 | 107.7    | 5.25 | 111.4    | 5.47 | 112.8    | 5.49  | 115.5    | 5.54  | 118.3    | 5.59 |
|             | 69.8                    | 77.8            | 3.40 | 92.6     | 4.36 | 107.7    | 5.44 | 110.4    | 5.60 | 111.8    | 5.62  | 114.9    | 5.67  | 117.6    | 5.73 |
|             | 73.4                    | 77.8            | 3.64 | 92.6     | 4.67 | 107.7    | 5.82 | 109.0    | 5.84 | 110.4    | 5.87  | 113.1    | 5.93  | 115.9    | 5.98 |
|             | 77.0                    | 77.8            | 3.89 | 92.6     | 5.00 | 105.9    | 6.08 | 107.3    | 6.10 | 108.7    | 6.13  | 111.8    | 6.19  | 114.5    | 6.25 |
|             | 80.6                    | 77.8            | 4.15 | 92.6     | 5.34 | 104.6    | 6.33 | 105.9    | 6.37 | 107.3    | 6.40  | 110.1    | 6.45  | 112.8    | 6.51 |
|             | 84.2                    | 77.8            | 4.43 | 92.6     | 5.71 | 102.9    | 6.58 | 104.2    | 6.62 | 105.6    | 6.65  | 108.3    | 6.72  | 111.4    | 6.78 |
|             | 87.8                    | 77.8            | 4.72 | 92.6     | 6.09 | 101.5    | 6.85 | 102.9    | 6.88 | 104.2    | 6.92  | 107.0    | 6.99  | 109.7    | 7.05 |
|             | 91.4                    | 77.8            | 5.03 | 92.6     | 6.50 | 99.8     | 7.10 | 101.1    | 7.14 | 102.5    | 7.17  | 105.3    | 7.25  | 108.0    | 7.32 |
|             | 95.0                    | 77.8            | 5.35 | 92.6     | 6.93 | 98.1     | 7.36 | 99.4     | 7.40 | 101.1    | 7.44  | 103.9    | 7.52  | 106.6    | 7.60 |
|             | 98.6                    | 77.8            | 5.70 | 92.6     | 7.38 | 96.7     | 7.63 | 98.1     | 7.66 | 99.4     | 7.70  | 102.2    | 7.78  | 104.9    | 7.87 |
|             | 102.2                   | 77.8            | 6.06 | 92.2     | 7.79 | 95.0     | 7.88 | 96.3     | 7.93 | 97.7     | 7.97  | 100.8    | 8.06  | 103.5    | 8.14 |
| 105.8       | 73.6                    | 6.74            | 87.9 | 8.73     | 93.2 | 9.27     | 94.5 | 8.58     | 96.2 | 8.63     | 98.9  | 8.72     | 101.6 | 8.81     |      |
| 111.2       | 68.5                    | 7.33            | 83.3 | 9.49     | 88.7 | 10.30    | 90.5 | 9.69     | 92.3 | 9.30     | 95.2  | 9.17     | 98.1  | 9.27     |      |
| 116.6       | 64.6                    | 9.76            | 80.5 | 12.63    | 85.8 | 10.82    | 87.3 | 9.84     | 89.0 | 9.89     | 91.9  | 9.85     | 94.9  | 9.95     |      |
| 122.0       | 59.2                    | 9.58            | 72.2 | 12.40    | 76.6 | 11.41    | 77.9 | 10.65    | 79.4 | 10.56    | 82.1  | 10.52    | 85.3  | 10.41    |      |
| 125.6       | 44.8                    | 8.08            | 53.7 | 10.46    | 57.4 | 9.71     | 58.7 | 9.69     | 60.7 | 9.52     | 65.5  | 9.40     | 69.3  | 9.11     |      |

| Combination | Outdoor air temp (°FDB) | Indoor air temp |        |          |        |          |        |          |        |          |        |          |        |          |      |
|-------------|-------------------------|-----------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|------|
|             |                         | 57.2°FWB        |        | 60.8°FWB |        | 64.4°FWB |        | 66.2°FWB |        | 68°FWB   |        | 71.6°FWB |        | 75.2°FWB |      |
|             |                         | 68°FDB          |        | 73.4°FDB |        | 78.8°FDB |        | 80.6°FDB |        | 82.4°FDB |        | 86°FDB   |        | 89.6°FDB |      |
|             |                         | TC              | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI   |
|             | kBtu/h                  | kW              | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       |      |
| 110%        | 23.0                    | 71.3            | 2.54   | 85.0     | 3.27   | 98.7     | 3.93   | 105.6    | 3.95   | 112.5    | 3.97   | 121.2    | 4.00   | 123.7    | 4.04 |
|             | 32.0                    | 71.3            | 2.55   | 85.0     | 3.28   | 98.7     | 3.93   | 105.6    | 3.95   | 112.5    | 3.98   | 121.2    | 4.01   | 123.7    | 4.05 |
|             | 39.2                    | 71.3            | 2.56   | 85.0     | 3.29   | 98.7     | 3.95   | 105.6    | 3.97   | 112.5    | 3.99   | 121.2    | 4.03   | 123.7    | 4.06 |
|             | 44.6                    | 71.3            | 2.60   | 85.0     | 3.35   | 98.7     | 4.02   | 105.6    | 4.04   | 112.5    | 4.06   | 121.2    | 4.10   | 123.7    | 4.14 |
|             | 50.0                    | 71.3            | 2.78   | 85.0     | 3.39   | 98.7     | 4.03   | 105.6    | 4.36   | 112.5    | 4.69   | 121.0    | 4.98   | 123.8    | 4.81 |
|             | 53.6                    | 71.3            | 2.84   | 85.0     | 3.46   | 98.7     | 4.11   | 105.6    | 4.45   | 112.5    | 4.78   | 119.7    | 4.96   | 122.1    | 4.78 |
|             | 57.2                    | 71.3            | 2.89   | 85.0     | 3.52   | 98.7     | 4.19   | 105.6    | 4.53   | 112.5    | 4.87   | 117.9    | 4.96   | 120.7    | 4.77 |
|             | 60.8                    | 71.3            | 2.94   | 85.0     | 3.59   | 98.7     | 4.27   | 105.6    | 4.61   | 112.5    | 4.97   | 116.6    | 4.99   | 119.0    | 5.04 |
|             | 64.4                    | 71.3            | 3.00   | 85.0     | 3.66   | 98.7     | 4.36   | 105.6    | 4.74   | 112.5    | 5.20   | 114.9    | 5.24   | 117.6    | 5.29 |
|             | 68.0                    | 71.3            | 3.06   | 85.0     | 3.74   | 98.7     | 4.61   | 105.6    | 5.10   | 110.7    | 5.46   | 113.5    | 5.50   | 115.9    | 5.55 |
|             | 69.8                    | 71.3            | 3.09   | 85.0     | 3.85   | 98.7     | 4.78   | 105.6    | 5.28   | 110.1    | 5.59   | 112.5    | 5.63   | 115.2    | 5.68 |
|             | 73.4                    | 71.3            | 3.24   | 85.0     | 4.12   | 98.7     | 5.13   | 105.6    | 5.67   | 108.3    | 5.83   | 111.1    | 5.89   | 113.5    | 5.94 |
|             | 77.0                    | 71.3            | 3.44   | 85.0     | 4.41   | 98.7     | 5.48   | 105.6    | 6.07   | 107.0    | 6.09   | 109.4    | 6.15   | 112.1    | 6.20 |
|             | 80.6                    | 71.3            | 3.68   | 85.0     | 4.71   | 98.7     | 5.86   | 103.9    | 6.33   | 105.3    | 6.35   | 108.0    | 6.41   | 110.4    | 6.46 |
|             | 84.2                    | 71.3            | 3.93   | 85.0     | 5.03   | 98.7     | 6.27   | 102.5    | 6.58   | 103.9    | 6.61   | 106.3    | 6.67   | 109.0    | 6.73 |
|             | 87.8                    | 71.3            | 4.18   | 85.0     | 5.36   | 98.7     | 6.69   | 100.8    | 6.84   | 102.2    | 6.87   | 104.9    | 6.93   | 107.3    | 7.00 |
|             | 91.4                    | 71.3            | 4.45   | 85.0     | 5.72   | 98.1     | 7.05   | 99.4     | 7.09   | 100.8    | 7.12   | 103.2    | 7.19   | 105.9    | 7.26 |
|             | 95.0                    | 71.3            | 4.73   | 85.0     | 6.09   | 96.7     | 7.31   | 97.7     | 7.35   | 99.1     | 7.39   | 101.5    | 7.46   | 104.2    | 7.53 |
|             | 98.6                    | 71.3            | 5.04   | 85.0     | 6.48   | 95.0     | 7.58   | 96.3     | 7.61   | 97.4     | 7.64   | 100.1    | 7.72   | 102.5    | 7.79 |
|             | 102.2                   | 71.3            | 5.35   | 85.0     | 6.91   | 93.3     | 7.83   | 94.6     | 7.87   | 96.0     | 7.91   | 98.4     | 7.99   | 101.1    | 8.07 |
| 105.8       | 67.4                    | 5.96            | 80.8   | 7.67     | 91.9   | 9.21     | 92.9   | 8.53     | 94.2   | 8.57     | 96.6   | 8.65     | 99.3   | 8.73     |      |
| 111.2       | 62.8                    | 6.48            | 76.5   | 8.34     | 87.5   | 10.23    | 88.9   | 9.63     | 90.5   | 9.24     | 93.0   | 9.10     | 95.9   | 9.18     |      |
| 116.6       | 59.2                    | 8.63            | 74.0   | 11.10    | 84.6   | 10.75    | 85.8   | 9.78     | 87.2   | 9.83     | 89.8   | 9.77     | 92.8   | 9.86     |      |
| 122.0       | 54.2                    | 8.47            | 66.3   | 10.90    | 75.5   | 11.33    | 76.5   | 10.58    | 77.8   | 10.49    | 80.2   | 10.44    | 83.4   | 10.31    |      |
| 125.6       | 41.1                    | 7.15            | 49.3   | 9.20     | 56.6   | 9.65     | 57.7   | 9.63     | 59.5   | 9.46     | 63.9   | 9.32     | 67.8   | 9.03     |      |
| 100%        | 23.0                    | 64.8            | 2.22   | 77.1     | 2.85   | 89.8     | 3.55   | 96.0     | 3.92   | 102.2    | 3.94   | 114.9    | 3.98   | 121.3    | 4.01 |
|             | 32.0                    | 64.8            | 2.23   | 77.1     | 2.85   | 89.8     | 3.55   | 96.0     | 3.93   | 102.2    | 3.95   | 114.9    | 3.98   | 121.3    | 4.02 |
|             | 39.2                    | 64.8            | 2.23   | 77.1     | 2.86   | 89.8     | 3.57   | 96.0     | 3.94   | 102.2    | 3.96   | 114.9    | 4.00   | 121.3    | 4.03 |
|             | 44.6                    | 64.8            | 2.28   | 77.1     | 2.91   | 89.8     | 3.63   | 96.0     | 4.02   | 102.2    | 4.04   | 114.9    | 4.07   | 121.3    | 4.11 |
|             | 50.0                    | 64.8            | 2.52   | 77.1     | 3.06   | 89.8     | 3.62   | 96.0     | 3.91   | 102.2    | 4.22   | 114.8    | 4.78   | 121.3    | 4.96 |
|             | 53.6                    | 64.8            | 2.55   | 77.1     | 3.10   | 89.8     | 3.67   | 96.0     | 3.96   | 102.2    | 4.30   | 114.8    | 4.86   | 119.6    | 4.92 |
|             | 57.2                    | 64.8            | 2.60   | 77.1     | 3.15   | 89.8     | 3.73   | 96.0     | 4.03   | 102.2    | 4.38   | 114.8    | 4.94   | 118.3    | 4.89 |
|             | 60.8                    | 64.8            | 2.65   | 77.1     | 3.23   | 89.8     | 3.81   | 96.0     | 4.12   | 102.2    | 4.48   | 114.4    | 5.05   | 116.5    | 5.00 |
|             | 64.4                    | 64.8            | 2.71   | 77.1     | 3.30   | 89.8     | 3.89   | 96.0     | 4.20   | 102.2    | 4.57   | 112.8    | 5.15   | 115.2    | 5.23 |
|             | 68.0                    | 64.8            | 2.76   | 77.1     | 3.35   | 89.8     | 4.02   | 96.0     | 4.42   | 102.2    | 4.86   | 111.1    | 5.42   | 113.5    | 5.51 |
|             | 69.8                    | 64.8            | 2.78   | 77.1     | 3.38   | 89.8     | 4.15   | 96.0     | 4.57   | 102.2    | 5.02   | 110.4    | 5.61   | 112.8    | 5.66 |
|             | 73.4                    | 64.8            | 2.85   | 77.1     | 3.61   | 89.8     | 4.47   | 96.0     | 4.92   | 102.2    | 5.40   | 109.1    | 5.93   | 111.1    | 5.99 |
|             | 77.0                    | 64.8            | 3.04   | 77.1     | 3.84   | 89.8     | 4.75   | 96.0     | 5.23   | 102.2    | 5.78   | 107.3    | 6.15   | 109.7    | 6.21 |
|             | 80.6                    | 64.8            | 3.24   | 77.1     | 4.11   | 89.8     | 5.10   | 96.0     | 5.61   | 102.2    | 6.20   | 105.6    | 6.37   | 108.0    | 6.42 |
|             | 84.2                    | 64.8            | 3.44   | 77.1     | 4.39   | 89.8     | 5.45   | 96.0     | 6.01   | 101.8    | 6.57   | 104.2    | 6.67   | 106.6    | 6.73 |
|             | 87.8                    | 64.8            | 3.66   | 77.1     | 4.67   | 89.8     | 5.81   | 96.0     | 6.47   | 100.6    | 6.83   | 101.8    | 6.94   | 104.9    | 7.01 |
|             | 91.4                    | 64.8            | 3.89   | 77.1     | 4.98   | 89.8     | 6.20   | 96.0     | 6.85   | 98.7     | 7.08   | 101.3    | 7.14   | 103.5    | 7.21 |
|             | 95.0                    | 64.8            | 4.14   | 77.1     | 5.30   | 89.8     | 6.61   | 96.0     | 7.30   | 97.0     | 7.34   | 99.4     | 7.40   | 101.8    | 7.47 |
|             | 98.6                    | 64.8            | 4.41   | 77.1     | 5.64   | 89.8     | 7.04   | 94.3     | 7.56   | 95.8     | 7.60   | 97.9     | 7.65   | 100.3    | 7.72 |
|             | 102.2                   | 64.8            | 4.69   | 77.1     | 6.01   | 89.8     | 7.49   | 93.0     | 7.81   | 93.5     | 7.85   | 96.7     | 7.91   | 97.9     | 7.98 |
| 105.8       | 61.2                    | 5.21            | 73.3   | 6.68     | 85.4   | 8.32     | 91.3   | 8.47     | 92.3   | 8.51     | 94.6   | 8.59     | 97.0   | 8.66     |      |
| 111.2       | 57.0                    | 5.67            | 69.4   | 7.26     | 81.3   | 9.25     | 87.4   | 9.56     | 88.6   | 9.17     | 91.0   | 9.03     | 93.6   | 9.11     |      |
| 116.6       | 53.8                    | 7.54            | 67.1   | 9.66     | 78.6   | 9.71     | 84.3   | 9.71     | 85.4   | 9.76     | 87.9   | 9.70     | 90.6   | 9.79     |      |
| 122.0       | 49.3                    | 7.41            | 60.2   | 9.48     | 70.2   | 10.24    | 75.2   | 10.51    | 76.2   | 10.42    | 78.5   | 10.36    | 81.4   | 10.23    |      |
| 125.6       | 37.3                    | 6.25            | 44.7   | 8.00     | 52.6   | 8.72     | 56.6   | 9.56     | 58.2   | 9.39     | 62.6   | 9.25     | 66.1   | 8.96     |      |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   |
| 90%         | 23.0                    | 58.3            | 1.94 | 69.4     | 2.45 | 80.8     | 3.03 | 86.4     | 3.35 | 91.9     | 3.68 | 103.2    | 3.94 | 114.5    | 3.98 |
|             | 32.0                    | 58.3            | 1.94 | 69.4     | 2.46 | 80.8     | 3.04 | 86.4     | 3.35 | 91.9     | 3.69 | 103.2    | 3.95 | 114.5    | 3.98 |
|             | 39.2                    | 58.3            | 1.95 | 69.4     | 2.47 | 80.8     | 3.05 | 86.4     | 3.37 | 91.9     | 3.70 | 103.2    | 3.96 | 114.5    | 4.00 |
|             | 44.6                    | 58.3            | 1.99 | 69.4     | 2.51 | 80.8     | 3.10 | 86.4     | 3.43 | 91.9     | 3.77 | 103.2    | 4.04 | 114.5    | 4.07 |
|             | 50.0                    | 58.3            | 2.20 | 69.4     | 2.64 | 80.8     | 3.09 | 86.4     | 3.48 | 92.0     | 3.71 | 103.3    | 4.25 | 114.5    | 4.81 |
|             | 53.6                    | 58.3            | 2.23 | 69.4     | 2.67 | 80.8     | 3.13 | 86.4     | 3.53 | 92.0     | 3.78 | 103.3    | 4.32 | 114.5    | 4.88 |
|             | 57.2                    | 58.3            | 2.27 | 69.4     | 2.72 | 80.8     | 3.19 | 86.4     | 3.58 | 92.0     | 3.84 | 103.3    | 4.40 | 114.5    | 4.96 |
|             | 60.8                    | 58.3            | 2.32 | 69.4     | 2.78 | 80.8     | 3.26 | 86.4     | 3.66 | 92.0     | 3.93 | 103.3    | 4.49 | 114.1    | 5.05 |
|             | 64.4                    | 58.3            | 2.37 | 69.4     | 2.84 | 80.8     | 3.32 | 86.4     | 3.73 | 92.0     | 4.01 | 103.3    | 4.60 | 113.1    | 5.23 |
|             | 68.0                    | 58.3            | 2.40 | 69.4     | 2.89 | 80.8     | 3.43 | 86.4     | 3.81 | 92.0     | 4.17 | 103.3    | 4.94 | 111.1    | 5.45 |
|             | 69.8                    | 58.3            | 2.43 | 69.4     | 2.92 | 80.8     | 3.55 | 86.4     | 3.94 | 92.0     | 4.32 | 103.3    | 5.11 | 110.4    | 5.58 |
|             | 73.4                    | 58.3            | 2.49 | 69.4     | 3.12 | 80.8     | 3.81 | 86.4     | 4.23 | 92.0     | 4.62 | 103.3    | 5.49 | 108.7    | 5.86 |
|             | 77.0                    | 58.3            | 2.65 | 69.4     | 3.32 | 80.8     | 4.06 | 86.4     | 4.52 | 92.0     | 4.94 | 103.3    | 5.87 | 107.3    | 6.10 |
|             | 80.6                    | 58.3            | 2.83 | 69.4     | 3.54 | 80.8     | 4.35 | 86.4     | 4.82 | 92.0     | 5.29 | 103.3    | 6.26 | 105.6    | 6.37 |
|             | 84.2                    | 58.3            | 3.00 | 69.4     | 3.78 | 80.8     | 4.66 | 86.4     | 5.15 | 92.0     | 5.65 | 102.2    | 6.57 | 104.2    | 6.63 |
|             | 87.8                    | 58.3            | 3.19 | 69.4     | 4.03 | 80.8     | 4.96 | 86.4     | 5.50 | 92.0     | 6.03 | 100.5    | 6.81 | 102.5    | 6.90 |
|             | 91.4                    | 58.3            | 3.39 | 69.4     | 4.29 | 80.8     | 5.29 | 86.4     | 5.85 | 92.0     | 6.41 | 99.1     | 7.08 | 101.1    | 7.15 |
|             | 95.0                    | 58.3            | 3.61 | 69.4     | 4.57 | 80.8     | 5.64 | 86.4     | 6.23 | 92.0     | 6.86 | 97.4     | 7.34 | 99.4     | 7.40 |
|             | 98.6                    | 58.3            | 3.85 | 69.4     | 4.87 | 80.8     | 6.01 | 84.9     | 6.46 | 92.0     | 7.34 | 95.7     | 7.60 | 98.1     | 7.58 |
|             | 102.2                   | 58.3            | 4.10 | 69.4     | 5.18 | 80.8     | 6.40 | 83.7     | 6.67 | 92.0     | 7.78 | 94.3     | 7.88 | 96.3     | 7.86 |
| 105.8       | 55.1                    | 4.55            | 66.0 | 5.76     | 76.8 | 7.11     | 82.1 | 7.23     | 87.4 | 7.96     | 92.7 | 8.51     | 94.8 | 8.59     |      |
| 111.2       | 51.3                    | 4.95            | 62.5 | 6.26     | 73.2 | 7.90     | 78.6 | 8.17     | 84.0 | 8.57     | 89.2 | 8.95     | 91.5 | 9.03     |      |
| 116.6       | 48.4                    | 6.58            | 60.4 | 8.33     | 70.7 | 8.29     | 75.9 | 8.29     | 80.9 | 9.12     | 86.2 | 9.61     | 88.5 | 9.70     |      |
| 122.0       | 44.3                    | 6.46            | 54.2 | 8.18     | 63.1 | 8.75     | 67.7 | 8.98     | 72.2 | 9.74     | 76.9 | 10.27    | 79.5 | 10.14    |      |
| 125.6       | 33.6                    | 5.45            | 40.3 | 6.90     | 47.3 | 7.45     | 51.0 | 8.17     | 55.2 | 8.78     | 61.3 | 9.17     | 64.6 | 8.89     |      |
| 80%         | 23.0                    | 51.8            | 1.67 | 61.7     | 2.07 | 71.9     | 2.57 | 76.8     | 2.83 | 81.6     | 3.09 | 91.9     | 3.67 | 101.8    | 3.93 |
|             | 32.0                    | 51.8            | 1.68 | 61.7     | 2.07 | 71.9     | 2.57 | 76.8     | 2.83 | 81.6     | 3.10 | 91.9     | 3.67 | 101.8    | 3.94 |
|             | 39.2                    | 51.8            | 1.68 | 61.7     | 2.08 | 71.9     | 2.58 | 76.8     | 2.84 | 81.6     | 3.11 | 91.9     | 3.69 | 101.8    | 3.95 |
|             | 44.6                    | 51.8            | 1.72 | 61.7     | 2.12 | 71.9     | 2.63 | 76.8     | 2.90 | 81.6     | 3.16 | 91.9     | 3.76 | 101.8    | 4.02 |
|             | 50.0                    | 51.8            | 2.00 | 61.7     | 2.39 | 71.9     | 2.81 | 76.8     | 3.03 | 81.7     | 3.24 | 91.9     | 3.71 | 101.8    | 4.30 |
|             | 53.6                    | 51.8            | 2.03 | 61.7     | 2.43 | 71.9     | 2.86 | 76.8     | 3.09 | 81.7     | 3.31 | 91.9     | 3.77 | 101.8    | 4.27 |
|             | 57.2                    | 51.8            | 2.07 | 61.7     | 2.48 | 71.9     | 2.91 | 76.8     | 3.14 | 81.7     | 3.37 | 91.9     | 3.84 | 101.8    | 4.37 |
|             | 60.8                    | 51.8            | 2.10 | 61.7     | 2.52 | 71.9     | 2.97 | 76.8     | 3.20 | 81.7     | 3.42 | 91.9     | 3.92 | 101.8    | 4.53 |
|             | 64.4                    | 51.8            | 2.14 | 61.7     | 2.57 | 71.9     | 3.04 | 76.8     | 3.27 | 81.7     | 3.49 | 91.9     | 4.01 | 101.8    | 4.84 |
|             | 68.0                    | 51.8            | 2.17 | 61.7     | 2.62 | 71.9     | 3.09 | 76.8     | 3.33 | 81.7     | 3.56 | 91.9     | 4.16 | 101.8    | 5.02 |
|             | 69.8                    | 51.8            | 2.19 | 61.7     | 2.64 | 71.9     | 3.12 | 76.8     | 3.36 | 81.7     | 3.64 | 91.9     | 4.31 | 101.8    | 5.37 |
|             | 73.4                    | 51.8            | 2.23 | 61.7     | 2.70 | 71.9     | 3.27 | 76.8     | 3.58 | 81.7     | 3.90 | 91.9     | 4.61 | 101.8    | 5.74 |
|             | 77.0                    | 51.8            | 2.30 | 61.7     | 2.86 | 71.9     | 3.49 | 76.8     | 3.83 | 81.7     | 4.16 | 91.9     | 4.93 | 101.8    | 6.13 |
|             | 80.6                    | 51.8            | 2.45 | 61.7     | 3.05 | 71.9     | 3.72 | 76.8     | 4.08 | 81.7     | 4.46 | 91.9     | 5.26 | 101.8    | 6.34 |
|             | 84.2                    | 51.8            | 2.61 | 61.7     | 3.25 | 71.9     | 3.97 | 76.8     | 4.35 | 81.5     | 4.76 | 91.9     | 5.62 | 101.8    | 6.57 |
|             | 87.8                    | 51.8            | 2.76 | 61.7     | 3.45 | 71.9     | 4.22 | 76.8     | 4.63 | 81.5     | 5.07 | 91.9     | 6.00 | 100.1    | 6.81 |
|             | 91.4                    | 51.8            | 2.94 | 61.7     | 3.85 | 71.9     | 4.50 | 76.8     | 4.94 | 81.5     | 5.40 | 91.9     | 6.40 | 98.7     | 7.06 |
|             | 95.0                    | 51.8            | 3.12 | 61.7     | 3.85 | 71.9     | 4.78 | 76.8     | 5.26 | 81.5     | 5.75 | 91.9     | 6.83 | 97.0     | 7.32 |
|             | 98.6                    | 51.8            | 3.31 | 61.7     | 4.14 | 71.9     | 5.09 | 75.4     | 5.61 | 81.5     | 6.13 | 91.9     | 7.27 | 95.7     | 7.59 |
|             | 102.2                   | 51.8            | 3.50 | 61.7     | 4.40 | 71.9     | 5.41 | 74.4     | 5.97 | 81.5     | 6.53 | 91.9     | 7.75 | 93.9     | 7.87 |
| 105.8       | 49.0                    | 3.93            | 58.6 | 4.85     | 68.3 | 6.03     | 73.0 | 6.11     | 77.5 | 6.67     | 87.4 | 7.92     | 92.5 | 8.49     |      |
| 111.2       | 45.6                    | 4.27            | 55.5 | 5.27     | 65.0 | 6.69     | 69.9 | 6.90     | 74.4 | 7.19     | 84.1 | 8.33     | 89.3 | 8.93     |      |
| 116.6       | 43.0                    | 5.69            | 53.7 | 7.01     | 62.9 | 7.03     | 67.4 | 7.00     | 71.7 | 7.65     | 81.3 | 8.95     | 86.4 | 9.58     |      |
| 122.0       | 39.4                    | 5.58            | 48.1 | 6.89     | 56.1 | 7.41     | 60.1 | 7.58     | 64.0 | 8.17     | 72.6 | 9.56     | 77.6 | 10.02    |      |
| 125.6       | 29.9                    | 4.71            | 35.8 | 5.81     | 42.0 | 6.31     | 45.3 | 6.90     | 48.9 | 7.36     | 57.9 | 8.54     | 63.1 | 8.78     |      |

| Combination | Outdoor air temp (°FDB) | Indoor air temp |        |          |        |          |        |          |        |          |        |          |        |          |      |
|-------------|-------------------------|-----------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|------|
|             |                         | 57.2°FWB        |        | 60.8°FWB |        | 64.4°FWB |        | 66.2°FWB |        | 68°FWB   |        | 71.6°FWB |        | 75.2°FWB |      |
|             |                         | 68°FDB          |        | 73.4°FDB |        | 78.8°FDB |        | 80.6°FDB |        | 82.4°FDB |        | 86°FDB   |        | 89.6°FDB |      |
|             |                         | TC              | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI   |
|             | kBtu/h                  | kW              | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       |      |
| 70%         | 23.0                    | 45.4            | 1.43   | 54.0     | 1.76   | 62.9     | 2.14   | 67.2     | 2.35   | 71.7     | 2.56   | 80.2     | 3.01   | 89.1     | 3.50 |
|             | 32.0                    | 45.4            | 1.43   | 54.0     | 1.77   | 62.9     | 2.14   | 67.2     | 2.35   | 71.7     | 2.56   | 80.2     | 3.02   | 89.1     | 3.51 |
|             | 39.2                    | 45.4            | 1.43   | 54.0     | 1.77   | 62.9     | 2.15   | 67.2     | 2.36   | 71.7     | 2.57   | 80.2     | 3.03   | 89.1     | 3.52 |
|             | 44.6                    | 45.4            | 1.46   | 54.0     | 1.81   | 62.9     | 2.19   | 67.2     | 2.40   | 71.7     | 2.62   | 80.2     | 3.08   | 89.1     | 3.59 |
|             | 50.0                    | 45.4            | 1.76   | 54.0     | 2.09   | 62.9     | 2.43   | 67.2     | 2.62   | 71.5     | 2.80   | 80.4     | 3.19   | 89.1     | 3.58 |
|             | 53.6                    | 45.4            | 1.78   | 54.0     | 2.12   | 62.9     | 2.48   | 67.2     | 2.67   | 71.5     | 2.85   | 80.4     | 3.25   | 89.1     | 3.65 |
|             | 57.2                    | 45.4            | 1.81   | 54.0     | 2.15   | 62.9     | 2.52   | 67.2     | 2.71   | 71.5     | 2.90   | 80.4     | 3.31   | 89.1     | 3.72 |
|             | 60.8                    | 45.4            | 1.84   | 54.0     | 2.19   | 62.9     | 2.57   | 67.2     | 2.76   | 71.5     | 2.96   | 80.4     | 3.36   | 89.1     | 3.79 |
|             | 64.4                    | 45.4            | 1.87   | 54.0     | 2.23   | 62.9     | 2.62   | 67.2     | 2.81   | 71.5     | 3.01   | 80.4     | 3.43   | 89.1     | 3.87 |
|             | 68.0                    | 45.4            | 1.90   | 54.0     | 2.27   | 62.9     | 2.67   | 67.2     | 2.86   | 71.5     | 3.07   | 80.4     | 3.50   | 89.1     | 3.97 |
|             | 69.8                    | 45.4            | 1.92   | 54.0     | 2.29   | 62.9     | 2.69   | 67.2     | 2.89   | 71.5     | 3.10   | 80.4     | 3.54   | 89.1     | 4.11 |
|             | 73.4                    | 45.4            | 1.95   | 54.0     | 2.33   | 62.9     | 2.75   | 67.2     | 2.99   | 71.5     | 3.26   | 80.4     | 3.81   | 89.1     | 4.41 |
|             | 77.0                    | 45.4            | 1.99   | 54.0     | 2.43   | 62.9     | 2.92   | 67.2     | 3.20   | 71.5     | 3.47   | 80.4     | 4.07   | 89.1     | 4.71 |
|             | 80.6                    | 45.4            | 2.11   | 54.0     | 2.59   | 62.9     | 3.12   | 67.2     | 3.40   | 71.5     | 3.71   | 80.4     | 4.35   | 89.1     | 5.04 |
|             | 84.2                    | 45.4            | 2.23   | 54.0     | 2.75   | 62.9     | 3.32   | 67.2     | 3.63   | 71.5     | 3.95   | 80.4     | 4.63   | 89.1     | 5.38 |
|             | 87.8                    | 45.4            | 2.36   | 54.0     | 2.91   | 62.9     | 3.53   | 67.2     | 3.86   | 71.5     | 4.20   | 80.4     | 4.94   | 89.1     | 5.74 |
|             | 91.4                    | 45.4            | 2.51   | 54.0     | 3.10   | 62.9     | 3.76   | 67.2     | 4.10   | 71.5     | 4.48   | 80.4     | 5.26   | 89.1     | 6.12 |
|             | 95.0                    | 45.4            | 2.66   | 54.0     | 3.29   | 62.9     | 3.98   | 67.2     | 4.37   | 71.5     | 4.76   | 80.4     | 5.61   | 89.1     | 6.52 |
|             | 98.6                    | 45.4            | 2.80   | 54.0     | 3.48   | 62.9     | 4.24   | 66.0     | 4.64   | 71.5     | 5.07   | 80.4     | 5.97   | 89.1     | 6.95 |
|             | 102.2                   | 45.4            | 2.97   | 54.0     | 3.69   | 62.9     | 4.50   | 65.1     | 4.93   | 71.5     | 5.38   | 80.4     | 6.35   | 89.1     | 7.40 |
| 105.8       | 42.9                    | 3.35            | 51.3   | 4.14     | 59.8   | 5.02     | 63.9   | 5.07     | 68.0   | 5.52     | 76.5   | 6.51     | 85.0   | 7.57     |      |
| 111.2       | 39.9                    | 3.64            | 48.6   | 4.50     | 56.9   | 5.58     | 61.2   | 5.72     | 65.3   | 5.95     | 73.6   | 6.84     | 82.0   | 7.96     |      |
| 116.6       | 37.7                    | 4.84            | 47.0   | 5.99     | 55.0   | 5.86     | 59.0   | 5.81     | 62.9   | 6.33     | 71.1   | 7.35     | 79.3   | 8.55     |      |
| 122.0       | 34.5                    | 4.76            | 42.1   | 5.88     | 49.1   | 6.18     | 52.6   | 6.29     | 56.1   | 6.76     | 63.5   | 7.85     | 71.3   | 8.94     |      |
| 125.6       | 26.1                    | 4.01            | 31.3   | 4.96     | 36.8   | 5.26     | 39.6   | 5.72     | 42.9   | 6.10     | 50.6   | 7.01     | 57.9   | 7.83     |      |
| 60%         | 23.0                    | 38.9            | 1.20   | 46.3     | 1.46   | 53.9     | 1.75   | 57.6     | 1.91   | 61.4     | 2.08   | 68.9     | 2.43   | 76.5     | 2.80 |
|             | 32.0                    | 38.9            | 1.20   | 46.3     | 1.47   | 53.9     | 1.76   | 57.6     | 1.92   | 61.4     | 2.08   | 68.9     | 2.43   | 76.5     | 2.81 |
|             | 39.2                    | 38.9            | 1.21   | 46.3     | 1.47   | 53.9     | 1.76   | 57.6     | 1.92   | 61.4     | 2.09   | 68.9     | 2.44   | 76.5     | 2.82 |
|             | 44.6                    | 38.9            | 1.23   | 46.3     | 1.50   | 53.9     | 1.80   | 57.6     | 1.96   | 61.4     | 2.13   | 68.9     | 2.48   | 76.5     | 2.87 |
|             | 50.0                    | 38.9            | 1.53   | 46.3     | 1.79   | 53.9     | 2.08   | 57.6     | 2.22   | 61.3     | 2.37   | 68.9     | 2.69   | 76.5     | 3.01 |
|             | 53.6                    | 38.9            | 1.55   | 46.3     | 1.82   | 53.9     | 2.12   | 57.6     | 2.26   | 61.3     | 2.41   | 68.9     | 2.74   | 76.5     | 3.06 |
|             | 57.2                    | 38.9            | 1.57   | 46.3     | 1.85   | 53.9     | 2.14   | 57.6     | 2.30   | 61.3     | 2.46   | 68.9     | 2.78   | 76.5     | 3.12 |
|             | 60.8                    | 38.9            | 1.59   | 46.3     | 1.88   | 53.9     | 2.18   | 57.6     | 2.34   | 61.3     | 2.50   | 68.9     | 2.83   | 76.5     | 3.18 |
|             | 64.4                    | 38.9            | 1.62   | 46.3     | 1.91   | 53.9     | 2.22   | 57.6     | 2.38   | 61.3     | 2.55   | 68.9     | 2.88   | 76.5     | 3.24 |
|             | 68.0                    | 38.9            | 1.64   | 46.3     | 1.95   | 53.9     | 2.26   | 57.6     | 2.43   | 61.3     | 2.60   | 68.9     | 2.94   | 76.5     | 3.31 |
|             | 69.8                    | 38.9            | 1.66   | 46.3     | 1.96   | 53.9     | 2.28   | 57.6     | 2.45   | 61.3     | 2.62   | 68.9     | 2.97   | 76.5     | 3.34 |
|             | 73.4                    | 38.9            | 1.68   | 46.3     | 2.00   | 53.9     | 2.32   | 57.6     | 2.50   | 61.3     | 2.67   | 68.9     | 3.09   | 76.5     | 3.55 |
|             | 77.0                    | 38.9            | 1.71   | 46.3     | 2.04   | 53.9     | 2.41   | 57.6     | 2.62   | 61.3     | 2.83   | 68.9     | 3.30   | 76.5     | 3.79 |
|             | 80.6                    | 38.9            | 1.78   | 46.3     | 2.15   | 53.9     | 2.57   | 57.6     | 2.79   | 61.3     | 3.02   | 68.9     | 3.51   | 76.5     | 4.04 |
|             | 84.2                    | 38.9            | 1.88   | 46.3     | 2.28   | 53.9     | 2.74   | 57.6     | 2.97   | 61.3     | 3.22   | 68.9     | 3.75   | 76.5     | 4.32 |
|             | 87.8                    | 38.9            | 2.00   | 46.3     | 2.43   | 53.9     | 2.90   | 57.6     | 3.16   | 61.3     | 3.42   | 68.9     | 3.98   | 76.5     | 4.59 |
|             | 91.4                    | 38.9            | 2.11   | 46.3     | 2.57   | 53.9     | 3.08   | 57.6     | 3.36   | 61.3     | 3.64   | 68.9     | 4.24   | 76.5     | 4.90 |
|             | 95.0                    | 38.9            | 2.23   | 46.3     | 2.73   | 53.9     | 3.27   | 57.6     | 3.56   | 61.3     | 3.87   | 68.9     | 4.52   | 76.5     | 5.21 |
|             | 98.6                    | 38.9            | 2.36   | 46.3     | 2.88   | 53.9     | 3.46   | 56.6     | 3.78   | 61.3     | 4.10   | 68.9     | 4.80   | 76.5     | 5.55 |
|             | 102.2                   | 38.9            | 2.49   | 46.3     | 3.05   | 53.9     | 3.67   | 55.8     | 4.00   | 61.3     | 4.36   | 68.9     | 5.10   | 76.5     | 5.90 |
| 105.8       | 36.7                    | 2.81            | 44.0   | 3.43     | 51.2   | 4.12     | 54.8   | 4.13     | 58.3   | 4.49     | 65.6   | 5.24     | 72.9   | 6.05     |      |
| 111.2       | 34.2                    | 3.06            | 41.7   | 3.73     | 48.8   | 4.57     | 52.4   | 4.67     | 56.0   | 4.83     | 63.1   | 5.51     | 70.3   | 6.36     |      |
| 116.6       | 32.3                    | 4.07            | 40.3   | 4.97     | 47.2   | 4.80     | 50.6   | 4.74     | 53.9   | 5.14     | 61.0   | 5.92     | 68.0   | 6.83     |      |
| 122.0       | 29.6                    | 4.00            | 36.1   | 4.88     | 42.1   | 5.06     | 45.1   | 5.13     | 48.1   | 5.49     | 54.4   | 6.32     | 61.2   | 7.14     |      |
| 125.6       | 22.4                    | 3.37            | 26.8   | 4.12     | 31.5   | 4.31     | 34.0   | 4.67     | 36.8   | 4.95     | 43.4   | 5.65     | 49.7   | 6.26     |      |



# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
| kBTu/h      |                         | kW              |      | kBTu/h   |      | kW       |      | kBTu/h   |      | kW       |      | kBTu/h   |      | kW       |      |
| 50%         | 23.0                    | 32.4            | 0.99 | 38.6     | 1.19 | 44.9     | 1.41 | 48.0     | 1.52 | 51.1     | 1.64 | 57.4     | 1.90 | 63.8     | 2.18 |
|             | 32.0                    | 32.4            | 1.00 | 38.6     | 1.19 | 44.9     | 1.41 | 48.0     | 1.52 | 51.1     | 1.65 | 57.4     | 1.91 | 63.8     | 2.18 |
|             | 39.2                    | 32.4            | 1.00 | 38.6     | 1.20 | 44.9     | 1.41 | 48.0     | 1.53 | 51.1     | 1.65 | 57.4     | 1.91 | 63.8     | 2.19 |
|             | 44.6                    | 32.4            | 1.02 | 38.6     | 1.22 | 44.9     | 1.44 | 48.0     | 1.56 | 51.1     | 1.68 | 57.4     | 1.95 | 63.8     | 2.23 |
|             | 50.0                    | 32.4            | 1.32 | 38.6     | 1.53 | 44.9     | 1.74 | 48.0     | 1.86 | 51.1     | 1.97 | 57.4     | 2.21 | 63.8     | 2.47 |
|             | 53.6                    | 32.4            | 1.33 | 38.6     | 1.54 | 44.9     | 1.77 | 48.0     | 1.88 | 51.1     | 2.01 | 57.4     | 2.25 | 63.8     | 2.51 |
|             | 57.2                    | 32.4            | 1.35 | 38.6     | 1.56 | 44.9     | 1.79 | 48.0     | 1.92 | 51.1     | 2.04 | 57.4     | 2.29 | 63.8     | 2.56 |
|             | 60.8                    | 32.4            | 1.37 | 38.6     | 1.58 | 44.9     | 1.82 | 48.0     | 1.95 | 51.1     | 2.07 | 57.4     | 2.33 | 63.8     | 2.60 |
|             | 64.4                    | 32.4            | 1.39 | 38.6     | 1.61 | 44.9     | 1.85 | 48.0     | 1.98 | 51.1     | 2.11 | 57.4     | 2.37 | 63.8     | 2.65 |
|             | 68.0                    | 32.4            | 1.41 | 38.6     | 1.63 | 44.9     | 1.88 | 48.0     | 2.02 | 51.1     | 2.14 | 57.4     | 2.42 | 63.8     | 2.70 |
|             | 69.8                    | 32.4            | 1.42 | 38.6     | 1.65 | 44.9     | 1.90 | 48.0     | 2.03 | 51.1     | 2.16 | 57.4     | 2.44 | 63.8     | 2.73 |
|             | 73.4                    | 32.4            | 1.44 | 38.6     | 1.67 | 44.9     | 1.93 | 48.0     | 2.07 | 51.1     | 2.20 | 57.4     | 2.48 | 63.8     | 2.78 |
|             | 77.0                    | 32.4            | 1.46 | 38.6     | 1.70 | 44.9     | 1.97 | 48.0     | 2.11 | 51.1     | 2.27 | 57.4     | 2.61 | 63.8     | 2.97 |
|             | 80.6                    | 32.4            | 1.49 | 38.6     | 1.77 | 44.9     | 2.08 | 48.0     | 2.24 | 51.1     | 2.41 | 57.4     | 2.77 | 63.8     | 3.17 |
|             | 84.2                    | 32.4            | 1.56 | 38.6     | 1.87 | 44.9     | 2.20 | 48.0     | 2.38 | 50.9     | 2.57 | 57.4     | 2.95 | 63.8     | 3.37 |
|             | 87.8                    | 32.4            | 1.65 | 38.6     | 1.98 | 44.9     | 2.35 | 48.0     | 2.53 | 50.9     | 2.73 | 57.4     | 3.14 | 63.8     | 3.59 |
|             | 91.4                    | 32.4            | 1.75 | 38.6     | 2.10 | 44.9     | 2.48 | 48.0     | 2.68 | 50.9     | 2.89 | 57.4     | 3.34 | 63.8     | 3.82 |
|             | 95.0                    | 32.4            | 1.85 | 38.6     | 2.21 | 44.9     | 2.62 | 48.0     | 2.83 | 50.9     | 3.06 | 57.4     | 3.54 | 63.8     | 4.05 |
|             | 98.6                    | 32.4            | 1.95 | 38.6     | 2.34 | 44.9     | 2.77 | 47.1     | 3.00 | 50.9     | 3.25 | 57.4     | 3.76 | 63.8     | 4.31 |
|             | 102.2                   | 32.4            | 2.06 | 38.6     | 2.47 | 44.9     | 2.93 | 46.5     | 3.18 | 50.9     | 3.44 | 57.4     | 3.98 | 63.8     | 4.58 |
| 105.8       | 30.6                    | 2.33            | 36.6 | 2.79     | 42.7 | 3.30     | 45.6 | 3.29     | 48.4 | 3.55     | 54.7 | 4.11     | 60.8 | 4.70     |      |
| 111.2       | 28.5                    | 2.53            | 34.7 | 3.03     | 40.6 | 3.66     | 43.7 | 3.71     | 46.5 | 3.82     | 52.6 | 4.32     | 58.7 | 4.95     |      |
| 116.6       | 26.9                    | 3.37            | 33.6 | 4.04     | 39.3 | 3.85     | 42.1 | 3.77     | 44.8 | 4.07     | 50.8 | 4.64     | 56.8 | 5.31     |      |
| 122.0       | 24.6                    | 3.31            | 30.1 | 3.96     | 35.1 | 4.06     | 37.6 | 4.08     | 40.0 | 4.35     | 45.4 | 4.96     | 51.0 | 5.55     |      |
| 125.6       | 18.7                    | 2.79            | 22.4 | 3.34     | 26.3 | 3.45     | 28.3 | 3.71     | 30.5 | 3.92     | 36.2 | 4.43     | 41.5 | 4.86     |      |

GMV-Y120WM/C-F(U)

TC—Total capacity of outdoor unit; PI—Power input of outdoor unit

| Combination | Outdoor air temp (°FDB) | Indoor air temp |       |          |       |          |       |          |       |          |       |          |       |          |       |
|-------------|-------------------------|-----------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
|             |                         | 57.2°FWB        |       | 60.8°FWB |       | 64.4°FWB |       | 66.2°FWB |       | 68°FWB   |       | 71.6°FWB |       | 75.2°FWB |       |
|             |                         | 68°FDB          |       | 73.4°FDB |       | 78.8°FDB |       | 80.6°FDB |       | 82.4°FDB |       | 86°FDB   |       | 89.6°FDB |       |
|             |                         | TC              | PI    | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    |
| kBTu/h      |                         | kW              |       | kBTu/h   |       | kW       |       | kBTu/h   |       | kW       |       | kBTu/h   |       | kW       |       |
| 135%        | 23.0                    | 105.4           | 4.42  | 125.6    | 5.38  | 145.7    | 5.45  | 151.3    | 5.48  | 154.0    | 5.51  | 158.0    | 5.57  | 161.9    | 5.63  |
|             | 32.0                    | 105.4           | 4.43  | 125.6    | 5.39  | 145.7    | 5.46  | 151.3    | 5.49  | 154.0    | 5.52  | 158.0    | 5.58  | 161.9    | 5.64  |
|             | 39.2                    | 105.4           | 4.45  | 125.6    | 5.41  | 145.7    | 5.48  | 151.3    | 5.51  | 154.0    | 5.54  | 158.0    | 5.60  | 161.9    | 5.66  |
|             | 44.6                    | 105.4           | 4.53  | 125.6    | 5.51  | 145.7    | 5.58  | 151.3    | 5.61  | 154.0    | 5.64  | 158.0    | 5.71  | 161.9    | 5.77  |
|             | 50.0                    | 105.4           | 4.61  | 125.6    | 5.63  | 145.7    | 6.70  | 151.3    | 6.85  | 153.0    | 6.71  | 156.9    | 6.43  | 160.7    | 6.13  |
|             | 53.6                    | 105.4           | 4.69  | 125.6    | 5.74  | 145.7    | 6.83  | 149.1    | 6.81  | 151.3    | 6.67  | 154.7    | 6.37  | 158.6    | 6.28  |
|             | 57.2                    | 105.4           | 4.78  | 125.6    | 5.85  | 145.3    | 6.91  | 147.4    | 6.78  | 149.1    | 6.63  | 153.0    | 6.58  | 156.9    | 6.64  |
|             | 60.8                    | 105.4           | 4.87  | 125.6    | 5.97  | 143.6    | 6.89  | 145.3    | 6.83  | 147.0    | 6.86  | 150.9    | 6.93  | 154.7    | 6.99  |
|             | 64.4                    | 105.4           | 4.96  | 125.6    | 6.09  | 141.4    | 7.14  | 143.1    | 7.18  | 145.3    | 7.22  | 149.1    | 7.29  | 153.0    | 7.36  |
|             | 68.0                    | 105.4           | 5.07  | 125.6    | 6.48  | 139.3    | 7.49  | 141.4    | 7.53  | 143.1    | 7.57  | 147.0    | 7.64  | 150.9    | 7.72  |
|             | 69.8                    | 105.4           | 5.20  | 125.6    | 6.71  | 138.4    | 7.67  | 140.6    | 7.71  | 142.3    | 7.75  | 146.1    | 7.83  | 150.0    | 7.90  |
|             | 73.4                    | 105.4           | 5.58  | 125.6    | 7.20  | 136.7    | 8.02  | 138.4    | 8.06  | 140.1    | 8.10  | 144.0    | 8.18  | 147.9    | 8.26  |
|             | 77.0                    | 105.4           | 5.96  | 125.6    | 7.71  | 134.6    | 8.37  | 136.7    | 8.41  | 138.4    | 8.46  | 142.3    | 8.54  | 146.1    | 8.63  |
|             | 80.6                    | 105.4           | 6.36  | 125.6    | 8.25  | 132.9    | 7.37  | 134.6    | 8.77  | 136.3    | 8.81  | 140.1    | 8.91  | 144.0    | 9.00  |
|             | 84.2                    | 105.4           | 6.79  | 125.6    | 8.81  | 130.7    | 9.07  | 132.4    | 9.12  | 134.6    | 9.18  | 138.4    | 9.27  | 142.3    | 9.37  |
|             | 87.8                    | 105.4           | 7.25  | 125.1    | 9.33  | 128.6    | 9.43  | 130.7    | 9.49  | 132.4    | 9.53  | 136.3    | 9.64  | 140.1    | 9.74  |
|             | 91.4                    | 105.4           | 7.72  | 123.0    | 9.68  | 126.9    | 9.77  | 128.6    | 9.84  | 130.7    | 9.89  | 134.6    | 10.00 | 138.0    | 10.12 |
|             | 95.0                    | 105.4           | 8.23  | 120.9    | 10.03 | 124.7    | 10.15 | 126.9    | 10.20 | 128.6    | 10.26 | 132.4    | 10.38 | 136.3    | 10.49 |
|             | 98.6                    | 105.4           | 8.76  | 119.1    | 10.39 | 123.0    | 10.51 | 124.7    | 10.57 | 126.9    | 10.63 | 130.3    | 10.75 | 134.1    | 10.88 |
|             | 102.2                   | 105.4           | 9.33  | 117.0    | 10.74 | 120.9    | 10.86 | 123.0    | 10.93 | 124.7    | 11.00 | 128.6    | 11.12 | 132.4    | 11.25 |
| 105.8       | 99.6                    | 10.38           | 114.8 | 12.63    | 118.5 | 12.79    | 120.6 | 11.83    | 122.3 | 11.90    | 126.1 | 12.04    | 129.9 | 12.16    |       |
| 111.2       | 92.8                    | 11.28           | 108.8 | 13.74    | 112.9 | 14.21    | 115.4 | 13.36    | 117.4 | 12.82    | 121.3 | 12.66    | 125.4 | 12.79    |       |
| 116.6       | 87.5                    | 15.01           | 105.1 | 18.28    | 109.1 | 14.92    | 111.4 | 13.57    | 113.1 | 13.64    | 117.2 | 13.59    | 121.3 | 13.74    |       |
| 122.0       | 80.1                    | 14.74           | 94.3  | 17.95    | 97.4  | 15.73    | 99.3  | 14.69    | 100.9 | 14.56    | 104.6 | 14.53    | 109.0 | 14.36    |       |
| 125.6       | 60.7                    | 12.43           | 70.1  | 15.14    | 73.0  | 13.40    | 74.8  | 13.36    | 77.1  | 13.13    | 83.4  | 12.97    | 88.6  | 12.58    |       |

| Combination | Outdoor air temp (°FDB) | Indoor air temp |       |          |       |          |       |          |       |          |       |          |       |          |       |
|-------------|-------------------------|-----------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
|             |                         | 57.2°FWB        |       | 60.8°FWB |       | 64.4°FWB |       | 66.2°FWB |       | 68°FWB   |       | 71.6°FWB |       | 75.2°FWB |       |
|             |                         | 68°FDB          |       | 73.4°FDB |       | 78.8°FDB |       | 80.6°FDB |       | 82.4°FDB |       | 86°FDB   |       | 89.6°FDB |       |
|             |                         | TC              | PI    | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    |
|             |                         | kBtu/h          | kW    | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW    |
| 120%        | 23.0                    | 97.3            | 3.94  | 115.7    | 5.09  | 134.6    | 5.41  | 144.0    | 5.44  | 151.5    | 5.47  | 154.9    | 5.53  | 158.3    | 5.59  |
|             | 32.0                    | 97.3            | 3.94  | 115.7    | 5.10  | 134.6    | 5.42  | 144.0    | 5.45  | 151.5    | 5.48  | 154.9    | 5.54  | 158.3    | 5.60  |
|             | 39.2                    | 97.3            | 3.96  | 115.7    | 5.12  | 134.6    | 5.44  | 144.0    | 5.47  | 151.5    | 5.50  | 154.9    | 5.56  | 158.3    | 5.62  |
|             | 44.6                    | 97.3            | 4.03  | 115.7    | 5.22  | 134.6    | 5.54  | 144.0    | 5.57  | 151.5    | 5.60  | 154.9    | 5.66  | 158.3    | 5.72  |
|             | 50.0                    | 97.3            | 4.20  | 115.7    | 5.13  | 134.6    | 6.11  | 144.0    | 6.60  | 150.9    | 6.89  | 154.3    | 6.62  | 157.7    | 6.36  |
|             | 53.6                    | 97.3            | 4.29  | 115.7    | 5.23  | 134.6    | 6.23  | 144.0    | 6.73  | 148.7    | 6.85  | 152.1    | 6.59  | 155.6    | 6.32  |
|             | 57.2                    | 97.3            | 4.37  | 115.7    | 5.34  | 134.6    | 6.35  | 144.0    | 6.86  | 146.6    | 6.81  | 150.4    | 6.55  | 153.9    | 6.59  |
|             | 60.8                    | 97.3            | 4.45  | 115.7    | 5.44  | 134.6    | 6.47  | 143.1    | 6.91  | 144.9    | 6.82  | 148.3    | 6.89  | 151.7    | 6.94  |
|             | 64.4                    | 97.3            | 4.53  | 115.7    | 5.55  | 134.6    | 6.70  | 141.0    | 7.14  | 142.7    | 7.17  | 146.1    | 7.24  | 150.0    | 7.30  |
|             | 68.0                    | 97.3            | 4.62  | 115.7    | 5.77  | 134.6    | 7.20  | 139.3    | 7.49  | 141.0    | 7.52  | 144.4    | 7.59  | 147.9    | 7.65  |
|             | 69.8                    | 97.3            | 4.66  | 115.7    | 5.97  | 134.6    | 7.45  | 138.0    | 7.67  | 139.7    | 7.70  | 143.6    | 7.76  | 147.0    | 7.84  |
|             | 73.4                    | 97.3            | 4.99  | 115.7    | 6.40  | 134.6    | 7.98  | 136.3    | 8.01  | 138.0    | 8.05  | 141.4    | 8.13  | 144.9    | 8.19  |
|             | 77.0                    | 97.3            | 5.32  | 115.7    | 6.85  | 132.4    | 8.33  | 134.1    | 8.36  | 135.9    | 8.40  | 139.7    | 8.48  | 143.1    | 8.56  |
|             | 80.6                    | 97.3            | 5.69  | 115.7    | 7.32  | 130.7    | 8.67  | 132.4    | 8.72  | 134.1    | 8.76  | 137.6    | 8.84  | 141.0    | 8.92  |
|             | 84.2                    | 97.3            | 6.06  | 115.7    | 7.82  | 128.6    | 9.02  | 130.3    | 9.07  | 132.0    | 9.11  | 135.4    | 9.20  | 139.3    | 9.29  |
|             | 87.8                    | 97.3            | 6.47  | 115.7    | 8.34  | 126.9    | 9.38  | 128.6    | 9.42  | 130.3    | 9.47  | 133.7    | 9.57  | 137.1    | 9.66  |
|             | 91.4                    | 97.3            | 6.89  | 115.7    | 8.91  | 124.7    | 9.73  | 126.4    | 9.78  | 128.1    | 9.82  | 131.6    | 9.93  | 135.0    | 10.03 |
|             | 95.0                    | 97.3            | 7.33  | 115.7    | 9.49  | 122.6    | 10.08 | 124.3    | 10.13 | 126.4    | 10.19 | 129.9    | 10.30 | 133.3    | 10.40 |
|             | 98.6                    | 97.3            | 7.80  | 115.7    | 10.11 | 120.9    | 10.44 | 122.6    | 10.50 | 124.3    | 10.55 | 127.7    | 10.66 | 131.1    | 10.78 |
|             | 102.2                   | 97.3            | 8.30  | 115.3    | 10.67 | 118.7    | 10.80 | 120.4    | 10.86 | 122.1    | 10.92 | 126.0    | 11.04 | 129.4    | 11.15 |
| 105.8       | 91.9                    | 9.24            | 109.9 | 11.95    | 116.5 | 12.70    | 118.1 | 11.76    | 120.2 | 11.82    | 123.6 | 11.94    | 127.0 | 12.07    |       |
| 111.2       | 85.6                    | 10.04           | 104.1 | 13.00    | 110.9 | 14.11    | 113.1 | 13.28    | 115.4 | 12.74    | 119.0 | 12.56    | 122.6 | 12.69    |       |
| 116.6       | 80.7                    | 13.37           | 100.7 | 17.30    | 107.3 | 14.82    | 109.1 | 13.48    | 111.3 | 13.55    | 114.9 | 13.49    | 118.6 | 13.63    |       |
| 122.0       | 73.9                    | 13.12           | 90.3  | 16.98    | 95.7  | 15.63    | 97.3  | 14.59    | 99.2  | 14.47    | 102.6 | 14.42    | 106.6 | 14.25    |       |
| 125.6       | 56.0                    | 11.07           | 67.1  | 14.33    | 71.7  | 13.31    | 73.3  | 13.28    | 75.9  | 13.04    | 81.8  | 12.87    | 86.6  | 12.49    |       |
| 110%        | 23.0                    | 89.1            | 3.48  | 106.3    | 4.48  | 123.4    | 5.38  | 132.0    | 5.41  | 140.6    | 5.44  | 151.5    | 5.49  | 154.6    | 5.54  |
|             | 32.0                    | 89.1            | 3.49  | 106.3    | 4.49  | 123.4    | 5.39  | 132.0    | 5.42  | 140.6    | 5.45  | 151.5    | 5.50  | 154.6    | 5.55  |
|             | 39.2                    | 89.1            | 3.50  | 106.3    | 4.50  | 123.4    | 5.41  | 132.0    | 5.44  | 140.6    | 5.47  | 151.5    | 5.52  | 154.6    | 5.57  |
|             | 44.6                    | 89.1            | 3.57  | 106.3    | 4.59  | 123.4    | 5.51  | 132.0    | 5.54  | 140.6    | 5.57  | 151.5    | 5.62  | 154.6    | 5.67  |
|             | 50.0                    | 89.1            | 3.81  | 106.3    | 4.65  | 123.4    | 5.53  | 132.0    | 5.97  | 140.6    | 6.43  | 151.3    | 6.82  | 154.7    | 6.59  |
|             | 53.6                    | 89.1            | 3.89  | 106.3    | 4.74  | 123.4    | 5.63  | 132.0    | 6.09  | 140.6    | 6.55  | 149.6    | 6.79  | 152.6    | 6.55  |
|             | 57.2                    | 89.1            | 3.96  | 106.3    | 4.82  | 123.4    | 5.74  | 132.0    | 6.20  | 140.6    | 6.67  | 147.4    | 6.79  | 150.9    | 6.54  |
|             | 60.8                    | 89.1            | 4.03  | 106.3    | 4.92  | 123.4    | 5.85  | 132.0    | 6.32  | 140.6    | 6.81  | 145.7    | 6.83  | 148.7    | 6.90  |
|             | 64.4                    | 89.1            | 4.11  | 106.3    | 5.01  | 123.4    | 5.97  | 132.0    | 6.50  | 140.6    | 7.13  | 143.6    | 7.18  | 147.0    | 7.25  |
|             | 68.0                    | 89.1            | 4.19  | 106.3    | 5.12  | 123.4    | 6.32  | 132.0    | 6.98  | 138.4    | 7.48  | 141.9    | 7.53  | 144.9    | 7.60  |
|             | 69.8                    | 89.1            | 4.23  | 106.3    | 5.27  | 123.4    | 6.55  | 132.0    | 7.24  | 137.6    | 7.65  | 140.6    | 7.71  | 144.0    | 7.78  |
|             | 73.4                    | 89.1            | 4.43  | 106.3    | 5.65  | 123.4    | 7.02  | 132.0    | 7.76  | 135.4    | 7.99  | 138.9    | 8.07  | 141.9    | 8.14  |
|             | 77.0                    | 89.1            | 4.72  | 106.3    | 6.04  | 123.4    | 7.51  | 132.0    | 8.32  | 133.7    | 8.34  | 136.7    | 8.42  | 140.1    | 8.49  |
|             | 80.6                    | 89.1            | 5.04  | 106.3    | 6.46  | 123.4    | 8.03  | 129.9    | 8.67  | 131.6    | 8.69  | 135.0    | 8.77  | 138.0    | 8.85  |
|             | 84.2                    | 89.1            | 5.38  | 106.3    | 6.89  | 123.4    | 8.58  | 128.1    | 9.02  | 129.9    | 9.06  | 132.9    | 9.14  | 136.3    | 9.22  |
|             | 87.8                    | 89.1            | 5.73  | 106.3    | 7.35  | 123.4    | 9.16  | 126.0    | 9.37  | 127.7    | 9.41  | 131.1    | 9.49  | 134.1    | 9.58  |
|             | 91.4                    | 89.1            | 6.09  | 106.3    | 7.83  | 122.6    | 9.66  | 124.3    | 9.72  | 126.0    | 9.76  | 129.0    | 9.85  | 132.4    | 9.95  |
|             | 95.0                    | 89.1            | 6.48  | 106.3    | 8.34  | 120.9    | 10.01 | 122.1    | 10.07 | 123.9    | 10.12 | 126.9    | 10.22 | 130.3    | 10.31 |
|             | 98.6                    | 89.1            | 6.90  | 106.3    | 8.88  | 118.7    | 10.38 | 120.4    | 10.42 | 121.7    | 10.47 | 125.1    | 10.58 | 128.1    | 10.67 |
|             | 102.2                   | 89.1            | 7.33  | 106.3    | 9.46  | 116.6    | 10.73 | 118.3    | 10.78 | 120.0    | 10.84 | 123.0    | 10.94 | 126.4    | 11.05 |
| 105.8       | 84.2                    | 8.17            | 101.0 | 10.51    | 114.8 | 12.62    | 116.1 | 11.68    | 117.8 | 11.74    | 120.8 | 11.85    | 124.2 | 11.96    |       |
| 111.2       | 78.4                    | 8.88            | 95.7  | 11.43    | 109.4 | 14.02    | 111.2 | 13.19    | 113.1 | 12.65    | 116.2 | 12.46    | 119.9 | 12.58    |       |
| 116.6       | 74.0                    | 11.82           | 92.5  | 15.21    | 105.8 | 14.72    | 107.2 | 13.39    | 109.0 | 13.46    | 112.3 | 13.38    | 116.0 | 13.51    |       |
| 122.0       | 67.8                    | 11.60           | 82.9  | 14.93    | 94.4  | 15.52    | 95.6  | 14.50    | 97.2  | 14.37    | 100.2 | 14.30    | 104.2 | 14.12    |       |
| 125.6       | 51.3                    | 9.79            | 61.6  | 12.60    | 70.7  | 13.22    | 72.1  | 13.19    | 74.3  | 12.96    | 79.9  | 12.77    | 84.7  | 12.37    |       |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp (°FDB) | Indoor air temp |        |          |        |          |        |          |        |          |        |          |        |          |       |
|-------------|-------------------------|-----------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|-------|
|             |                         | 57.2°FWB        |        | 60.8°FWB |        | 64.4°FWB |        | 66.2°FWB |        | 68°FWB   |        | 71.6°FWB |        | 75.2°FWB |       |
|             |                         | 68°FDB          |        | 73.4°FDB |        | 78.8°FDB |        | 80.6°FDB |        | 82.4°FDB |        | 86°FDB   |        | 89.6°FDB |       |
|             |                         | TC              | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI     | TC       | PI    |
|             | kBtu/h                  | kW              | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       | kBtu/h | kW       |       |
| 100%        | 23.0                    | 81.0            | 3.04   | 96.4     | 3.90   | 112.3    | 4.86   | 120.0    | 5.37   | 127.7    | 5.40   | 143.6    | 5.45   | 151.6    | 5.49  |
|             | 32.0                    | 81.0            | 3.05   | 96.4     | 3.90   | 112.3    | 4.87   | 120.0    | 5.38   | 127.7    | 5.41   | 143.6    | 5.46   | 151.6    | 5.50  |
|             | 39.2                    | 81.0            | 3.06   | 96.4     | 3.92   | 112.3    | 4.89   | 120.0    | 5.40   | 127.7    | 5.43   | 143.6    | 5.48   | 151.6    | 5.53  |
|             | 44.6                    | 81.0            | 3.12   | 96.4     | 3.99   | 112.3    | 4.98   | 120.0    | 5.50   | 127.7    | 5.53   | 143.6    | 5.58   | 151.6    | 5.63  |
|             | 50.0                    | 81.0            | 3.45   | 96.4     | 4.19   | 112.3    | 4.96   | 120.0    | 5.35   | 127.7    | 5.78   | 143.5    | 6.54   | 151.7    | 6.80  |
|             | 53.6                    | 81.0            | 3.50   | 96.4     | 4.25   | 112.3    | 5.02   | 120.0    | 5.42   | 127.7    | 5.89   | 143.5    | 6.66   | 149.5    | 6.75  |
|             | 57.2                    | 81.0            | 3.56   | 96.4     | 4.32   | 112.3    | 5.11   | 120.0    | 5.52   | 127.7    | 6.00   | 143.5    | 6.77   | 147.8    | 6.69  |
|             | 60.8                    | 81.0            | 3.64   | 96.4     | 4.42   | 112.3    | 5.22   | 120.0    | 5.65   | 127.7    | 6.14   | 143.0    | 6.92   | 145.7    | 6.84  |
|             | 64.4                    | 81.0            | 3.72   | 96.4     | 4.52   | 112.3    | 5.33   | 120.0    | 5.76   | 127.7    | 6.25   | 141.0    | 7.06   | 144.0    | 7.16  |
|             | 68.0                    | 81.0            | 3.77   | 96.4     | 4.59   | 112.3    | 5.50   | 120.0    | 6.06   | 127.7    | 6.65   | 138.8    | 7.43   | 141.8    | 7.54  |
|             | 69.8                    | 81.0            | 3.81   | 96.4     | 4.63   | 112.3    | 5.69   | 120.0    | 6.27   | 127.7    | 6.88   | 138.0    | 7.68   | 141.0    | 7.75  |
|             | 73.4                    | 81.0            | 3.91   | 96.4     | 4.95   | 112.3    | 6.12   | 120.0    | 6.74   | 127.7    | 7.40   | 136.3    | 8.13   | 138.8    | 8.20  |
|             | 77.0                    | 81.0            | 4.16   | 96.4     | 5.26   | 112.3    | 6.51   | 120.0    | 7.17   | 127.7    | 7.91   | 134.1    | 8.42   | 137.2    | 8.50  |
|             | 80.6                    | 81.0            | 4.44   | 96.4     | 5.62   | 112.3    | 6.98   | 120.0    | 7.69   | 127.7    | 8.49   | 132.0    | 8.72   | 135.0    | 8.80  |
|             | 84.2                    | 81.0            | 4.71   | 96.4     | 6.01   | 112.3    | 7.47   | 120.0    | 8.23   | 127.3    | 8.99   | 130.2    | 9.14   | 133.2    | 9.22  |
|             | 87.8                    | 81.0            | 5.01   | 96.4     | 6.40   | 112.3    | 7.96   | 120.0    | 8.86   | 125.7    | 9.36   | 127.2    | 9.51   | 131.1    | 9.60  |
|             | 91.4                    | 81.0            | 5.33   | 96.4     | 6.82   | 112.3    | 8.49   | 120.0    | 9.38   | 123.4    | 9.70   | 126.6    | 9.79   | 129.4    | 9.87  |
|             | 95.0                    | 81.0            | 5.67   | 96.4     | 7.26   | 112.3    | 9.05   | 120.0    | 10.00  | 121.3    | 10.05  | 124.2    | 10.14  | 127.2    | 10.23 |
|             | 98.6                    | 81.0            | 6.04   | 96.4     | 7.73   | 112.3    | 9.64   | 117.9    | 10.36  | 119.8    | 10.41  | 122.4    | 10.49  | 125.4    | 10.58 |
|             | 102.2                   | 81.0            | 6.43   | 96.4     | 8.23   | 112.3    | 10.26  | 116.3    | 10.70  | 116.9    | 10.76  | 120.8    | 10.83  | 122.4    | 10.93 |
| 105.8       | 76.5                    | 7.14            | 91.6   | 9.15     | 106.7  | 11.40    | 114.1  | 11.60    | 115.3  | 11.66    | 118.2  | 11.76    | 121.2  | 11.87    |       |
| 111.2       | 71.3                    | 7.77            | 86.8   | 9.94     | 101.6  | 12.67    | 109.2  | 13.10    | 110.7  | 12.56    | 113.8  | 12.37    | 117.0  | 12.48    |       |
| 116.6       | 67.2                    | 10.33           | 83.9   | 13.23    | 98.3   | 13.30    | 105.4  | 13.30    | 106.7  | 13.37    | 109.9  | 13.28    | 113.2  | 13.40    |       |
| 122.0       | 61.6                    | 10.15           | 75.2   | 12.99    | 87.7   | 14.03    | 94.0   | 14.40    | 95.2   | 14.27    | 98.1   | 14.20    | 101.8  | 14.02    |       |
| 125.6       | 46.7                    | 8.56            | 55.9   | 10.96    | 65.7   | 11.95    | 70.8   | 13.10    | 72.8   | 12.86    | 78.2   | 12.68    | 82.7   | 12.28    |       |
| 90%         | 23.0                    | 72.9            | 2.66   | 86.8     | 3.36   | 101.1    | 4.15   | 108.0    | 4.59   | 114.9    | 5.04   | 129.0    | 5.40   | 143.1    | 5.45  |
|             | 32.0                    | 72.9            | 2.66   | 86.8     | 3.37   | 101.1    | 4.16   | 108.0    | 4.59   | 114.9    | 5.05   | 129.0    | 5.41   | 143.1    | 5.46  |
|             | 39.2                    | 72.9            | 2.67   | 86.8     | 3.38   | 101.1    | 4.17   | 108.0    | 4.61   | 114.9    | 5.07   | 129.0    | 5.43   | 143.1    | 5.48  |
|             | 44.6                    | 72.9            | 2.72   | 86.8     | 3.44   | 101.1    | 4.25   | 108.0    | 4.70   | 114.9    | 5.17   | 129.0    | 5.53   | 143.1    | 5.58  |
|             | 50.0                    | 72.9            | 3.01   | 86.8     | 3.62   | 101.1    | 4.23   | 108.0    | 4.77   | 114.9    | 5.08   | 129.2    | 5.82   | 143.1    | 6.59  |
|             | 53.6                    | 72.9            | 3.05   | 86.8     | 3.66   | 101.1    | 4.29   | 108.0    | 4.83   | 114.9    | 5.18   | 129.2    | 5.92   | 143.1    | 6.68  |
|             | 57.2                    | 72.9            | 3.10   | 86.8     | 3.73   | 101.1    | 4.36   | 108.0    | 4.91   | 114.9    | 5.27   | 129.2    | 6.02   | 143.1    | 6.79  |
|             | 60.8                    | 72.9            | 3.17   | 86.8     | 3.81   | 101.1    | 4.46   | 108.0    | 5.02   | 114.9    | 5.38   | 129.2    | 6.16   | 142.7    | 6.92  |
|             | 64.4                    | 72.9            | 3.24   | 86.8     | 3.90   | 101.1    | 4.55   | 108.0    | 5.11   | 114.9    | 5.49   | 129.2    | 6.30   | 141.4    | 7.17  |
|             | 68.0                    | 72.9            | 3.29   | 86.8     | 3.96   | 101.1    | 4.70   | 108.0    | 5.22   | 114.9    | 5.72   | 129.2    | 6.77   | 138.9    | 7.47  |
|             | 69.8                    | 72.9            | 3.33   | 86.8     | 4.00   | 101.1    | 4.86   | 108.0    | 5.39   | 114.9    | 5.91   | 129.2    | 7.00   | 138.0    | 7.64  |
|             | 73.4                    | 72.9            | 3.41   | 86.8     | 4.27   | 101.1    | 5.22   | 108.0    | 5.80   | 114.9    | 6.33   | 129.2    | 7.52   | 135.9    | 8.03  |
|             | 77.0                    | 72.9            | 3.63   | 86.8     | 4.54   | 101.1    | 5.56   | 108.0    | 6.19   | 114.9    | 6.77   | 129.2    | 8.04   | 134.1    | 8.36  |
|             | 80.6                    | 72.9            | 3.88   | 86.8     | 4.85   | 101.1    | 5.96   | 108.0    | 6.60   | 114.9    | 7.25   | 129.2    | 8.58   | 132.0    | 8.72  |
|             | 84.2                    | 72.9            | 4.11   | 86.8     | 5.18   | 101.1    | 6.38   | 108.0    | 7.06   | 114.9    | 7.74   | 127.7    | 9.00   | 130.3    | 9.08  |
|             | 87.8                    | 72.9            | 4.37   | 86.8     | 5.52   | 101.1    | 6.80   | 108.0    | 7.53   | 114.9    | 8.26   | 125.6    | 9.32   | 128.1    | 9.44  |
|             | 91.4                    | 72.9            | 4.65   | 86.8     | 5.88   | 101.1    | 7.25   | 108.0    | 8.01   | 114.9    | 8.78   | 123.9    | 9.70   | 126.4    | 9.79  |
|             | 95.0                    | 72.9            | 4.95   | 86.8     | 6.26   | 101.1    | 7.73   | 108.0    | 8.54   | 114.9    | 9.39   | 121.7    | 10.05  | 124.3    | 10.14 |
|             | 98.6                    | 72.9            | 5.27   | 86.8     | 6.67   | 101.1    | 8.23   | 106.1    | 8.85   | 114.9    | 10.05  | 119.6    | 10.41  | 122.6    | 10.39 |
|             | 102.2                   | 72.9            | 5.61   | 86.8     | 7.10   | 101.1    | 8.77   | 104.6    | 9.14   | 114.9    | 10.65  | 117.9    | 10.80  | 120.4    | 10.77 |
| 105.8       | 68.9                    | 6.23            | 82.4   | 7.89     | 96.0   | 9.74     | 102.7  | 9.91     | 109.3  | 10.90    | 115.9  | 11.66    | 118.4  | 11.76    |       |
| 111.2       | 64.2                    | 6.78            | 78.1   | 8.58     | 91.5   | 10.82    | 98.3   | 11.19    | 104.9  | 11.74    | 111.5  | 12.26    | 114.3  | 12.37    |       |
| 116.6       | 60.5                    | 9.02            | 75.5   | 11.41    | 88.4   | 11.36    | 94.8   | 11.36    | 101.1  | 12.49    | 107.7  | 13.17    | 110.6  | 13.29    |       |
| 122.0       | 55.4                    | 8.85            | 67.7   | 11.21    | 78.9   | 11.98    | 84.6   | 12.30    | 90.2   | 13.34    | 96.2   | 14.07    | 99.4   | 13.89    |       |
| 125.6       | 42.0                    | 7.47            | 50.3   | 9.45     | 59.1   | 10.20    | 63.7   | 11.19    | 69.0   | 12.02    | 76.7   | 12.56    | 80.8   | 12.17    |       |

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |       |          |       |          |       |          |       |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |       | 68°FWB   |       | 71.6°FWB |       | 75.2°FWB |       |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |       | 82.4°FDB |       | 86°FDB   |       | 89.6°FDB |       |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI    | TC       | PI    | TC       | PI    | TC       | PI    |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW    | kBtu/h   | kW    |
| 80%         | 23.0                    | 64.8            | 2.29 | 77.1     | 2.83 | 89.8     | 3.52 | 96.0     | 3.87  | 102.0    | 4.23  | 114.9    | 5.02  | 127.3    | 5.38  |
|             | 32.0                    | 64.8            | 2.30 | 77.1     | 2.84 | 89.8     | 3.52 | 96.0     | 3.88  | 102.0    | 4.24  | 114.9    | 5.03  | 127.3    | 5.39  |
|             | 39.2                    | 64.8            | 2.31 | 77.1     | 2.85 | 89.8     | 3.54 | 96.0     | 3.89  | 102.0    | 4.26  | 114.9    | 5.05  | 127.3    | 5.41  |
|             | 44.6                    | 64.8            | 2.35 | 77.1     | 2.90 | 89.8     | 3.60 | 96.0     | 3.97  | 102.0    | 4.33  | 114.9    | 5.14  | 127.3    | 5.51  |
|             | 50.0                    | 64.8            | 2.74 | 77.1     | 3.27 | 89.8     | 3.85 | 96.0     | 4.15  | 102.2    | 4.44  | 114.8    | 5.08  | 127.3    | 5.90  |
|             | 53.6                    | 64.8            | 2.78 | 77.1     | 3.33 | 89.8     | 3.92 | 96.0     | 4.23  | 102.2    | 4.53  | 114.8    | 5.17  | 127.3    | 5.85  |
|             | 57.2                    | 64.8            | 2.83 | 77.1     | 3.40 | 89.8     | 3.99 | 96.0     | 4.30  | 102.2    | 4.61  | 114.8    | 5.26  | 127.3    | 5.98  |
|             | 60.8                    | 64.8            | 2.87 | 77.1     | 3.45 | 89.8     | 4.07 | 96.0     | 4.38  | 102.2    | 4.68  | 114.8    | 5.37  | 127.3    | 6.20  |
|             | 64.4                    | 64.8            | 2.92 | 77.1     | 3.52 | 89.8     | 4.16 | 96.0     | 4.47  | 102.2    | 4.77  | 114.8    | 5.49  | 127.3    | 6.63  |
|             | 68.0                    | 64.8            | 2.98 | 77.1     | 3.58 | 89.8     | 4.23 | 96.0     | 4.56  | 102.2    | 4.88  | 114.8    | 5.69  | 127.3    | 6.87  |
|             | 69.8                    | 64.8            | 3.01 | 77.1     | 3.61 | 89.8     | 4.27 | 96.0     | 4.61  | 102.2    | 4.99  | 114.8    | 5.90  | 127.3    | 7.36  |
|             | 73.4                    | 64.8            | 3.06 | 77.1     | 3.69 | 89.8     | 4.47 | 96.0     | 4.91  | 102.2    | 5.34  | 114.8    | 6.31  | 127.3    | 7.87  |
|             | 77.0                    | 64.8            | 3.15 | 77.1     | 3.92 | 89.8     | 4.78 | 96.0     | 5.24  | 102.2    | 5.70  | 114.8    | 6.76  | 127.3    | 8.40  |
|             | 80.6                    | 64.8            | 3.36 | 77.1     | 4.18 | 89.8     | 5.09 | 96.0     | 5.59  | 102.2    | 6.11  | 114.8    | 7.21  | 127.3    | 8.69  |
|             | 84.2                    | 64.8            | 3.57 | 77.1     | 4.45 | 89.8     | 5.43 | 96.0     | 5.96  | 101.8    | 6.52  | 114.8    | 7.70  | 127.3    | 9.01  |
|             | 87.8                    | 64.8            | 3.79 | 77.1     | 4.73 | 89.8     | 5.78 | 96.0     | 6.35  | 101.8    | 6.95  | 114.8    | 8.21  | 125.1    | 9.33  |
|             | 91.4                    | 64.8            | 4.03 | 77.1     | 5.27 | 89.8     | 6.16 | 96.0     | 6.76  | 101.8    | 7.40  | 114.8    | 8.76  | 123.4    | 9.67  |
|             | 95.0                    | 64.8            | 4.27 | 77.1     | 5.27 | 89.8     | 6.55 | 96.0     | 7.21  | 101.8    | 7.88  | 114.8    | 9.35  | 121.3    | 10.02 |
| 98.6        | 64.8                    | 4.53            | 77.1 | 5.67     | 89.8 | 6.97     | 94.3 | 7.68     | 101.8 | 8.39     | 114.8 | 9.96     | 119.6 | 10.39    |       |
| 102.2       | 64.8                    | 4.80            | 77.1 | 6.02     | 89.8 | 7.41     | 93.0 | 8.18     | 101.8 | 8.94     | 114.8 | 10.61    | 117.4 | 10.78    |       |
| 105.8       | 61.2                    | 5.38            | 73.3 | 6.64     | 85.4 | 8.25     | 91.3 | 8.36     | 96.8  | 9.14     | 109.3 | 10.85    | 115.6 | 11.63    |       |
| 111.2       | 57.0                    | 5.85            | 69.4 | 7.22     | 81.3 | 9.17     | 87.4 | 9.45     | 93.0  | 9.85     | 105.2 | 11.41    | 111.6 | 12.23    |       |
| 116.6       | 53.8                    | 7.79            | 67.1 | 9.61     | 78.6 | 9.63     | 84.3 | 9.59     | 89.6  | 10.48    | 101.6 | 12.25    | 107.9 | 13.13    |       |
| 122.0       | 49.2                    | 7.65            | 60.2 | 9.43     | 70.2 | 10.15    | 75.2 | 10.38    | 79.9  | 11.19    | 90.7  | 13.10    | 97.0  | 13.73    |       |
| 125.6       | 37.3                    | 6.45            | 44.7 | 7.96     | 52.6 | 8.65     | 56.6 | 9.45     | 61.1  | 10.09    | 72.3  | 11.69    | 78.8  | 12.03    |       |
| 70%         | 23.0                    | 56.7            | 1.95 | 67.5     | 2.42 | 78.6     | 2.93 | 84.0     | 3.21  | 89.6     | 3.50  | 100.3    | 4.13  | 111.4    | 4.80  |
|             | 32.0                    | 56.7            | 1.96 | 67.5     | 2.42 | 78.6     | 2.94 | 84.0     | 3.22  | 89.6     | 3.51  | 100.3    | 4.13  | 111.4    | 4.81  |
|             | 39.2                    | 56.7            | 1.96 | 67.5     | 2.43 | 78.6     | 2.95 | 84.0     | 3.23  | 89.6     | 3.52  | 100.3    | 4.15  | 111.4    | 4.83  |
|             | 44.6                    | 56.7            | 2.00 | 67.5     | 2.48 | 78.6     | 3.00 | 84.0     | 3.29  | 89.6     | 3.59  | 100.3    | 4.23  | 111.4    | 4.91  |
|             | 50.0                    | 56.7            | 2.41 | 67.5     | 2.86 | 78.6     | 3.33 | 84.0     | 3.58  | 89.4     | 3.84  | 100.5    | 4.37  | 111.4    | 4.91  |
|             | 53.6                    | 56.7            | 2.44 | 67.5     | 2.90 | 78.6     | 3.40 | 84.0     | 3.65  | 89.4     | 3.91  | 100.5    | 4.45  | 111.4    | 5.00  |
|             | 57.2                    | 56.7            | 2.48 | 67.5     | 2.95 | 78.6     | 3.45 | 84.0     | 3.71  | 89.4     | 3.98  | 100.5    | 4.53  | 111.4    | 5.09  |
|             | 60.8                    | 56.7            | 2.52 | 67.5     | 3.01 | 78.6     | 3.52 | 84.0     | 3.79  | 89.4     | 4.06  | 100.5    | 4.61  | 111.4    | 5.19  |
|             | 64.4                    | 56.7            | 2.56 | 67.5     | 3.06 | 78.6     | 3.58 | 84.0     | 3.85  | 89.4     | 4.12  | 100.5    | 4.70  | 111.4    | 5.30  |
|             | 68.0                    | 56.7            | 2.60 | 67.5     | 3.11 | 78.6     | 3.65 | 84.0     | 3.92  | 89.4     | 4.20  | 100.5    | 4.80  | 111.4    | 5.44  |
|             | 69.8                    | 56.7            | 2.63 | 67.5     | 3.14 | 78.6     | 3.68 | 84.0     | 3.96  | 89.4     | 4.25  | 100.5    | 4.85  | 111.4    | 5.63  |
|             | 73.4                    | 56.7            | 2.67 | 67.5     | 3.19 | 78.6     | 3.76 | 84.0     | 4.10  | 89.4     | 4.46  | 100.5    | 5.22  | 111.4    | 6.04  |
|             | 77.0                    | 56.7            | 2.72 | 67.5     | 3.33 | 78.6     | 4.00 | 84.0     | 4.38  | 89.4     | 4.76  | 100.5    | 5.58  | 111.4    | 6.46  |
|             | 80.6                    | 56.7            | 2.88 | 67.5     | 3.54 | 78.6     | 4.27 | 84.0     | 4.66  | 89.4     | 5.08  | 100.5    | 5.96  | 111.4    | 6.90  |
|             | 84.2                    | 56.7            | 3.06 | 67.5     | 3.76 | 78.6     | 4.54 | 84.0     | 4.97  | 89.4     | 5.40  | 100.5    | 6.35  | 111.4    | 7.37  |
|             | 87.8                    | 56.7            | 3.23 | 67.5     | 3.99 | 78.6     | 4.84 | 84.0     | 5.28  | 89.4     | 5.75  | 100.5    | 6.77  | 111.4    | 7.86  |
|             | 91.4                    | 56.7            | 3.44 | 67.5     | 4.25 | 78.6     | 5.15 | 84.0     | 5.62  | 89.4     | 6.13  | 100.5    | 7.21  | 111.4    | 8.38  |
|             | 95.0                    | 56.7            | 3.64 | 67.5     | 4.50 | 78.6     | 5.46 | 84.0     | 5.98  | 89.4     | 6.52  | 100.5    | 7.68  | 111.4    | 8.94  |
| 98.6        | 56.7                    | 3.84            | 67.5 | 4.77     | 78.6 | 5.81     | 82.5 | 6.36     | 89.4  | 6.94     | 100.5 | 8.18     | 111.4 | 9.51     |       |
| 102.2       | 56.7                    | 4.07            | 67.5 | 5.05     | 78.6 | 6.16     | 81.4 | 6.75     | 89.4  | 7.37     | 100.5 | 8.69     | 111.4 | 10.13    |       |
| 105.8       | 53.6                    | 4.58            | 64.1 | 5.67     | 74.7 | 6.88     | 79.8 | 6.94     | 85.0  | 7.57     | 95.6  | 8.91     | 106.2 | 10.36    |       |
| 111.2       | 49.9                    | 4.99            | 60.8 | 6.17     | 71.1 | 7.64     | 76.4 | 7.84     | 81.6  | 8.15     | 92.0  | 9.37     | 102.5 | 10.90    |       |
| 116.6       | 47.1                    | 6.63            | 58.7 | 8.21     | 68.8 | 8.02     | 73.8 | 7.96     | 78.7  | 8.68     | 88.9  | 10.06    | 99.2  | 11.71    |       |
| 122.0       | 43.1                    | 6.51            | 52.7 | 8.06     | 61.4 | 8.46     | 65.8 | 8.62     | 70.2  | 9.26     | 79.4  | 10.75    | 89.1  | 12.24    |       |
| 125.6       | 32.7                    | 5.49            | 39.2 | 6.80     | 46.0 | 7.20     | 49.6 | 7.84     | 53.6  | 8.35     | 63.3  | 9.60     | 72.4  | 10.72    |       |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp (°FDB) | Indoor air temp |      |          |      |          |      |          |      |          |      |          |      |          |      |
|-------------|-------------------------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|             |                         | 57.2°FWB        |      | 60.8°FWB |      | 64.4°FWB |      | 66.2°FWB |      | 68°FWB   |      | 71.6°FWB |      | 75.2°FWB |      |
|             |                         | 68°FDB          |      | 73.4°FDB |      | 78.8°FDB |      | 80.6°FDB |      | 82.4°FDB |      | 86°FDB   |      | 89.6°FDB |      |
|             |                         | TC              | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   | TC       | PI   |
|             |                         | kBtu/h          | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   | kBtu/h   | kW   |
| 60%         | 23.0                    | 48.6            | 1.64 | 57.9     | 2.00 | 67.4     | 2.40 | 72.0     | 2.62 | 76.7     | 2.84 | 86.1     | 3.32 | 95.6     | 3.84 |
|             | 32.0                    | 48.6            | 1.65 | 57.9     | 2.01 | 67.4     | 2.41 | 72.0     | 2.62 | 76.7     | 2.85 | 86.1     | 3.33 | 95.6     | 3.84 |
|             | 39.2                    | 48.6            | 1.65 | 57.9     | 2.02 | 67.4     | 2.42 | 72.0     | 2.63 | 76.7     | 2.86 | 86.1     | 3.34 | 95.6     | 3.86 |
|             | 44.6                    | 48.6            | 1.68 | 57.9     | 2.05 | 67.4     | 2.46 | 72.0     | 2.68 | 76.7     | 2.91 | 86.1     | 3.40 | 95.6     | 3.93 |
|             | 50.0                    | 48.6            | 2.09 | 57.9     | 2.45 | 67.4     | 2.84 | 72.0     | 3.05 | 76.6     | 3.25 | 86.1     | 3.68 | 95.6     | 4.12 |
|             | 53.6                    | 48.6            | 2.13 | 57.9     | 2.49 | 67.4     | 2.90 | 72.0     | 3.10 | 76.6     | 3.30 | 86.1     | 3.75 | 95.6     | 4.19 |
|             | 57.2                    | 48.6            | 2.16 | 57.9     | 2.53 | 67.4     | 2.94 | 72.0     | 3.15 | 76.6     | 3.37 | 86.1     | 3.81 | 95.6     | 4.27 |
|             | 60.8                    | 48.6            | 2.18 | 57.9     | 2.57 | 67.4     | 2.99 | 72.0     | 3.21 | 76.6     | 3.42 | 86.1     | 3.88 | 95.6     | 4.35 |
|             | 64.4                    | 48.6            | 2.22 | 57.9     | 2.61 | 67.4     | 3.05 | 72.0     | 3.26 | 76.6     | 3.49 | 86.1     | 3.95 | 95.6     | 4.43 |
|             | 68.0                    | 48.6            | 2.25 | 57.9     | 2.67 | 67.4     | 3.10 | 72.0     | 3.33 | 76.6     | 3.56 | 86.1     | 4.03 | 95.6     | 4.53 |
|             | 69.8                    | 48.6            | 2.28 | 57.9     | 2.68 | 67.4     | 3.13 | 72.0     | 3.36 | 76.6     | 3.58 | 86.1     | 4.07 | 95.6     | 4.57 |
|             | 73.4                    | 48.6            | 2.30 | 57.9     | 2.74 | 67.4     | 3.18 | 72.0     | 3.42 | 76.6     | 3.65 | 86.1     | 4.23 | 95.6     | 4.87 |
|             | 77.0                    | 48.6            | 2.35 | 57.9     | 2.79 | 67.4     | 3.30 | 72.0     | 3.58 | 76.6     | 3.88 | 86.1     | 4.51 | 95.6     | 5.19 |
|             | 80.6                    | 48.6            | 2.44 | 57.9     | 2.95 | 67.4     | 3.52 | 72.0     | 3.83 | 76.6     | 4.14 | 86.1     | 4.81 | 95.6     | 5.54 |
|             | 84.2                    | 48.6            | 2.57 | 57.9     | 3.13 | 67.4     | 3.75 | 72.0     | 4.07 | 76.6     | 4.41 | 86.1     | 5.13 | 95.6     | 5.92 |
|             | 87.8                    | 48.6            | 2.74 | 57.9     | 3.33 | 67.4     | 3.98 | 72.0     | 4.33 | 76.6     | 4.69 | 86.1     | 5.46 | 95.6     | 6.29 |
|             | 91.4                    | 48.6            | 2.88 | 57.9     | 3.52 | 67.4     | 4.22 | 72.0     | 4.60 | 76.6     | 4.99 | 86.1     | 5.81 | 95.6     | 6.71 |
|             | 95.0                    | 48.6            | 3.06 | 57.9     | 3.73 | 67.4     | 4.47 | 72.0     | 4.88 | 76.6     | 5.30 | 86.1     | 6.19 | 95.6     | 7.14 |
|             | 98.6                    | 48.6            | 3.23 | 57.9     | 3.95 | 67.4     | 4.74 | 70.7     | 5.18 | 76.6     | 5.62 | 86.1     | 6.58 | 95.6     | 7.60 |
|             | 102.2                   | 48.6            | 3.41 | 57.9     | 4.18 | 67.4     | 5.03 | 69.8     | 5.49 | 76.6     | 5.97 | 86.1     | 6.98 | 95.6     | 8.09 |
| 105.8       | 45.9                    | 3.85            | 55.0 | 4.70     | 64.0 | 5.64     | 68.4 | 5.66     | 72.9 | 6.14     | 82.0 | 7.18     | 91.1 | 8.29     |      |
| 111.2       | 42.8                    | 4.19            | 52.1 | 5.11     | 61.0 | 6.26     | 65.5 | 6.39     | 70.0 | 6.62     | 78.9 | 7.55     | 87.9 | 8.71     |      |
| 116.6       | 40.3                    | 5.58            | 50.3 | 6.81     | 59.0 | 6.58     | 63.2 | 6.49     | 67.4 | 7.04     | 76.2 | 8.10     | 85.1 | 9.36     |      |
| 122.0       | 36.9                    | 5.48            | 45.1 | 6.68     | 52.6 | 6.94     | 56.4 | 7.03     | 60.1 | 7.52     | 68.0 | 8.66     | 76.5 | 9.79     |      |
| 125.6       | 28.0                    | 4.62            | 33.6 | 5.64     | 39.4 | 5.91     | 42.5 | 6.39     | 46.0 | 6.78     | 54.3 | 7.73     | 62.1 | 8.57     |      |
| 50%         | 23.0                    | 40.5            | 1.36 | 48.2     | 1.63 | 56.1     | 1.93 | 60.0     | 2.08 | 63.9     | 2.25 | 71.8     | 2.61 | 79.7     | 2.98 |
|             | 32.0                    | 40.5            | 1.36 | 48.2     | 1.63 | 56.1     | 1.93 | 60.0     | 2.09 | 63.9     | 2.25 | 71.8     | 2.61 | 79.7     | 2.99 |
|             | 39.2                    | 40.5            | 1.37 | 48.2     | 1.64 | 56.1     | 1.94 | 60.0     | 2.10 | 63.9     | 2.26 | 71.8     | 2.62 | 79.7     | 3.00 |
|             | 44.6                    | 40.5            | 1.39 | 48.2     | 1.67 | 56.1     | 1.97 | 60.0     | 2.13 | 63.9     | 2.31 | 71.8     | 2.67 | 79.7     | 3.05 |
|             | 50.0                    | 40.5            | 1.81 | 48.2     | 2.09 | 56.1     | 2.39 | 60.0     | 2.55 | 63.9     | 2.70 | 71.8     | 3.03 | 79.7     | 3.38 |
|             | 53.6                    | 40.5            | 1.82 | 48.2     | 2.12 | 56.1     | 2.43 | 60.0     | 2.57 | 63.9     | 2.75 | 71.8     | 3.09 | 79.7     | 3.44 |
|             | 57.2                    | 40.5            | 1.85 | 48.2     | 2.14 | 56.1     | 2.45 | 60.0     | 2.63 | 63.9     | 2.79 | 71.8     | 3.14 | 79.7     | 3.50 |
|             | 60.8                    | 40.5            | 1.87 | 48.2     | 2.17 | 56.1     | 2.49 | 60.0     | 2.67 | 63.9     | 2.83 | 71.8     | 3.19 | 79.7     | 3.56 |
|             | 64.4                    | 40.5            | 1.90 | 48.2     | 2.21 | 56.1     | 2.53 | 60.0     | 2.71 | 63.9     | 2.88 | 71.8     | 3.25 | 79.7     | 3.63 |
|             | 68.0                    | 40.5            | 1.93 | 48.2     | 2.24 | 56.1     | 2.57 | 60.0     | 2.76 | 63.9     | 2.94 | 71.8     | 3.32 | 79.7     | 3.69 |
|             | 69.8                    | 40.5            | 1.94 | 48.2     | 2.26 | 56.1     | 2.60 | 60.0     | 2.78 | 63.9     | 2.96 | 71.8     | 3.34 | 79.7     | 3.73 |
|             | 73.4                    | 40.5            | 1.97 | 48.2     | 2.29 | 56.1     | 2.64 | 60.0     | 2.83 | 63.9     | 3.02 | 71.8     | 3.40 | 79.7     | 3.81 |
|             | 77.0                    | 40.5            | 1.99 | 48.2     | 2.33 | 56.1     | 2.70 | 60.0     | 2.88 | 63.9     | 3.11 | 71.8     | 3.57 | 79.7     | 4.07 |
|             | 80.6                    | 40.5            | 2.04 | 48.2     | 2.43 | 56.1     | 2.84 | 60.0     | 3.07 | 63.9     | 3.30 | 71.8     | 3.80 | 79.7     | 4.34 |
|             | 84.2                    | 40.5            | 2.14 | 48.2     | 2.56 | 56.1     | 3.02 | 60.0     | 3.26 | 63.6     | 3.52 | 71.8     | 4.04 | 79.7     | 4.62 |
|             | 87.8                    | 40.5            | 2.26 | 48.2     | 2.71 | 56.1     | 3.22 | 60.0     | 3.46 | 63.6     | 3.73 | 71.8     | 4.30 | 79.7     | 4.92 |
|             | 91.4                    | 40.5            | 2.40 | 48.2     | 2.87 | 56.1     | 3.40 | 60.0     | 3.67 | 63.6     | 3.96 | 71.8     | 4.57 | 79.7     | 5.23 |
|             | 95.0                    | 40.5            | 2.53 | 48.2     | 3.03 | 56.1     | 3.58 | 60.0     | 3.88 | 63.6     | 4.19 | 71.8     | 4.85 | 79.7     | 5.55 |
|             | 98.6                    | 40.5            | 2.67 | 48.2     | 3.21 | 56.1     | 3.80 | 58.9     | 4.11 | 63.6     | 4.45 | 71.8     | 5.15 | 79.7     | 5.90 |
|             | 102.2                   | 40.5            | 2.82 | 48.2     | 3.38 | 56.1     | 4.02 | 58.1     | 4.35 | 63.6     | 4.72 | 71.8     | 5.46 | 79.7     | 6.27 |
| 105.8       | 38.3                    | 3.19            | 45.8 | 3.82     | 53.3 | 4.52     | 57.0 | 4.50     | 60.5 | 4.86     | 68.3 | 5.63     | 76.0 | 6.44     |      |
| 111.2       | 35.6                    | 3.47            | 43.4 | 4.15     | 50.8 | 5.02     | 54.6 | 5.08     | 58.1 | 5.24     | 65.7 | 5.92     | 73.3 | 6.77     |      |
| 116.6       | 33.6                    | 4.62            | 41.9 | 5.53     | 49.1 | 5.27     | 52.7 | 5.16     | 56.0 | 5.57     | 63.5 | 6.36     | 70.9 | 7.27     |      |
| 122.0       | 30.8                    | 4.54            | 37.6 | 5.43     | 43.8 | 5.56     | 47.0 | 5.59     | 50.0 | 5.95     | 56.7 | 6.79     | 63.8 | 7.61     |      |
| 125.6       | 23.3                    | 3.83            | 28.0 | 4.58     | 32.8 | 4.73     | 35.4 | 5.08     | 38.2 | 5.36     | 45.2 | 6.06     | 51.8 | 6.66     |      |

➤ Heating Capacity Calculation Method  
GMV-Y72WM/C-F(U)

TC—Total capacity of outdoor unit; PI—Power input of outdoor unit

| Combination | Outdoor air temp. |       | Indoor air temperature |       |       |       |       |       |       |      |      |      |      |      |
|-------------|-------------------|-------|------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
|             |                   |       | 61                     |       | 64    |       | 68    |       | 70    |      | 72   |      | 75   |      |
|             | °FDB              | °FWB  | TC                     | PI    | TC    | PI    | TC    | PI    | TC    | PI   | TC   | PI   | TC   | PI   |
| 135%        | -3.6              | -4.0  | 52.5                   | 4.10  | 52.2  | 4.38  | 51.9  | 4.68  | 51.9  | 4.82 | 51.7 | 4.96 | 51.7 | 5.26 |
|             | -1.8              | -2.2  | 53.2                   | 4.19  | 53.0  | 4.47  | 53.0  | 4.76  | 52.7  | 4.90 | 52.7 | 5.04 | 52.5 | 5.33 |
|             | 1.9               | 1.4   | 55.3                   | 4.38  | 55.0  | 4.66  | 54.8  | 4.93  | 54.8  | 5.05 | 54.8 | 5.21 | 54.5 | 5.48 |
|             | 7.3               | 5.0   | 57.6                   | 4.59  | 57.3  | 4.85  | 57.1  | 5.11  | 57.1  | 5.24 | 56.8 | 5.38 | 56.8 | 5.64 |
|             | 10.8              | 8.6   | 59.9                   | 4.79  | 59.9  | 5.05  | 59.7  | 5.30  | 59.4  | 5.42 | 59.4 | 5.55 | 59.1 | 5.80 |
|             | 14.4              | 12.2  | 62.7                   | 5.00  | 62.5  | 5.24  | 62.2  | 5.48  | 62.2  | 5.60 | 62.2 | 5.73 | 62.0 | 5.97 |
|             | 14.9              | 14.0  | 64.3                   | 5.11  | 64.0  | 5.34  | 63.8  | 5.57  | 63.8  | 5.69 | 63.5 | 5.81 | 63.5 | 6.04 |
|             | 16.7              | 15.6  | 65.6                   | 5.20  | 65.3  | 5.42  | 65.3  | 5.66  | 65.1  | 5.77 | 65.1 | 5.88 | 64.8 | 6.12 |
|             | 19.4              | 18.3  | 67.9                   | 5.35  | 67.9  | 5.57  | 67.6  | 5.79  | 67.6  | 5.91 | 67.4 | 6.01 | 67.1 | 6.24 |
|             | 23.0              | 21.9  | 71.5                   | 5.55  | 71.2  | 5.65  | 71.0  | 5.97  | 71.0  | 6.08 | 70.7 | 6.18 | 70.7 | 6.39 |
|             | 26.6              | 25.3  | 74.8                   | 5.73  | 74.6  | 5.94  | 74.6  | 6.13  | 74.3  | 6.24 | 74.3 | 6.34 | 74.1 | 6.53 |
|             | 32.0              | 30.7  | 80.7                   | 6.01  | 80.7  | 6.20  | 80.5  | 6.38  | 80.5  | 6.47 | 80.2 | 6.57 | 80.2 | 6.75 |
|             | 37.4              | 36.0  | 87.2                   | 6.26  | 86.9  | 6.43  | 86.7  | 6.61  | 86.7  | 6.69 | 86.7 | 6.78 | 86.4 | 6.95 |
|             | 41.0              | 39.4  | 91.5                   | 6.42  | 91.3  | 6.58  | 91.3  | 6.74  | 91.0  | 6.82 | 91.0 | 6.91 | 90.8 | 7.07 |
|             | 44.6              | 42.8  | 96.2                   | 6.57  | 95.9  | 6.72  | 95.9  | 6.88  | 95.7  | 6.20 | 95.7 | 7.03 | 91.8 | 6.75 |
|             | 48.2              | 46.2  | 101.1                  | 6.70  | 100.8 | 6.86  | 100.8 | 7.00  | 100.5 | 7.07 | 98.5 | 6.93 | 91.8 | 6.34 |
|             | 51.8              | 49.6  | 106.2                  | 6.84  | 105.9 | 6.98  | 105.4 | 7.07  | 101.8 | 6.79 | 98.5 | 6.51 | 91.8 | 5.97 |
|             | 55.4              | 53.2  | 111.9                  | 6.97  | 111.6 | 7.10  | 105.4 | 6.62  | 101.8 | 6.36 | 98.5 | 6.11 | 91.8 | 5.60 |
| 59.0        | 56.7              | 117.3 | 7.09                   | 112.1 | 6.73  | 105.4 | 6.24  | 101.8 | 6.00  | 98.5 | 5.76 | 91.8 | 5.29 |      |
| 64.4        | 62.2              | 117.3 | 6.71                   | 112.1 | 6.40  | 105.4 | 5.91  | 101.8 | 5.69  | 98.5 | 5.44 | 91.8 | 5.02 |      |
| 68.0        | 65.3              | 117.3 | 6.39                   | 112.1 | 6.12  | 105.4 | 5.64  | 101.8 | 5.44  | 98.5 | 5.17 | 91.8 | 4.80 |      |
| 75.2        | 68.9              | 117.3 | 6.11                   | 112.1 | 5.88  | 105.4 | 5.42  | 101.8 | 5.23  | 98.5 | 4.93 | 91.8 | 4.63 |      |
| 120%        | -3.6              | -4.0  | 52.2                   | 4.49  | 51.9  | 4.75  | 51.7  | 5.02  | 51.7  | 5.15 | 51.7 | 5.29 | 51.4 | 5.56 |
|             | -1.8              | -2.2  | 53.0                   | 4.57  | 52.7  | 4.84  | 52.7  | 5.05  | 52.5  | 5.23 | 52.5 | 5.36 | 52.2 | 5.63 |
|             | 1.9               | 1.4   | 55.0                   | 4.75  | 54.8  | 5.01  | 54.8  | 5.26  | 54.5  | 5.39 | 54.5 | 5.51 | 54.3 | 5.76 |
|             | 7.3               | 5.0   | 57.3                   | 4.94  | 57.1  | 5.18  | 56.8  | 5.42  | 56.8  | 5.55 | 56.8 | 5.67 | 56.6 | 5.91 |
|             | 10.8              | 8.6   | 59.7                   | 5.13  | 59.7  | 5.36  | 59.4  | 5.60  | 59.4  | 5.72 | 59.1 | 5.83 | 59.1 | 6.06 |
|             | 14.4              | 12.2  | 62.5                   | 5.33  | 62.2  | 5.54  | 62.2  | 5.77  | 62.0  | 5.88 | 62.0 | 5.99 | 61.7 | 6.22 |
|             | 14.9              | 14.0  | 64.0                   | 5.42  | 63.8  | 5.64  | 63.5  | 5.85  | 63.5  | 5.97 | 63.5 | 6.03 | 63.3 | 6.29 |
|             | 16.7              | 15.6  | 65.3                   | 5.51  | 65.1  | 5.72  | 65.1  | 5.93  | 64.8  | 6.03 | 64.8 | 6.15 | 64.5 | 6.36 |
|             | 19.4              | 18.3  | 67.6                   | 5.65  | 67.6  | 5.85  | 67.4  | 6.06  | 67.4  | 6.16 | 67.1 | 6.26 | 67.1 | 6.46 |
|             | 23.0              | 21.9  | 71.2                   | 5.83  | 71.0  | 6.03  | 70.7  | 6.22  | 70.7  | 6.32 | 70.7 | 6.42 | 70.5 | 6.61 |
|             | 26.6              | 25.3  | 74.6                   | 6.00  | 74.6  | 6.19  | 74.3  | 6.37  | 74.3  | 6.46 | 74.1 | 6.56 | 74.1 | 6.74 |
|             | 32.0              | 30.7  | 80.5                   | 6.26  | 80.5  | 6.43  | 80.2  | 6.68  | 80.2  | 6.69 | 80.0 | 6.77 | 80.0 | 6.95 |
|             | 37.4              | 36.0  | 86.9                   | 6.49  | 86.7  | 6.65  | 86.7  | 6.81  | 86.4  | 6.89 | 86.4 | 6.97 | 84.6 | 6.93 |
|             | 41.0              | 39.4  | 91.3                   | 6.64  | 91.0  | 6.79  | 91.0  | 6.94  | 90.8  | 7.01 | 90.8 | 7.09 | 84.6 | 6.51 |
|             | 44.6              | 42.8  | 95.9                   | 6.77  | 95.9  | 6.92  | 95.7  | 7.06  | 94.1  | 6.96 | 91.0 | 6.67 | 84.6 | 6.12 |
|             | 48.2              | 46.2  | 100.8                  | 6.91  | 100.5 | 7.04  | 97.2  | 6.81  | 94.1  | 6.54 | 91.0 | 6.27 | 84.6 | 5.76 |
|             | 51.8              | 49.6  | 105.9                  | 7.03  | 103.4 | 6.91  | 97.2  | 6.40  | 94.1  | 6.15 | 91.0 | 5.91 | 84.6 | 5.43 |
|             | 55.4              | 53.2  | 109.8                  | 6.96  | 103.4 | 6.48  | 97.2  | 6.00  | 94.1  | 5.78 | 91.0 | 5.55 | 84.6 | 5.11 |
| 59.0        | 56.7              | 109.8 | 6.55                   | 103.4 | 6.10  | 97.2  | 5.66  | 94.1  | 5.45  | 91.0 | 5.24 | 84.6 | 4.82 |      |
| 64.4        | 62.2              | 109.8 | 6.19                   | 103.4 | 5.78  | 97.2  | 5.38  | 94.1  | 5.16  | 91.0 | 4.96 | 84.6 | 4.57 |      |
| 68.0        | 65.3              | 109.8 | 5.87                   | 103.4 | 5.51  | 97.2  | 5.15  | 94.1  | 4.92  | 91.0 | 4.72 | 84.6 | 4.35 |      |
| 75.2        | 68.9              | 109.8 | 5.58                   | 103.4 | 5.29  | 97.2  | 4.96  | 94.1  | 4.72  | 91.0 | 4.53 | 84.6 | 4.17 |      |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp. |       | Indoor air temperature |          |              |          |              |          |              |          |              |          |              |          |
|-------------|-------------------|-------|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|             |                   |       | 61                     |          | 64           |          | 68           |          | 70           |          | 72           |          | 75           |          |
|             | °FDB              | °FWB  | TC<br>KBtu/h           | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW |
| 110%        | -3.6              | -4.0  | 51.9                   | 4.88     | 51.7         | 5.12     | 51.4         | 5.37     | 51.4         | 5.49     | 51.4         | 5.61     | 51.2         | 5.86     |
|             | -1.8              | -2.2  | 52.7                   | 4.96     | 52.7         | 5.20     | 52.5         | 5.44     | 52.5         | 5.56     | 52.2         | 5.68     | 52.2         | 5.92     |
|             | 1.9               | 1.4   | 54.8                   | 5.12     | 54.5         | 5.36     | 54.5         | 5.59     | 54.3         | 5.70     | 54.3         | 5.82     | 54.0         | 6.05     |
|             | 7.3               | 5.0   | 57.1                   | 5.30     | 56.8         | 5.52     | 56.6         | 5.74     | 56.6         | 5.85     | 56.6         | 5.97     | 56.3         | 6.18     |
|             | 10.8              | 8.6   | 59.4                   | 5.48     | 59.4         | 5.69     | 59.1         | 5.90     | 59.1         | 6.00     | 58.9         | 6.11     | 58.9         | 6.33     |
|             | 14.4              | 12.2  | 62.2                   | 5.65     | 62.0         | 5.85     | 62.0         | 6.06     | 61.7         | 6.16     | 61.7         | 6.26     | 61.7         | 6.46     |
|             | 14.9              | 14.0  | 63.8                   | 5.74     | 63.5         | 5.94     | 63.3         | 6.14     | 63.3         | 6.24     | 63.3         | 6.34     | 63.0         | 6.53     |
|             | 16.7              | 15.6  | 65.1                   | 5.82     | 64.8         | 6.01     | 64.8         | 6.21     | 64.8         | 6.31     | 64.5         | 6.40     | 64.5         | 6.59     |
|             | 19.4              | 18.3  | 67.4                   | 5.95     | 67.4         | 6.13     | 67.1         | 6.32     | 67.1         | 6.42     | 67.9         | 6.51     | 66.9         | 6.70     |
|             | 23.0              | 21.9  | 71.0                   | 6.12     | 70.7         | 6.30     | 70.5         | 6.47     | 70.5         | 6.56     | 73.8         | 6.65     | 70.2         | 6.83     |
|             | 26.6              | 25.3  | 74.3                   | 6.27     | 74.3         | 6.44     | 74.1         | 6.61     | 74.1         | 6.70     | 80.0         | 6.78     | 73.8         | 6.95     |
|             | 32.0              | 30.7  | 80.2                   | 6.51     | 80.2         | 6.67     | 80.0         | 6.82     | 80.0         | 6.90     | 83.3         | 6.98     | 77.7         | 6.85     |
|             | 37.4              | 36.0  | 86.7                   | 6.73     | 86.4         | 6.87     | 86.4         | 7.01     | 86.1         | 7.08     | 83.3         | 6.79     | 77.7         | 6.23     |
|             | 41.0              | 39.4  | 91.0                   | 6.86     | 91.0         | 7.00     | 89.2         | 6.93     | 86.1         | 6.65     | 83.3         | 6.39     | 77.7         | 5.86     |
|             | 44.6              | 42.8  | 95.7                   | 6.98     | 94.9         | 7.03     | 89.2         | 6.51     | 86.1         | 6.25     | 83.3         | 6.00     | 77.7         | 5.51     |
|             | 48.2              | 46.2  | 100.5                  | 7.10     | 94.9         | 6.61     | 89.2         | 6.12     | 86.1         | 5.88     | 83.3         | 5.65     | 77.7         | 5.20     |
|             | 51.8              | 49.6  | 100.5                  | 6.67     | 94.9         | 6.21     | 89.2         | 5.76     | 86.1         | 5.54     | 83.3         | 5.33     | 77.7         | 4.90     |
|             | 55.4              | 53.2  | 100.5                  | 6.26     | 94.9         | 5.83     | 89.2         | 5.42     | 86.1         | 5.21     | 83.3         | 5.01     | 77.7         | 4.62     |
|             | 59.0              | 56.7  | 100.5                  | 5.90     | 94.9         | 5.50     | 89.2         | 5.11     | 86.1         | 4.92     | 83.3         | 4.74     | 77.7         | 4.37     |
|             | 64.4              | 62.2  | 100.5                  | 5.58     | 94.9         | 5.21     | 89.2         | 4.66     | 86.1         | 4.66     | 83.3         | 4.51     | 77.7         | 4.16     |
| 68.0        | 65.3              | 100.5 | 5.30                   | 94.9     | 4.96         | 89.2     | 4.42         | 86.1     | 4.44         | 83.3     | 4.32         | 77.7     | 3.98         |          |
| 75.2        | 68.9              | 100.5 | 5.05                   | 94.9     | 4.73         | 89.2     | 4.21         | 86.1     | 4.25         | 83.3     | 4.17         | 77.7     | 3.83         |          |
| 100%        | -3.6              | -4.0  | 51.7                   | 5.27     | 51.4         | 5.49     | 51.4         | 5.72     | 51.2         | 5.83     | 51.2         | 5.94     | 50.9         | 6.16     |
|             | -1.8              | -2.2  | 52.5                   | 5.34     | 52.5         | 5.56     | 52.2         | 5.78     | 52.2         | 5.89     | 51.9         | 6.00     | 51.9         | 6.22     |
|             | 1.9               | 1.4   | 54.5                   | 5.49     | 54.3         | 5.70     | 54.3         | 5.91     | 54.3         | 6.02     | 54.0         | 6.12     | 54.0         | 6.34     |
|             | 7.3               | 5.0   | 56.8                   | 5.65     | 56.6         | 5.85     | 56.6         | 6.06     | 56.3         | 6.16     | 56.3         | 6.26     | 56.1         | 6.46     |
|             | 10.8              | 8.6   | 59.1                   | 5.82     | 59.1         | 6.00     | 58.9         | 6.20     | 58.9         | 6.30     | 58.9         | 6.17     | 58.6         | 6.59     |
|             | 14.4              | 12.2  | 62.0                   | 5.97     | 61.7         | 6.16     | 61.7         | 6.34     | 61.7         | 6.44     | 61.5         | 6.53     | 61.5         | 6.71     |
|             | 14.9              | 14.0  | 63.5                   | 6.06     | 63.3         | 6.24     | 63.3         | 6.42     | 63.0         | 6.51     | 63.0         | 6.60     | 62.7         | 6.78     |
|             | 16.7              | 15.6  | 64.8                   | 6.12     | 64.8         | 6.31     | 64.5         | 6.48     | 64.5         | 6.57     | 64.3         | 6.66     | 64.3         | 6.83     |
|             | 19.4              | 18.3  | 67.1                   | 6.24     | 67.1         | 6.42     | 66.9         | 6.58     | 66.9         | 6.67     | 66.9         | 6.76     | 66.6         | 6.93     |
|             | 23.0              | 21.9  | 70.7                   | 6.40     | 70.5         | 6.56     | 70.5         | 6.73     | 70.2         | 6.81     | 70.2         | 6.89     | 70.2         | 7.05     |
|             | 26.6              | 25.3  | 74.1                   | 6.55     | 74.1         | 6.70     | 73.8         | 6.86     | 73.8         | 6.93     | 73.8         | 7.01     | 70.7         | 6.71     |
|             | 32.0              | 30.7  | 80.0                   | 6.76     | 80.0         | 6.90     | 79.7         | 7.04     | 78.4         | 6.93     | 75.9         | 6.64     | 70.7         | 6.10     |
|             | 37.4              | 36.0  | 86.4                   | 6.95     | 86.1         | 7.08     | 81.0         | 6.55     | 78.4         | 6.30     | 75.9         | 6.05     | 70.7         | 5.55     |
|             | 41.0              | 39.4  | 90.8                   | 7.08     | 86.1         | 6.65     | 81.0         | 6.16     | 78.4         | 5.93     | 75.9         | 5.69     | 70.7         | 5.24     |
|             | 44.6              | 42.8  | 91.3                   | 6.72     | 86.1         | 6.25     | 81.0         | 5.80     | 78.4         | 5.58     | 75.9         | 5.36     | 70.7         | 4.93     |
|             | 48.2              | 46.2  | 91.3                   | 6.31     | 86.1         | 5.88     | 81.0         | 5.46     | 78.4         | 5.26     | 75.9         | 5.05     | 70.7         | 4.66     |
|             | 51.8              | 49.6  | 91.3                   | 5.94     | 86.1         | 5.54     | 81.0         | 5.15     | 78.4         | 4.96     | 75.9         | 4.77     | 70.7         | 4.40     |
|             | 55.4              | 53.2  | 91.3                   | 5.58     | 86.1         | 5.21     | 81.0         | 4.85     | 78.4         | 4.67     | 75.9         | 4.50     | 70.7         | 4.15     |
|             | 59.0              | 56.7  | 91.3                   | 5.27     | 86.1         | 4.92     | 81.0         | 4.58     | 78.4         | 4.41     | 75.9         | 4.25     | 70.7         | 3.93     |
|             | 64.4              | 62.2  | 91.3                   | 4.96     | 86.1         | 4.69     | 81.0         | 4.43     | 78.4         | 4.19     | 75.9         | 4.02     | 70.7         | 3.74     |
| 68.0        | 65.3              | 91.3  | 4.69                   | 86.1     | 4.50         | 81.0     | 4.25         | 78.4     | 4.00         | 75.9     | 3.83         | 70.7     | 3.59         |          |
| 75.2        | 68.9              | 91.3  | 4.43                   | 86.1     | 4.35         | 81.0     | 4.08         | 78.4     | 3.85         | 75.9     | 3.68         | 70.7     | 3.48         |          |

| Combination | Outdoor air temp. |      | Indoor air temperature |          |              |          |              |          |              |          |              |          |              |          |
|-------------|-------------------|------|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|             |                   |      | 61                     |          | 64           |          | 68           |          | 70           |          | 72           |          | 75           |          |
|             | °FDB              | °FWB | TC<br>KBtu/h           | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW |
| 90%         | -3.6              | -4.0 | 51.4                   | 5.66     | 51.2         | 5.86     | 51.2         | 6.06     | 50.9         | 6.16     | 50.9         | 6.27     | 50.9         | 6.46     |
|             | -1.8              | -2.2 | 52.2                   | 5.73     | 52.2         | 5.93     | 51.9         | 6.12     | 51.9         | 6.22     | 51.9         | 6.32     | 51.7         | 6.52     |
|             | 1.9               | 1.4  | 54.3                   | 5.87     | 54.0         | 6.06     | 54.0         | 6.24     | 54.0         | 6.34     | 53.7         | 6.43     | 53.7         | 6.62     |
|             | 7.3               | 5.0  | 56.6                   | 6.01     | 56.3         | 6.19     | 56.3         | 6.37     | 56.1         | 6.40     | 56.1         | 6.55     | 56.1         | 6.73     |
|             | 10.8              | 8.6  | 58.9                   | 6.15     | 58.9         | 6.33     | 58.6         | 6.50     | 58.6         | 6.59     | 58.6         | 6.67     | 58.4         | 6.85     |
|             | 14.4              | 12.2 | 61.7                   | 6.30     | 61.7         | 6.46     | 61.5         | 6.63     | 61.5         | 6.72     | 61.5         | 6.80     | 61.2         | 6.97     |
|             | 14.9              | 14.0 | 63.3                   | 6.37     | 63.0         | 6.54     | 63.0         | 6.70     | 62.7         | 6.78     | 62.7         | 6.86     | 62.7         | 7.02     |
|             | 16.7              | 15.6 | 64.5                   | 6.44     | 64.5         | 6.60     | 64.3         | 6.76     | 64.3         | 6.83     | 64.3         | 6.92     | 63.5         | 6.98     |
|             | 19.4              | 18.3 | 66.9                   | 6.55     | 66.9         | 6.70     | 66.6         | 6.86     | 66.6         | 6.93     | 66.6         | 7.01     | 63.5         | 6.67     |
|             | 23.0              | 21.9 | 70.5                   | 6.69     | 70.2         | 6.83     | 70.2         | 6.98     | 70.2         | 7.05     | 68.1         | 6.83     | 63.5         | 6.27     |
|             | 26.6              | 25.3 | 73.8                   | 6.82     | 73.8         | 6.20     | 73.0         | 6.98     | 70.5         | 6.70     | 68.1         | 6.43     | 63.5         | 5.91     |
|             | 32.0              | 30.7 | 80.0                   | 7.01     | 77.7         | 6.09     | 73.0         | 6.34     | 70.5         | 6.09     | 68.1         | 5.85     | 63.5         | 5.37     |
|             | 37.4              | 36.0 | 82.3                   | 6.68     | 77.7         | 6.22     | 73.0         | 5.77     | 70.5         | 5.55     | 68.1         | 5.33     | 63.5         | 4.91     |
|             | 41.0              | 39.4 | 82.3                   | 6.28     | 77.7         | 5.85     | 73.0         | 5.44     | 70.5         | 5.23     | 68.1         | 5.03     | 63.5         | 4.63     |
|             | 44.6              | 42.8 | 82.3                   | 5.91     | 77.7         | 5.51     | 73.0         | 5.12     | 70.5         | 4.93     | 68.1         | 4.75     | 63.5         | 4.38     |
|             | 48.2              | 46.2 | 82.3                   | 5.57     | 77.7         | 5.19     | 73.0         | 4.83     | 70.5         | 4.66     | 68.1         | 4.48     | 63.5         | 4.14     |
|             | 51.8              | 49.6 | 82.3                   | 5.24     | 77.7         | 4.90     | 73.0         | 4.56     | 70.5         | 4.40     | 68.1         | 4.23     | 63.5         | 3.92     |
|             | 55.4              | 53.2 | 82.3                   | 4.93     | 77.7         | 4.62     | 73.0         | 4.30     | 70.5         | 4.15     | 68.1         | 4.00     | 63.5         | 3.70     |
|             | 59.0              | 56.7 | 82.3                   | 4.66     | 77.7         | 4.36     | 73.0         | 4.08     | 70.5         | 3.92     | 68.1         | 3.79     | 63.5         | 3.51     |
|             | 64.4              | 62.2 | 82.3                   | 4.41     | 77.7         | 4.12     | 73.0         | 3.86     | 70.5         | 3.70     | 68.1         | 3.59     | 63.5         | 3.34     |
| 68.0        | 65.3              | 82.3 | 4.17                   | 77.7     | 3.89         | 73.0     | 3.67         | 70.5     | 3.49         | 68.1     | 3.41         | 63.5     | 3.19         |          |
| 75.2        | 68.9              | 82.3 | 3.93                   | 77.7     | 3.68         | 73.0     | 3.48         | 70.5     | 3.29         | 68.1     | 3.24         | 63.5     | 3.04         |          |
| 80%         | -3.6              | -4.0 | 51.2                   | 6.06     | 50.9         | 6.23     | 50.9         | 6.41     | 50.9         | 6.50     | 50.7         | 6.59     | 50.7         | 6.76     |
|             | -1.8              | -2.2 | 51.9                   | 6.11     | 51.9         | 6.29     | 51.7         | 6.46     | 51.7         | 6.55     | 51.7         | 6.64     | 51.4         | 6.82     |
|             | 1.9               | 1.4  | 54.0                   | 6.24     | 53.7         | 6.40     | 53.7         | 6.58     | 53.7         | 6.66     | 53.7         | 6.74     | 53.5         | 6.91     |
|             | 7.3               | 5.0  | 56.3                   | 6.37     | 56.1         | 6.52     | 56.1         | 6.69     | 56.1         | 6.76     | 55.8         | 6.85     | 55.8         | 7.01     |
|             | 10.8              | 8.6  | 58.6                   | 6.49     | 58.6         | 6.65     | 58.4         | 6.80     | 58.4         | 6.88     | 58.4         | 6.96     | 56.6         | 6.77     |
|             | 14.4              | 12.2 | 61.5                   | 6.62     | 61.5         | 6.77     | 61.2         | 6.92     | 61.2         | 6.99     | 60.7         | 6.98     | 56.6         | 6.40     |
|             | 14.9              | 14.0 | 63.0                   | 6.69     | 62.7         | 6.83     | 62.7         | 6.98     | 62.7         | 7.05     | 60.7         | 6.77     | 56.6         | 6.21     |
|             | 16.7              | 15.6 | 64.3                   | 6.75     | 64.3         | 6.89     | 64.0         | 7.03     | 62.7         | 6.88     | 60.7         | 6.59     | 56.6         | 6.04     |
|             | 19.4              | 18.3 | 66.6                   | 6.85     | 66.6         | 6.98     | 64.8         | 6.83     | 62.7         | 6.56     | 60.7         | 6.30     | 56.6         | 5.80     |
|             | 23.0              | 21.9 | 70.2                   | 6.21     | 68.9         | 6.93     | 64.8         | 6.42     | 62.7         | 6.17     | 60.7         | 5.92     | 56.6         | 5.44     |
|             | 26.6              | 25.3 | 73.0                   | 6.25     | 68.9         | 6.52     | 64.8         | 6.04     | 62.7         | 5.84     | 60.7         | 5.58     | 56.6         | 5.14     |
|             | 32.0              | 30.7 | 73.0                   | 6.36     | 68.9         | 5.92     | 64.8         | 5.50     | 62.7         | 5.30     | 60.7         | 5.08     | 56.6         | 4.69     |
|             | 37.4              | 36.0 | 73.0                   | 5.79     | 68.9         | 5.40     | 64.8         | 5.02     | 62.7         | 4.84     | 60.7         | 4.66     | 56.6         | 4.29     |
|             | 41.0              | 39.4 | 73.0                   | 5.45     | 68.9         | 5.09     | 64.8         | 4.74     | 62.7         | 4.56     | 60.7         | 4.40     | 56.6         | 4.06     |
|             | 44.6              | 42.8 | 73.0                   | 5.14     | 68.9         | 4.81     | 64.8         | 4.47     | 62.7         | 4.32     | 60.7         | 4.16     | 56.6         | 3.84     |
|             | 48.2              | 46.2 | 73.0                   | 4.85     | 68.9         | 4.53     | 64.8         | 4.25     | 62.7         | 4.08     | 60.7         | 3.93     | 56.6         | 3.64     |
|             | 51.8              | 49.6 | 73.0                   | 4.58     | 68.9         | 4.29     | 64.8         | 4.00     | 62.7         | 3.86     | 60.7         | 3.72     | 56.6         | 3.45     |
|             | 55.4              | 53.2 | 73.0                   | 4.32     | 68.9         | 4.05     | 64.8         | 3.78     | 62.7         | 3.65     | 60.7         | 3.52     | 56.6         | 3.26     |
|             | 59.0              | 56.7 | 73.0                   | 4.08     | 68.9         | 3.83     | 64.8         | 3.59     | 62.7         | 3.46     | 60.7         | 3.34     | 56.6         | 3.10     |
|             | 64.4              | 62.2 | 73.0                   | 3.89     | 68.9         | 3.65     | 64.8         | 3.41     | 62.7         | 3.28     | 60.7         | 3.16     | 56.6         | 2.96     |
| 68.0        | 65.3              | 73.0 | 3.74                   | 68.9     | 3.50         | 64.8     | 3.26         | 62.7     | 3.13         | 60.7     | 3.01         | 56.6     | 2.82         |          |
| 75.2        | 68.9              | 73.0 | 3.63                   | 68.9     | 3.38         | 64.8     | 3.13         | 62.7     | 3.00         | 60.7     | 2.88         | 56.6     | 2.70         |          |



# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp. |      | Indoor air temperature |          |              |          |              |          |              |          |              |          |              |          |
|-------------|-------------------|------|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|             |                   |      | 61                     |          | 64           |          | 68           |          | 70           |          | 72           |          | 75           |          |
|             | °FDB              | °FWB | TC<br>KBtu/h           | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW |
| 70%         | -3.6              | -4.0 | 50.9                   | 6.45     | 50.7         | 6.60     | 50.7         | 6.76     | 50.7         | 6.83     | 50.7         | 6.92     | 49.4         | 6.84     |
|             | -1.8              | -2.2 | 51.7                   | 6.50     | 51.7         | 6.65     | 51.4         | 6.80     | 51.4         | 6.88     | 51.4         | 6.96     | 49.4         | 6.70     |
|             | 1.9               | 1.4  | 53.7                   | 6.61     | 53.7         | 6.76     | 53.5         | 6.90     | 53.5         | 6.98     | 53.0         | 6.97     | 49.4         | 6.39     |
|             | 7.3               | 5.0  | 56.1                   | 6.72     | 55.8         | 6.86     | 55.8         | 7.01     | 54.8         | 67.16    | 53.0         | 6.62     | 49.4         | 6.07     |
|             | 10.8              | 8.6  | 58.4                   | 6.83     | 58.4         | 6.97     | 56.8         | 6.80     | 54.8         | 6.54     | 53.0         | 6.27     | 49.4         | 5.76     |
|             | 14.4              | 12.2 | 61.2                   | 6.95     | 60.4         | 6.94     | 56.8         | 6.43     | 54.8         | 6.18     | 53.0         | 5.93     | 49.4         | 5.45     |
|             | 14.9              | 14.0 | 62.7                   | 7.01     | 60.4         | 6.73     | 56.8         | 6.24     | 54.8         | 6.00     | 53.0         | 5.76     | 49.4         | 5.30     |
|             | 16.7              | 15.6 | 64.0                   | 7.04     | 60.4         | 6.55     | 56.8         | 6.07     | 54.8         | 5.84     | 53.0         | 5.61     | 49.4         | 5.16     |
|             | 19.4              | 18.3 | 64.0                   | 6.73     | 60.4         | 6.26     | 56.8         | 5.81     | 54.8         | 5.59     | 53.0         | 5.37     | 49.4         | 4.94     |
|             | 23.0              | 21.9 | 64.0                   | 6.32     | 60.4         | 5.89     | 56.8         | 5.47     | 54.8         | 5.26     | 53.0         | 5.05     | 49.4         | 4.66     |
|             | 26.6              | 25.3 | 64.0                   | 5.95     | 60.4         | 5.55     | 56.8         | 5.16     | 54.8         | 4.96     | 53.0         | 4.78     | 49.4         | 4.41     |
|             | 32.0              | 30.7 | 64.0                   | 5.42     | 60.4         | 5.08     | 56.8         | 4.71     | 54.8         | 4.53     | 53.0         | 4.37     | 49.4         | 4.04     |
|             | 37.4              | 36.0 | 64.0                   | 4.95     | 60.4         | 0.11     | 56.8         | 4.32     | 54.8         | 4.16     | 53.0         | 4.01     | 49.4         | 3.71     |
|             | 41.0              | 39.4 | 64.0                   | 4.67     | 60.4         | 4.37     | 56.8         | 4.08     | 54.8         | 3.93     | 53.0         | 3.80     | 49.4         | 3.51     |
|             | 44.6              | 42.8 | 64.0                   | 4.41     | 60.4         | 4.14     | 56.8         | 3.86     | 54.8         | 3.72     | 53.0         | 3.59     | 49.4         | 3.33     |
|             | 48.2              | 46.2 | 64.0                   | 4.17     | 60.4         | 3.91     | 56.8         | 3.65     | 54.8         | 3.53     | 53.0         | 3.40     | 49.4         | 3.16     |
|             | 51.8              | 49.6 | 64.0                   | 3.95     | 60.4         | 3.70     | 56.8         | 3.47     | 54.8         | 3.34     | 53.0         | 3.23     | 49.4         | 3.00     |
|             | 55.4              | 53.2 | 64.0                   | 3.73     | 60.4         | 3.50     | 56.8         | 3.28     | 54.8         | 3.17     | 53.0         | 3.06     | 49.4         | 2.85     |
|             | 59.0              | 56.7 | 64.0                   | 3.53     | 60.4         | 3.32     | 56.8         | 3.11     | 54.8         | 3.01     | 53.0         | 2.91     | 49.4         | 2.71     |
|             | 64.4              | 62.2 | 64.0                   | 3.35     | 60.4         | 3.16     | 56.8         | 2.96     | 54.8         | 2.87     | 53.0         | 2.77     | 49.4         | 2.59     |
| 68.0        | 65.3              | 64.0 | 3.19                   | 60.4     | 3.01         | 56.8     | 2.82         | 54.8     | 2.74         | 53.0     | 2.65         | 49.4     | 2.49         |          |
| 75.2        | 68.9              | 64.0 | 3.05                   | 60.4     | 2.87         | 56.8     | 2.71         | 54.8     | 2.63         | 53.0     | 2.55         | 49.4     | 2.40         |          |
| 60%         | -3.6              | -4.0 | 50.7                   | 6.84     | 50.4         | 6.97     | 48.6         | 6.70     | 47.1         | 6.44     | 45.5         | 6.18     | 42.4         | 5.67     |
|             | -1.8              | -2.2 | 51.4                   | 6.89     | 51.4         | 7.01     | 48.6         | 6.56     | 47.1         | 6.31     | 45.5         | 6.05     | 42.4         | 5.55     |
|             | 1.9               | 1.4  | 53.5                   | 6.98     | 51.7         | 6.76     | 48.6         | 6.26     | 47.1         | 6.02     | 45.5         | 5.78     | 42.4         | 5.31     |
|             | 7.3               | 5.0  | 54.8                   | 6.90     | 51.7         | 6.42     | 48.6         | 5.95     | 47.1         | 5.73     | 45.5         | 5.50     | 42.4         | 5.05     |
|             | 10.8              | 8.6  | 54.8                   | 6.53     | 51.7         | 6.08     | 48.6         | 5.64     | 47.1         | 5.43     | 45.5         | 5.22     | 42.4         | 4.81     |
|             | 14.4              | 12.2 | 54.8                   | 6.17     | 51.7         | 5.75     | 48.6         | 5.34     | 47.1         | 5.14     | 45.5         | 4.94     | 42.4         | 4.56     |
|             | 14.9              | 14.0 | 54.8                   | 6.00     | 51.7         | 5.59     | 48.6         | 5.19     | 47.1         | 5.00     | 45.5         | 4.81     | 42.4         | 4.43     |
|             | 16.7              | 15.6 | 54.8                   | 5.84     | 51.7         | 5.45     | 48.6         | 5.06     | 47.1         | 4.87     | 45.5         | 4.69     | 42.4         | 4.32     |
|             | 19.4              | 18.3 | 54.8                   | 5.58     | 51.7         | 5.21     | 48.6         | 4.84     | 47.1         | 4.67     | 45.5         | 4.49     | 42.4         | 4.15     |
|             | 23.0              | 21.9 | 54.8                   | 5.26     | 51.7         | 4.91     | 48.6         | 4.57     | 47.1         | 4.41     | 45.5         | 4.24     | 42.4         | 3.92     |
|             | 26.6              | 25.3 | 54.8                   | 4.96     | 51.7         | 4.64     | 48.6         | 4.34     | 47.1         | 4.17     | 45.5         | 4.02     | 42.4         | 3.71     |
|             | 32.0              | 30.7 | 54.8                   | 4.53     | 51.7         | 4.25     | 48.6         | 3.96     | 47.1         | 3.83     | 45.5         | 3.68     | 42.4         | 3.41     |
|             | 37.4              | 36.0 | 54.8                   | 4.16     | 51.7         | 3.90     | 48.6         | 3.65     | 47.1         | 3.52     | 45.5         | 3.40     | 42.4         | 0.14     |
|             | 41.0              | 39.4 | 54.8                   | 3.93     | 51.7         | 3.69     | 48.6         | 3.45     | 47.1         | 3.34     | 45.5         | 3.22     | 42.4         | 2.99     |
|             | 44.6              | 42.8 | 54.8                   | 3.72     | 51.7         | 3.50     | 48.6         | 3.27     | 47.1         | 3.16     | 45.5         | 3.06     | 42.4         | 2.84     |
|             | 48.2              | 46.2 | 54.8                   | 3.53     | 51.7         | 3.31     | 48.6         | 3.10     | 47.1         | 3.01     | 45.5         | 2.90     | 42.4         | 2.70     |
|             | 51.8              | 49.6 | 54.8                   | 3.34     | 51.7         | 3.15     | 48.6         | 2.95     | 47.1         | 2.86     | 45.5         | 2.76     | 42.4         | 2.58     |
|             | 55.4              | 53.2 | 54.8                   | 3.16     | 51.7         | 2.98     | 48.6         | 2.80     | 47.1         | 2.71     | 45.5         | 2.62     | 42.4         | 2.45     |
|             | 59.0              | 56.7 | 54.8                   | 3.01     | 51.7         | 2.83     | 48.6         | 2.67     | 47.1         | 2.58     | 45.5         | 2.50     | 42.4         | 2.34     |
|             | 64.4              | 62.2 | 54.8                   | 2.88     | 51.7         | 2.70     | 48.6         | 2.55     | 47.1         | 2.47     | 45.5         | 2.40     | 42.4         | 2.24     |
| 68.0        | 65.3              | 54.8 | 2.76                   | 51.7     | 2.58         | 48.6     | 2.44         | 47.1     | 2.37         | 45.5     | 2.31         | 42.4     | 2.15         |          |
| 75.2        | 68.9              | 54.8 | 2.65                   | 51.7     | 2.47         | 48.6     | 2.35         | 47.1     | 2.29         | 45.5     | 2.23         | 42.4     | 2.08         |          |

| Combination | Outdoor air temp. |      | Indoor air temperature |          |              |          |              |          |              |          |              |          |              |          |
|-------------|-------------------|------|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|             |                   |      | 61                     |          | 64           |          | 68           |          | 70           |          | 72           |          | 75           |          |
|             | °FDB              | °FWB | TC<br>KBtu/h           | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW |
| 50%         | -3.6              | -4.0 | 45.8                   | 6.22     | 43.2         | 5.79     | 40.6         | 5.38     | 39.1         | 5.18     | 37.8         | 4.98     | 35.2         | 4.59     |
|             | -1.8              | -2.2 | 45.8                   | 6.09     | 43.2         | 5.67     | 40.6         | 5.27     | 39.1         | 5.07     | 37.8         | 4.87     | 35.2         | 4.50     |
|             | 1.9               | 1.4  | 45.8                   | 5.81     | 43.2         | 5.42     | 40.6         | 5.04     | 39.1         | 4.85     | 37.8         | 4.67     | 35.2         | 4.31     |
|             | 7.3               | 5.0  | 45.8                   | 5.53     | 43.2         | 5.16     | 40.6         | 4.80     | 39.1         | 4.63     | 37.8         | 4.45     | 35.2         | 4.11     |
|             | 10.8              | 8.6  | 45.8                   | 5.25     | 43.2         | 4.91     | 40.6         | 4.56     | 39.1         | 4.40     | 37.8         | 4.23     | 35.2         | 3.92     |
|             | 14.4              | 12.2 | 45.8                   | 4.97     | 43.2         | 4.65     | 40.6         | 4.33     | 39.1         | 4.17     | 37.8         | 4.02     | 35.2         | 3.72     |
|             | 14.9              | 14.0 | 45.8                   | 4.84     | 43.2         | 4.52     | 40.6         | 4.22     | 39.1         | 4.07     | 37.8         | 3.92     | 35.2         | 3.62     |
|             | 16.7              | 15.6 | 45.8                   | 4.72     | 43.2         | 4.41     | 40.6         | 4.11     | 39.1         | 3.97     | 37.8         | 3.83     | 35.2         | 3.54     |
|             | 19.4              | 18.3 | 45.8                   | 4.52     | 43.2         | 4.25     | 40.6         | 3.95     | 39.1         | 3.81     | 37.8         | 3.68     | 35.2         | 3.40     |
|             | 23.0              | 21.9 | 45.8                   | 4.26     | 43.2         | 4.00     | 40.6         | 3.74     | 39.1         | 3.61     | 37.8         | 3.48     | 35.2         | 3.22     |
|             | 26.6              | 25.3 | 45.8                   | 4.04     | 43.2         | 3.79     | 40.6         | 3.54     | 39.1         | 3.42     | 37.8         | 3.30     | 35.2         | 3.07     |
|             | 32.0              | 30.7 | 45.8                   | 3.71     | 43.2         | 3.48     | 40.6         | 3.26     | 39.1         | 3.15     | 37.8         | 3.04     | 35.2         | 2.83     |
|             | 37.4              | 36.0 | 45.8                   | 3.41     | 43.2         | 3.21     | 40.6         | 3.01     | 39.1         | 2.91     | 37.8         | 2.82     | 35.2         | 2.62     |
|             | 41.0              | 39.4 | 45.8                   | 3.24     | 43.2         | 3.04     | 40.6         | 2.86     | 39.1         | 2.76     | 37.8         | 2.67     | 35.2         | 2.49     |
|             | 44.6              | 42.8 | 45.8                   | 3.07     | 43.2         | 2.89     | 40.6         | 2.72     | 39.1         | 2.63     | 37.8         | 2.55     | 35.2         | 2.38     |
|             | 48.2              | 46.2 | 45.8                   | 2.92     | 43.2         | 2.75     | 40.6         | 2.58     | 39.1         | 2.51     | 37.8         | 2.43     | 35.2         | 2.27     |
|             | 51.8              | 49.6 | 45.8                   | 2.77     | 43.2         | 2.61     | 40.6         | 2.46     | 39.1         | 2.39     | 37.8         | 2.31     | 35.2         | 2.16     |
|             | 55.4              | 53.2 | 45.8                   | 2.64     | 43.2         | 2.49     | 40.6         | 2.34     | 39.1         | 2.27     | 37.8         | 2.20     | 35.2         | 2.06     |
| 59.0        | 56.7              | 45.8 | 2.51                   | 43.2     | 2.37         | 40.6     | 2.24         | 39.1     | 2.17         | 37.8     | 2.10         | 35.2     | 1.97         |          |
| 64.4        | 62.2              | 45.8 | 2.39                   | 43.2     | 2.27         | 40.6     | 2.15         | 39.1     | 2.08         | 37.8     | 2.01         | 35.2     | 1.88         |          |
| 68.0        | 65.3              | 45.8 | 2.27                   | 43.2     | 2.17         | 40.6     | 2.06         | 39.1     | 2.00         | 37.8     | 1.93         | 35.2     | 1.79         |          |
| 75.2        | 68.9              | 45.8 | 2.17                   | 43.2     | 2.08         | 40.6     | 1.92         | 39.1     | 1.94         | 37.8     | 1.85         | 35.2     | 1.72         |          |

GMV-Y96WM/C-F(U)

TC—Total capacity of outdoor unit; PI—Power input of outdoor unit

| Combination | Outdoor air temp. |       | Indoor air temperature |          |              |          |              |          |              |          |              |          |              |          |
|-------------|-------------------|-------|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|             |                   |       | 61                     |          | 64           |          | 68           |          | 70           |          | 72           |          | 75           |          |
|             | °FDB              | °FWB  | TC<br>KBtu/h           | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW | TC<br>KBtu/h | PI<br>kW |
| 135%        | -3.6              | -4.0  | 69.9                   | 5.55     | 69.6         | 5.93     | 69.3         | 6.33     | 69.3         | 6.52     | 68.9         | 6.72     | 68.9         | 7.12     |
|             | -1.8              | -2.2  | 71.0                   | 5.67     | 70.6         | 6.06     | 70.6         | 6.44     | 70.3         | 6.64     | 70.3         | 6.82     | 69.9         | 7.21     |
|             | 1.9               | 1.4   | 73.7                   | 5.93     | 73.4         | 6.30     | 73.0         | 6.68     | 73.0         | 6.83     | 73.0         | 7.04     | 72.7         | 7.42     |
|             | 7.3               | 5.0   | 76.8                   | 6.21     | 76.5         | 6.57     | 76.1         | 6.92     | 76.1         | 7.10     | 75.8         | 7.28     | 75.8         | 7.64     |
|             | 10.8              | 8.6   | 79.9                   | 6.48     | 79.9         | 6.83     | 79.5         | 7.17     | 79.2         | 7.34     | 79.2         | 7.51     | 78.9         | 7.85     |
|             | 14.4              | 12.2  | 83.7                   | 6.77     | 83.3         | 7.10     | 83.0         | 7.42     | 83.0         | 7.59     | 83.0         | 7.75     | 82.6         | 8.07     |
|             | 14.9              | 14.0  | 85.7                   | 6.91     | 85.4         | 7.23     | 85.0         | 7.54     | 85.0         | 7.71     | 84.7         | 7.86     | 84.7         | 8.18     |
|             | 16.7              | 15.6  | 87.4                   | 7.03     | 87.1         | 7.34     | 87.1         | 7.66     | 86.7         | 7.81     | 86.7         | 7.96     | 86.4         | 8.28     |
|             | 19.4              | 18.3  | 90.5                   | 7.24     | 90.5         | 7.54     | 90.2         | 7.84     | 90.2         | 7.99     | 89.8         | 8.14     | 89.5         | 8.44     |
|             | 23.0              | 21.9  | 95.3                   | 7.51     | 95.0         | 7.65     | 94.6         | 8.08     | 94.6         | 8.23     | 94.3         | 8.36     | 94.3         | 8.65     |
|             | 26.6              | 25.3  | 99.8                   | 7.76     | 99.4         | 8.03     | 99.4         | 8.30     | 99.1         | 8.44     | 99.1         | 8.57     | 98.7         | 8.84     |
|             | 32.0              | 30.7  | 107.7                  | 8.14     | 107.7        | 8.39     | 107.3        | 8.64     | 107.3        | 8.76     | 107.0        | 8.89     | 107.0        | 9.13     |
|             | 37.4              | 36.0  | 116.2                  | 8.47     | 115.9        | 8.71     | 115.5        | 8.94     | 115.5        | 9.05     | 115.5        | 9.18     | 115.2        | 9.40     |
|             | 41.0              | 39.4  | 122.1                  | 8.69     | 121.7        | 8.91     | 121.7        | 9.12     | 121.4        | 9.24     | 121.4        | 9.35     | 121.0        | 9.56     |
|             | 44.6              | 42.8  | 128.2                  | 8.89     | 127.9        | 9.09     | 127.9        | 9.31     | 127.5        | 9.39     | 127.5        | 9.51     | 122.4        | 9.13     |
|             | 48.2              | 46.2  | 134.7                  | 9.07     | 134.4        | 9.28     | 134.4        | 9.47     | 134.1        | 9.57     | 131.3        | 9.38     | 122.4        | 8.58     |
|             | 51.8              | 49.6  | 141.6                  | 9.26     | 141.3        | 9.44     | 140.6        | 9.56     | 135.8        | 9.19     | 131.3        | 8.81     | 122.4        | 8.08     |
|             | 55.4              | 53.2  | 149.1                  | 9.43     | 148.8        | 9.61     | 140.6        | 8.96     | 135.8        | 8.60     | 131.3        | 8.27     | 122.4        | 7.59     |
| 59.0        | 56.7              | 156.3 | 9.59                   | 149.5    | 9.10         | 140.6    | 8.44         | 135.8    | 8.12         | 131.3    | 7.79         | 122.4    | 7.16         |          |
| 64.4        | 62.2              | 156.3 | 9.08                   | 149.5    | 8.67         | 140.6    | 8.00         | 135.8    | 7.71         | 131.3    | 7.36         | 122.4    | 6.80         |          |
| 68.0        | 65.3              | 156.3 | 8.65                   | 149.5    | 8.28         | 140.6    | 7.64         | 135.8    | 7.36         | 131.3    | 6.99         | 122.4    | 6.49         |          |
| 75.2        | 68.9              | 156.3 | 8.27                   | 149.5    | 7.96         | 140.6    | 7.34         | 135.8    | 7.08         | 131.3    | 6.68         | 122.4    | 6.26         |          |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp. |       | Indoor air temperature |       |        |       |        |       |        |       |        |       |        |      |
|-------------|-------------------|-------|------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|
|             |                   |       | 61                     |       | 64     |       | 68     |       | 70     |       | 72     |       | 75     |      |
|             | °FDB              | °FWB  | TC                     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI   |
|             |                   |       | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW   |
| 120%        | -3.6              | -4.0  | 69.6                   | 6.08  | 69.3   | 6.43  | 68.9   | 6.80  | 68.9   | 6.97  | 68.9   | 7.16  | 68.6   | 7.52 |
|             | -1.8              | -2.2  | 70.6                   | 6.19  | 70.3   | 6.55  | 70.3   | 6.83  | 69.9   | 7.08  | 69.9   | 7.26  | 69.6   | 7.62 |
|             | 1.9               | 1.4   | 73.4                   | 6.43  | 73.0   | 6.78  | 73.0   | 7.12  | 72.7   | 7.29  | 72.7   | 7.46  | 72.3   | 7.80 |
|             | 7.3               | 5.0   | 76.5                   | 6.69  | 76.1   | 7.01  | 75.8   | 7.34  | 75.8   | 7.51  | 75.8   | 7.68  | 75.4   | 8.00 |
|             | 10.8              | 8.6   | 79.5                   | 6.94  | 79.5   | 7.26  | 79.2   | 7.57  | 79.2   | 7.74  | 78.9   | 7.89  | 78.9   | 8.21 |
|             | 14.4              | 12.2  | 83.3                   | 7.21  | 83.0   | 7.50  | 83.0   | 7.81  | 82.6   | 7.96  | 82.6   | 8.11  | 82.3   | 8.42 |
|             | 14.9              | 14.0  | 85.4                   | 7.34  | 85.0   | 7.64  | 84.7   | 7.92  | 84.7   | 8.07  | 84.7   | 8.16  | 84.3   | 8.51 |
|             | 16.7              | 15.6  | 87.1                   | 7.45  | 86.7   | 7.74  | 86.7   | 8.02  | 86.4   | 8.17  | 86.4   | 8.32  | 86.1   | 8.60 |
|             | 19.4              | 18.3  | 90.2                   | 7.65  | 90.2   | 7.92  | 89.8   | 8.20  | 89.8   | 8.34  | 89.5   | 8.47  | 89.5   | 8.75 |
|             | 23.0              | 21.9  | 95.0                   | 7.89  | 94.6   | 8.16  | 94.3   | 8.42  | 94.3   | 8.55  | 94.3   | 8.69  | 93.9   | 8.94 |
|             | 26.6              | 25.3  | 99.4                   | 8.13  | 99.4   | 8.38  | 99.1   | 8.62  | 99.1   | 8.75  | 98.7   | 8.88  | 98.7   | 9.12 |
|             | 32.0              | 30.7  | 107.3                  | 8.47  | 107.3  | 8.71  | 107.0  | 9.04  | 107.0  | 9.05  | 106.6  | 9.17  | 106.6  | 9.40 |
|             | 37.4              | 36.0  | 115.9                  | 8.79  | 115.5  | 9.00  | 115.5  | 9.22  | 115.2  | 9.33  | 115.2  | 9.43  | 112.8  | 9.38 |
|             | 41.0              | 39.4  | 121.7                  | 8.98  | 121.4  | 9.19  | 121.4  | 9.39  | 121.0  | 9.49  | 121.0  | 9.59  | 112.8  | 8.81 |
|             | 44.6              | 42.8  | 127.9                  | 9.17  | 127.9  | 9.36  | 127.5  | 9.55  | 125.5  | 9.42  | 121.4  | 9.03  | 112.8  | 8.29 |
|             | 48.2              | 46.2  | 134.4                  | 9.35  | 134.1  | 9.53  | 129.6  | 9.22  | 125.5  | 8.85  | 121.4  | 8.49  | 112.8  | 7.80 |
|             | 51.8              | 49.6  | 141.3                  | 9.51  | 137.8  | 9.35  | 129.6  | 8.67  | 125.5  | 8.33  | 121.4  | 7.99  | 112.8  | 7.35 |
|             | 55.4              | 53.2  | 146.4                  | 9.42  | 137.8  | 8.77  | 129.6  | 8.13  | 125.5  | 7.82  | 121.4  | 7.51  | 112.8  | 6.91 |
|             | 59.0              | 56.7  | 146.4                  | 8.87  | 137.8  | 8.26  | 129.6  | 7.67  | 125.5  | 7.37  | 121.4  | 7.09  | 112.8  | 6.52 |
|             | 64.4              | 62.2  | 146.4                  | 8.38  | 137.8  | 7.82  | 129.6  | 7.28  | 125.5  | 6.98  | 121.4  | 6.71  | 112.8  | 6.19 |
| 68.0        | 65.3              | 146.4 | 7.94                   | 137.8 | 7.46   | 129.6 | 6.96   | 125.5 | 6.66   | 121.4 | 6.39   | 112.8 | 5.89   |      |
| 75.2        | 68.9              | 146.4 | 7.55                   | 137.8 | 7.16   | 129.6 | 6.71   | 125.5 | 6.38   | 121.4 | 6.14   | 112.8 | 5.65   |      |
| 110%        | -3.6              | -4.0  | 69.3                   | 6.61  | 68.9   | 6.93  | 68.6   | 7.27  | 68.6   | 7.43  | 68.6   | 7.60  | 68.2   | 7.93 |
|             | -1.8              | -2.2  | 70.3                   | 6.71  | 70.3   | 7.03  | 69.9   | 7.36  | 69.9   | 7.52  | 69.6   | 7.69  | 69.6   | 8.01 |
|             | 1.9               | 1.4   | 73.0                   | 6.93  | 72.7   | 7.25  | 72.7   | 7.56  | 72.3   | 7.72  | 72.3   | 7.88  | 72.0   | 8.19 |
|             | 7.3               | 5.0   | 76.1                   | 7.17  | 75.8   | 7.47  | 75.4   | 7.77  | 75.4   | 7.92  | 75.4   | 8.07  | 75.1   | 8.37 |
|             | 10.8              | 8.6   | 79.2                   | 7.41  | 79.2   | 7.70  | 78.9   | 7.98  | 78.9   | 8.13  | 78.5   | 8.27  | 78.5   | 8.56 |
|             | 14.4              | 12.2  | 83.0                   | 7.65  | 82.6   | 7.92  | 82.6   | 8.20  | 82.3   | 8.34  | 82.3   | 8.47  | 82.3   | 8.75 |
|             | 14.9              | 14.0  | 85.0                   | 7.77  | 84.7   | 8.03  | 84.3   | 8.31  | 84.3   | 8.44  | 84.3   | 8.57  | 84.0   | 8.84 |
|             | 16.7              | 15.6  | 86.7                   | 7.87  | 86.4   | 8.14  | 86.4   | 8.40  | 86.4   | 8.53  | 86.1   | 8.67  | 86.1   | 8.92 |
|             | 19.4              | 18.3  | 89.8                   | 8.05  | 89.8   | 8.30  | 89.5   | 8.55  | 89.5   | 8.69  | 90.5   | 8.81  | 89.1   | 9.06 |
|             | 23.0              | 21.9  | 94.6                   | 8.28  | 94.3   | 8.52  | 93.9   | 8.76  | 93.9   | 8.88  | 98.4   | 9.00  | 93.6   | 9.25 |
|             | 26.6              | 25.3  | 99.1                   | 8.49  | 99.1   | 8.72  | 98.7   | 8.95  | 98.7   | 9.06  | 106.6  | 9.18  | 98.4   | 9.41 |
|             | 32.0              | 30.7  | 107.0                  | 8.81  | 107.0  | 9.02  | 106.6  | 9.24  | 106.6  | 9.34  | 111.1  | 9.45  | 103.5  | 9.27 |
|             | 37.4              | 36.0  | 115.5                  | 9.10  | 115.2  | 9.30  | 115.2  | 9.49  | 114.9  | 9.58  | 111.1  | 9.20  | 103.5  | 8.43 |
|             | 41.0              | 39.4  | 121.4                  | 9.28  | 121.4  | 9.47  | 119.0  | 9.38  | 114.9  | 9.00  | 111.1  | 8.65  | 103.5  | 7.93 |
|             | 44.6              | 42.8  | 127.5                  | 9.45  | 126.5  | 9.51  | 119.0  | 8.81  | 114.9  | 8.46  | 111.1  | 8.13  | 103.5  | 7.46 |
|             | 48.2              | 46.2  | 134.1                  | 9.60  | 126.5  | 8.94  | 119.0  | 8.29  | 114.9  | 7.96  | 111.1  | 7.65  | 103.5  | 7.03 |
|             | 51.8              | 49.6  | 134.1                  | 9.03  | 126.5  | 8.41  | 119.0  | 7.80  | 114.9  | 7.50  | 111.1  | 7.21  | 103.5  | 6.64 |
|             | 55.4              | 53.2  | 134.1                  | 8.47  | 126.5  | 7.89  | 119.0  | 7.33  | 114.9  | 7.05  | 111.1  | 6.78  | 103.5  | 6.25 |
|             | 59.0              | 56.7  | 134.1                  | 7.98  | 126.5  | 7.44  | 119.0  | 6.92  | 114.9  | 6.66  | 111.1  | 6.41  | 103.5  | 5.91 |
|             | 64.4              | 62.2  | 134.1                  | 7.55  | 126.5  | 7.05  | 119.0  | 6.31  | 114.9  | 6.31  | 111.1  | 6.11  | 103.5  | 5.63 |
| 68.0        | 65.3              | 134.1 | 7.17                   | 126.5 | 6.71   | 119.0 | 5.98   | 114.9 | 6.00   | 111.1 | 5.85   | 103.5 | 5.38   |      |
| 75.2        | 68.9              | 134.1 | 6.84                   | 126.5 | 6.40   | 119.0 | 5.70   | 114.9 | 5.75   | 111.1 | 5.64   | 103.5 | 5.18   |      |

| Combination | Outdoor air temp. |       | Indoor air temperature |       |        |       |        |       |        |       |        |      |        |      |
|-------------|-------------------|-------|------------------------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|------|
|             |                   |       | 61                     |       | 64     |       | 68     |       | 70     |       | 72     |      | 75     |      |
|             | °FDB              | °FWB  | TC                     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI   | TC     | PI   |
|             |                   |       | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW   | KBtu/h | kW   |
| 100%        | -3.6              | -4.0  | 68.9                   | 7.14  | 68.6   | 7.43  | 68.6   | 7.74  | 68.2   | 7.89  | 68.2   | 8.03 | 67.9   | 8.34 |
|             | -1.8              | -2.2  | 69.9                   | 7.23  | 69.9   | 7.52  | 69.6   | 7.82  | 69.6   | 7.97  | 69.3   | 8.13 | 69.3   | 8.42 |
|             | 1.9               | 1.4   | 72.7                   | 7.43  | 72.3   | 7.72  | 72.3   | 8.00  | 72.3   | 8.15  | 72.0   | 8.29 | 72.0   | 8.57 |
|             | 7.3               | 5.0   | 75.8                   | 7.65  | 75.4   | 7.92  | 75.4   | 8.20  | 75.1   | 8.34  | 75.1   | 8.47 | 74.7   | 8.75 |
|             | 10.8              | 8.6   | 78.9                   | 7.87  | 78.9   | 8.13  | 78.5   | 8.39  | 78.5   | 8.52  | 78.5   | 8.35 | 78.2   | 8.92 |
|             | 14.4              | 12.2  | 82.6                   | 8.08  | 82.3   | 8.34  | 82.3   | 8.58  | 82.3   | 8.72  | 81.9   | 8.84 | 81.9   | 9.08 |
|             | 14.9              | 14.0  | 84.7                   | 8.20  | 84.3   | 8.44  | 84.3   | 8.69  | 84.0   | 8.81  | 84.0   | 8.93 | 83.7   | 9.18 |
|             | 16.7              | 15.6  | 86.4                   | 8.29  | 86.4   | 8.53  | 86.1   | 8.77  | 86.1   | 8.89  | 85.7   | 9.01 | 85.7   | 9.25 |
|             | 19.4              | 18.3  | 89.5                   | 8.45  | 89.5   | 8.69  | 89.1   | 8.91  | 89.1   | 9.03  | 89.1   | 9.14 | 88.8   | 9.38 |
|             | 23.0              | 21.9  | 94.3                   | 8.67  | 93.9   | 8.88  | 93.9   | 9.10  | 93.6   | 9.22  | 93.6   | 9.32 | 93.6   | 9.54 |
|             | 26.6              | 25.3  | 98.7                   | 8.86  | 98.7   | 9.06  | 98.4   | 9.28  | 98.4   | 9.38  | 98.4   | 9.48 | 94.3   | 9.08 |
|             | 32.0              | 30.7  | 106.6                  | 9.16  | 106.6  | 9.34  | 106.3  | 9.53  | 104.6  | 9.38  | 101.1  | 8.99 | 94.3   | 8.26 |
|             | 37.4              | 36.0  | 115.2                  | 9.41  | 114.9  | 9.58  | 108.0  | 8.87  | 104.6  | 8.52  | 101.1  | 8.19 | 94.3   | 7.51 |
|             | 41.0              | 39.4  | 121.0                  | 9.58  | 114.9  | 9.00  | 108.0  | 8.34  | 104.6  | 8.02  | 101.1  | 7.71 | 94.3   | 7.09 |
|             | 44.6              | 42.8  | 121.7                  | 9.09  | 114.9  | 8.46  | 108.0  | 7.85  | 104.6  | 7.55  | 101.1  | 7.26 | 94.3   | 6.68 |
|             | 48.2              | 46.2  | 121.7                  | 8.54  | 114.9  | 7.96  | 108.0  | 7.39  | 104.6  | 7.12  | 101.1  | 6.84 | 94.3   | 6.30 |
|             | 51.8              | 49.6  | 121.7                  | 8.04  | 114.9  | 7.50  | 108.0  | 6.97  | 104.6  | 6.71  | 101.1  | 6.45 | 94.3   | 5.95 |
|             | 55.4              | 53.2  | 121.7                  | 7.55  | 114.9  | 7.05  | 108.0  | 6.57  | 104.6  | 6.32  | 101.1  | 6.09 | 94.3   | 5.62 |
|             | 59.0              | 56.7  | 121.7                  | 7.13  | 114.9  | 6.66  | 108.0  | 6.20  | 104.6  | 5.97  | 101.1  | 5.75 | 94.3   | 5.32 |
|             | 64.4              | 62.2  | 121.7                  | 6.72  | 114.9  | 6.35  | 108.0  | 5.99  | 104.6  | 5.67  | 101.1  | 5.44 | 94.3   | 5.07 |
| 68.0        | 65.3              | 121.7 | 6.34                   | 114.9 | 6.10   | 108.0 | 5.75   | 104.6 | 5.41   | 101.1 | 5.19   | 94.3 | 4.86   |      |
| 75.2        | 68.9              | 121.7 | 5.99                   | 114.9 | 5.89   | 108.0 | 5.53   | 104.6 | 5.21   | 101.1 | 4.99   | 94.3 | 4.71   |      |
| 90%         | -3.6              | -4.0  | 68.6                   | 7.67  | 68.2   | 7.93  | 68.2   | 8.21  | 67.9   | 8.34  | 67.9   | 8.48 | 67.9   | 8.75 |
|             | -1.8              | -2.2  | 69.6                   | 7.75  | 69.6   | 8.02  | 69.3   | 8.29  | 69.3   | 8.42  | 69.3   | 8.55 | 68.9   | 8.82 |
|             | 1.9               | 1.4   | 72.3                   | 7.94  | 72.0   | 8.20  | 72.0   | 8.45  | 72.0   | 8.58  | 71.7   | 8.71 | 71.7   | 8.96 |
|             | 7.3               | 5.0   | 75.4                   | 8.14  | 75.1   | 8.38  | 75.1   | 8.62  | 74.7   | 8.67  | 74.7   | 8.87 | 74.7   | 9.11 |
|             | 10.8              | 8.6   | 78.5                   | 8.33  | 78.5   | 8.56  | 78.2   | 8.80  | 78.2   | 8.92  | 78.2   | 9.03 | 77.8   | 9.27 |
|             | 14.4              | 12.2  | 82.3                   | 8.52  | 82.3   | 8.75  | 81.9   | 8.97  | 81.9   | 9.09  | 81.9   | 9.21 | 81.6   | 9.43 |
|             | 14.9              | 14.0  | 84.3                   | 8.62  | 84.0   | 8.85  | 84.0   | 9.06  | 83.7   | 9.18  | 83.7   | 9.29 | 83.7   | 9.50 |
|             | 16.7              | 15.6  | 86.1                   | 8.72  | 86.1   | 8.93  | 85.7   | 9.14  | 85.7   | 9.25  | 85.7   | 9.36 | 84.7   | 9.45 |
|             | 19.4              | 18.3  | 89.1                   | 8.86  | 89.1   | 9.06  | 88.8   | 9.28  | 88.8   | 9.38  | 88.8   | 9.48 | 84.7   | 9.02 |
|             | 23.0              | 21.9  | 93.9                   | 9.05  | 93.6   | 9.25  | 93.6   | 9.44  | 93.6   | 9.54  | 90.9   | 9.25 | 84.7   | 8.48 |
|             | 26.6              | 25.3  | 98.4                   | 9.23  | 98.4   | 8.39  | 97.4   | 9.45  | 93.9   | 9.07  | 90.9   | 8.71 | 84.7   | 7.99 |
|             | 32.0              | 30.7  | 106.6                  | 9.49  | 103.5  | 8.24  | 97.4   | 8.57  | 93.9   | 8.24  | 90.9   | 7.91 | 84.7   | 7.27 |
|             | 37.4              | 36.0  | 109.7                  | 9.04  | 103.5  | 8.42  | 97.4   | 7.81  | 93.9   | 7.51  | 90.9   | 7.22 | 84.7   | 6.65 |
|             | 41.0              | 39.4  | 109.7                  | 8.50  | 103.5  | 7.92  | 97.4   | 7.36  | 93.9   | 7.08  | 90.9   | 6.81 | 84.7   | 6.27 |
|             | 44.6              | 42.8  | 109.7                  | 7.99  | 103.5  | 7.46  | 97.4   | 6.93  | 93.9   | 6.68  | 90.9   | 6.42 | 84.7   | 5.92 |
|             | 48.2              | 46.2  | 109.7                  | 7.53  | 103.5  | 7.02  | 97.4   | 6.53  | 93.9   | 6.30  | 90.9   | 6.07 | 84.7   | 5.60 |
|             | 51.8              | 49.6  | 109.7                  | 7.10  | 103.5  | 6.63  | 97.4   | 6.18  | 93.9   | 5.95  | 90.9   | 5.73 | 84.7   | 5.30 |
|             | 55.4              | 53.2  | 109.7                  | 6.68  | 103.5  | 6.25  | 97.4   | 5.82  | 93.9   | 5.62  | 90.9   | 5.41 | 84.7   | 5.01 |
|             | 59.0              | 56.7  | 109.7                  | 6.31  | 103.5  | 5.90  | 97.4   | 5.52  | 93.9   | 5.30  | 90.9   | 5.13 | 84.7   | 4.75 |
|             | 64.4              | 62.2  | 109.7                  | 5.96  | 103.5  | 5.58  | 97.4   | 5.23  | 93.9   | 5.01  | 90.9   | 4.86 | 84.7   | 4.52 |
| 68.0        | 65.3              | 109.7 | 5.64                   | 103.5 | 5.27   | 97.4  | 4.96   | 93.9  | 4.72   | 90.9  | 4.62   | 84.7 | 4.31   |      |
| 75.2        | 68.9              | 109.7 | 5.32                   | 103.5 | 4.98   | 97.4  | 4.71   | 93.9  | 4.46   | 90.9  | 4.38   | 84.7 | 4.12   |      |

# GMV5 DC Inverter VRF Units Technical Sales Guide

| Combination | Outdoor air temp. |      | Indoor air temperature |      |        |      |        |      |        |      |        |      |        |      |
|-------------|-------------------|------|------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|             |                   |      | 61                     |      | 64     |      | 68     |      | 70     |      | 72     |      | 75     |      |
|             | °FDB              | °FWB | TC                     | PI   | TC     | PI   | TC     | PI   | TC     | PI   | TC     | PI   | TC     | PI   |
|             |                   |      | KBtu/h                 | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   |
| 80%         | -3.6              | -4.0 | 68.2                   | 8.20 | 67.9   | 8.43 | 67.9   | 8.68 | 67.9   | 8.80 | 67.5   | 8.92 | 67.5   | 9.16 |
|             | -1.8              | -2.2 | 69.3                   | 8.27 | 69.3   | 8.51 | 68.9   | 8.75 | 68.9   | 8.87 | 68.9   | 8.98 | 68.6   | 9.23 |
|             | 1.9               | 1.4  | 72.0                   | 8.44 | 71.7   | 8.67 | 71.7   | 8.90 | 71.7   | 9.01 | 71.7   | 9.12 | 71.3   | 9.35 |
|             | 7.3               | 5.0  | 75.1                   | 8.61 | 74.7   | 8.83 | 74.7   | 9.05 | 74.7   | 9.16 | 74.4   | 9.27 | 74.4   | 9.49 |
|             | 10.8              | 8.6  | 78.2                   | 8.79 | 78.2   | 9.00 | 77.8   | 9.21 | 77.8   | 9.31 | 77.8   | 9.42 | 75.4   | 9.17 |
|             | 14.4              | 12.2 | 81.9                   | 8.96 | 81.9   | 9.17 | 81.6   | 9.37 | 81.6   | 9.46 | 80.9   | 9.44 | 75.4   | 8.66 |
|             | 14.9              | 14.0 | 84.0                   | 9.05 | 83.7   | 9.25 | 83.7   | 9.44 | 83.7   | 9.54 | 80.9   | 9.17 | 75.4   | 8.40 |
|             | 16.7              | 15.6 | 85.7                   | 9.13 | 85.7   | 9.33 | 85.4   | 9.51 | 83.7   | 9.31 | 80.9   | 8.92 | 75.4   | 8.18 |
|             | 19.4              | 18.3 | 88.8                   | 9.27 | 88.8   | 9.45 | 86.4   | 9.25 | 83.7   | 8.88 | 80.9   | 8.52 | 75.4   | 7.85 |
|             | 23.0              | 21.9 | 93.6                   | 8.41 | 91.9   | 9.38 | 86.4   | 8.69 | 83.7   | 8.35 | 80.9   | 8.01 | 75.4   | 7.36 |
|             | 26.6              | 25.3 | 97.4                   | 8.46 | 91.9   | 8.83 | 86.4   | 8.18 | 83.7   | 7.90 | 80.9   | 7.55 | 75.4   | 6.95 |
|             | 32.0              | 30.7 | 97.4                   | 8.60 | 91.9   | 8.01 | 86.4   | 7.44 | 83.7   | 7.17 | 80.9   | 6.88 | 75.4   | 6.34 |
|             | 37.4              | 36.0 | 97.4                   | 7.84 | 91.9   | 7.31 | 86.4   | 6.80 | 83.7   | 6.55 | 80.9   | 6.30 | 75.4   | 5.81 |
|             | 41.0              | 39.4 | 97.4                   | 7.38 | 91.9   | 6.89 | 86.4   | 6.41 | 83.7   | 6.18 | 80.9   | 5.95 | 75.4   | 5.50 |
|             | 44.6              | 42.8 | 97.4                   | 6.95 | 91.9   | 6.51 | 86.4   | 6.06 | 83.7   | 5.84 | 80.9   | 5.63 | 75.4   | 5.20 |
|             | 48.2              | 46.2 | 97.4                   | 6.57 | 91.9   | 6.14 | 86.4   | 5.75 | 83.7   | 5.52 | 80.9   | 5.32 | 75.4   | 4.92 |
|             | 51.8              | 49.6 | 97.4                   | 6.20 | 91.9   | 5.80 | 86.4   | 5.41 | 83.7   | 5.22 | 80.9   | 5.04 | 75.4   | 4.67 |
|             | 55.4              | 53.2 | 97.4                   | 5.84 | 91.9   | 5.47 | 86.4   | 5.12 | 83.7   | 4.93 | 80.9   | 4.76 | 75.4   | 4.41 |
|             | 59.0              | 56.7 | 97.4                   | 5.53 | 91.9   | 5.19 | 86.4   | 4.85 | 83.7   | 4.68 | 80.9   | 4.52 | 75.4   | 4.20 |
|             | 64.4              | 62.2 | 97.4                   | 5.27 | 91.9   | 4.93 | 86.4   | 4.62 | 83.7   | 4.45 | 80.9   | 4.28 | 75.4   | 4.01 |
| 68.0        | 65.3              | 97.4 | 5.07                   | 91.9 | 4.73   | 86.4 | 4.41   | 83.7 | 4.24   | 80.9 | 4.08   | 75.4 | 3.82   |      |
| 75.2        | 68.9              | 97.4 | 4.91                   | 91.9 | 4.58   | 86.4 | 4.23   | 83.7 | 4.06   | 80.9 | 3.89   | 75.4 | 3.66   |      |
| 70%         | -3.6              | -4.0 | 67.9                   | 8.73 | 67.5   | 8.93 | 67.5   | 9.14 | 67.5   | 9.25 | 67.5   | 9.36 | 65.8   | 9.26 |
|             | -1.8              | -2.2 | 68.9                   | 8.80 | 68.9   | 9.00 | 68.6   | 9.21 | 68.6   | 9.31 | 68.6   | 9.42 | 65.8   | 9.06 |
|             | 1.9               | 1.4  | 71.7                   | 8.94 | 71.7   | 9.14 | 71.3   | 9.34 | 71.3   | 9.44 | 70.6   | 9.43 | 65.8   | 8.65 |
|             | 7.3               | 5.0  | 74.7                   | 9.09 | 74.4   | 9.29 | 74.4   | 9.48 | 73.0   | 9.90 | 70.6   | 8.96 | 65.8   | 8.22 |
|             | 10.8              | 8.6  | 77.8                   | 9.25 | 77.8   | 9.43 | 75.8   | 9.21 | 73.0   | 8.85 | 70.6   | 8.49 | 65.8   | 7.79 |
|             | 14.4              | 12.2 | 81.6                   | 9.40 | 80.6   | 9.39 | 75.8   | 8.70 | 73.0   | 8.36 | 70.6   | 8.02 | 65.8   | 7.37 |
|             | 14.9              | 14.0 | 83.7                   | 9.48 | 80.6   | 9.11 | 75.8   | 8.44 | 73.0   | 8.12 | 70.6   | 7.80 | 65.8   | 7.17 |
|             | 16.7              | 15.6 | 85.4                   | 9.53 | 80.6   | 8.87 | 75.8   | 8.22 | 73.0   | 7.90 | 70.6   | 7.60 | 65.8   | 6.98 |
|             | 19.4              | 18.3 | 85.4                   | 9.10 | 80.6   | 8.47 | 75.8   | 7.86 | 73.0   | 7.56 | 70.6   | 7.27 | 65.8   | 6.69 |
|             | 23.0              | 21.9 | 85.4                   | 8.55 | 80.6   | 7.97 | 75.8   | 7.40 | 73.0   | 7.12 | 70.6   | 6.84 | 65.8   | 6.31 |
|             | 26.6              | 25.3 | 85.4                   | 8.05 | 80.6   | 7.51 | 75.8   | 6.98 | 73.0   | 6.72 | 70.6   | 6.46 | 65.8   | 5.96 |
|             | 32.0              | 30.7 | 85.4                   | 7.33 | 80.6   | 6.88 | 75.8   | 6.37 | 73.0   | 6.14 | 70.6   | 5.91 | 65.8   | 5.46 |
|             | 37.4              | 36.0 | 85.4                   | 6.70 | 80.6   | 0.15 | 75.8   | 5.84 | 73.0   | 5.63 | 70.6   | 5.42 | 65.8   | 5.02 |
|             | 41.0              | 39.4 | 85.4                   | 6.32 | 80.6   | 5.91 | 75.8   | 5.53 | 73.0   | 5.32 | 70.6   | 5.14 | 65.8   | 4.75 |
|             | 44.6              | 42.8 | 85.4                   | 5.97 | 80.6   | 5.60 | 75.8   | 5.22 | 73.0   | 5.04 | 70.6   | 4.86 | 65.8   | 4.51 |
|             | 48.2              | 46.2 | 85.4                   | 5.65 | 80.6   | 5.29 | 75.8   | 4.94 | 73.0   | 4.77 | 70.6   | 4.61 | 65.8   | 4.27 |
|             | 51.8              | 49.6 | 85.4                   | 5.34 | 80.6   | 5.01 | 75.8   | 4.69 | 73.0   | 4.53 | 70.6   | 4.37 | 65.8   | 4.06 |
|             | 55.4              | 53.2 | 85.4                   | 5.05 | 80.6   | 4.74 | 75.8   | 4.43 | 73.0   | 4.29 | 70.6   | 4.14 | 65.8   | 3.85 |
|             | 59.0              | 56.7 | 85.4                   | 4.78 | 80.6   | 4.50 | 75.8   | 4.21 | 73.0   | 4.08 | 70.6   | 3.94 | 65.8   | 3.67 |
|             | 64.4              | 62.2 | 85.4                   | 4.54 | 80.6   | 4.27 | 75.8   | 4.01 | 73.0   | 3.88 | 70.6   | 3.75 | 65.8   | 3.51 |
| 68.0        | 65.3              | 85.4 | 4.32                   | 80.6 | 4.07   | 75.8 | 3.82   | 73.0 | 3.71   | 70.6 | 3.59   | 65.8 | 3.36   |      |
| 75.2        | 68.9              | 85.4 | 4.13                   | 80.6 | 3.88   | 75.8 | 3.67   | 73.0 | 3.56   | 70.6 | 3.46   | 65.8 | 3.24   |      |

| Combination | Outdoor air temp. |      | Indoor air temperature |      |        |      |        |      |        |      |        |      |        |      |
|-------------|-------------------|------|------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|             |                   |      | 61                     |      | 64     |      | 68     |      | 70     |      | 72     |      | 75     |      |
|             | °FDB              | °FWB | TC                     | PI   | TC     | PI   | TC     | PI   | TC     | PI   | TC     | PI   | TC     | PI   |
|             |                   |      | KBtu/h                 | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   |
| 60%         | -3.6              | -4.0 | 67.5                   | 9.26 | 67.2   | 9.43 | 64.8   | 9.07 | 62.7   | 8.72 | 60.7   | 8.37 | 56.6   | 7.68 |
|             | -1.8              | -2.2 | 68.6                   | 9.32 | 68.6   | 9.49 | 64.8   | 8.88 | 62.7   | 8.53 | 60.7   | 8.19 | 56.6   | 7.51 |
|             | 1.9               | 1.4  | 71.3                   | 9.44 | 68.9   | 9.14 | 64.8   | 8.47 | 62.7   | 8.15 | 60.7   | 7.82 | 56.6   | 7.19 |
|             | 7.3               | 5.0  | 73.0                   | 9.34 | 68.9   | 8.69 | 64.8   | 8.05 | 62.7   | 7.75 | 60.7   | 7.44 | 56.6   | 6.84 |
|             | 10.8              | 8.6  | 73.0                   | 8.84 | 68.9   | 8.23 | 64.8   | 7.64 | 62.7   | 7.35 | 60.7   | 7.07 | 56.6   | 6.50 |
|             | 14.4              | 12.2 | 73.0                   | 8.35 | 68.9   | 7.78 | 64.8   | 7.23 | 62.7   | 6.95 | 60.7   | 6.69 | 56.6   | 6.17 |
|             | 14.9              | 14.0 | 73.0                   | 8.12 | 68.9   | 7.56 | 64.8   | 7.02 | 62.7   | 6.77 | 60.7   | 6.50 | 56.6   | 5.99 |
|             | 16.7              | 15.6 | 73.0                   | 7.90 | 68.9   | 7.37 | 64.8   | 6.85 | 62.7   | 6.60 | 60.7   | 6.34 | 56.6   | 5.85 |
|             | 19.4              | 18.3 | 73.0                   | 7.55 | 68.9   | 7.05 | 64.8   | 6.56 | 62.7   | 6.32 | 60.7   | 6.08 | 56.6   | 5.62 |
|             | 23.0              | 21.9 | 73.0                   | 7.12 | 68.9   | 6.65 | 64.8   | 6.19 | 62.7   | 5.96 | 60.7   | 5.74 | 56.6   | 5.31 |
|             | 26.6              | 25.3 | 73.0                   | 6.72 | 68.9   | 6.28 | 64.8   | 5.87 | 62.7   | 5.65 | 60.7   | 5.43 | 56.6   | 5.03 |
|             | 32.0              | 30.7 | 73.0                   | 6.14 | 68.9   | 5.75 | 64.8   | 5.36 | 62.7   | 5.18 | 60.7   | 4.99 | 56.6   | 4.62 |
|             | 37.4              | 36.0 | 73.0                   | 5.63 | 68.9   | 5.28 | 64.8   | 4.93 | 62.7   | 4.76 | 60.7   | 4.60 | 56.6   | 0.18 |
|             | 41.0              | 39.4 | 73.0                   | 5.32 | 68.9   | 5.00 | 64.8   | 4.67 | 62.7   | 4.52 | 60.7   | 4.35 | 56.6   | 4.05 |
|             | 44.6              | 42.8 | 73.0                   | 5.04 | 68.9   | 4.73 | 64.8   | 4.42 | 62.7   | 4.28 | 60.7   | 4.14 | 56.6   | 3.84 |
|             | 48.2              | 46.2 | 73.0                   | 4.77 | 68.9   | 4.49 | 64.8   | 4.20 | 62.7   | 4.07 | 60.7   | 3.93 | 56.6   | 3.66 |
|             | 51.8              | 49.6 | 73.0                   | 4.53 | 68.9   | 4.26 | 64.8   | 4.00 | 62.7   | 3.86 | 60.7   | 3.73 | 56.6   | 3.49 |
|             | 55.4              | 53.2 | 73.0                   | 4.28 | 68.9   | 4.04 | 64.8   | 3.79 | 62.7   | 3.67 | 60.7   | 3.55 | 56.6   | 3.31 |
|             | 59.0              | 56.7 | 73.0                   | 4.08 | 68.9   | 3.83 | 64.8   | 3.61 | 62.7   | 3.50 | 60.7   | 3.38 | 56.6   | 3.16 |
|             | 64.4              | 62.2 | 73.0                   | 3.89 | 68.9   | 3.65 | 64.8   | 3.45 | 62.7   | 3.34 | 60.7   | 3.24 | 56.6   | 3.03 |
| 68.0        | 65.3              | 73.0 | 3.73                   | 68.9 | 3.49   | 64.8 | 3.30   | 62.7 | 3.21   | 60.7 | 3.12   | 56.6 | 2.92   |      |
| 75.2        | 68.9              | 73.0 | 3.59                   | 68.9 | 3.34   | 64.8 | 3.18   | 62.7 | 3.10   | 60.7 | 3.02   | 56.6 | 2.81   |      |
| 50%         | -3.6              | -4.0 | 61.0                   | 8.42 | 57.6   | 7.84 | 54.2   | 7.28 | 52.1   | 7.01 | 50.4   | 6.74 | 47.0   | 6.21 |
|             | -1.8              | -2.2 | 61.0                   | 8.24 | 57.6   | 7.68 | 54.2   | 7.14 | 52.1   | 6.86 | 50.4   | 6.60 | 47.0   | 6.09 |
|             | 1.9               | 1.4  | 61.0                   | 7.86 | 57.6   | 7.33 | 54.2   | 6.82 | 52.1   | 6.57 | 50.4   | 6.32 | 47.0   | 5.83 |
|             | 7.3               | 5.0  | 61.0                   | 7.48 | 57.6   | 6.98 | 54.2   | 6.49 | 52.1   | 6.26 | 50.4   | 6.03 | 47.0   | 5.57 |
|             | 10.8              | 8.6  | 61.0                   | 7.11 | 57.6   | 6.65 | 54.2   | 6.18 | 52.1   | 5.95 | 50.4   | 5.73 | 47.0   | 5.30 |
|             | 14.4              | 12.2 | 61.0                   | 6.73 | 57.6   | 6.29 | 54.2   | 5.86 | 52.1   | 5.65 | 50.4   | 5.44 | 47.0   | 5.04 |
|             | 14.9              | 14.0 | 61.0                   | 6.55 | 57.6   | 6.12 | 54.2   | 5.71 | 52.1   | 5.51 | 50.4   | 5.30 | 47.0   | 4.90 |
|             | 16.7              | 15.6 | 61.0                   | 6.38 | 57.6   | 5.97 | 54.2   | 5.57 | 52.1   | 5.37 | 50.4   | 5.18 | 47.0   | 4.79 |
|             | 19.4              | 18.3 | 61.0                   | 6.12 | 57.6   | 5.75 | 54.2   | 5.34 | 52.1   | 5.16 | 50.4   | 4.98 | 47.0   | 4.61 |
|             | 23.0              | 21.9 | 61.0                   | 5.77 | 57.6   | 5.41 | 54.2   | 5.06 | 52.1   | 4.88 | 50.4   | 4.71 | 47.0   | 4.36 |
|             | 26.6              | 25.3 | 61.0                   | 5.46 | 57.6   | 5.13 | 54.2   | 4.79 | 52.1   | 4.63 | 50.4   | 4.47 | 47.0   | 4.15 |
|             | 32.0              | 30.7 | 61.0                   | 5.02 | 57.6   | 4.71 | 54.2   | 4.41 | 52.1   | 4.26 | 50.4   | 4.12 | 47.0   | 3.83 |
|             | 37.4              | 36.0 | 61.0                   | 4.62 | 57.6   | 4.34 | 54.2   | 4.07 | 52.1   | 3.94 | 50.4   | 3.81 | 47.0   | 3.55 |
|             | 41.0              | 39.4 | 61.0                   | 4.38 | 57.6   | 4.12 | 54.2   | 3.86 | 52.1   | 3.74 | 50.4   | 3.62 | 47.0   | 3.37 |
|             | 44.6              | 42.8 | 61.0                   | 4.16 | 57.6   | 3.91 | 54.2   | 3.68 | 52.1   | 3.56 | 50.4   | 3.45 | 47.0   | 3.22 |
|             | 48.2              | 46.2 | 61.0                   | 3.95 | 57.6   | 3.72 | 54.2   | 3.50 | 52.1   | 3.39 | 50.4   | 3.28 | 47.0   | 3.07 |
|             | 51.8              | 49.6 | 61.0                   | 3.75 | 57.6   | 3.54 | 54.2   | 3.33 | 52.1   | 3.23 | 50.4   | 3.13 | 47.0   | 2.93 |
|             | 55.4              | 53.2 | 61.0                   | 3.57 | 57.6   | 3.36 | 54.2   | 3.17 | 52.1   | 3.08 | 50.4   | 2.98 | 47.0   | 2.79 |
|             | 59.0              | 56.7 | 61.0                   | 3.39 | 57.6   | 3.21 | 54.2   | 3.03 | 52.1   | 2.94 | 50.4   | 2.84 | 47.0   | 2.66 |
|             | 64.4              | 62.2 | 61.0                   | 3.23 | 57.6   | 3.07 | 54.2   | 2.91 | 52.1   | 2.81 | 50.4   | 2.72 | 47.0   | 2.54 |
| 68.0        | 65.3              | 61.0 | 3.08                   | 57.6 | 2.94   | 54.2 | 2.79   | 52.1 | 2.71   | 50.4 | 2.61   | 47.0 | 2.43   |      |
| 75.2        | 68.9              | 61.0 | 2.94                   | 57.6 | 2.81   | 54.2 | 2.60   | 52.1 | 2.62   | 50.4 | 2.51   | 47.0 | 2.32   |      |

GMV-Y120WM/C-F(U)

TC—Total capacity of outdoor unit; PI—Power input of outdoor unit

| Combination | Outdoor air temp. |       | Indoor air temperature |       |        |       |        |       |        |       |        |       |        |       |
|-------------|-------------------|-------|------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|             |                   |       | 61                     |       | 64     |       | 68     |       | 70     |       | 72     |       | 75     |       |
|             | °FDB              | °FWB  | TC                     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    |
|             |                   |       | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    |
| 135%        | -3.6              | -4.0  | 87.4                   | 7.42  | 87.0   | 7.94  | 86.6   | 8.47  | 86.6   | 8.73  | 86.1   | 8.99  | 86.1   | 9.52  |
|             | -1.8              | -2.2  | 88.7                   | 7.58  | 88.3   | 8.10  | 88.3   | 8.62  | 87.9   | 8.88  | 87.9   | 9.12  | 87.4   | 9.64  |
|             | 1.9               | 1.4   | 92.1                   | 7.94  | 91.7   | 8.43  | 91.3   | 8.93  | 91.3   | 9.14  | 91.3   | 9.42  | 90.9   | 9.93  |
|             | 7.3               | 5.0   | 96.0                   | 8.30  | 95.6   | 8.78  | 95.1   | 9.26  | 95.1   | 9.49  | 94.7   | 9.74  | 94.7   | 10.21 |
|             | 10.8              | 8.6   | 99.9                   | 8.67  | 99.9   | 9.14  | 99.4   | 9.59  | 99.0   | 9.82  | 99.0   | 10.05 | 98.6   | 10.50 |
|             | 14.4              | 12.2  | 104.6                  | 9.05  | 104.1  | 9.49  | 103.7  | 9.93  | 103.7  | 10.15 | 103.7  | 10.36 | 103.3  | 10.80 |
|             | 14.9              | 14.0  | 107.1                  | 9.25  | 106.7  | 9.67  | 106.3  | 10.09 | 106.3  | 10.31 | 105.9  | 10.51 | 105.9  | 10.94 |
|             | 16.7              | 15.6  | 109.3                  | 9.41  | 108.9  | 9.82  | 108.9  | 10.24 | 108.4  | 10.45 | 108.4  | 10.65 | 108.0  | 11.07 |
|             | 19.4              | 18.3  | 113.1                  | 9.68  | 113.1  | 10.09 | 112.7  | 10.49 | 112.7  | 10.69 | 112.3  | 10.88 | 111.9  | 11.29 |
|             | 23.0              | 21.9  | 119.1                  | 10.05 | 118.7  | 10.23 | 118.3  | 10.81 | 118.3  | 11.00 | 117.9  | 11.18 | 117.9  | 11.56 |
|             | 26.6              | 25.3  | 124.7                  | 10.38 | 124.3  | 10.75 | 124.3  | 11.10 | 123.9  | 11.29 | 123.9  | 11.47 | 123.4  | 11.82 |
|             | 32.0              | 30.7  | 134.6                  | 10.88 | 134.6  | 11.22 | 134.1  | 11.55 | 134.1  | 11.71 | 133.7  | 11.89 | 133.7  | 12.22 |
|             | 37.4              | 36.0  | 145.3                  | 11.33 | 144.9  | 11.65 | 144.4  | 11.96 | 144.4  | 12.11 | 144.4  | 12.27 | 144.0  | 12.57 |
|             | 41.0              | 39.4  | 152.6                  | 11.62 | 152.1  | 11.92 | 152.1  | 12.20 | 151.7  | 12.35 | 151.7  | 12.50 | 151.3  | 12.79 |
|             | 44.6              | 42.8  | 160.3                  | 11.89 | 159.9  | 12.16 | 159.9  | 12.45 | 159.4  | 11.22 | 159.4  | 12.72 | 153.0  | 12.22 |
|             | 48.2              | 46.2  | 168.4                  | 12.14 | 168.0  | 12.41 | 168.0  | 12.67 | 167.6  | 12.80 | 164.1  | 12.54 | 153.0  | 11.48 |
|             | 51.8              | 49.6  | 177.0                  | 12.38 | 176.6  | 12.63 | 175.7  | 12.79 | 169.7  | 12.29 | 164.1  | 11.78 | 153.0  | 10.81 |
|             | 55.4              | 53.2  | 186.4                  | 12.61 | 186.0  | 12.86 | 175.7  | 11.99 | 169.7  | 11.51 | 164.1  | 11.06 | 153.0  | 10.15 |
|             | 59.0              | 56.7  | 195.4                  | 12.83 | 186.9  | 12.18 | 175.7  | 11.29 | 169.7  | 10.85 | 164.1  | 10.42 | 153.0  | 9.57  |
|             | 64.4              | 62.2  | 195.4                  | 12.15 | 186.9  | 11.59 | 175.7  | 10.70 | 169.7  | 10.31 | 164.1  | 9.85  | 153.0  | 9.10  |
| 68.0        | 65.3              | 195.4 | 11.56                  | 186.9 | 11.07  | 175.7 | 10.21  | 169.7 | 9.85   | 164.1 | 9.35   | 153.0 | 8.69   |       |
| 75.2        | 68.9              | 195.4 | 11.06                  | 186.9 | 10.65  | 175.7 | 9.82   | 169.7 | 9.46   | 164.1 | 8.93   | 153.0 | 8.37   |       |
| 120%        | -3.6              | -4.0  | 87.0                   | 8.13  | 86.6   | 8.60  | 86.1   | 9.10  | 86.1   | 9.33  | 86.1   | 9.57  | 85.7   | 10.06 |
|             | -1.8              | -2.2  | 88.3                   | 8.28  | 87.9   | 8.75  | 87.9   | 9.14  | 87.4   | 9.46  | 87.4   | 9.71  | 87.0   | 10.19 |
|             | 1.9               | 1.4   | 91.7                   | 8.60  | 91.3   | 9.07  | 91.3   | 9.52  | 90.9   | 9.75  | 90.9   | 9.98  | 90.4   | 10.43 |
|             | 7.3               | 5.0   | 95.6                   | 8.95  | 95.1   | 9.38  | 94.7   | 9.82  | 94.7   | 10.05 | 94.7   | 10.27 | 94.3   | 10.70 |
|             | 10.8              | 8.6   | 99.4                   | 9.29  | 99.4   | 9.71  | 99.0   | 10.13 | 99.0   | 10.35 | 98.6   | 10.55 | 98.6   | 10.98 |
|             | 14.4              | 12.2  | 104.1                  | 9.64  | 103.7  | 10.04 | 103.7  | 10.45 | 103.3  | 10.65 | 103.3  | 10.84 | 102.9  | 11.26 |
|             | 14.9              | 14.0  | 106.7                  | 9.82  | 106.3  | 10.21 | 105.9  | 10.60 | 105.9  | 10.80 | 105.9  | 10.91 | 105.4  | 11.39 |
|             | 16.7              | 15.6  | 108.9                  | 9.97  | 108.4  | 10.35 | 108.4  | 10.73 | 108.0  | 10.92 | 108.0  | 11.13 | 107.6  | 11.51 |
|             | 19.4              | 18.3  | 112.7                  | 10.23 | 112.7  | 10.60 | 112.3  | 10.96 | 112.3  | 11.15 | 111.9  | 11.33 | 111.9  | 11.70 |
|             | 23.0              | 21.9  | 118.7                  | 10.55 | 118.3  | 10.91 | 117.9  | 11.26 | 117.9  | 11.44 | 117.9  | 11.62 | 117.4  | 11.96 |
|             | 26.6              | 25.3  | 124.3                  | 10.87 | 124.3  | 11.21 | 123.9  | 11.54 | 123.9  | 11.70 | 123.4  | 11.88 | 123.4  | 12.20 |
|             | 32.0              | 30.7  | 134.1                  | 11.33 | 134.1  | 11.65 | 133.7  | 12.10 | 133.7  | 12.11 | 133.3  | 12.26 | 133.3  | 12.57 |
|             | 37.4              | 36.0  | 144.9                  | 11.75 | 144.4  | 12.04 | 144.4  | 12.33 | 144.0  | 12.48 | 144.0  | 12.61 | 141.0  | 12.55 |
|             | 41.0              | 39.4  | 152.1                  | 12.01 | 151.7  | 12.29 | 151.7  | 12.56 | 151.3  | 12.70 | 151.3  | 12.83 | 141.0  | 11.78 |
|             | 44.6              | 42.8  | 159.9                  | 12.26 | 159.9  | 12.52 | 159.4  | 12.78 | 156.9  | 12.60 | 151.7  | 12.08 | 141.0  | 11.09 |
|             | 48.2              | 46.2  | 168.0                  | 12.50 | 167.6  | 12.75 | 162.0  | 12.33 | 156.9  | 11.84 | 151.7  | 11.36 | 141.0  | 10.43 |
|             | 51.8              | 49.6  | 176.6                  | 12.72 | 172.3  | 12.50 | 162.0  | 11.59 | 156.9  | 11.14 | 151.7  | 10.69 | 141.0  | 9.83  |
|             | 55.4              | 53.2  | 183.0                  | 12.60 | 172.3  | 11.73 | 162.0  | 10.87 | 156.9  | 10.46 | 151.7  | 10.05 | 141.0  | 9.25  |
|             | 59.0              | 56.7  | 183.0                  | 11.86 | 172.3  | 11.05 | 162.0  | 10.25 | 156.9  | 9.86  | 151.7  | 9.48  | 141.0  | 8.73  |
|             | 64.4              | 62.2  | 183.0                  | 11.21 | 172.3  | 10.46 | 162.0  | 9.74  | 156.9  | 9.34  | 151.7  | 8.97  | 141.0  | 8.28  |
| 68.0        | 65.3              | 183.0 | 10.62                  | 172.3 | 9.98   | 162.0 | 9.31   | 156.9 | 8.90   | 151.7 | 8.55   | 141.0 | 7.88   |       |
| 75.2        | 68.9              | 183.0 | 10.10                  | 172.3 | 9.57   | 162.0 | 8.97   | 156.9 | 8.54   | 151.7 | 8.21   | 141.0 | 7.55   |       |

| Combination | Outdoor air temp. |       | Indoor air temperature |       |        |       |        |       |        |       |        |       |        |       |
|-------------|-------------------|-------|------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|             |                   |       | 61                     |       | 64     |       | 68     |       | 70     |       | 72     |       | 75     |       |
|             | °FDB              | °FWB  | TC                     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    |
|             |                   |       | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    |
| 110%        | -3.6              | -4.0  | 86.6                   | 8.84  | 86.1   | 9.27  | 85.7   | 9.72  | 85.7   | 9.94  | 85.7   | 10.16 | 85.3   | 10.61 |
|             | -1.8              | -2.2  | 87.9                   | 8.97  | 87.9   | 9.41  | 87.4   | 9.85  | 87.4   | 10.06 | 87.0   | 10.28 | 87.0   | 10.72 |
|             | 1.9               | 1.4   | 91.3                   | 9.27  | 90.9   | 9.70  | 90.9   | 10.12 | 90.4   | 10.32 | 90.4   | 10.54 | 90.0   | 10.95 |
|             | 7.3               | 5.0   | 95.1                   | 9.59  | 94.7   | 10.00 | 94.3   | 10.39 | 94.3   | 10.60 | 94.3   | 10.80 | 93.9   | 11.20 |
|             | 10.8              | 8.6   | 99.0                   | 9.91  | 99.0   | 10.30 | 98.6   | 10.68 | 98.6   | 10.87 | 98.1   | 11.06 | 98.1   | 11.45 |
|             | 14.4              | 12.2  | 103.7                  | 10.23 | 103.3  | 10.60 | 103.3  | 10.96 | 102.9  | 11.15 | 102.9  | 11.33 | 102.9  | 11.70 |
|             | 14.9              | 14.0  | 106.3                  | 10.39 | 105.9  | 10.75 | 105.4  | 11.11 | 105.4  | 11.29 | 105.4  | 11.47 | 105.0  | 11.82 |
|             | 16.7              | 15.6  | 108.4                  | 10.53 | 108.0  | 10.88 | 108.0  | 11.24 | 108.0  | 11.41 | 107.6  | 11.59 | 107.6  | 11.93 |
|             | 19.4              | 18.3  | 112.3                  | 10.77 | 112.3  | 11.10 | 111.9  | 11.44 | 111.9  | 11.62 | 113.1  | 11.78 | 111.4  | 12.12 |
|             | 23.0              | 21.9  | 118.3                  | 11.07 | 117.9  | 11.40 | 117.4  | 11.71 | 117.4  | 11.88 | 123.0  | 12.04 | 117.0  | 12.37 |
|             | 26.6              | 25.3  | 123.9                  | 11.36 | 123.9  | 11.66 | 123.4  | 11.97 | 123.4  | 12.12 | 133.3  | 12.27 | 123.0  | 12.59 |
|             | 32.0              | 30.7  | 133.7                  | 11.78 | 133.7  | 12.07 | 133.3  | 12.35 | 133.3  | 12.49 | 138.9  | 12.64 | 129.4  | 12.40 |
|             | 37.4              | 36.0  | 144.4                  | 12.18 | 144.0  | 12.44 | 144.0  | 12.70 | 143.6  | 12.82 | 138.9  | 12.30 | 129.4  | 11.28 |
|             | 41.0              | 39.4  | 151.7                  | 12.41 | 151.7  | 12.67 | 148.7  | 12.55 | 143.6  | 12.04 | 138.9  | 11.56 | 129.4  | 10.61 |
|             | 44.6              | 42.8  | 159.4                  | 12.64 | 158.1  | 12.72 | 148.7  | 11.78 | 143.6  | 11.32 | 138.9  | 10.87 | 129.4  | 9.98  |
|             | 48.2              | 46.2  | 167.6                  | 12.85 | 158.1  | 11.96 | 148.7  | 11.09 | 143.6  | 10.65 | 138.9  | 10.23 | 129.4  | 9.41  |
|             | 51.8              | 49.6  | 167.6                  | 12.08 | 158.1  | 11.25 | 148.7  | 10.43 | 143.6  | 10.04 | 138.9  | 9.64  | 129.4  | 8.88  |
|             | 55.4              | 53.2  | 167.6                  | 11.33 | 158.1  | 10.55 | 148.7  | 9.80  | 143.6  | 9.44  | 138.9  | 9.07  | 129.4  | 8.36  |
|             | 59.0              | 56.7  | 167.6                  | 10.68 | 158.1  | 9.95  | 148.7  | 9.26  | 143.6  | 8.90  | 138.9  | 8.58  | 129.4  | 7.91  |
| 64.4        | 62.2              | 167.6 | 10.10                  | 158.1 | 9.44   | 148.7 | 8.44   | 143.6 | 8.44   | 138.9 | 8.17   | 129.4 | 7.53   |       |
| 68.0        | 65.3              | 167.6 | 9.59                   | 158.1 | 8.97   | 148.7 | 8.00   | 143.6 | 8.03   | 138.9 | 7.83   | 129.4 | 7.20   |       |
| 75.2        | 68.9              | 167.6 | 9.15                   | 158.1 | 8.56   | 148.7 | 7.62   | 143.6 | 7.69   | 138.9 | 7.54   | 129.4 | 6.93   |       |
| 100%        | -3.6              | -4.0  | 86.1                   | 9.55  | 85.7   | 9.94  | 85.7   | 10.35 | 85.3   | 10.55 | 85.3   | 10.75 | 84.9   | 11.15 |
|             | -1.8              | -2.2  | 87.4                   | 9.67  | 87.4   | 10.06 | 87.0   | 10.46 | 87.0   | 10.66 | 86.6   | 10.87 | 86.6   | 11.26 |
|             | 1.9               | 1.4   | 90.9                   | 9.94  | 90.4   | 10.32 | 90.4   | 10.70 | 90.4   | 10.90 | 90.0   | 11.09 | 90.0   | 11.47 |
|             | 7.3               | 5.0   | 94.7                   | 10.23 | 94.3   | 10.60 | 94.3   | 10.96 | 93.9   | 11.15 | 93.9   | 11.33 | 93.4   | 11.70 |
|             | 10.8              | 8.6   | 98.6                   | 10.53 | 98.6   | 10.87 | 98.1   | 11.22 | 98.1   | 11.40 | 98.1   | 11.17 | 97.7   | 11.93 |
|             | 14.4              | 12.2  | 103.3                  | 10.81 | 102.9  | 11.15 | 102.9  | 11.48 | 102.9  | 11.66 | 102.4  | 11.82 | 102.4  | 12.15 |
|             | 14.9              | 14.0  | 105.9                  | 10.96 | 105.4  | 11.29 | 105.4  | 11.62 | 105.0  | 11.78 | 105.0  | 11.95 | 104.6  | 12.27 |
|             | 16.7              | 15.6  | 108.0                  | 11.09 | 108.0  | 11.41 | 107.6  | 11.73 | 107.6  | 11.89 | 107.1  | 12.05 | 107.1  | 12.37 |
|             | 19.4              | 18.3  | 111.9                  | 11.30 | 111.9  | 11.62 | 111.4  | 11.92 | 111.4  | 12.08 | 111.4  | 12.23 | 111.0  | 12.55 |
|             | 23.0              | 21.9  | 117.9                  | 11.59 | 117.4  | 11.88 | 117.4  | 12.18 | 117.0  | 12.33 | 117.0  | 12.46 | 117.0  | 12.76 |
|             | 26.6              | 25.3  | 123.4                  | 11.85 | 123.4  | 12.12 | 123.0  | 12.41 | 123.0  | 12.55 | 123.0  | 12.68 | 117.9  | 12.15 |
|             | 32.0              | 30.7  | 133.3                  | 12.25 | 133.3  | 12.49 | 132.9  | 12.75 | 130.7  | 12.55 | 126.4  | 12.03 | 117.9  | 11.05 |
|             | 37.4              | 36.0  | 144.0                  | 12.59 | 143.6  | 12.82 | 135.0  | 11.86 | 130.7  | 11.40 | 126.4  | 10.95 | 117.9  | 10.05 |
|             | 41.0              | 39.4  | 151.3                  | 12.82 | 143.6  | 12.04 | 135.0  | 11.15 | 130.7  | 10.73 | 126.4  | 10.31 | 117.9  | 9.48  |
|             | 44.6              | 42.8  | 152.1                  | 12.16 | 143.6  | 11.32 | 135.0  | 10.50 | 130.7  | 10.10 | 126.4  | 9.71  | 117.9  | 8.93  |
|             | 48.2              | 46.2  | 152.1                  | 11.43 | 143.6  | 10.65 | 135.0  | 9.89  | 130.7  | 9.52  | 126.4  | 9.15  | 117.9  | 8.43  |
|             | 51.8              | 49.6  | 152.1                  | 10.76 | 143.6  | 10.04 | 135.0  | 9.33  | 130.7  | 8.97  | 126.4  | 8.63  | 117.9  | 7.96  |
|             | 55.4              | 53.2  | 152.1                  | 10.10 | 143.6  | 9.44  | 135.0  | 8.78  | 130.7  | 8.45  | 126.4  | 8.14  | 117.9  | 7.51  |
|             | 59.0              | 56.7  | 152.1                  | 9.53  | 143.6  | 8.90  | 135.0  | 8.29  | 130.7  | 7.99  | 126.4  | 7.69  | 117.9  | 7.12  |
| 64.4        | 62.2              | 152.1 | 8.99                   | 143.6 | 8.50   | 135.0 | 8.02   | 130.7 | 7.58   | 126.4 | 7.28   | 117.9 | 6.78   |       |
| 68.0        | 65.3              | 152.1 | 8.48                   | 143.6 | 8.15   | 135.0 | 7.69   | 130.7 | 7.24   | 126.4 | 6.94   | 117.9 | 6.50   |       |
| 75.2        | 68.9              | 152.1 | 8.02                   | 143.6 | 7.88   | 135.0 | 7.39   | 130.7 | 6.97   | 126.4 | 6.67   | 117.9 | 6.30   |       |



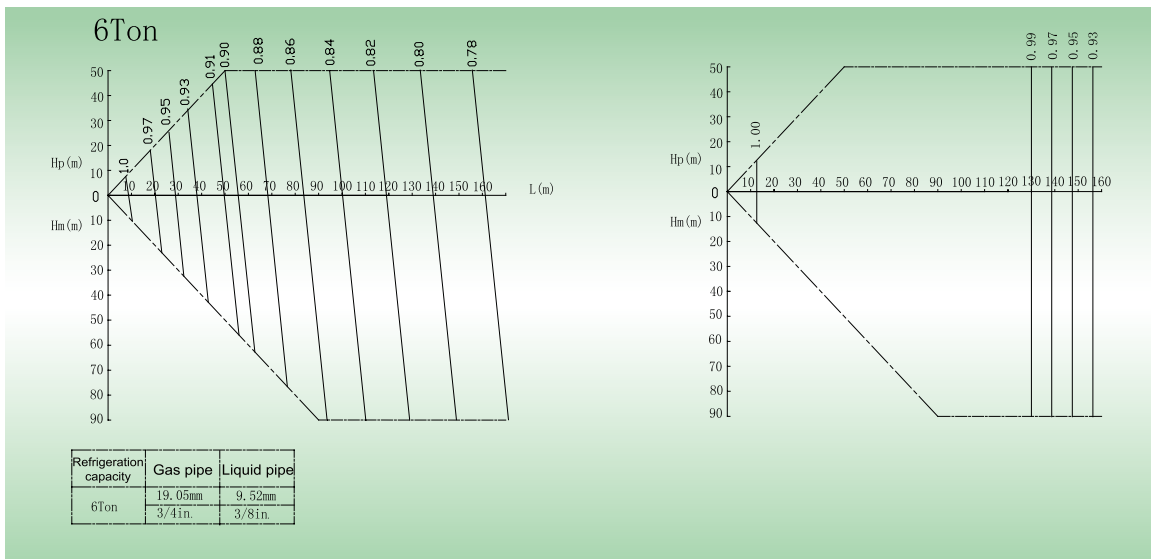
# GMV5 DC Inverter VRF Units Technical Sales Guide

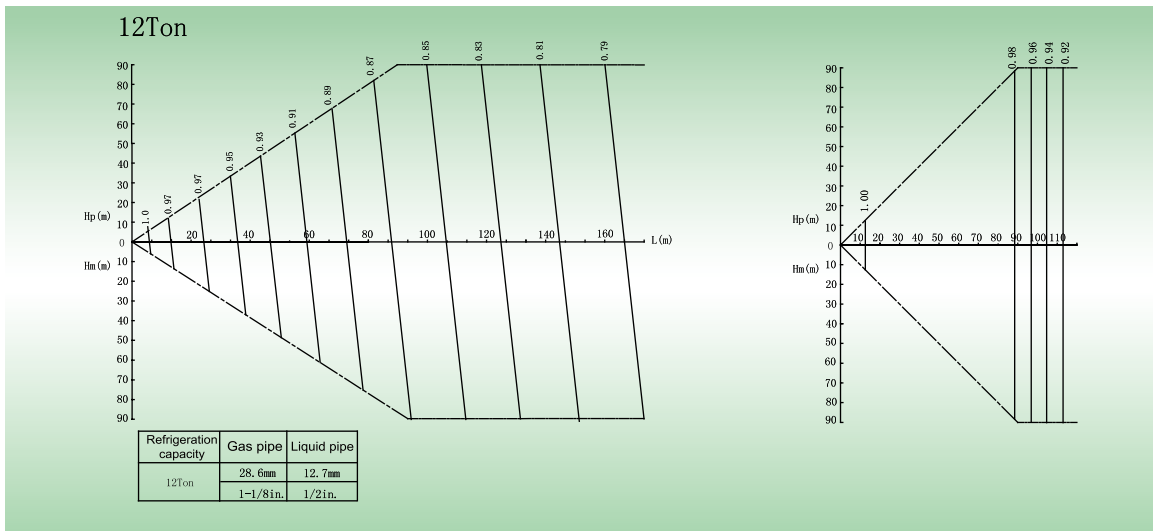
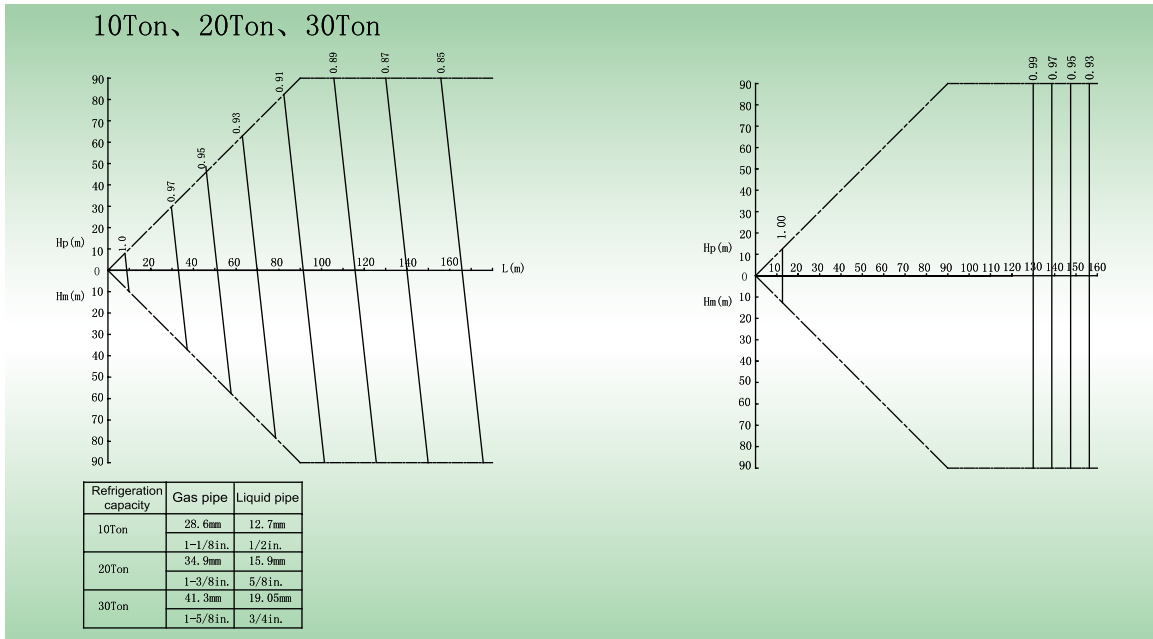
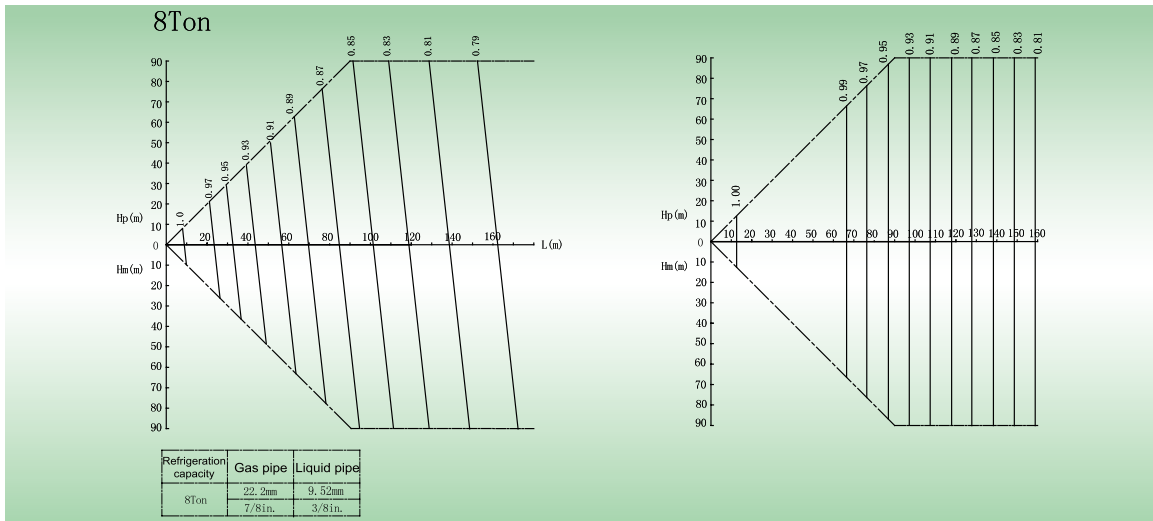
| Combination | Outdoor air temp. |       | Indoor air temperature |       |        |       |        |       |        |       |        |       |        |       |
|-------------|-------------------|-------|------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|             |                   |       | 61                     |       | 64     |       | 68     |       | 70     |       | 72     |       | 75     |       |
|             | °FDB              | °FWB  | TC                     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    | TC     | PI    |
|             |                   |       | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW    |
| 90%         | -3.6              | -4.0  | 85.7                   | 10.25 | 85.3   | 10.61 | 85.3   | 10.98 | 84.9   | 11.15 | 84.9   | 11.35 | 84.9   | 11.70 |
|             | -1.8              | -2.2  | 87.0                   | 10.36 | 87.0   | 10.73 | 86.6   | 11.09 | 86.6   | 11.26 | 86.6   | 11.44 | 86.1   | 11.80 |
|             | 1.9               | 1.4   | 90.4                   | 10.62 | 90.0   | 10.96 | 90.0   | 11.30 | 90.0   | 11.48 | 89.6   | 11.65 | 89.6   | 11.99 |
|             | 7.3               | 5.0   | 94.3                   | 10.88 | 93.9   | 11.21 | 93.9   | 11.54 | 93.4   | 11.59 | 93.4   | 11.86 | 93.4   | 12.19 |
|             | 10.8              | 8.6   | 98.1                   | 11.14 | 98.1   | 11.45 | 97.7   | 11.77 | 97.7   | 11.93 | 97.7   | 12.08 | 97.3   | 12.40 |
|             | 14.4              | 12.2  | 102.9                  | 11.40 | 102.9  | 11.70 | 102.4  | 12.00 | 102.4  | 12.16 | 102.4  | 12.31 | 102.0  | 12.61 |
|             | 14.9              | 14.0  | 105.4                  | 11.54 | 105.0  | 11.84 | 105.0  | 12.12 | 104.6  | 12.27 | 104.6  | 12.42 | 104.6  | 12.71 |
|             | 16.7              | 15.6  | 107.6                  | 11.66 | 107.6  | 11.95 | 107.1  | 12.23 | 107.1  | 12.37 | 107.1  | 12.52 | 105.9  | 12.64 |
|             | 19.4              | 18.3  | 111.4                  | 11.85 | 111.4  | 12.12 | 111.0  | 12.41 | 111.0  | 12.55 | 111.0  | 12.68 | 105.9  | 12.07 |
|             | 23.0              | 21.9  | 117.4                  | 12.11 | 117.0  | 12.37 | 117.0  | 12.63 | 117.0  | 12.76 | 113.6  | 12.37 | 105.9  | 11.35 |
|             | 26.6              | 25.3  | 123.0                  | 12.34 | 123.0  | 11.22 | 121.7  | 12.64 | 117.4  | 12.14 | 113.6  | 11.65 | 105.9  | 10.69 |
|             | 32.0              | 30.7  | 133.3                  | 12.70 | 129.4  | 11.02 | 121.7  | 11.47 | 117.4  | 11.02 | 113.6  | 10.58 | 105.9  | 9.72  |
|             | 37.4              | 36.0  | 137.1                  | 12.10 | 129.4  | 11.26 | 121.7  | 10.45 | 117.4  | 10.05 | 113.6  | 9.65  | 105.9  | 8.89  |
|             | 41.0              | 39.4  | 137.1                  | 11.37 | 129.4  | 10.60 | 121.7  | 9.85  | 117.4  | 9.46  | 113.6  | 9.11  | 105.9  | 8.39  |
|             | 44.6              | 42.8  | 137.1                  | 10.69 | 129.4  | 9.98  | 121.7  | 9.27  | 117.4  | 8.93  | 113.6  | 8.59  | 105.9  | 7.92  |
|             | 48.2              | 46.2  | 137.1                  | 10.08 | 129.4  | 9.40  | 121.7  | 8.74  | 117.4  | 8.43  | 113.6  | 8.11  | 105.9  | 7.49  |
|             | 51.8              | 49.6  | 137.1                  | 9.49  | 129.4  | 8.86  | 121.7  | 8.26  | 117.4  | 7.96  | 113.6  | 7.66  | 105.9  | 7.09  |
|             | 55.4              | 53.2  | 137.1                  | 8.93  | 129.4  | 8.36  | 121.7  | 7.79  | 117.4  | 7.51  | 113.6  | 7.24  | 105.9  | 6.70  |
| 59.0        | 56.7              | 137.1 | 8.44                   | 129.4 | 7.90   | 121.7 | 7.38   | 117.4 | 7.09   | 113.6 | 6.86   | 105.9 | 6.35   |       |
| 64.4        | 62.2              | 137.1 | 7.98                   | 129.4 | 7.46   | 121.7 | 7.00   | 117.4 | 6.70   | 113.6 | 6.50   | 105.9 | 6.04   |       |
| 68.0        | 65.3              | 137.1 | 7.54                   | 129.4 | 7.05   | 121.7 | 6.64   | 117.4 | 6.31   | 113.6 | 6.18   | 105.9 | 5.77   |       |
| 75.2        | 68.9              | 137.1 | 7.12                   | 129.4 | 6.65   | 121.7 | 6.30   | 117.4 | 5.96   | 113.6 | 5.86   | 105.9 | 5.51   |       |
| 80%         | -3.6              | -4.0  | 85.3                   | 10.96 | 84.9   | 11.28 | 84.9   | 11.60 | 84.9   | 11.77 | 84.4   | 11.93 | 84.4   | 12.25 |
|             | -1.8              | -2.2  | 86.6                   | 11.06 | 86.6   | 11.39 | 86.1   | 11.70 | 86.1   | 11.86 | 86.1   | 12.01 | 85.7   | 12.34 |
|             | 1.9               | 1.4   | 90.0                   | 11.29 | 89.6   | 11.59 | 89.6   | 11.90 | 89.6   | 12.05 | 89.6   | 12.20 | 89.1   | 12.50 |
|             | 7.3               | 5.0   | 93.9                   | 11.52 | 93.4   | 11.81 | 93.4   | 12.11 | 93.4   | 12.25 | 93.0   | 12.40 | 93.0   | 12.70 |
|             | 10.8              | 8.6   | 97.7                   | 11.75 | 97.7   | 12.04 | 97.3   | 12.31 | 97.3   | 12.45 | 97.3   | 12.60 | 94.3   | 12.26 |
|             | 14.4              | 12.2  | 102.4                  | 11.99 | 102.4  | 12.26 | 102.0  | 12.53 | 102.0  | 12.65 | 101.1  | 12.63 | 94.3   | 11.58 |
|             | 14.9              | 14.0  | 105.0                  | 12.11 | 104.6  | 12.37 | 104.6  | 12.63 | 104.6  | 12.76 | 101.1  | 12.26 | 94.3   | 11.24 |
|             | 16.7              | 15.6  | 107.1                  | 12.22 | 107.1  | 12.48 | 106.7  | 12.72 | 104.6  | 12.45 | 101.1  | 11.93 | 94.3   | 10.94 |
|             | 19.4              | 18.3  | 111.0                  | 12.40 | 111.0  | 12.64 | 108.0  | 12.37 | 104.6  | 11.88 | 101.1  | 11.40 | 94.3   | 10.50 |
|             | 23.0              | 21.9  | 117.0                  | 11.25 | 114.9  | 12.55 | 108.0  | 11.62 | 104.6  | 11.17 | 101.1  | 10.72 | 94.3   | 9.85  |
|             | 26.6              | 25.3  | 121.7                  | 11.32 | 114.9  | 11.81 | 108.0  | 10.94 | 104.6  | 10.57 | 101.1  | 10.10 | 94.3   | 9.30  |
|             | 32.0              | 30.7  | 121.7                  | 11.51 | 114.9  | 10.72 | 108.0  | 9.95  | 104.6  | 9.59  | 101.1  | 9.20  | 94.3   | 8.48  |
|             | 37.4              | 36.0  | 121.7                  | 10.49 | 114.9  | 9.78  | 108.0  | 9.10  | 104.6  | 8.75  | 101.1  | 8.43  | 94.3   | 7.77  |
|             | 41.0              | 39.4  | 121.7                  | 9.87  | 114.9  | 9.22  | 108.0  | 8.58  | 104.6  | 8.26  | 101.1  | 7.96  | 94.3   | 7.35  |
|             | 44.6              | 42.8  | 121.7                  | 9.30  | 114.9  | 8.71  | 108.0  | 8.10  | 104.6  | 7.81  | 101.1  | 7.53  | 94.3   | 6.95  |
|             | 48.2              | 46.2  | 121.7                  | 8.78  | 114.9  | 8.21  | 108.0  | 7.69  | 104.6  | 7.38  | 101.1  | 7.12  | 94.3   | 6.59  |
|             | 51.8              | 49.6  | 121.7                  | 8.29  | 114.9  | 7.76  | 108.0  | 7.24  | 104.6  | 6.98  | 101.1  | 6.74  | 94.3   | 6.25  |
|             | 55.4              | 53.2  | 121.7                  | 7.81  | 114.9  | 7.32  | 108.0  | 6.85  | 104.6  | 6.60  | 101.1  | 6.37  | 94.3   | 5.90  |
| 59.0        | 56.7              | 121.7 | 7.39                   | 114.9 | 6.94   | 108.0 | 6.49   | 104.6 | 6.26   | 101.1 | 6.04   | 94.3  | 5.62   |       |
| 64.4        | 62.2              | 121.7 | 7.05                   | 114.9 | 6.60   | 108.0 | 6.18   | 104.6 | 5.95   | 101.1 | 5.73   | 94.3  | 5.36   |       |
| 68.0        | 65.3              | 121.7 | 6.78                   | 114.9 | 6.33   | 108.0 | 5.90   | 104.6 | 5.67   | 101.1 | 5.45   | 94.3  | 5.11   |       |
| 75.2        | 68.9              | 121.7 | 6.57                   | 114.9 | 6.12   | 108.0 | 5.66   | 104.6 | 5.43   | 101.1 | 5.21   | 94.3  | 4.90   |       |

| Combination | Outdoor air temp. |       | Indoor air temperature |       |        |       |        |       |        |        |        |       |        |       |
|-------------|-------------------|-------|------------------------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|-------|
|             |                   |       | 61                     |       | 64     |       | 68     |       | 70     |        | 72     |       | 75     |       |
|             | °FDB              | °FWB  | TC                     | PI    | TC     | PI    | TC     | PI    | TC     | PI     | TC     | PI    | TC     | PI    |
|             |                   |       | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW    | KBtu/h | kW     | KBtu/h | kW    | KBtu/h | kW    |
| 70%         | -3.6              | -4.0  | 84.9                   | 11.67 | 84.4   | 11.95 | 84.4   | 12.23 | 84.4   | 12.37  | 84.4   | 12.52 | 82.3   | 12.38 |
|             | -1.8              | -2.2  | 86.1                   | 11.77 | 86.1   | 12.04 | 85.7   | 12.31 | 85.7   | 12.45  | 85.7   | 12.60 | 82.3   | 12.12 |
|             | 1.9               | 1.4   | 89.6                   | 11.96 | 89.6   | 12.23 | 89.1   | 12.49 | 89.1   | 12.63  | 88.3   | 12.61 | 82.3   | 11.56 |
|             | 7.3               | 5.0   | 93.4                   | 12.16 | 93.0   | 12.42 | 93.0   | 12.68 | 91.3   | 121.58 | 88.3   | 11.99 | 82.3   | 10.99 |
|             | 10.8              | 8.6   | 97.3                   | 12.37 | 97.3   | 12.61 | 94.7   | 12.31 | 91.3   | 11.84  | 88.3   | 11.36 | 82.3   | 10.42 |
|             | 14.4              | 12.2  | 102.0                  | 12.57 | 100.7  | 12.56 | 94.7   | 11.63 | 91.3   | 11.18  | 88.3   | 10.73 | 82.3   | 9.86  |
|             | 14.9              | 14.0  | 104.6                  | 12.68 | 100.7  | 12.19 | 94.7   | 11.29 | 91.3   | 10.85  | 88.3   | 10.43 | 82.3   | 9.59  |
|             | 16.7              | 15.6  | 106.7                  | 12.75 | 100.7  | 11.86 | 94.7   | 10.99 | 91.3   | 10.57  | 88.3   | 10.16 | 82.3   | 9.34  |
|             | 19.4              | 18.3  | 106.7                  | 12.18 | 100.7  | 11.33 | 94.7   | 10.51 | 91.3   | 10.12  | 88.3   | 9.72  | 82.3   | 8.95  |
|             | 23.0              | 21.9  | 106.7                  | 11.44 | 100.7  | 10.66 | 94.7   | 9.90  | 91.3   | 9.52   | 88.3   | 9.15  | 82.3   | 8.44  |
|             | 26.6              | 25.3  | 106.7                  | 10.77 | 100.7  | 10.05 | 94.7   | 9.34  | 91.3   | 8.99   | 88.3   | 8.65  | 82.3   | 7.98  |
|             | 32.0              | 30.7  | 106.7                  | 9.80  | 100.7  | 9.20  | 94.7   | 8.52  | 91.3   | 8.21   | 88.3   | 7.91  | 82.3   | 7.31  |
|             | 37.4              | 36.0  | 106.7                  | 8.96  | 100.7  | 0.20  | 94.7   | 7.81  | 91.3   | 7.53   | 88.3   | 7.25  | 82.3   | 6.71  |
|             | 41.0              | 39.4  | 106.7                  | 8.45  | 100.7  | 7.91  | 94.7   | 7.39  | 91.3   | 7.12   | 88.3   | 6.87  | 82.3   | 6.35  |
|             | 44.6              | 42.8  | 106.7                  | 7.99  | 100.7  | 7.49  | 94.7   | 6.98  | 91.3   | 6.74   | 88.3   | 6.50  | 82.3   | 6.03  |
|             | 48.2              | 46.2  | 106.7                  | 7.55  | 100.7  | 7.08  | 94.7   | 6.61  | 91.3   | 6.38   | 88.3   | 6.16  | 82.3   | 5.71  |
|             | 51.8              | 49.6  | 106.7                  | 7.15  | 100.7  | 6.70  | 94.7   | 6.27  | 91.3   | 6.05   | 88.3   | 5.85  | 82.3   | 5.43  |
|             | 55.4              | 53.2  | 106.7                  | 6.75  | 100.7  | 6.34  | 94.7   | 5.93  | 91.3   | 5.74   | 88.3   | 5.54  | 82.3   | 5.15  |
| 59.0        | 56.7              | 106.7 | 6.40                   | 100.7 | 6.01   | 94.7  | 5.63   | 91.3  | 5.45   | 88.3   | 5.26   | 82.3  | 4.91   |       |
| 64.4        | 62.2              | 106.7 | 6.07                   | 100.7 | 5.71   | 94.7  | 5.36   | 91.3  | 5.20   | 88.3   | 5.02   | 82.3  | 4.69   |       |
| 68.0        | 65.3              | 106.7 | 5.78                   | 100.7 | 5.44   | 94.7  | 5.11   | 91.3  | 4.96   | 88.3   | 4.80   | 82.3  | 4.50   |       |
| 75.2        | 68.9              | 106.7 | 5.52                   | 100.7 | 5.20   | 94.7  | 4.91   | 91.3  | 4.76   | 88.3   | 4.62   | 82.3  | 4.34   |       |
| 60%         | -3.6              | -4.0  | 84.4                   | 12.38 | 84.0   | 12.61 | 81.0   | 12.14 | 78.4   | 11.66  | 75.9   | 11.20 | 70.7   | 10.27 |
|             | -1.8              | -2.2  | 85.7                   | 12.46 | 85.7   | 12.70 | 81.0   | 11.88 | 78.4   | 11.41  | 75.9   | 10.95 | 70.7   | 10.05 |
|             | 1.9               | 1.4   | 89.1                   | 12.63 | 86.1   | 12.23 | 81.0   | 11.33 | 78.4   | 10.90  | 75.9   | 10.46 | 70.7   | 9.61  |
|             | 7.3               | 5.0   | 91.3                   | 12.49 | 86.1   | 11.62 | 81.0   | 10.77 | 78.4   | 10.36  | 75.9   | 9.95  | 70.7   | 9.15  |
|             | 10.8              | 8.6   | 91.3                   | 11.82 | 86.1   | 11.00 | 81.0   | 10.21 | 78.4   | 9.83   | 75.9   | 9.45  | 70.7   | 8.70  |
|             | 14.4              | 12.2  | 91.3                   | 11.17 | 86.1   | 10.40 | 81.0   | 9.67  | 78.4   | 9.30   | 75.9   | 8.95  | 70.7   | 8.25  |
|             | 14.9              | 14.0  | 91.3                   | 10.85 | 86.1   | 10.12 | 81.0   | 9.40  | 78.4   | 9.05   | 75.9   | 8.70  | 70.7   | 8.02  |
|             | 16.7              | 15.6  | 91.3                   | 10.57 | 86.1   | 9.86  | 81.0   | 9.16  | 78.4   | 8.82   | 75.9   | 8.48  | 70.7   | 7.83  |
|             | 19.4              | 18.3  | 91.3                   | 10.10 | 86.1   | 9.44  | 81.0   | 8.77  | 78.4   | 8.45   | 75.9   | 8.13  | 70.7   | 7.51  |
|             | 23.0              | 21.9  | 91.3                   | 9.52  | 86.1   | 8.89  | 81.0   | 8.28  | 78.4   | 7.98   | 75.9   | 7.68  | 70.7   | 7.10  |
|             | 26.6              | 25.3  | 91.3                   | 8.99  | 86.1   | 8.40  | 81.0   | 7.85  | 78.4   | 7.55   | 75.9   | 7.27  | 70.7   | 6.72  |
|             | 32.0              | 30.7  | 91.3                   | 8.21  | 86.1   | 7.69  | 81.0   | 7.17  | 78.4   | 6.93   | 75.9   | 6.67  | 70.7   | 6.18  |
|             | 37.4              | 36.0  | 91.3                   | 7.53  | 86.1   | 7.06  | 81.0   | 6.60  | 78.4   | 6.37   | 75.9   | 6.15  | 70.7   | 0.25  |
|             | 41.0              | 39.4  | 91.3                   | 7.12  | 86.1   | 6.68  | 81.0   | 6.25  | 78.4   | 6.04   | 75.9   | 5.82  | 70.7   | 5.41  |
|             | 44.6              | 42.8  | 91.3                   | 6.74  | 86.1   | 6.33  | 81.0   | 5.92  | 78.4   | 5.73   | 75.9   | 5.54  | 70.7   | 5.14  |
|             | 48.2              | 46.2  | 91.3                   | 6.38  | 86.1   | 6.00  | 81.0   | 5.62  | 78.4   | 5.44   | 75.9   | 5.25  | 70.7   | 4.90  |
|             | 51.8              | 49.6  | 91.3                   | 6.05  | 86.1   | 5.70  | 81.0   | 5.35  | 78.4   | 5.17   | 75.9   | 4.99  | 70.7   | 4.66  |
|             | 55.4              | 53.2  | 91.3                   | 5.73  | 86.1   | 5.40  | 81.0   | 5.07  | 78.4   | 4.91   | 75.9   | 4.75  | 70.7   | 4.43  |
| 59.0        | 56.7              | 91.3  | 5.45                   | 86.1  | 5.13   | 81.0  | 4.83   | 78.4  | 4.68   | 75.9   | 4.53   | 70.7  | 4.23   |       |
| 64.4        | 62.2              | 91.3  | 5.21                   | 86.1  | 4.88   | 81.0  | 4.61   | 78.4  | 4.47   | 75.9   | 4.34   | 70.7  | 4.05   |       |
| 68.0        | 65.3              | 91.3  | 4.99                   | 86.1  | 4.66   | 81.0  | 4.42   | 78.4  | 4.30   | 75.9   | 4.17   | 70.7  | 3.90   |       |
| 75.2        | 68.9              | 91.3  | 4.80                   | 86.1  | 4.47   | 81.0  | 4.25   | 78.4  | 4.15   | 75.9   | 4.04   | 70.7  | 3.76   |       |

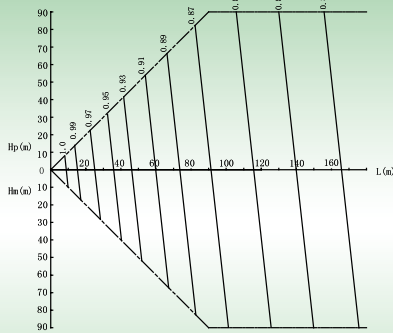
| Combination | Outdoor air temp. |      | Indoor air temperature |       |        |       |        |      |        |      |        |      |        |      |
|-------------|-------------------|------|------------------------|-------|--------|-------|--------|------|--------|------|--------|------|--------|------|
|             |                   |      | 61                     |       | 64     |       | 68     |      | 70     |      | 72     |      | 75     |      |
|             | °FDB              | °FWB | TC                     | PI    | TC     | PI    | TC     | PI   | TC     | PI   | TC     | PI   | TC     | PI   |
|             |                   |      | KBtu/h                 | kW    | KBtu/h | kW    | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   | KBtu/h | kW   |
| 50%         | -3.6              | -4.0 | 76.3                   | 11.26 | 72.0   | 10.49 | 67.7   | 9.74 | 65.1   | 9.38 | 63.0   | 9.01 | 58.7   | 8.30 |
|             | -1.8              | -2.2 | 76.3                   | 11.02 | 72.0   | 10.27 | 67.7   | 9.55 | 65.1   | 9.18 | 63.0   | 8.82 | 58.7   | 8.14 |
|             | 1.9               | 1.4  | 76.3                   | 10.51 | 72.0   | 9.80  | 67.7   | 9.12 | 65.1   | 8.78 | 63.0   | 8.45 | 58.7   | 7.80 |
|             | 7.3               | 5.0  | 76.3                   | 10.01 | 72.0   | 9.34  | 67.7   | 8.69 | 65.1   | 8.37 | 63.0   | 8.06 | 58.7   | 7.45 |
|             | 10.8              | 8.6  | 76.3                   | 9.50  | 72.0   | 8.89  | 67.7   | 8.26 | 65.1   | 7.96 | 63.0   | 7.66 | 58.7   | 7.09 |
|             | 14.4              | 12.2 | 76.3                   | 9.00  | 72.0   | 8.41  | 67.7   | 7.84 | 65.1   | 7.55 | 63.0   | 7.28 | 58.7   | 6.74 |
|             | 14.9              | 14.0 | 76.3                   | 8.75  | 72.0   | 8.18  | 67.7   | 7.64 | 65.1   | 7.36 | 63.0   | 7.09 | 58.7   | 6.56 |
|             | 16.7              | 15.6 | 76.3                   | 8.54  | 72.0   | 7.99  | 67.7   | 7.45 | 65.1   | 7.19 | 63.0   | 6.93 | 58.7   | 6.41 |
|             | 19.4              | 18.3 | 76.3                   | 8.18  | 72.0   | 7.69  | 67.7   | 7.15 | 65.1   | 6.90 | 63.0   | 6.65 | 58.7   | 6.16 |
|             | 23.0              | 21.9 | 76.3                   | 7.72  | 72.0   | 7.24  | 67.7   | 6.76 | 65.1   | 6.53 | 63.0   | 6.30 | 58.7   | 5.84 |
|             | 26.6              | 25.3 | 76.3                   | 7.31  | 72.0   | 6.86  | 67.7   | 6.41 | 65.1   | 6.19 | 63.0   | 5.97 | 58.7   | 5.55 |
|             | 32.0              | 30.7 | 76.3                   | 6.71  | 72.0   | 6.30  | 67.7   | 5.90 | 65.1   | 5.70 | 63.0   | 5.51 | 58.7   | 5.13 |
|             | 37.4              | 36.0 | 76.3                   | 6.18  | 72.0   | 5.81  | 67.7   | 5.44 | 65.1   | 5.26 | 63.0   | 5.10 | 58.7   | 4.75 |
|             | 41.0              | 39.4 | 76.3                   | 5.86  | 72.0   | 5.51  | 67.7   | 5.17 | 65.1   | 5.00 | 63.0   | 4.84 | 58.7   | 4.51 |
|             | 44.6              | 42.8 | 76.3                   | 5.56  | 72.0   | 5.24  | 67.7   | 4.92 | 65.1   | 4.76 | 63.0   | 4.61 | 58.7   | 4.31 |
|             | 48.2              | 46.2 | 76.3                   | 5.28  | 72.0   | 4.98  | 67.7   | 4.68 | 65.1   | 4.54 | 63.0   | 4.39 | 58.7   | 4.10 |
|             | 51.8              | 49.6 | 76.3                   | 5.02  | 72.0   | 4.73  | 67.7   | 4.46 | 65.1   | 4.32 | 63.0   | 4.19 | 58.7   | 3.91 |
|             | 55.4              | 53.2 | 76.3                   | 4.77  | 72.0   | 4.50  | 67.7   | 4.24 | 65.1   | 4.12 | 63.0   | 3.98 | 58.7   | 3.74 |
| 59.0        | 56.7              | 76.3 | 4.54                   | 72.0  | 4.30   | 67.7  | 4.05   | 65.1 | 3.93   | 63.0 | 3.80   | 58.7 | 3.56   |      |
| 64.4        | 62.2              | 76.3 | 4.32                   | 72.0  | 4.10   | 67.7  | 3.89   | 65.1 | 3.76   | 63.0 | 3.64   | 58.7 | 3.40   |      |
| 68.0        | 65.3              | 76.3 | 4.12                   | 72.0  | 3.93   | 67.7  | 3.74   | 65.1 | 3.63   | 63.0 | 3.49   | 58.7 | 3.25   |      |
| 75.2        | 68.9              | 76.3 | 3.93                   | 72.0  | 3.76   | 67.7  | 3.48   | 65.1 | 3.50   | 63.0 | 3.35   | 58.7 | 3.11   |      |

## 6.2 Correction of Capacity Along with Piping Length and Height Drop

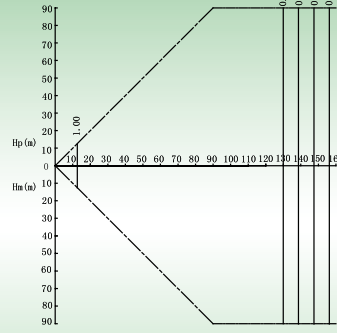




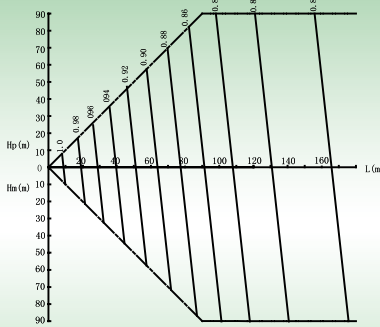
## 14Ton, 22Ton, 24Ton



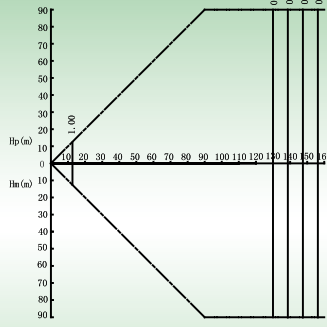
| Refrigeration capacity | Gas pipe | Liquid pipe |
|------------------------|----------|-------------|
| 14Ton                  | 28.6mm   | 15.9mm      |
|                        | 1-1/8in. | 5/8in.      |
| 22Ton                  | 34.9mm   | 19.05mm     |
|                        | 1-3/8in. | 3/4in.      |
| 24Ton                  | 34.9mm   | 19.05mm     |
|                        | 1-3/8in. | 3/4in.      |



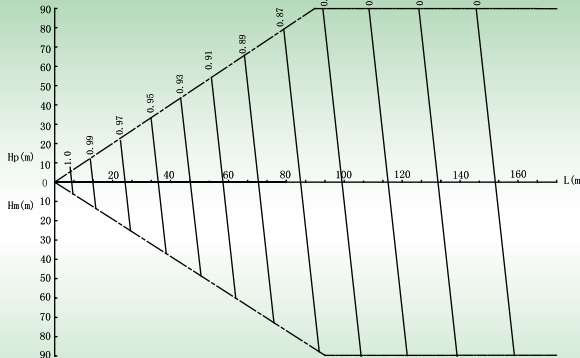
## 16Ton, 26Ton, 28Ton



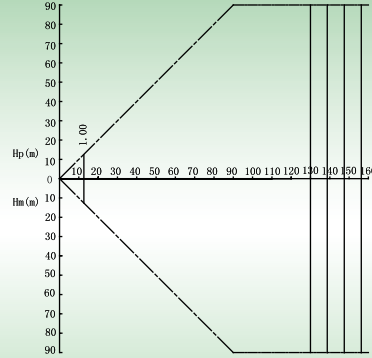
| Refrigeration capacity | Gas pipe | Liquid pipe |
|------------------------|----------|-------------|
| 16Ton                  | 28.6mm   | 15.9mm      |
|                        | 1-1/8in. | 5/8in.      |
| 26Ton                  | 34.9mm   | 19.05mm     |
|                        | 1-3/8in. | 3/4in.      |
| 28Ton                  | 34.9mm   | 19.05mm     |
|                        | 1-3/8in. | 3/4in.      |



## 18Ton



| Refrigeration capacity | Gas pipe | Liquid pipe |
|------------------------|----------|-------------|
| 18Ton                  | 28.6mm   | 15.9mm      |
|                        | 1-1/8in. | 5/8in.      |



**Notes for correction of the long connection pipe:**

- a. The above connection of long connection pipe indicates the maximum capacity under the standard indoor unit capacity configuration.
- b. Set out below are some load configurations:  
 Maximum system capacity: the smaller one of the indoor unit capacity and the maximum outdoor unit capacity (two algorithms are provided below)
  - ◆ When the configuration ratio of indoor unit is less than 100%  
 Maximum outdoor unit capacity = Capacity when the configuration ratio is 100% in the outdoor unit capacity correction table × Long connection pipe correction coefficient of the longest indoor unit distance
  - ◆ When the configuration ratio of indoor unit reaches 100%  
 Maximum outdoor unit capacity = Capacity of the corresponding configuration ratio in the outdoor unit capacity correction table × Long connection pipe correction coefficient of the longest indoor unit distance

**6.3 Frosting Correction Factors of Heating**

When the outdoor environment meets certain conditions (temperature and humidity conditions), the unit may be frosted or defrosted. In this case, the heating capacity of the whole system will be reduced. Therefore, the frosting correction factor should also be calculated in heating load selection for the whole system.

The table below provides the frosting correction factors:

|   |           |          |          |        |          |         |         |         |         |
|---|-----------|----------|----------|--------|----------|---------|---------|---------|---------|
| Air inlet dry bulb temperature (°F(°C)/RH85%) of the outdoor heat exchanger | 12.2(-11) | 15.8(-9) | 19.4(-7) | 23(-5) | 26.6(-3) | 32.0(0) | 37.4(3) | 41.0(5) | 44.6(7) |
| Frosting (defrosting) capacity correction factor of the whole system        | 1.00      | 0.99     | 0.98     | 0.95   | 0.88     | 0.86    | 0.93    | 0.96    | 1.00    |

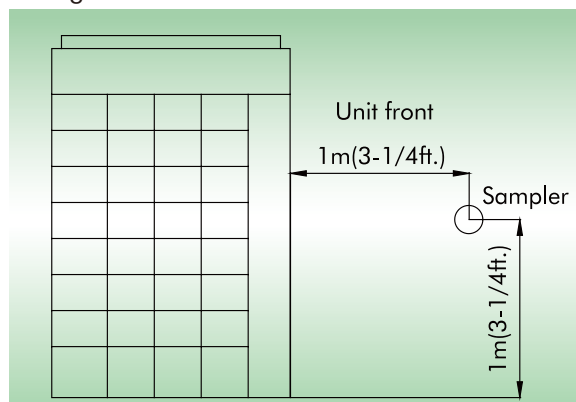
**7 UNIT NOISE CURVES**

**7.1 Outdoor Unit Noise Curve**

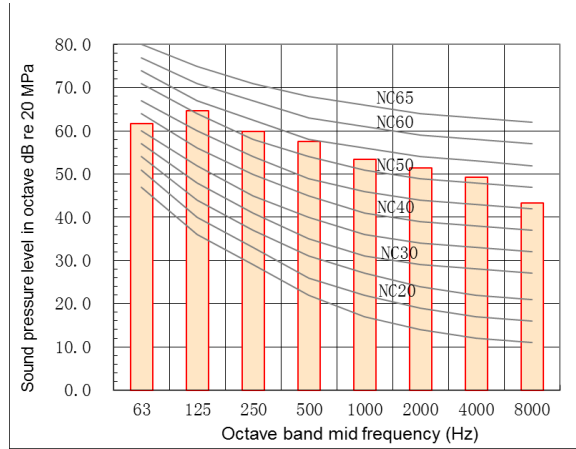
Noise test method:

Test environment: semi-anechoic room; the noise level will be slightly higher due to change of the environment during actual operation.

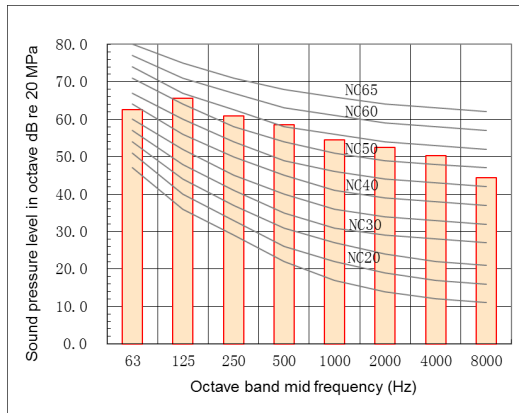
The test points of the following noise curves are shown below:



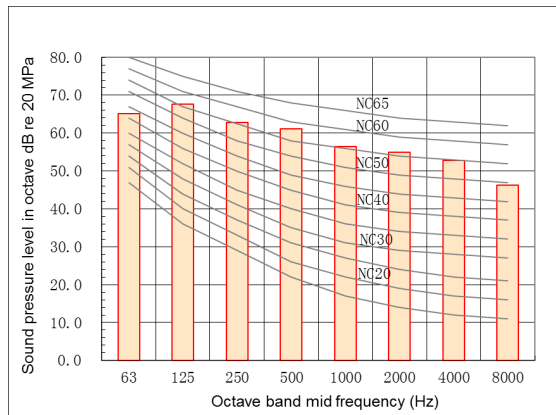
### 6 Ton noise evaluation curve



### 8 Ton noise evaluation curve



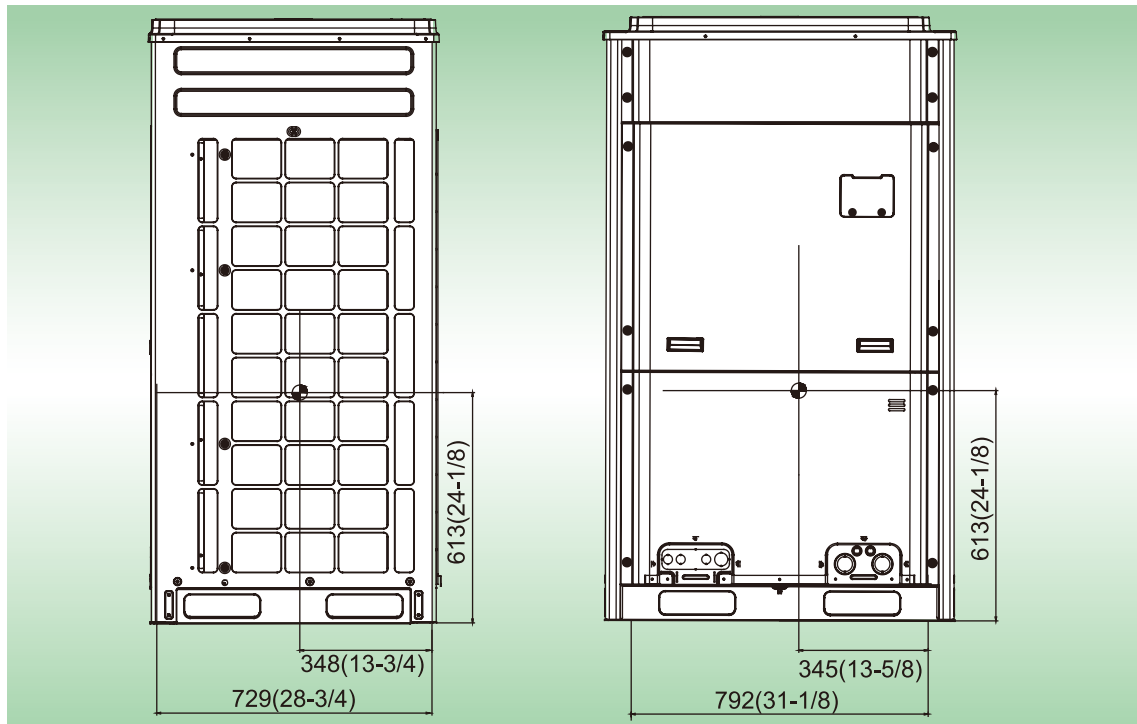
### 10 Ton noise evaluation curve



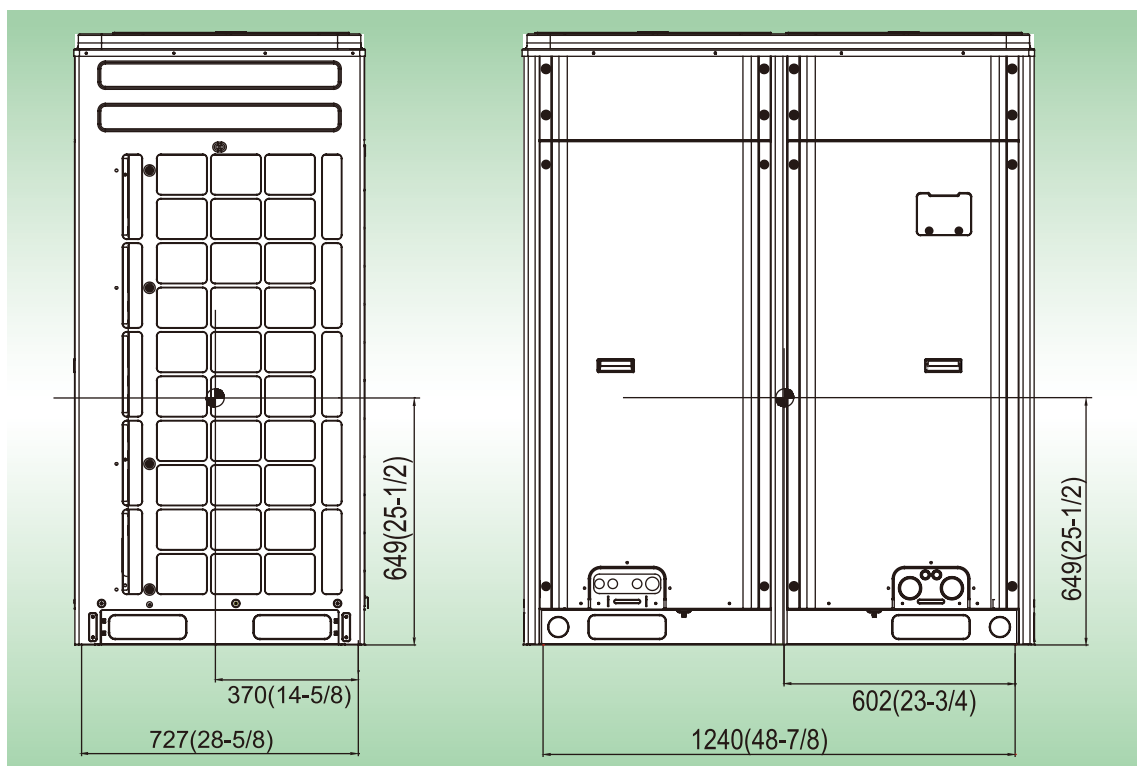
# 8 UNIT GRAVITY CENTER DIAGRAMS

Unit: mm(in.)

GMV-Y72WM/C-F(U)



GMV-Y96WM/C-F(U) , GMV-Y120WM/C-F(U)





## 9 UNIT INSTALLATION SPACE REQUIREMENTS

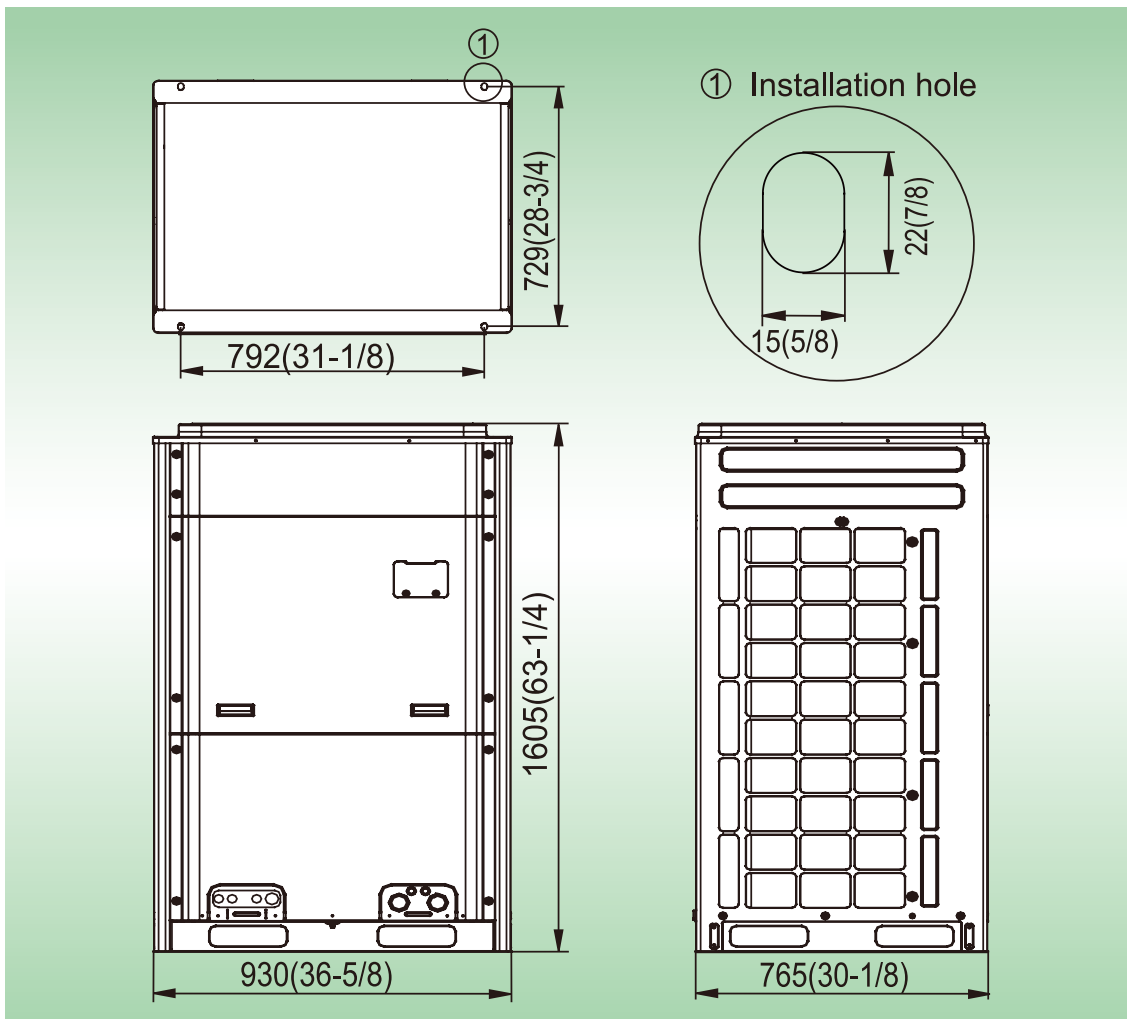
### 9.1 Selection of outdoor unit installation site

VRF units are used in a lot of situations and serve wider users. If the unit is installed in a living environment, the cooling, heating and noise requirements will be higher, especially for the aged and infants. Therefore, the indoor/outdoor unit model with sufficient capacity and low noise should be preferred during model selection. It is not advisable to install the outdoor unit outside the bedroom, study room, or meeting room. For the commercial site, it is improper to install the outdoor unit near the office.

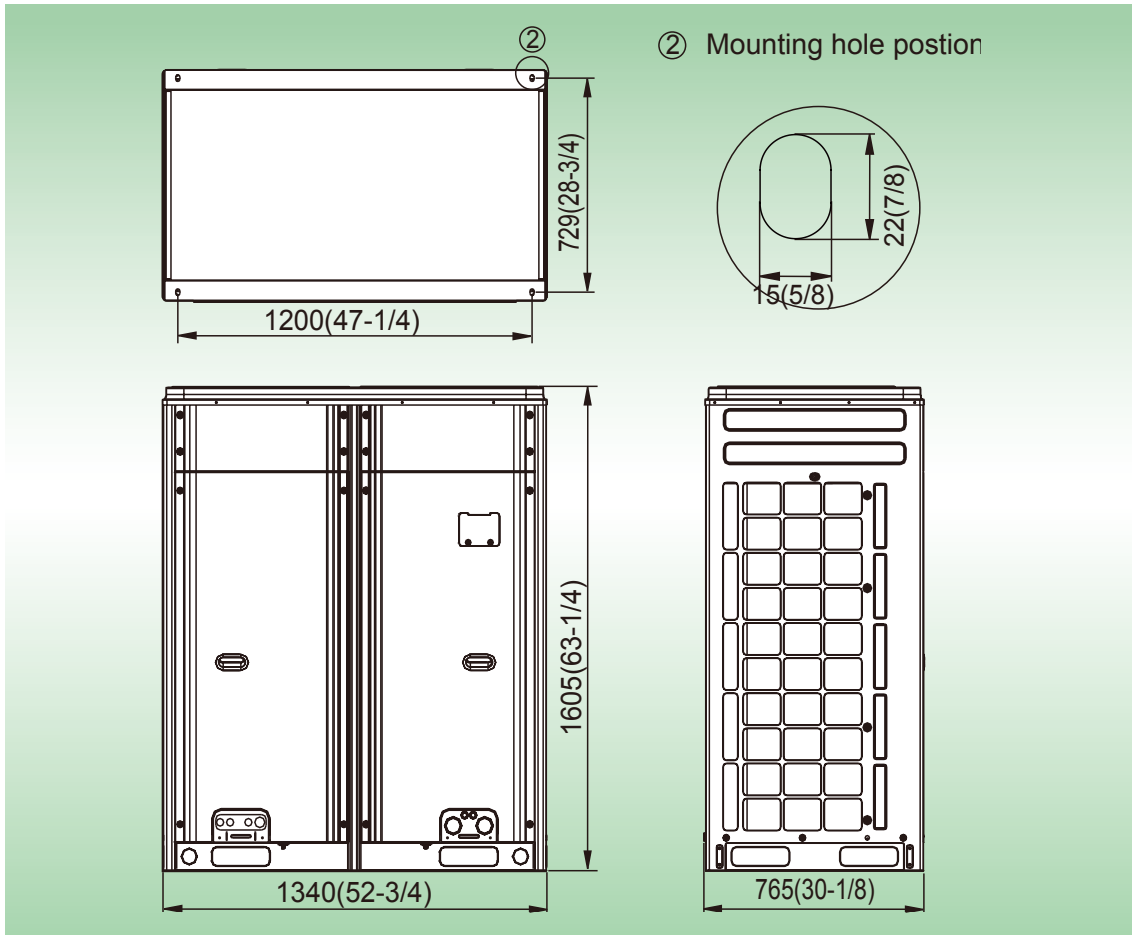
### 9.2 External dimensions and mounting hole dimensions of the outdoor unit

Unit: mm(in.)

External and installation dimensions of GMV-Y72WM/C-F(U)



External and installation dimensions of GMV-Y96WM/C-F(U) and GMV-Y120WM/C-F(U)

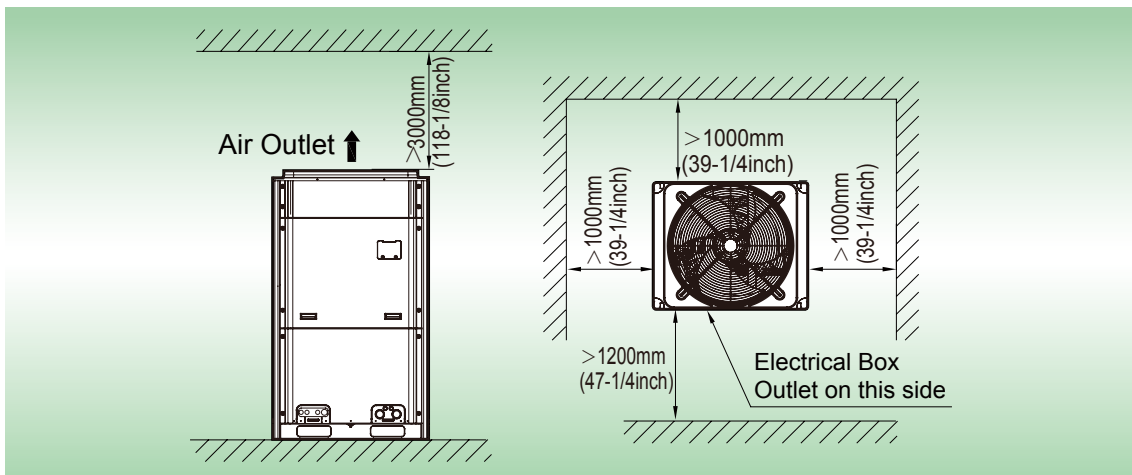


### 9.3 External unit installation space requirements

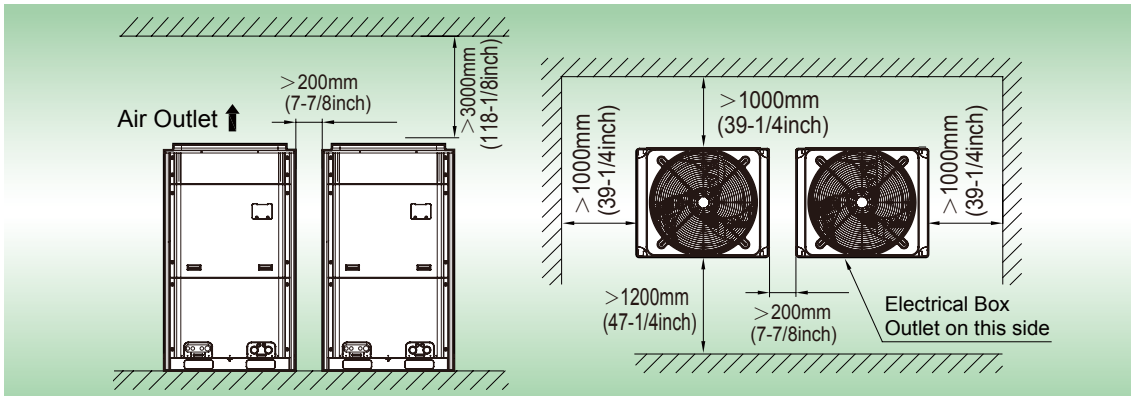
Unit: mm(in.)

1) If all sides of the outdoor unit (including the top) are surrounded by walls, process according to the following requirements for installation space:

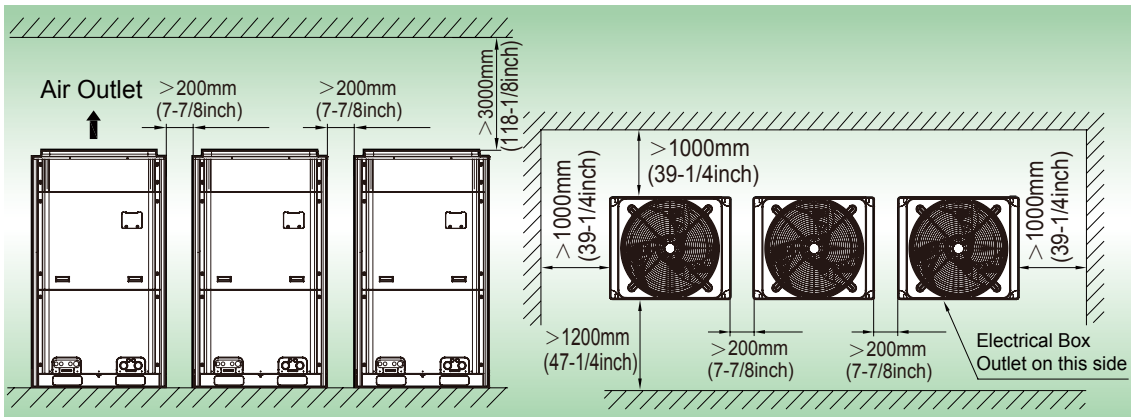
Installation space requirements for the single-module unit



## Installation space requirements for the dual-module unit



## Installation space requirements for triple-module unit



2) When there is wall (or similar obstruction) above the unit, keep the distance between the unit top and the wall at least 3000mm (118-1/8inch) or above. When the unit is located in a totally open space with no obstructions in four directions, keep the distance between the unit top and wall at least 1500mm (59inch) or above (See Fig.a). When space is limited within 1500mm (59inch) or the unit is not set in an open space, air outlet pipe is required to be installed in order to keep good ventilation (See Fig.b)

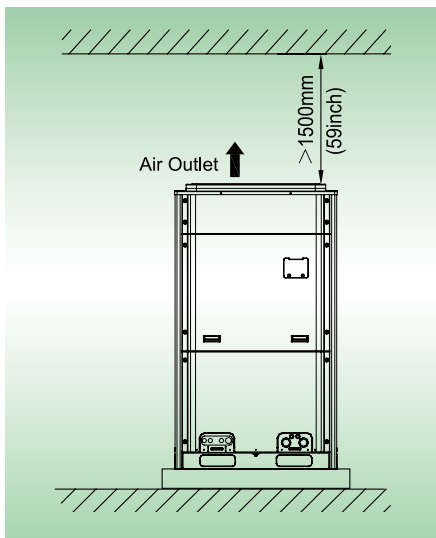


Figure (a)

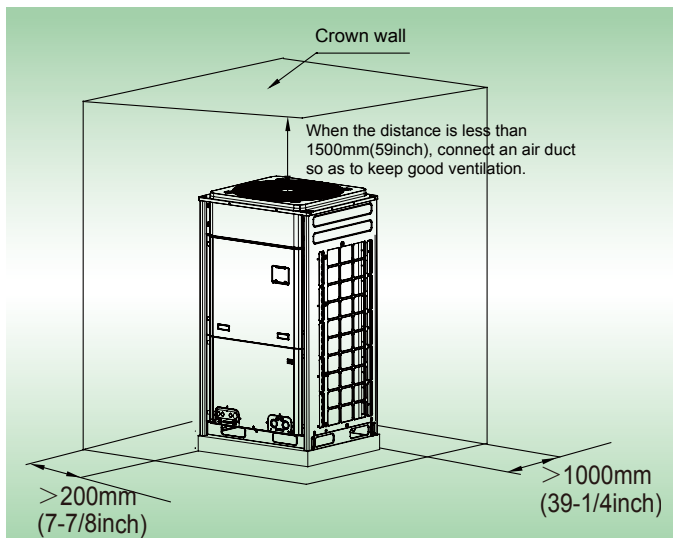
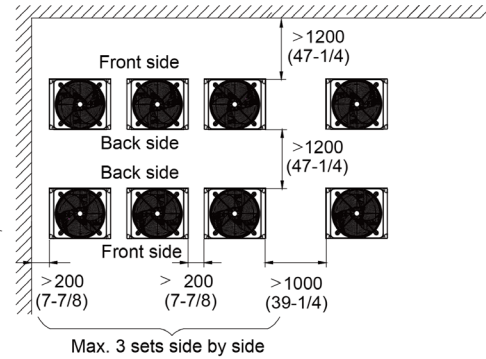
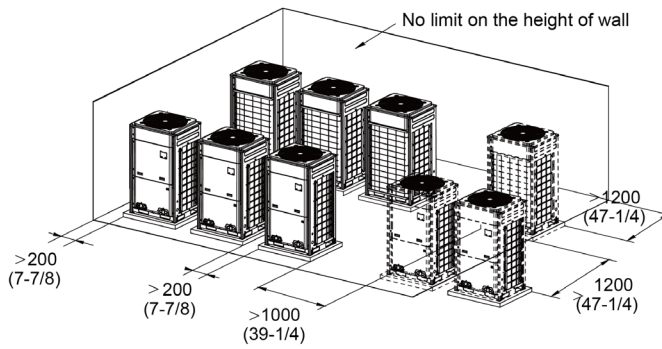
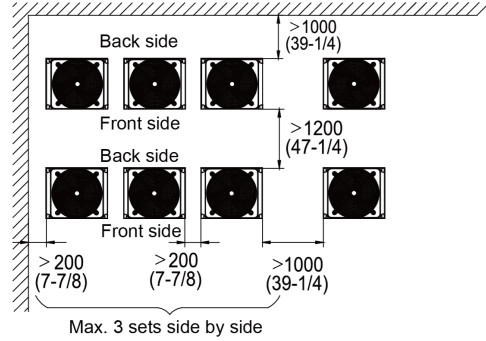
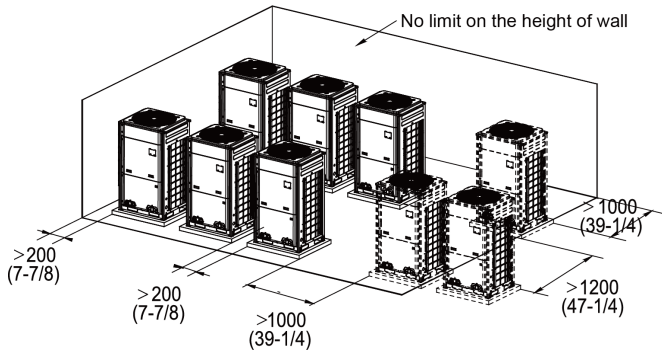


Figure (b)

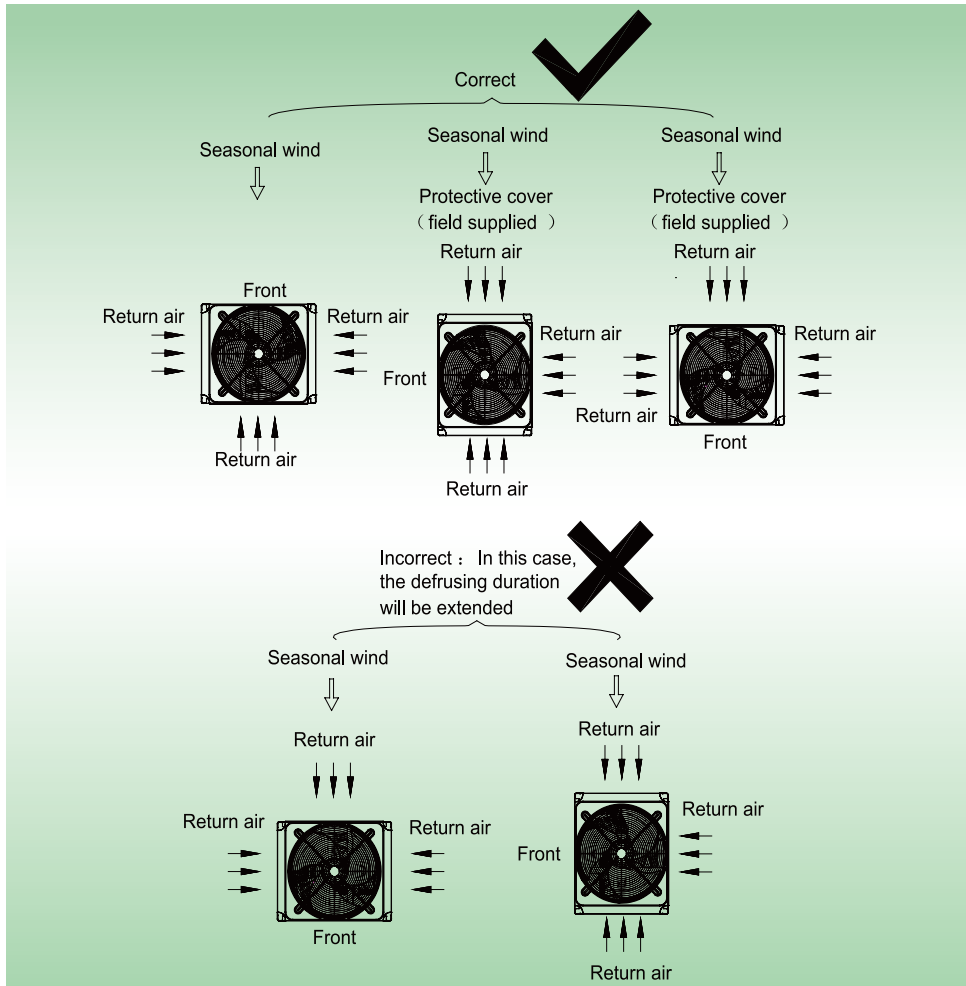
### Installation space requirements of multiple outdoor units

To ensure smooth ventilation, an open space must be ensured above the unit top, and there is no barrier against wind.

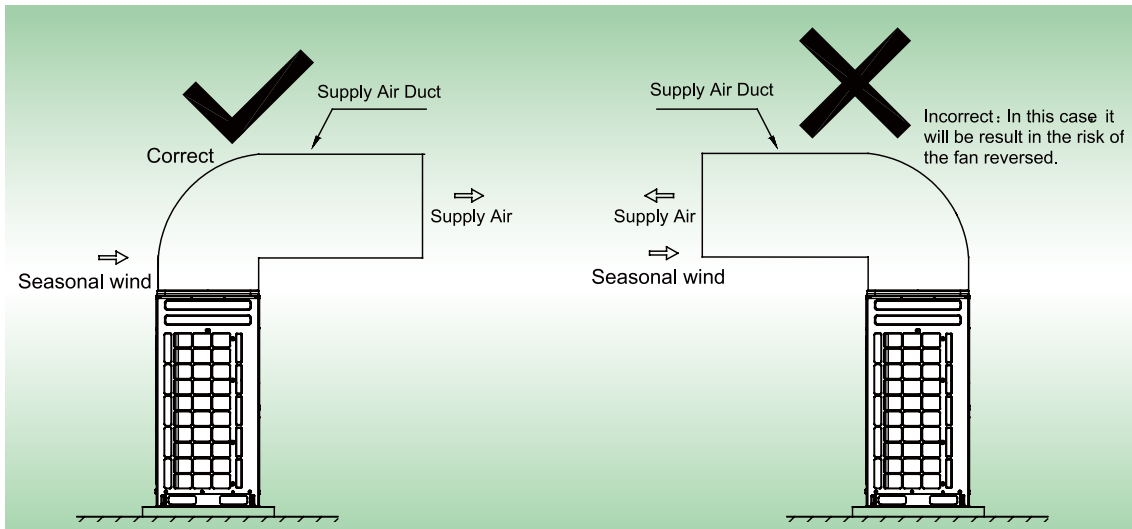
If there is an open space at the front side and left side (or right side) of the outdoor unit, the units should be installed towards the same direction or reverse direction.



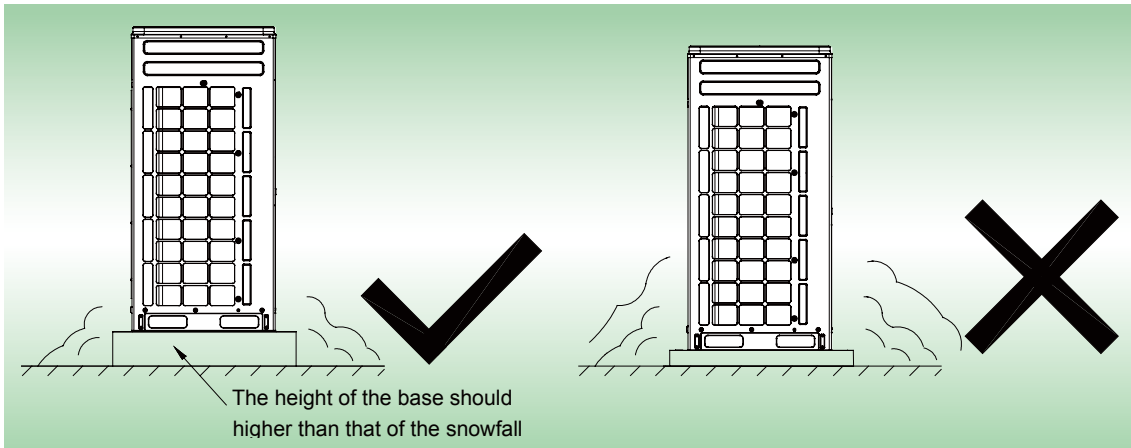
3) Considering the seasonal wind in outdoor unit installation  
 Anti-monsoon installation requirement for unit not connecting exhaust duct



Anti-monsoon installation requirement for unit connecting exhaust duct



4) Considering snow in outdoor unit installation

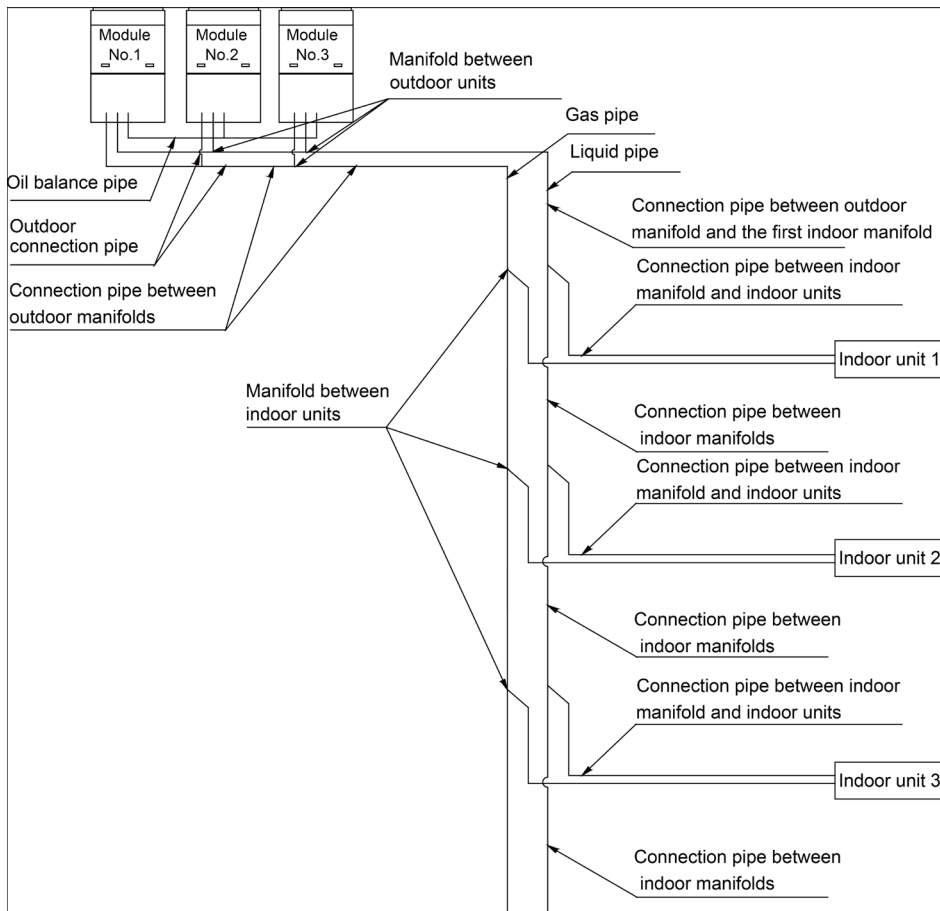


5) When the outdoor unit is installed on equipment, an air exhaust pipe should be connected, the aperture opening ratio of the louver cannot be smaller than 80%, and the included angle between the louver and the horizontal plane should be smaller than 20°.

# 10 MODEL SELECTION FOR UNIT PIPING

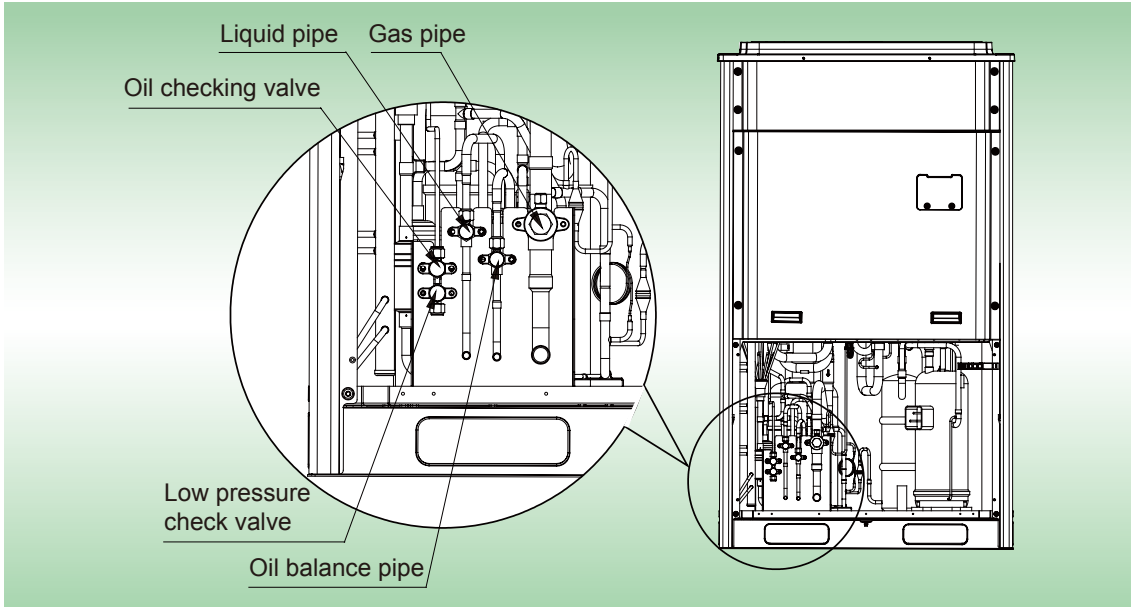
NOTICE! The content is the same as that in the installation, debugging, and maintenance manual.

## 10.1 Schematic Diagram of Piping Connection

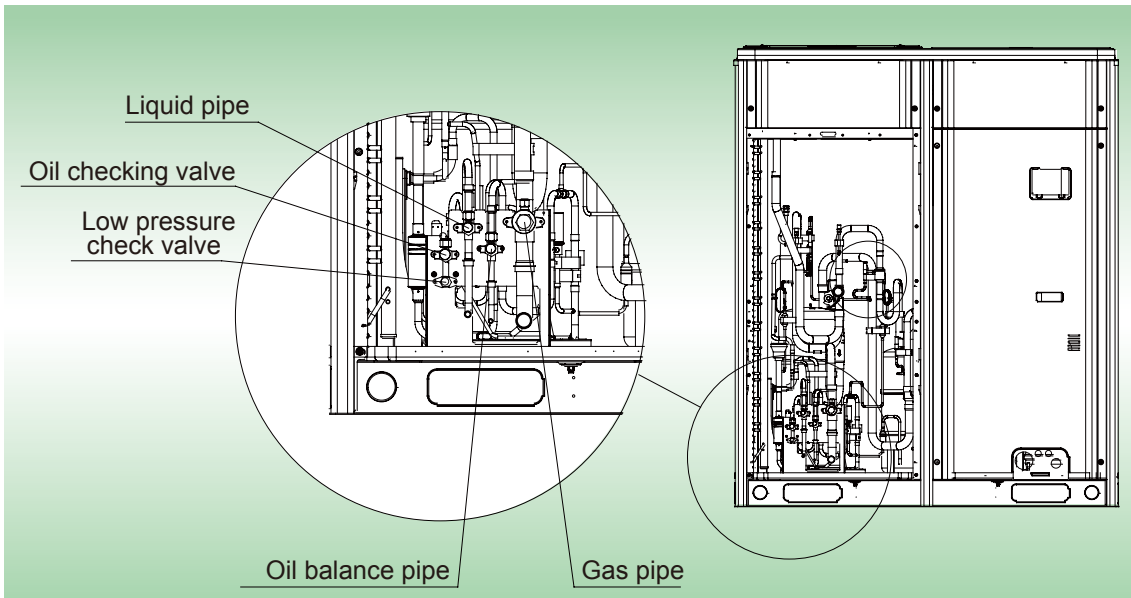


## 10.2 Schematic Diagram of Piping Sequence

GMV-Y72WM/C-F(U)



GMV-Y96WM/C-F(U) and GMV-Y120WM/C-F(U)



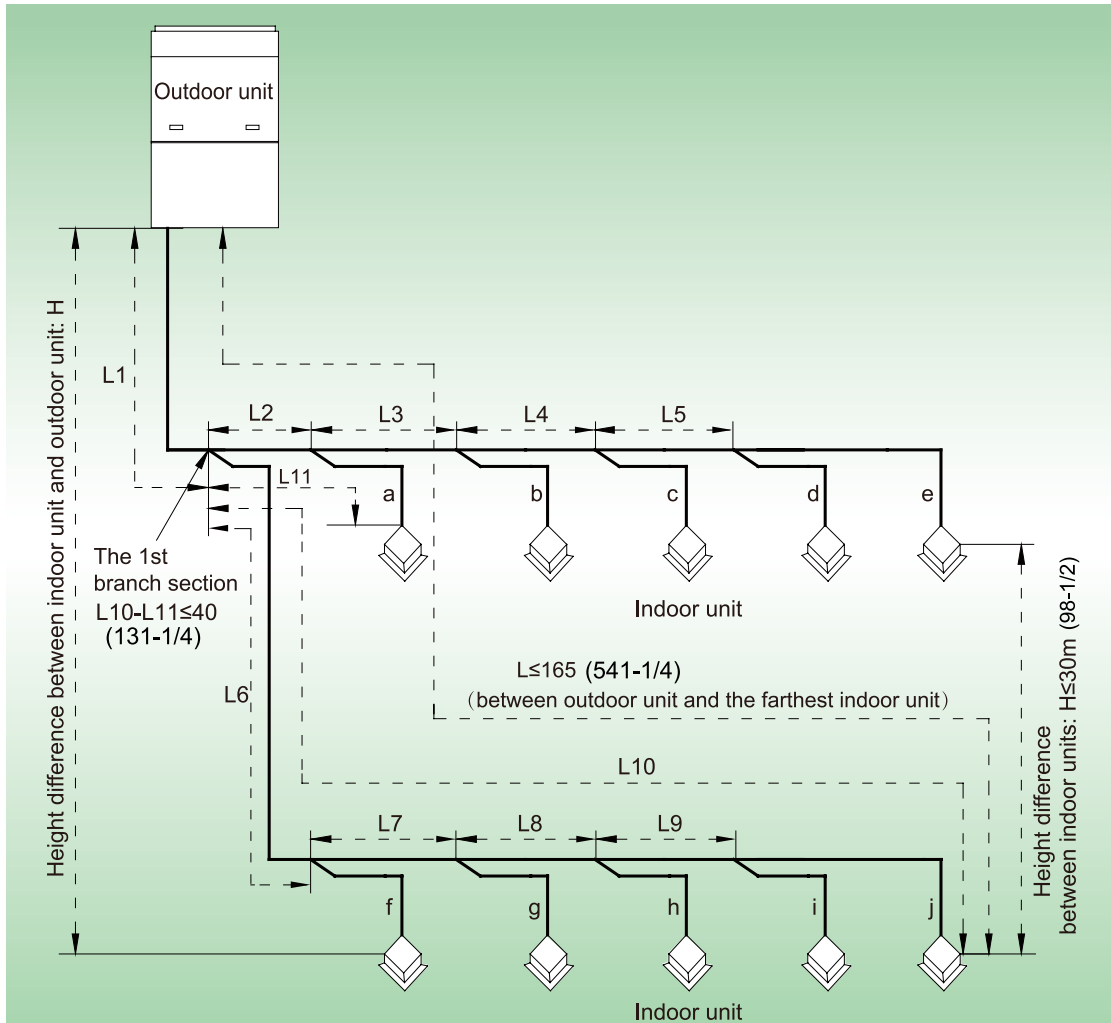


### 10.3 Allowable pipe length and drop height among indoor and outdoor units

Unit: m(ft.)

Y type branch joint is adopted to connect indoor and outdoor units. Connecting method is shown in the figure below.

Remark: Equivalent length of one Y-type manifold is about 0.5m(1-3/4inch).



L10: Length from the first branch to the farthest IDU; L11: Length from the first branch to the nearest IDU; Equivalent length of branch of IDU is 0.5m (1-3/4feet).

| R410A Refrigerant System  |                          | Allowable Value m(ft.) | Fitting Pipe                   |
|---|--------------------------|------------------------|--------------------------------|
| Total length (actual length) of fitting pipe  |                          | ≤1000(3280-3/4)        | L1+L2+L3+L4+...+L9+a+b+...+i+j |
| Length of farthest fitting pipe m(ft.)  | Actual length            | ≤165(541-1/4)          | L1+L6+L7+L8+L9+j               |
|   | Equivalent length        | ≤190(623-1/4)          |                                |
| Difference between the pipe length from the first branch of IDU to the farthest IDU and the pipe length from the first branch of IDU to the nearest IDU |                          | ≤40(131-1/4)           | L10-L11                        |
| Equivalent length from the first branch to the furthest piping (1)  |                          | ≤40(131-1/4)           | L6+L7+L8+L9+j                  |
| Height difference between outdoor unit and indoor unit  | Outdoor unit at upper(2) | ≤90(295-1/4)           | ---                            |
|   | Outdoor unit at lower(2) | ≤90(295-1/4)           | ---                            |
| Height difference between indoor units  |                          | ≤30(98-2/4)            | ---                            |

| R410A Refrigerant System           | Allowable Value m(ft.) | Fitting Pipe        |
|------------------------------------|------------------------|---------------------|
| Maximum length of Main pipe(3)     | < 90(295-1/4)          | L1                  |
| From IDU to its nearest branch (4) | ≤40(131-1/4)           | a,b,c,d,e,f,g,h,i,j |

**NOTICES:**

a. Normally, the pipe length from the first branch of IDU to the farthest IDU is 40m(131-1/4feet). When those three conditions as below are satisfied, the length can reached 90m(295-1/4ft).

- ① Actual length of pipe in total:  $L1 + L2 \times 2 + L3 \times 2 + L4 \times 2 + \dots + L9 \times 2 + a + b + \dots + i + j \leq 1000m(3280-3/4ft)$ ;
- ② Length between each IDU and its nearest branch a, b, c, d, e, f, g, h, i,  $j \leq 40m(131-1/4ft)$ ;
- ③ Difference between the pipe length from the first branch of IDU to the farthest IDU and the pipe length from the first branch of IDU to the nearest IDU:  $L10 - L11 \leq 40m(131-1/4feet)$ .

b. When the maximum length of the main pipe from ODU to the first branch of IDU is  $\geq 90m(295-1/4feet)$ , then adjust the pipe size of the gas pipe and liquid pipe of main pipe according to the following table.

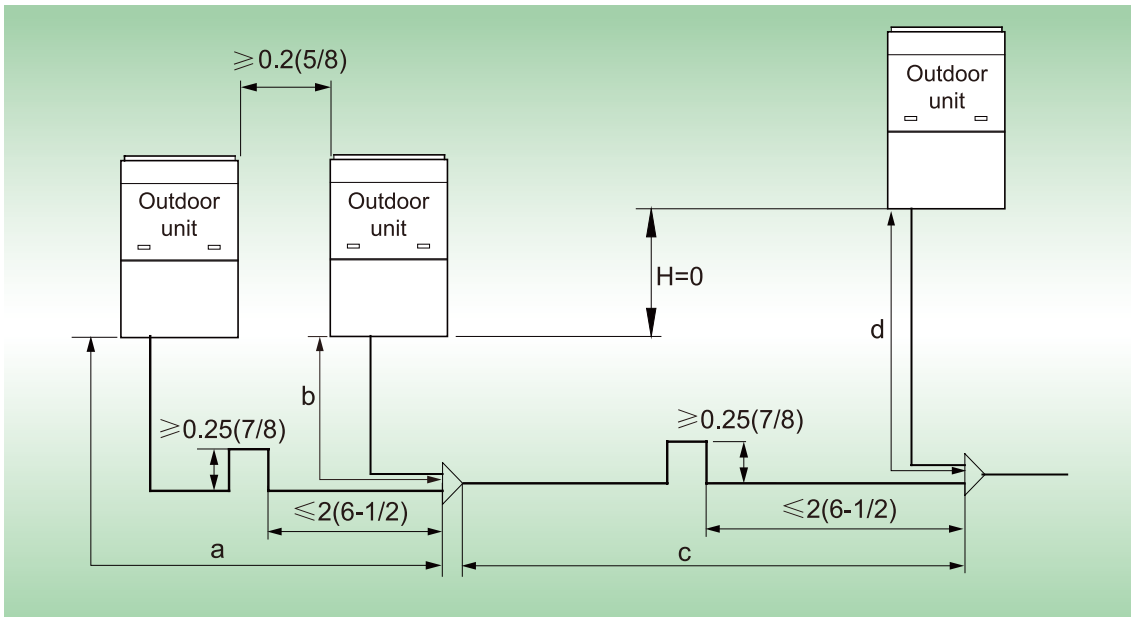
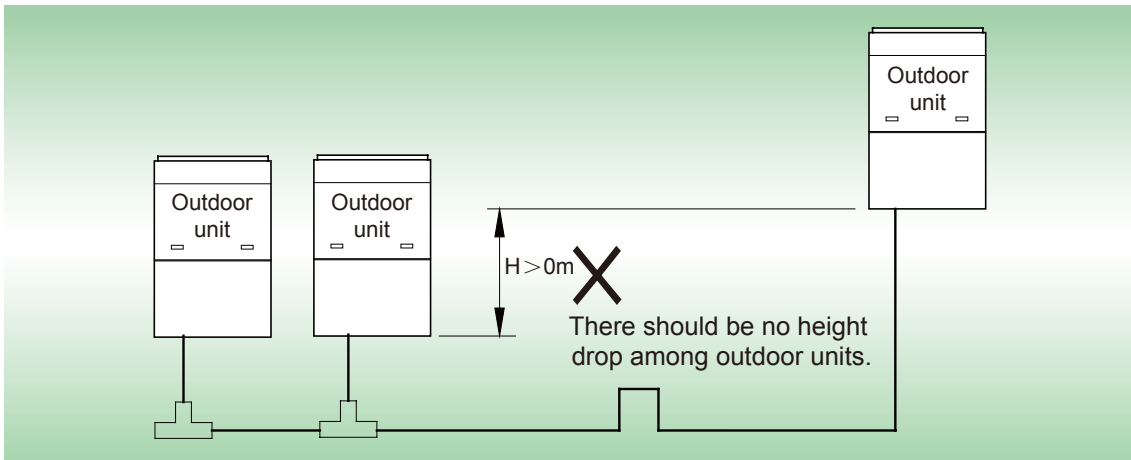
| Outdoor Model     | Gas pipe size mm(in.)        | Liquid pipe size mm(in.)     |
|-------------------|------------------------------|------------------------------|
| GMV-Y72WM/C-F(U)  | No need to enlarge pipe size | No need to enlarge pipe size |
| GMV-Y96WM/C-F(U)  | No need to enlarge pipe size | Φ12.7(1/2)                   |
| GMV-Y120WM/C-F(U) | No need to enlarge pipe size | Φ15.9(5/8)                   |
| GMV-Y144WM/C-F(U) | Φ34.9(1-3/8)                 | Φ15.9(5/8)                   |
| GMV-Y168WM/C-F(U) | Φ34.9(1-3/8)                 | Φ19.05(3/4)                  |
| GMV-Y192WM/C-F(U) | Φ34.9(1-3/8)                 | Φ19.05(3/4)                  |
| GMV-Y216WM/C-F(U) | Φ34.9(1-3/8)                 | Φ19.05(3/4)                  |
| GMV-Y240WM/C-F(U) | No need to enlarge pipe size | Φ19.05(3/4)                  |
| GMV-Y264WM/C-F(U) | No need to enlarge pipe size | Φ22.2(7/8)                   |
| GMV-Y288WM/C-F(U) | No need to enlarge pipe size | Φ22.2(7/8)                   |
| GMV-Y312WM/C-F(U) | No need to enlarge pipe size | Φ22.2(7/8)                   |
| GMV-Y336WM/C-F(U) | No need to enlarge pipe size | Φ22.2(7/8)                   |
| GMV-Y360WM/C-F(U) | No need to enlarge pipe size | Φ22.2(7/8)                   |

c. If the length between an IDU and its nearest branch is above 10m(32-3/4ft.), then increase the size of the liquid pipe of IDU (only for the pipe size that is  $\leq 6.35mm(1/4in.)$ ).

**CAUTION:**

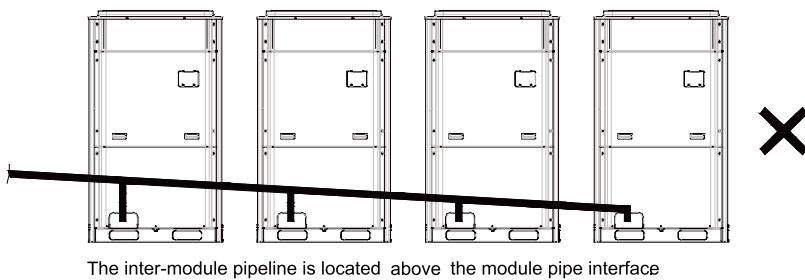
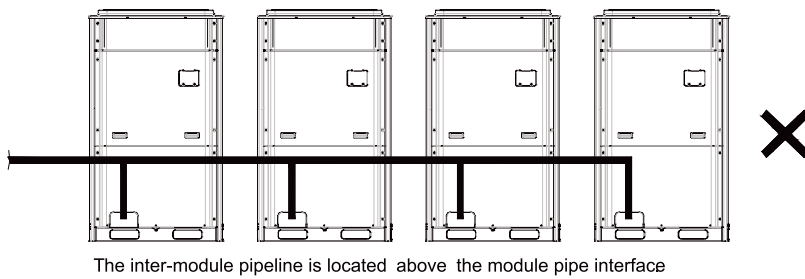
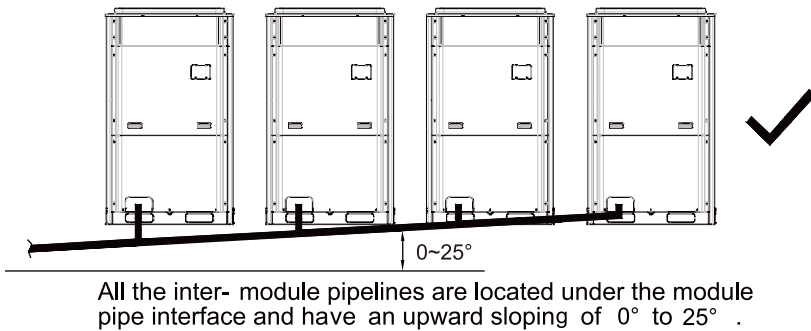
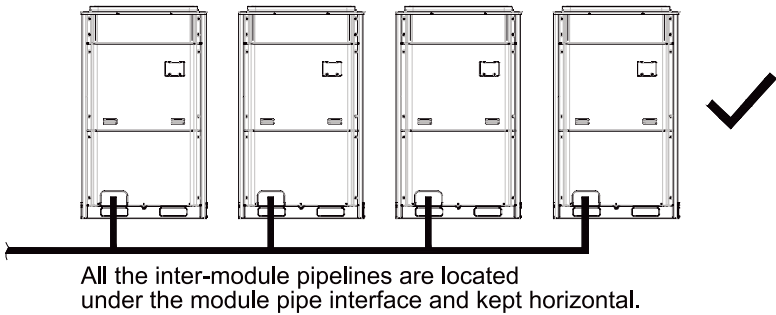
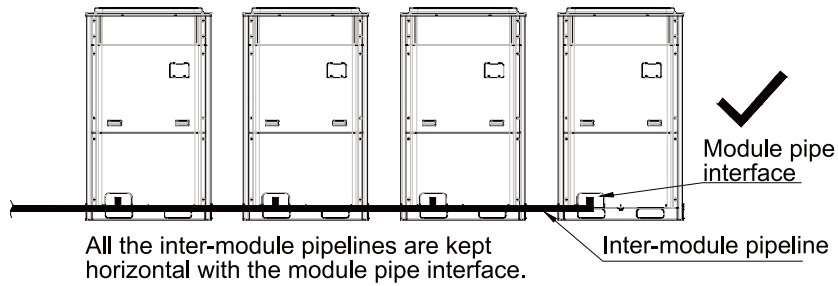
During model selection and design process, if above requirements are all met, pipe size must be adjusted correspondingly, otherwise system's capacity may be reduced or not evenly distributed, and may even affect the reliability of the complete unit.

### 10.4 Connection Pipe among Outdoor Modules



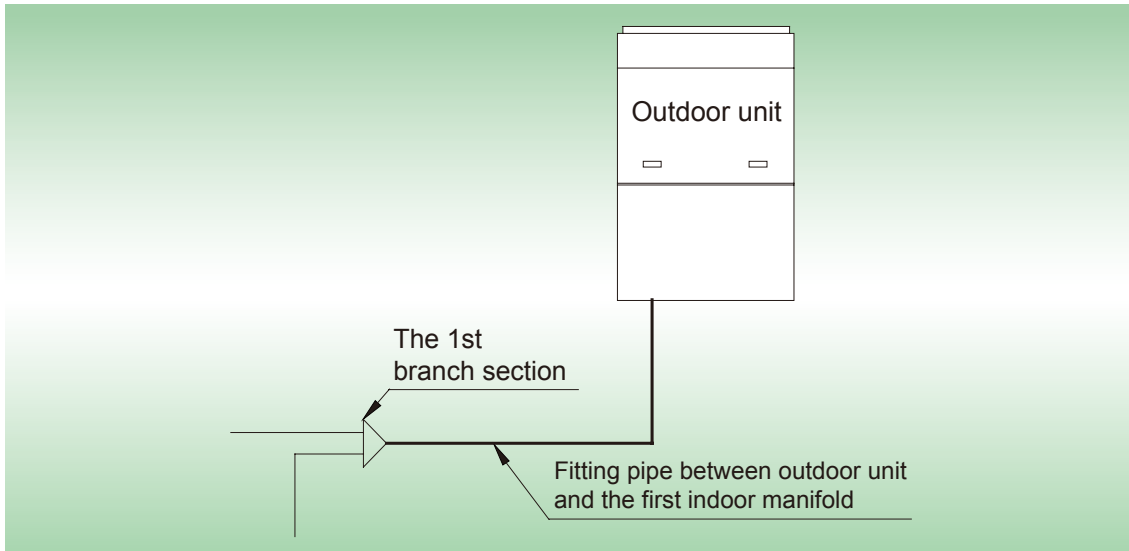
**NOTICES:** When the distance between outdoor units exceeds 2m (6-1/2ft.), U-type oil trap should be added at low pressure gas pipe.  $a+c \leq 10m(32-7/8ft.)$ ;  $b+c \leq 10m(32-7/8ft.)$ ;  $d \leq 10m(32-7/8ft.)$ .

The pipeline between outdoor units should be installed as follows:



### 10.5 Fitting pipe between Outdoor Unit and the First Manifold

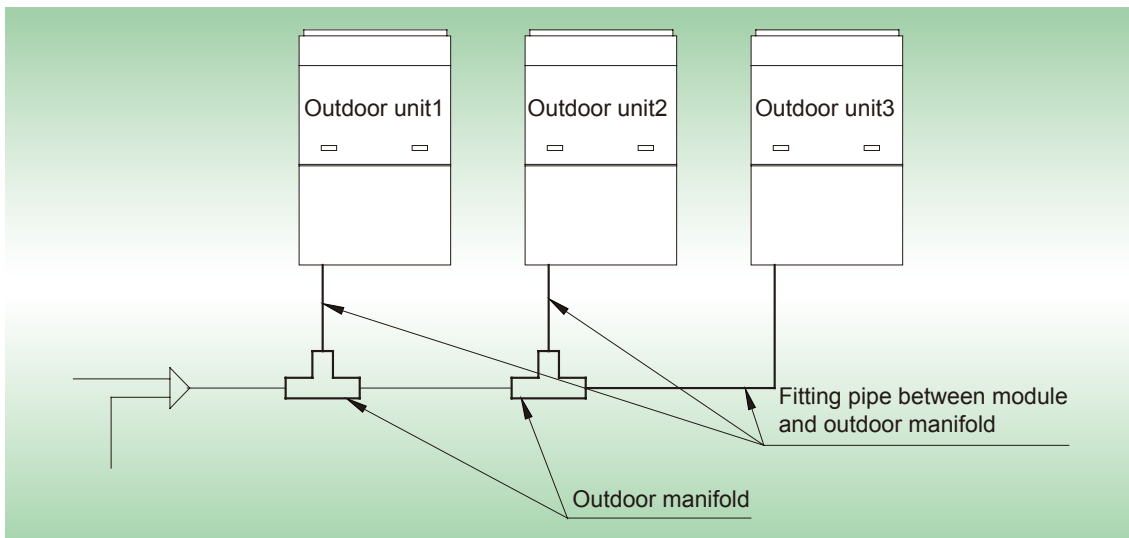
1) For single module system, pipe size (between outdoor unit and the first manifold) is determined by that of outdoor unit.



Pipe size of basic outdoor module is shown as follows:

| Basic Module      | Pipe between ODU and the first branch of IDU |                      |
|-------------------|--|----------------------|
|                   | Gas Pipe mm(inch)                            | Liquid Pipe mm(inch) |
| GMV-Y72WM/C-F(U)  | Φ19.05(3/4)                                  | Φ9.52(3/8)           |
| GMV-Y96WM/C-F(U)  | Φ22.2(7/8)                                   | Φ9.52(3/8)           |
| GMV-Y120WM/C-F(U) | Φ28.6(1-1/8)                                 | Φ12.7(1/2)           |

2) For multi-module unit, select appropriate manifold connected to outdoor module as per the pipe size of basic module. Pipe size of basic outdoor module is shown as follows:



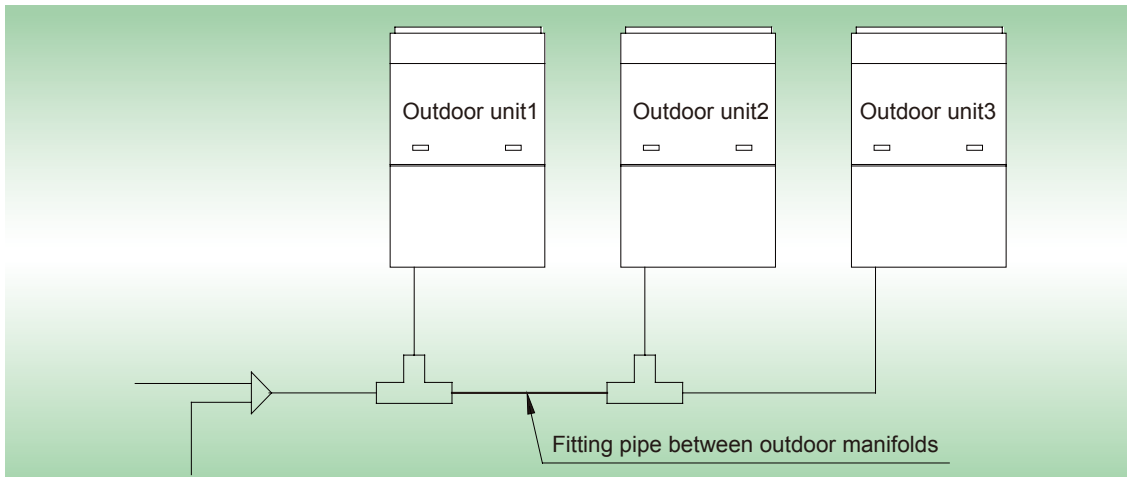
| Basic Module      | Pipe between module and branch of ODU |                     |
|-------------------|---------------------------------------|---------------------|
|                   | Gas Pipe mm(in.)                      | Liquid Pipe mm(in.) |
| GMV-Y72WM/C-F(U)  | Φ19.05(3/4)                           | Φ9.52(3/8)          |
| GMV-Y96WM/C-F(U)  | Φ22.2(7/8)                            | Φ9.52(3/8)          |
| GMV-Y120WM/C-F(U) | Φ28.6(1-1/8)                          | Φ12.7(1/2)          |

Select the branch of outdoor module

|                                     | Model  |
|-------------------------------------|--------|
| Select the branch of outdoor module | ML01/A |

3) Fitting pipe between two manifolds from basic modules

Pipe size (between two manifolds from basic modules) is based on the total capacity of upstream modules.

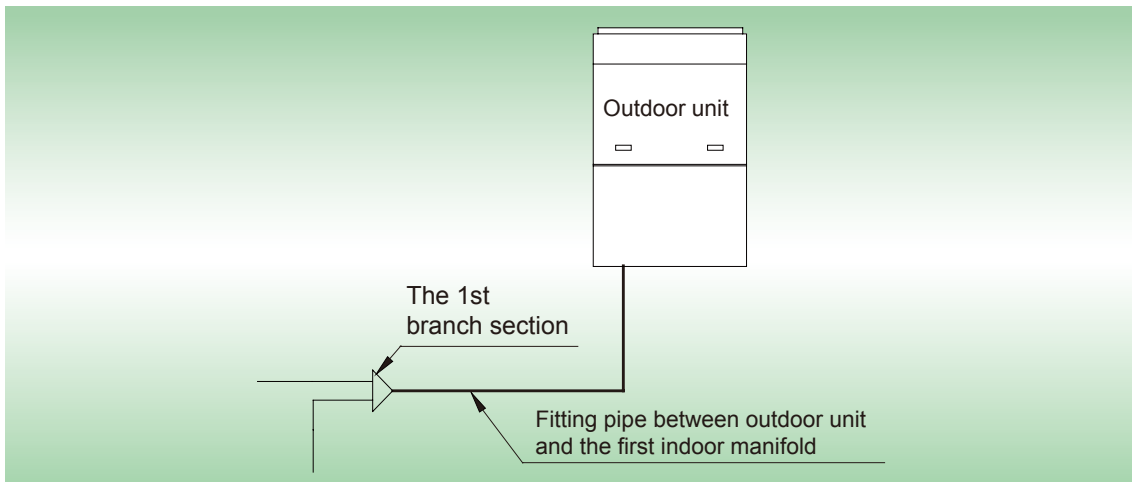


| Total capacity of upstream modules Q(Btu/h) | Pipe size between manifolds |                          |
|---|-----------------------------|--------------------------|
|   | Gas pipe size mm(in.)       | Liquid pipe size mm(in.) |
| 144000                                      | Φ28.6(1-1/8)                | Φ12.7(1/2)               |
| 168000                                      | Φ28.6(1-1/8)                | Φ15.9(5/8)               |
| 192000                                      | Φ28.6(1-1/8)                | Φ15.9(5/8)               |
| 216000                                      | Φ28.6(1-1/8)                | Φ15.9(5/8)               |
| 240000                                      | Φ34.9(1-3/8)                | Φ15.9(5/8)               |

| Total capacity of upstream modules Q(Btu/h) | Pipe size between manifolds |                      |
|---|-----------------------------|----------------------|
|   | Gas Pipe mm(inch)           | Liquid Pipe mm(inch) |
| $Q \leq 72000$                              | Φ19.05(3/4)                 | Φ9.52(3/8)           |
| $72000 < Q \leq 96000$                      | Φ22.2(7/8)                  | Φ9.52(3/8)           |
| $96000 < Q \leq 144000$                     | Φ28.6(1-1/8)                | Φ12.7(1/2)           |
| $144000 < Q \leq 216000$                    | Φ28.6(1-1/8)                | Φ15.9(5/8)           |
| $216000 < Q \leq 240000$                    | Φ34.9(1-3/8)                | Φ15.9(5/8)           |
| $240000 < Q \leq 336000$                    | Φ34.9(1-3/8)                | Φ19.05(3/4)          |
| $336000 < Q$                                | Φ41.3(1-5/8)                | Φ19.05(3/4)          |

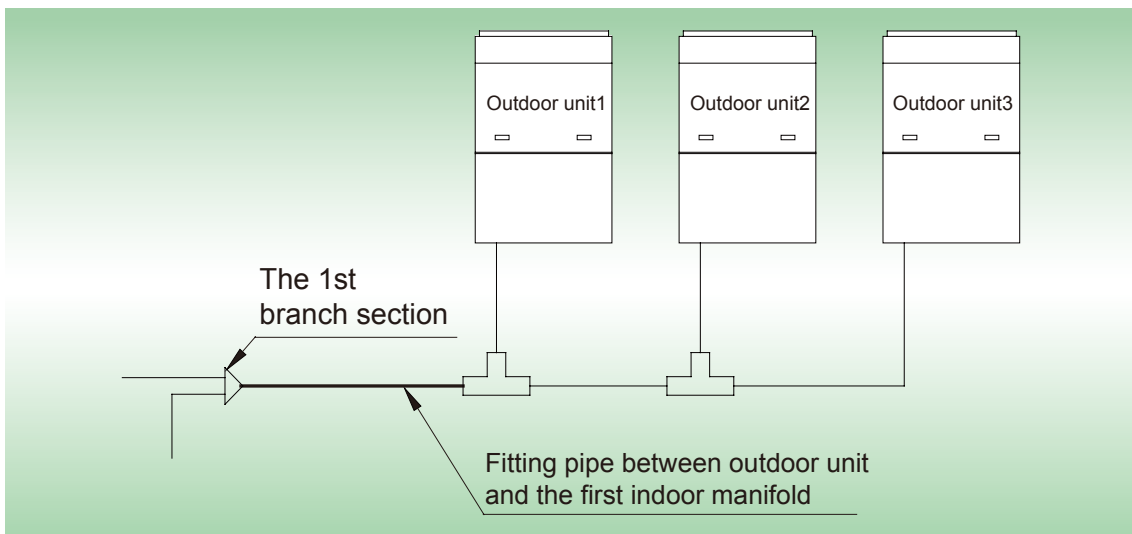
## 4) Fitting pipe between the first manifold from indoor unit and the end manifold from outdoor unit

Single module unit



| Basic Module      | Pipe between ODU and the first branch of IDU |                     |
|-------------------|--|---------------------|
|                   | Gas Pipe mm(in.)                             | Liquid Pipe mm(in.) |
| GMV-Y72WM/C-F(U)  | Φ19.05(3/4)                                  | Φ9.52(3/8)          |
| GMV-Y96WM/C-F(U)  | Φ22.2(7/8)                                   | Φ9.52(3/8)          |
| GMV-Y120WM/C-F(U) | Φ28.6(1-1/8)                                 | Φ12.7(1/2)          |

For multiple modules, the piping from ODU to the first branch of IDU is based on the total rated capacity of outdoor modules.

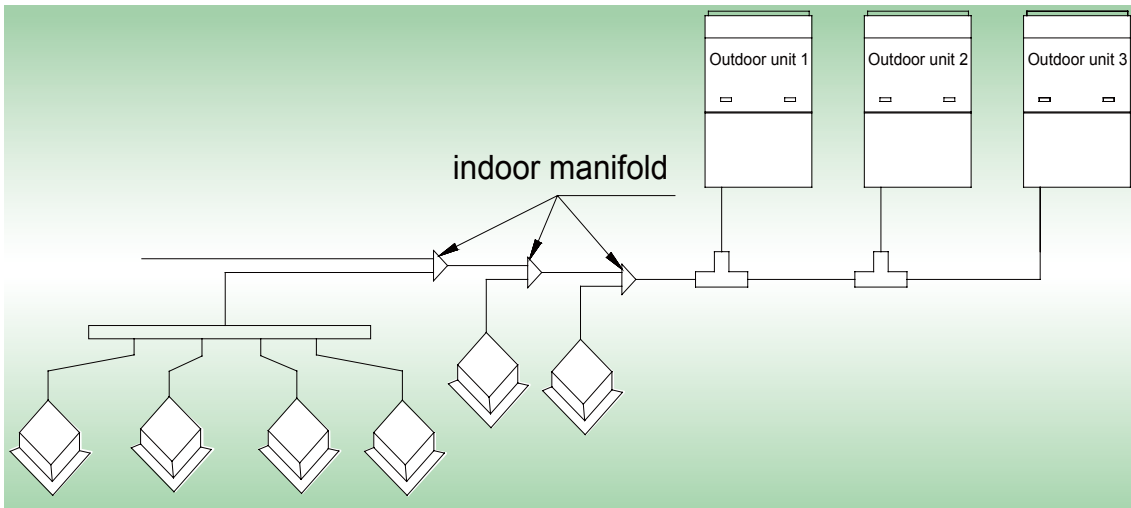
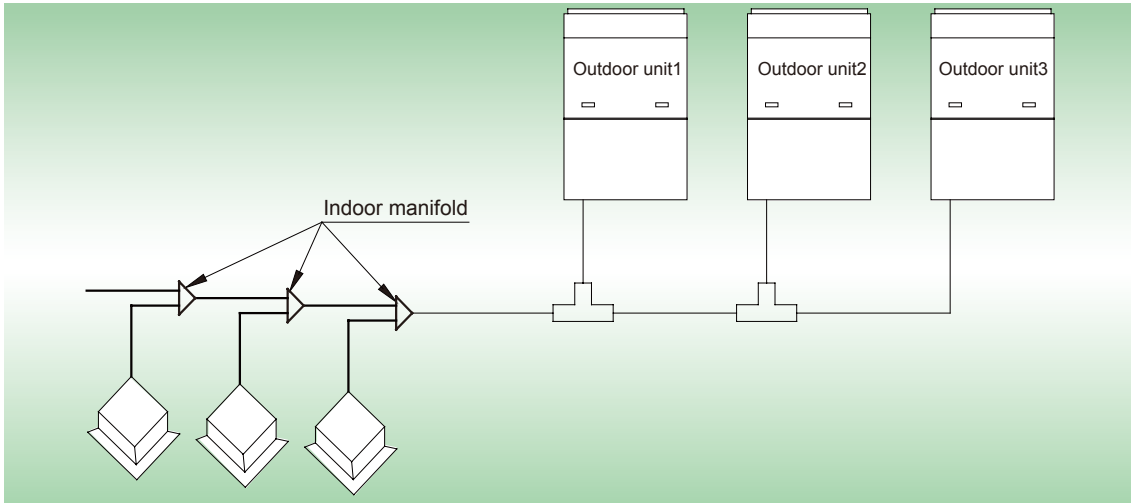


| Total rated capacity of outdoor modules (multi-modular system) | Pipe between ODU and the first branch of IDU |                          |
|--|--|--------------------------|
|  | Gas pipe size mm(in.)                        | Liquid pipe size mm(in.) |
| GMV-Y144WM/C-F(U)  | Φ28.6(1-1/8)                                 | Φ12.7(1/2)               |
| GMV-Y168WM/C-F(U)  | Φ28.6(1-1/8)                                 | Φ15.9(5/8)               |
| GMV-Y192WM/C-F(U)  | Φ28.6(1-1/8)                                 | Φ15.9(5/8)               |
| GMV-Y216WM/C-F(U)  | Φ28.6(1-1/8)                                 | Φ15.9(5/8)               |
| GMV-Y240WM/C-F(U)  | Φ34.9(1-3/8)                                 | Φ15.9(5/8)               |
| GMV-Y264WM/C-F(U)  | Φ34.9(1-3/8)                                 | Φ19.05(3/4)              |
| GMV-Y288WM/C-F(U)  | Φ34.9(1-3/8)                                 | Φ19.05(3/4)              |

| Total rated capacity of outdoor modules (multi-modular system) | Pipe between ODU and the first branch of IDU |                          |
|--|--|--------------------------|
|  | Gas pipe size mm(in.)                        | Liquid pipe size mm(in.) |
| GMV-Y312WM/C-F(U)  | Φ34.9(1-3/8)                                 | Φ19.05(3/4)              |
| GMV-Y336WM/C-F(U)  | Φ34.9(1-3/8)                                 | Φ19.05(3/4)              |
| GMV-Y360WM/C-F(U)  | Φ41.3(1-5/8)                                 | Φ19.05(3/4)              |

5) Manifold at indoor unit side

Manifold at indoor unit side can be selected as per total capacity of downstream indoor unit(s). Refer to the following table.

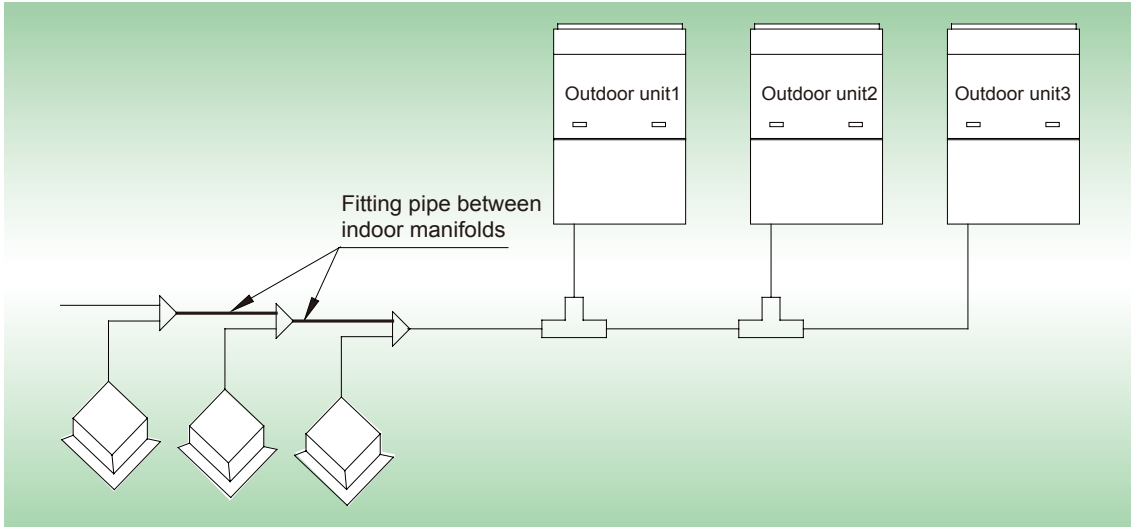


| R410A Refrigerant System | Total capacity of downstream indoor unit(s) C (KBtu/h) | Model   |
|--------------------------|--|---------|
| Y-type Manifold          | $C < 68$   | FQ01A/A |
|                          | $68 \leq C \leq 102$                                   | FQ01B/A |
|                          | $102 < C \leq 239$                                     | FQ02/A  |
|                          | $239 < C$  | FQ03/A  |
| T- type Manifold         | $C \leq 136$   | FQ14/H1 |
|                          | $C \leq 232$   | FQ18/H1 |
|                          | $232 < C$  | FQ18/H2 |



## 6) Fitting pipe between manifolds

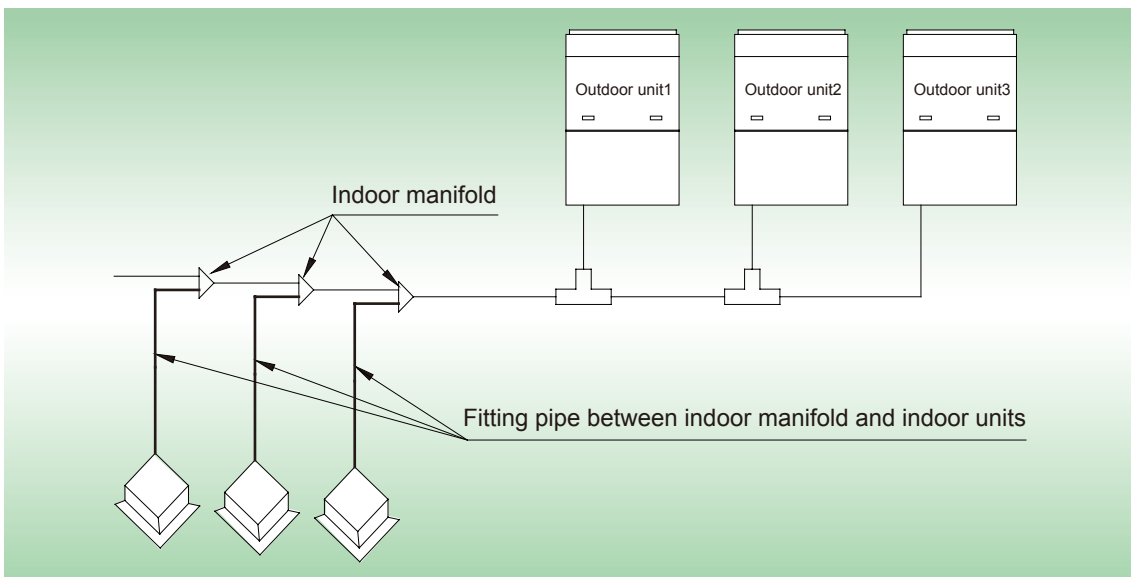
Pipe size (between two manifolds at indoor unit side) is based on the total capacity of upstream indoor unit(s).



| Total capacity of downstream indoor unit(s)<br>C(Btu/h) | Dimension of the pipe of indoor branch |                     |
|---|--|---------------------|
|   | Gas Pipe mm(in.)                       | Liquid Pipe mm(in.) |
| $C \leq 17100$  | $\Phi 12.7(1/2)$                       | $\Phi 6.35(1/4)$    |
| $17100 < C \leq 48500$                                  | $\Phi 15.9(5/8)$                       | $\Phi 9.52(3/8)$    |
| $48500 < C \leq 72000$                                  | $\Phi 19.05(3/4)$                      | $\Phi 9.52(3/8)$    |
| $72000 < C \leq 96000$                                  | $\Phi 22.2(7/8)$                       | $\Phi 9.52(3/8)$    |
| $96000 < C \leq 144000$                                 | $\Phi 28.6(1-1/8)$                     | $\Phi 12.7(1/2)$    |
| $144000 < C \leq 216000$                                | $\Phi 28.6(1-1/8)$                     | $\Phi 15.9(5/8)$    |
| $216000 < C \leq 240000$                                | $\Phi 34.9(1-3/8)$                     | $\Phi 15.9(5/8)$    |
| $240000 < C \leq 336000$                                | $\Phi 34.9(1-3/8)$                     | $\Phi 19.05(3/4)$   |
| $336000 < C$  | $\Phi 41.3(1-5/8)$                     | $\Phi 19.05(3/4)$   |

## 7) Fitting pipe between indoor unit and manifold

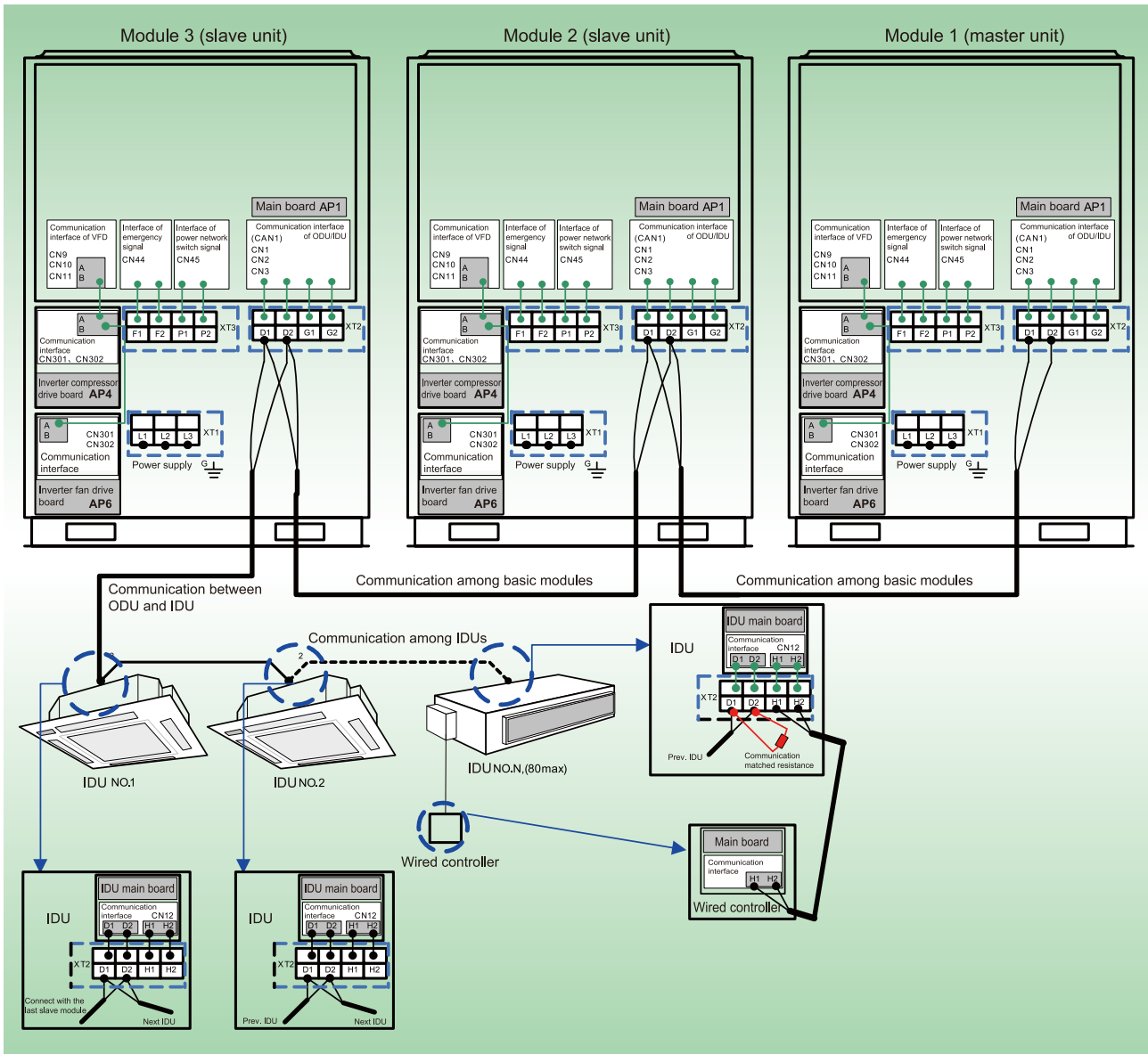
Manifold should be matched with fitting pipe of indoor unit.



| Rated capacity of indoor unit C(Btu/h) | Pipe between indoor branch and IDU |                     |
|--|------------------------------------|---------------------|
|  | Gas Pipe mm(in.)                   | Liquid Pipe mm(in.) |
| $C \leq 9500$                          | $\Phi 9.52(3/8)$                   | $\Phi 6.35(1/4)$    |
| $9500 < C \leq 17100$                  | $\Phi 12.7(1/2)$                   | $\Phi 6.35(1/4)$    |
| $17100 < C \leq 48500$                 | $\Phi 15.9(5/8)$                   | $\Phi 9.52(3/8)$    |
| $48500 < C \leq 72000$                 | $\Phi 19.05(3/4)$                  | $\Phi 9.52(3/8)$    |
| $72000 < C$                            | $\Phi 22.2(7/8)$                   | $\Phi 9.52(3/8)$    |

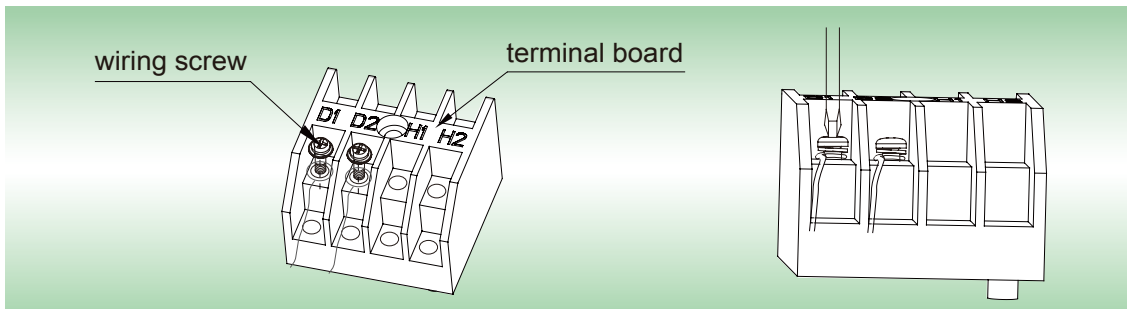
# 11 REQUIREMENTS FOR COMMUNICATION MODE

The Photovoltaic Direct-driven Inverter Multi VRF unit air conditioning system adopts the CAN communication network. Manual dialling and differentiation of the communication cable polarity are not required for the indoor unit, and only functional dialling should be set for the indoor unit.



### 11.1 Connection Mode of Connection Line Terminals

All the communication connections of Photovoltaic Direct-driven Inverter Multi VRF are in the screw fastening mode.



### 11.2 Communication Cable Material and Wring Mode

#### 11.2.1 Communication Material

Module selection for the communication cables of outdoor unit and indoor unit.

| Material Type                                    | Total Length L(m) of Communication Cable between IDU Unit and IDU (ODU ) Unit m(ft.) | Wire size                    | Remarks  |
|--|--|------------------------------|--|
| Light/Ordinary polyvinyl chloride sheathed cord. | $L \leq 1000(3280-5/6)$  | $\geq 2 \times \text{AWG}18$ | 1. If the wire diameter is enlarged to $2 \times \text{AWG}16$ , the total communication length can reach 1500m (4921-1/4ft.).<br>2. The cord shall be Circular cord (the cores shall be twisted together).<br>3. If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire. |

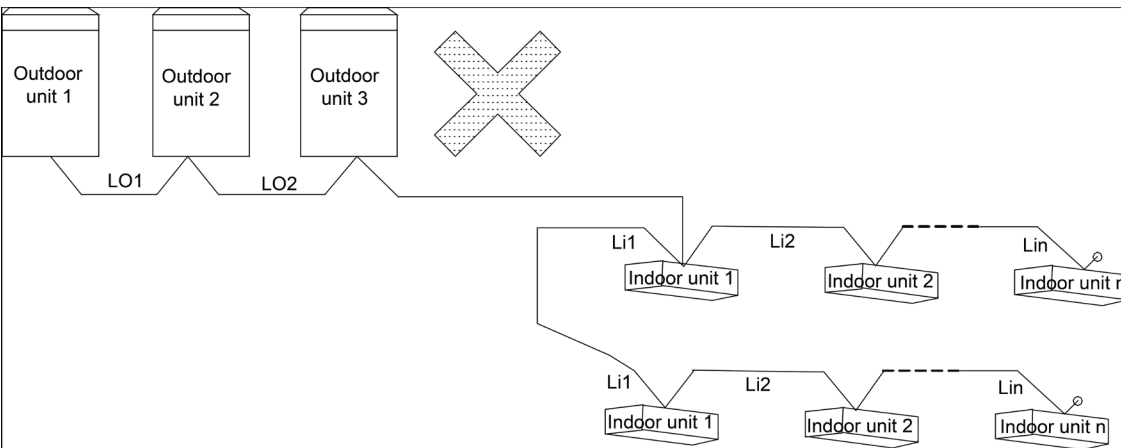
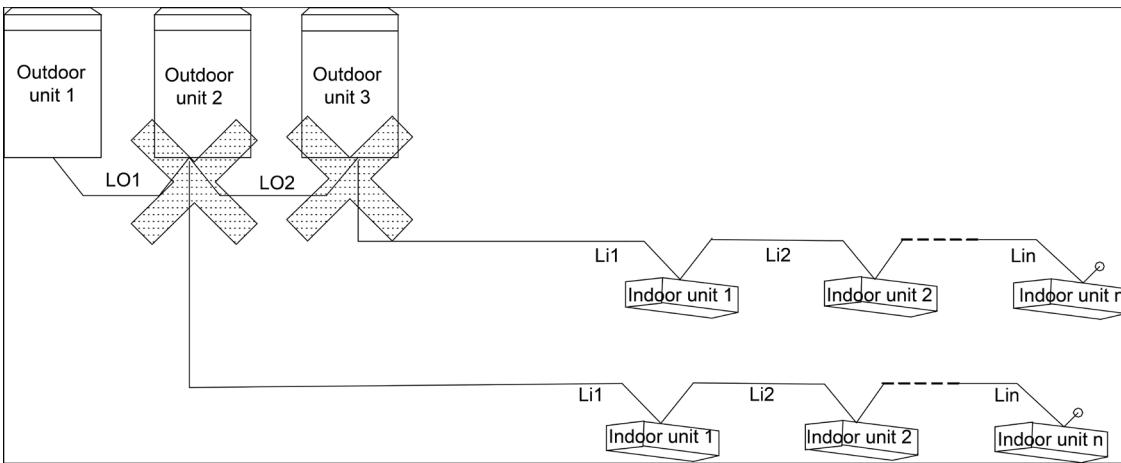
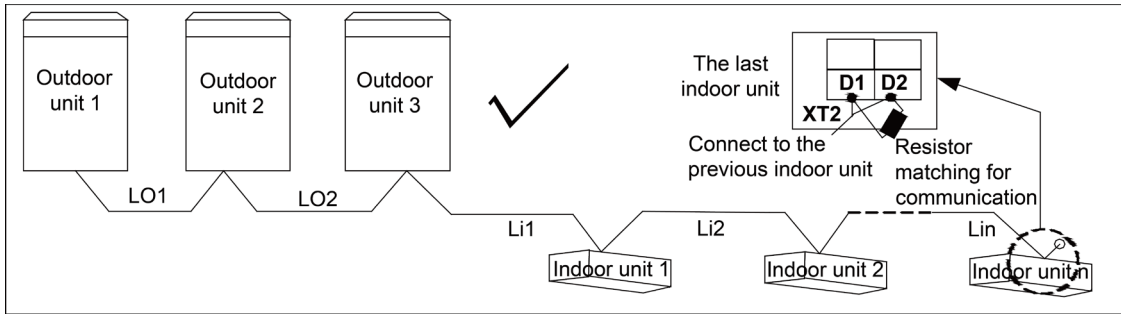
Module selection for the communication cable between the indoor unit and wired controller.

| Material type                                    | Total length of communication line between IDU unit and wired controller L m(ft.) | Wire size  | Remarks   |
|--|---|--|---|
| Light/Ordinary polyvinyl chloride sheathed cord. | $L \leq 250(820-1/5)$   | $2 \times \text{AWG}18 \sim 2 \times \text{AWG}16$ | 1. Total length of communication line can't exceed 250m (820-1/5ft.).<br>2. The cord shall be Circular cord (the cores shall be twisted together).<br>3. If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire. |

**NOTICE:** All of the selected communication wire must be consistent with local laws and regulations.

### 11.2.2 Communication Access Mode

The communication bus of indoor and outdoor units must be connected in series, and star connection is forbidden. The indoor unit at the end of the communication bus for the indoor units and outdoor units must be connected to a communication matching resistor (which is contained in the packing bag of the outdoor unit).

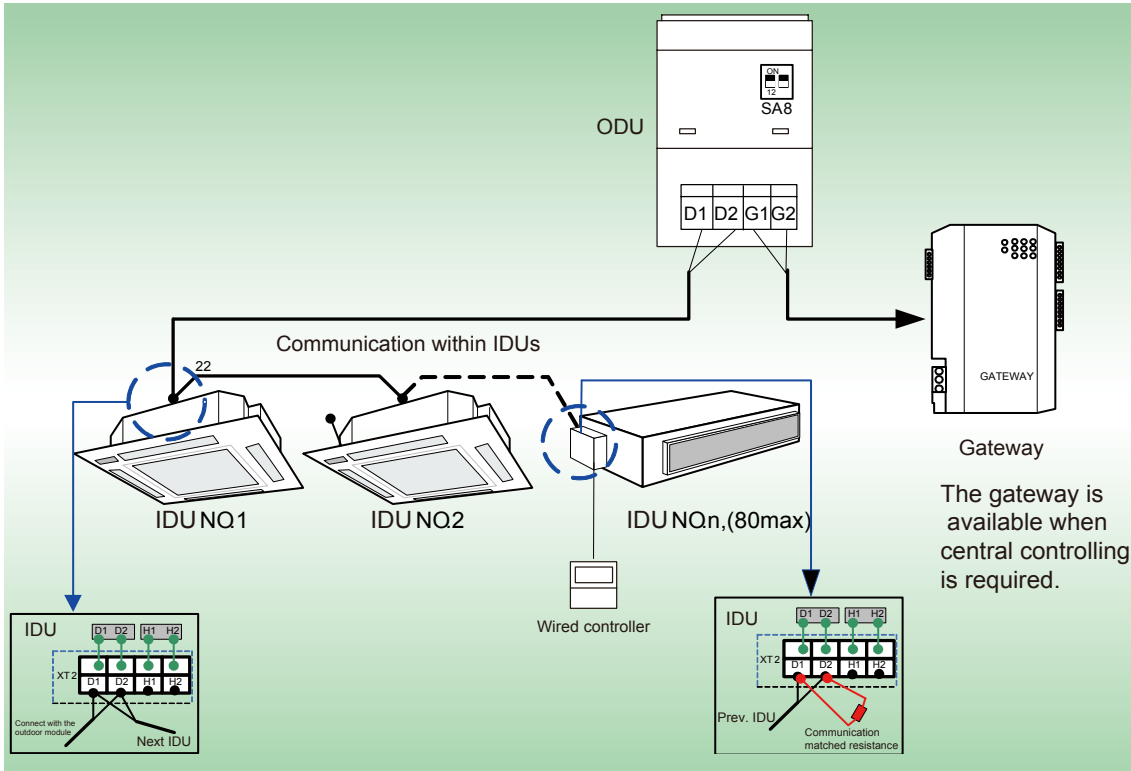


### 11.3 Connection Method and Procedure of Communication Cable

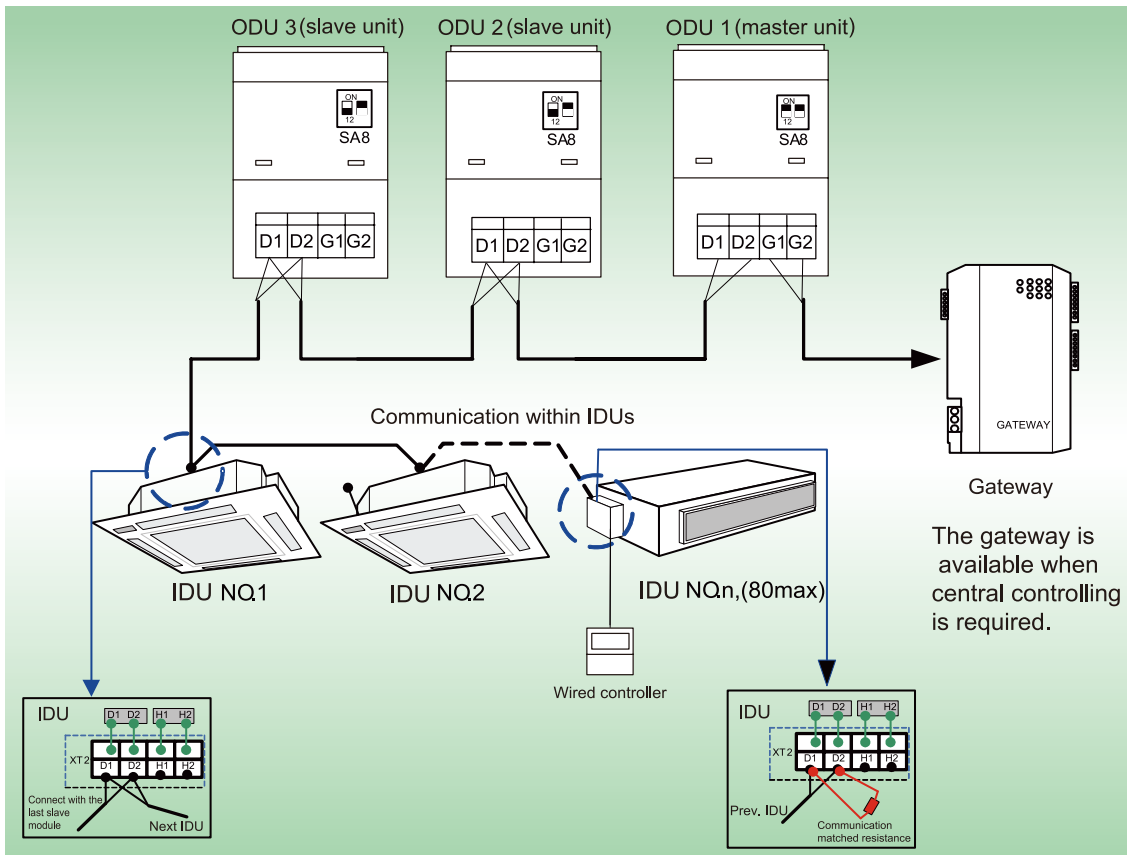
#### 11.3.1 Communication connection between the indoor unit and outdoor unit

The indoor unit is connected to the outdoor unit through the D1/D2 port of the terminal plate XT2. The figures below show the connection method of the single outdoor unit and connection method of the modular outdoor unit.

Communication connection mode of the single module system



Communication connection mode of the multi-module system

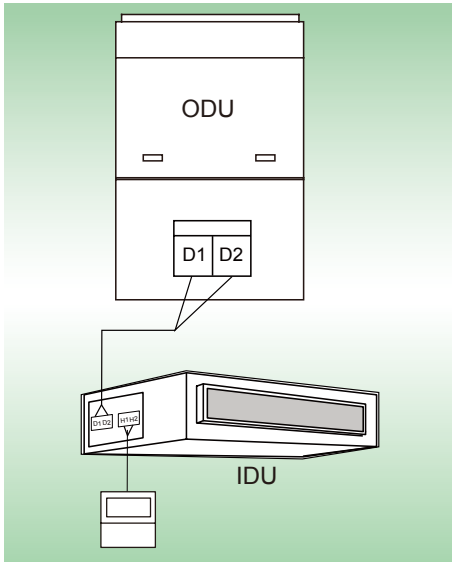


**NOTICES:**

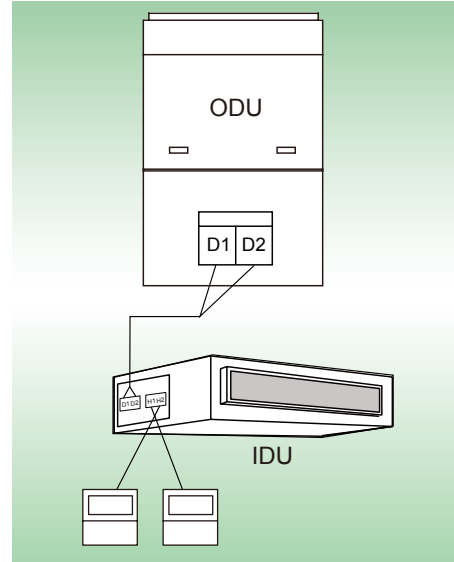
- For the modular outdoor unit, if multiple outdoor unit modules are available, the master unit must be the first outdoor unit module on the communication line and cannot be connected to any indoor unit (the master unit is set by SA8 of the main board for outdoor unit).
- For the modular outdoor unit, if multiple outdoor unit modules are available, the indoor unit must be connected to the last slave module of outdoor unit (the slave unit is set by SA8 of the main board for outdoor unit).
- The communication cable must be wired separately from the power cable to avoid interference.
- A proper length of communication cable must be selected, and no joint is allowed.
- The indoor units must be connected in series, and the last indoor unit must be connected to a communication matching resistor (which is provided in the list of outdoor unit accessories).

## 11.3.2 Communication connection mode between the indoor unit and wired controller

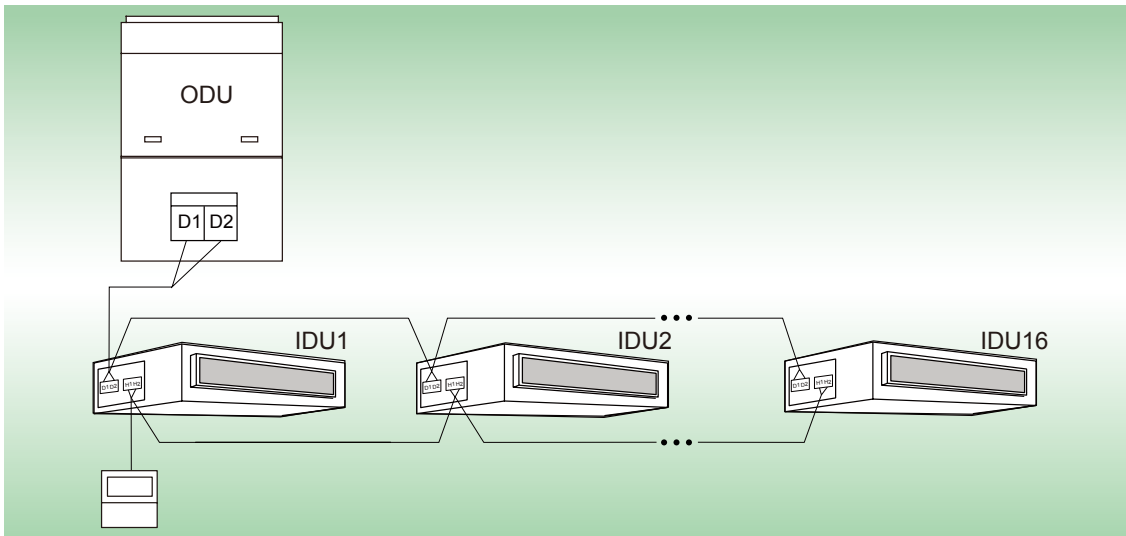
The indoor unit and the wired controller are connected in one of the following four modes, which are respectively shown in Figure below:



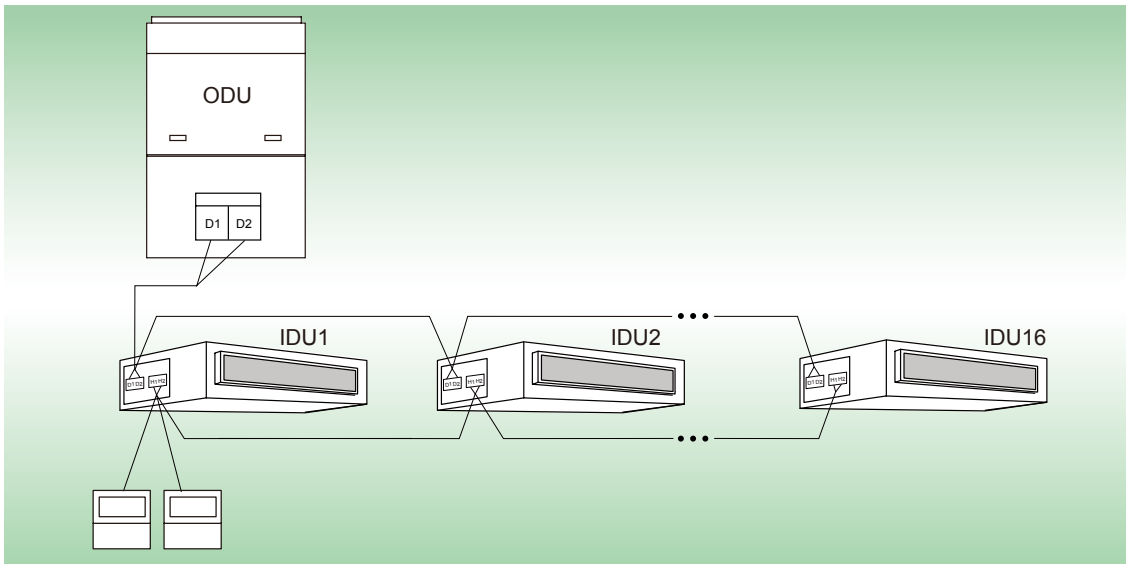
One wire controller controls one indoor unit



Two wire controllers control one indoor unit



One wire controller controls multiple indoor units



Two wire controllers control multiple indoor units

When two wired controllers control multiple indoor units at the same time, the wired controller can be connected to any indoor unit, the connected indoor units must belong to the same series, and only one wired controller must be set to a slave wired controller. The number of indoor units controlled by the wired controllers is not more than 16, and the connected indoor units must be on the same indoor unit network. The slave wired controller can be set in the power-on or power-off status:

- (1) Press and hold the "FUNCTION" button on the wired controller to be set to a slave wired controller for five seconds. The temperature area displays "C00". Continue holding the "FUNCTION" button for five seconds to enter the wired controller parameter setting interface. The temperature area displays "P00" by default.
- (2) Select a P13 parameter code by pressing "▲" or "▼". Press the "MODE" button to switch to parameter value settings. The parameter value blinks. Press "▲" or "▼" to select "02", and then press the "ENTER/CANCEL" button to complete settings.
- (3) Press the "ENTER/CANCEL" button to return to the upper-level menu till quitting parameter settings.

The user parameter setting list is as follows:

| Parameter Code | Parameter Name                    | Parameter Range   | Default Value | Remarks   |
|----------------|-----------------------------------|---|---------------|---|
| P13            | Wired controller address settings | 01: master wired controller<br>02: slave wired controller | 01            | When two wired controllers simultaneously control one or more indoor units, the two wired controllers must use different addresses. The slave wired controller (address: 02) does not have the unit parameter setting function except its own address settings. |

**NOTICES:**

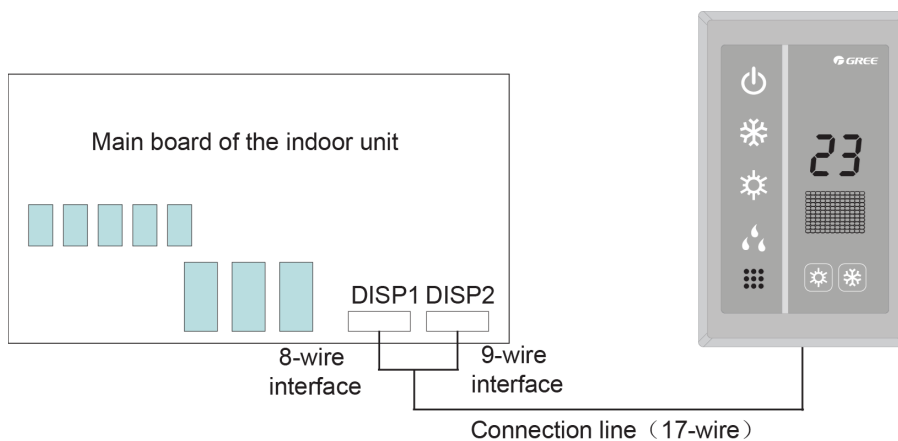
- a. The default factory setting of all the wired controllers is the master wired controller status.
- b. In the parameter setting status, the "FAN", "Timer", "SLEEP", and "SWING" buttons are invalid. By pressing "ON/OFF", you can return to the main interface but will not power on/off the unit.
- c. In the parameter setting status, signals of the remote controller are invalid.



### 11.3.3 Connection mode between the air duct-type indoor unit and receiving LED panel

When the air duct-type indoor unit needs to be connected to a remote receiving LED panel, they are connected through DISP1 and DISP2 of the main board for indoor unit:

| IDU type      | Connection wire          | Main board interface of corresponding IDU                                |
|---------------|--------------------------|--|
| Duct type IDU | Between boards (17-core) | DISP1 (direct to 8-core interface)<br>DISP2 (direct to 9-core interface) |



**NOTES:**

- a. The wired controller and remote receiving LED panel can be used at the same time.
- b. Note to select a remote controller when a remote receiving LED panel is used.

## 12 ELECTRICAL CONNECTION

### 12.1 External Connection Interfaces

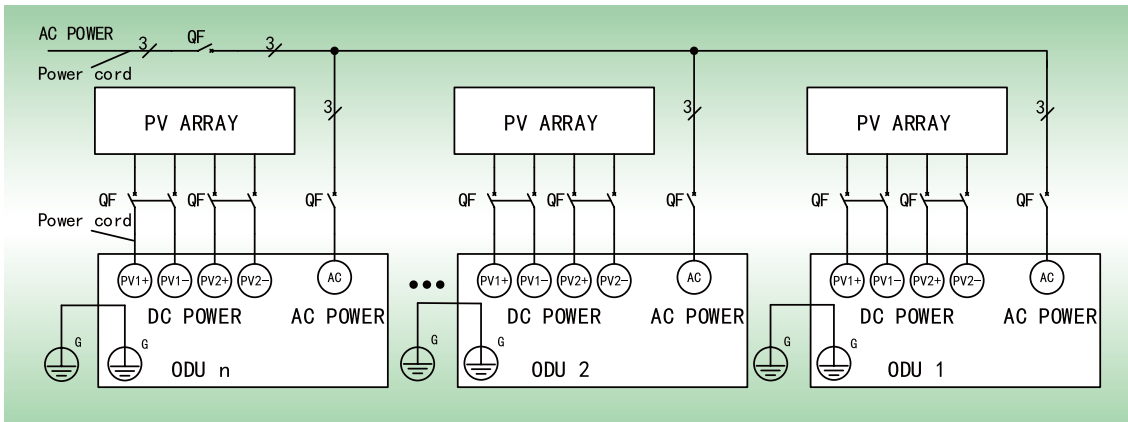
|                                |                                   |          |            |
|--------------------------------|-----------------------------------|----------|------------|
| External connection interfaces | Power supply                      | Quantity | 4          |
|                                |                                   | Label    | L1 L2 L3 G |
|                                | Indoor/outdoor unit communication | Quantity | 2          |
|                                |                                   | Label    | D1 D2      |
|                                | Centralized control               | Quantity | 2          |
|                                |                                   | Label    | G1 G2      |

## 12.2 External Connection

Every unit should be equipped with a circuit breaker for short-circuit and overload protection. In general, circuit breaker is at OFF status.

During operation, all indoor units and outdoor units belonging to the same system must be kept energized status. Otherwise, the unit can't operate normally.

1) External connection diagram of a single unit



### NOTICES:

The maximum outdoor unit quantity "n" is decided by the combination from of outdoor unit.

# 13 Installation of Photovoltaic System

## 13.1 Notice for installation

Improper operation or not following operation instruction may cause safety hazards and serious damage to hardware, or even property loss or personal injury. Please read this manual carefully and follow all safety instructions listed below.

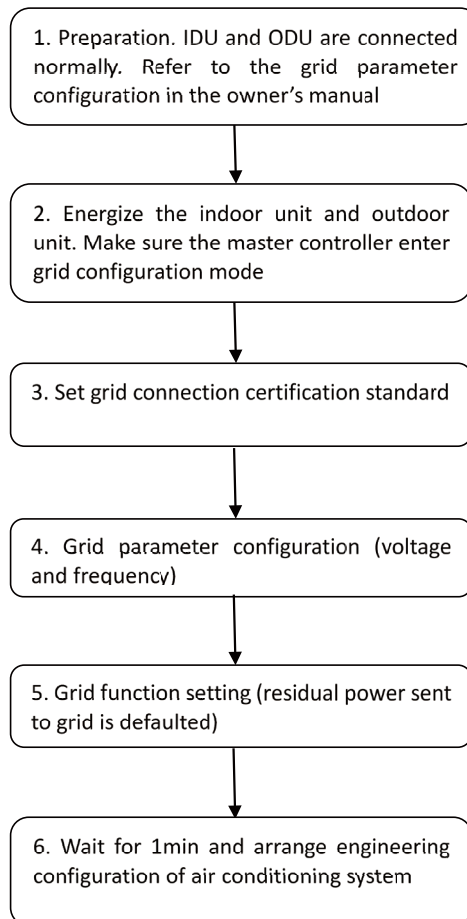
(1) Before installation, please cut off all connections between air conditioner, electric network and photovoltaic. Use the specialized tool (packing materials in the unit) to remove the positive pole and negative pole of photovoltaic input cable; pay attention to the removed photovoltaic input cable terminal to avoid electric shock; do not touch the terminal or conductor connected with the grid and photovoltaic input circuit; any connection point between air conditioner and grid may cause fire hazard or electric shock.

(2) The air conditioner may have unrecoverable damage due to electric discharge of internal component. When operating this device, please follow the static power protection regulation.

(3) Electric shock and fire hazard may cause electric leakage hazard. Before connecting the photovoltaic and grid, please ensure the air conditioner is reliably grounded.

(4) Any operation for this device must be done by relevant professionals; if maintenance of the system is needed, please contact related professionals; pay attention to the safety notice listed in all safety instructions and installation documents.

(5) Grid parameter configuration



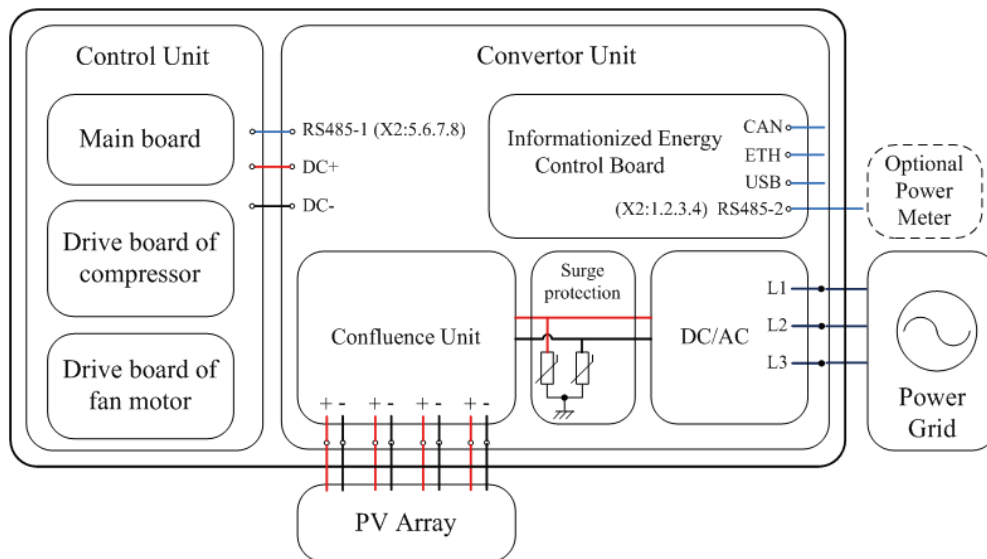
Detailed instructions:

- Step 1: make sure the engineering connection of air conditioning system is normal. Refer to the grid parameter configuration in the owner's manual;
- Step 2: Energize the indoor unit and outdoor unit for the first time. The master controller enters grid configuration selection mode (LED1 function code qp, on);
- Step 3: Under LED1 function code qp status, set grid connection standard;
- Step 4: Under LED1 function code qU status, set grid voltage type (voltage and frequency);
- Step 5: Under LED1 function code qn status, set the function for residual power sending to the grid (residual power sent to grid is defaulted);
- Step 6: setting is done; wait for 1min and arrange configuration and debugging of air conditioning system.

**NOTICES:**

- a. If configuration is not done in initial energization, the unit will stay in standby status and cannot operate normally. For detailed configuration procedures, please refer to related instructions in the owner's manual.
- b. Above configuration shall be done by the professional engineering personnel who is accredited by Gree. Customer shall not change the configuration; otherwise unit malfunction may be caused.

**13.2 Installation project of photovoltaic system**



The system construction is as below. The installation of photovoltaic system mainly includes the installation of Photovoltaic Array and GMV, the lay-out of cable and power device.

**13.2.1 Installation of photovoltaic support bracket**

The photovoltaic support bracket shall be inspected by Party A and professional supervision unit before installation. The material of support shall be aluminium alloy or hot galvanizing steel. During installation, please avoid scratching to the aluminium alloy surface or galvanizing layer. During installation, please place the transition unit (connected with house panel), main keel, subaltern keel (if needed) and other parts separately, and then hang them uniformly. Calculate the correct quantity of each row according to the quantity of photovoltaic support bracket of each row, including the quantity of bolt and other accessories. Firstly, fix the transition unit in the house panel. Secondly, fix the corresponding main keel and subaltern keel (if needed) on it. Then connect each part together with bolt.

Tighten the bolt by hand and then tighten it by manual spanner or electric spanner. Meanwhile, check and adjust the straight degree with nylon wire.

After finishing installation, clear the installation site.

## 13.2.2 Installation of photovoltaic module

The photovoltaic module shall be checked by related department of Party A before using. Common photovoltaic module is shown as below.

Place it carefully during transportation to avoid collision among photovoltaic sub-accessories and among photovoltaic sub-accessories and supports. The photovoltaic sub-accessories shall be placed on the keel and fixed by pressing. Press them properly in order to avoid strong wind and earthquake. Meanwhile, avoid damage to the glass due to pressing. Place the photovoltaic sub-accessories orderly and the wiring box shall be placed on the upper end.



Monocrystalline  
Silicon sub-assy



Multicrystal  
silicon sub-assy



Thin film sub-assy

## 13.2.3 Lay-out of cables

The cables shall be laid orderly. Roll the cable shaft for short distance transportation. The cable educing end shall be at the top of shaft. Reduce attrition with the floor during traction. Install corresponding cable bridge support. Each wire must be straight and cannot be curved.

The cable shall be reserved with sufficient wiring length at the two ends in junction case and DC power cabinet, and stuck with label at the end. The cable shall be protected by steel pipe when crossing the road. The pipe port shall be deburred to avoid cutting the cable during pulling.

During laying wire, make sure the wire size according to the diagram. Before laying, check if the insulation resistance is in normative range with megameter.

The cable shall be protected by HDPE plastic pipe when passing through the photovoltaic sub-assy and junction case. The cable shall be protected by steel pipe when crossing the road. The pipe port shall be deburred to avoid cutting the cable. The bridge support in vertical installation shall be firm with straight line deviation within 0.5cm and cannot damage the inner wall structure.

## 13.2.4 Installation and wiring of power devices

Check the power devices according to devices list, engineering diagram and technical document before installation, in order to check if the devices, their accessories, certificate of qualification, technical document and instruction manual are completed. Please tighten the screw used in installation and check the installation strength.

Installation of : Install it according to the engineering diagram. The cabinet shall be grounded and each cabinet shall be connected with the base separately. Check if all electronic components in the cabinet are in accordance with the principle diagram. Check if the rated voltage and control and operation power voltage are in accordance with the related requirement. Finally, adjust the overcurrent circuit breaker of cabinet, relays and mechanical linkage.

# 14 CALCULATION METHOD OF REFRIGERANT ADDED FOR ENGINEERING PIPING

Outdoor unit has been charged refrigerant before delivery.  
 Charge additional refrigerant for field-installed connecting pipe. If the pipeline is longer than 1m(39-3/8in.), please refer to the following table for charging amount of refrigerant. (Liquid pipe prevails)  
 How much additional refrigerant should be charged.  
 Total refrigerant charging amount R= Pipeline charging amount A +  $\sum$ charging amount B of every module.

(1) Pipeline charging amount

Added refrigerant quantity A for piping =  $\sum$ Liquid pipe length  $\times$  Added refrigerant quantity for each meter(in.) of liquid pipe.

| ---    | Diameter of liquid pipe (mm(in.)) |         |           |            |           |           |           |           |
|--------|-----------------------------------|---------|-----------|------------|-----------|-----------|-----------|-----------|
|        | 28.6(1-1/8)                       | 25.4(1) | 22.2(7/8) | 19.05(3/4) | 15.9(5/8) | 12.7(1/2) | 9.52(3/8) | 6.35(1/4) |
| kg/m   | 0.680                             | 0.520   | 0.350     | 0.250      | 0.170     | 0.110     | 0.054     | 0.022     |
| OZ/in. | 0.61                              | 0.47    | 0.31      | 0.22       | 0.15      | 0.10      | 0.05      | 0.02      |

(2)  $\sum$ Refrigerant charging amount B of every module.

| Refrigerant charging amount B of every module<br>kg(Pounds) |                                 | Rated Capacity(1000Btu/h) |          |          |
|---|---------------------------------|---------------------------|----------|----------|
| IDU/ODU rated capacity<br>collocation ratio C               | Quantity of included<br>IDUs(N) | 72                        | 96       | 120      |
| 50% $\leq$ C $\leq$ 90%                                     | N < 4                           | 0                         | 0        | 0        |
|   | N $\geq$ 4                      | 0.5(1.1)                  | 0.5(1.1) | 0.5(1.1) |
| 90% < C $\leq$ 105%   | N < 4                           | 1(2.2)                    | 1(2.2)   | 1.5(3.3) |
|   | 8 > N $\geq$ 4                  | 2(4.4)                    | 2(4.4)   | 3(6.6)   |
|   | N $\geq$ 8                      | 4(8.8)                    | 3.5(7.7) | 4(8.8)   |
| 105% < C $\leq$ 135%  | N < 4                           | 2(4.4)                    | 2(4.4)   | 2.5(5.5) |
|   | 8 > N $\geq$ 4                  | 4(8.8)                    | 3.5(7.7) | 4(8.8)   |
|   | N $\geq$ 8                      | 4.5(9.9)                  | 4.5(9.9) | 5(11.0)  |

**NOTICES:**

- a. IDU/ODU rated capacity collocation ratio C = Sum of rated cooling capacity of indoor unit / Sum of rated cooling capacity of outdoor unit.
- b. If all of the indoor units are fresh air indoor units, the quantity of refrigerant added to each module is 0kg.
- c. If outdoor air processor is connected with normal VRF indoor unit, adopt the perfusion method for normal indoor unit for perfusion.

For example1:

The OUD is composed of 3 modules: 72kBtu/h, 120 kBtu/h and 120 kBtu/h. The IDUs are made up of 7sets of 48 kBtu/h.

IDU/ODU rated capacity collocation ratio C=  $48 \times 7 / (72 + 120 + 120) = 108\%$ .The quantity of included IDUs is more than 4 sets. Please refer to the above table.

Refrigerant charging amount B for 72kBtu/h module is 4.0kg(8.8pounds).

Refrigerant charging amount B for 120 kBtu/h module is 4.0kg(8.8pounds).

Refrigerant charging amount B for 120 kBtu/h module is 4.0kg(8.8pounds).

So,  $\sum$  Refrigerant charging amount B of every module=4.0+4.0+4.0= 12kg (8.8+8.8+8.8 =26.4pounds).

Suppose the Pipeline charging amount  $A = \sum \text{Liquid pipe length} \times \text{refrigerant charging amount of every 1m (or 1in.) liquid pipe} = 25\text{kg (55.1 pounds)}$   
 Total refrigerant charging amount  $R = 25 + 12 = 37\text{kg (55.1 + 26.4 = 81.5 pounds)}$ .

For example 2:

Outdoor unit is a 72kBTu/h module and the indoor unit is a 72kBTu/h fresh air unit. The quantity (B) of refrigerant added to this module is 0kg (0pounds).

So,  $\sum B$  (Quantity of refrigerant added to each module) = 0kg (0pounds).

Suppose that A (Quantity of refrigerant added to connection pipe) =  $\sum \text{Length of liquid pipe} \times \text{Quantity of refrigerant added to liquid pipe per meter}$  = 5kg (11 pounds).

R (Quantity of added refrigerant in total) =  $5 + 0 = 5\text{kg (11 + 0 = 11 pounds)}$ .

Modular combination of outdoor unit subjects to combinations that is currently available.

After confirming that there is no leakage from the system, when the compressor is not in operation, charge additional R410A with specified amount to the unit through the filling opening of the liquid pipe valve of the outdoor unit. If required additional refrigerant cannot be quickly filled for increase of pressure in the pipe, set the unit at cooling startup and then fill the refrigerant from gas valve of outdoor unit. If ambient temperature is low, the unit can't be set to cooling mode but heating mode.

## 15 PRECAUTIONS ON REFRIGERANT LEAKAGE

(1) Personnel related to air conditioning engineering design and installation operators must abide by the safety requirement for preventing refrigerant leakage specified in local laws and regulations.

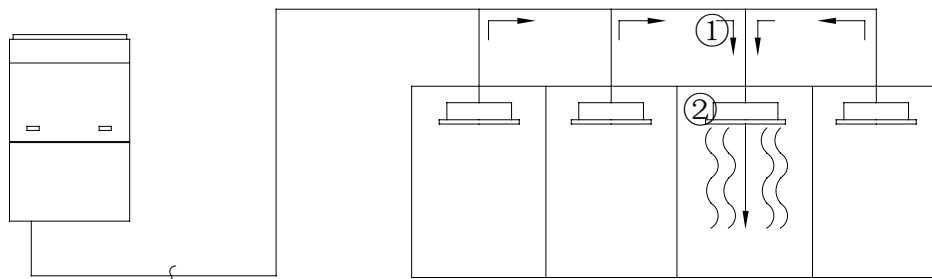
(2) The units adopt the R410A refrigerant, which is nonflammable and nontoxic. However, the space for refrigerant leakage must be sufficient to ensure that the refrigerant concentration does not exceed that specified in the safety requirement; otherwise, people involved can be stifled by the refrigerant. For example the maximum allowed concentration level of refrigerant to a humanly space for R410A according to the appropriate European Standard is limited to  $0.44 \text{ kg/m}^3$ .

The maximum amount of refrigerant (kg) in the system = The volume of the room ( $\text{m}^3$ )  $\times$  The maximum allowed concentration level of refrigerant ( $\text{kg/m}^3$ ).

Total amount of refrigerant (kg) in the system = Total additional charging amount (kg) + Amount of refrigerant (kg) which is charged before leaving the factory (for the system consisting of multiple modules in parallel, the accumulative charge quantity of modules before leaving the factory is used)

Total amount of refrigerant (kg) in the system  $\leq$  The maximum amount of refrigerant (kg) in the system

(3) When the total amount of refrigerant in the system is more than the maximum amount of refrigerant, the cooling system should be designed again. In this case, the cooling system can also be separated into several cooling systems with small capacity, or add corresponding ventilation measures or alarming display.



1) Flow direction of refrigerant leakage.

2) Room for refrigerant leakage. Since the concentration of refrigerant is greater than that of air, pay attention to the spaces where the refrigerant may residue, for example, the basement.

## 16 OPTIONAL COMPONENTS

GREE Photovoltaic Direct-driven Inverter Multi VRF series units provide the following options:

|                                 |              | Model                                    | Remarks  |
|---------------------------------|--------------|--|--|
| Manifold                        | Outdoor unit | ML01/A                                   | For the model selection method, see the part of pipeline selection.  |
|                                 | Indoor unit  | FQ01A/A, FQ01B/A, FQ02/A, FQ03/A, FQ04/A |  |
| Remote receiving LED panel      |              | JS05                                     | Applicable to the air duct-type indoor unit  |
| Remote controller               |              | YAP1F                                    | Duct-type indoor unit Optional (Wall-Mounted indoor unit Standard)   |
| Remote controller for debugging |              | YV1L1                                    | With the debugging function, used to set functions of the indoor unit  |
| Classic wired controller        |              | Wired controller XK46                    | Applicable to the air Cassette, Floor Ceiling, Wall-Mounted indoor unit Optional (duct-type indoor unit Standard)                      |
| Wired controller                |              | Wired controller XK79                    | With the access control function   |
| Wired controller                |              | Wired controller XK86                    |  |
| Color screen wired controller   |              | Wired controller XK55                    |  |
| Centralized controller          |              | CE55-24/F(C)                             | 7 inch capacity touch screen<br>Applicable to Photo-voltaic(PV) multi VRF system<br>Up to 128 indoor units can be centrally controlled |
| Debugging software              |              | DE40-33/A(C)                             | Applicable to the unit of CAN bus communication technology   |

Notice: If you need the above optional components, please consult your local sales company.

## 17 UNIT OPERATING RANGE

|         |                            |
|---------|----------------------------|
| Cooling | -5°C(23°F)~52°C(125.6°F)   |
| Heating | -20°C(-4°F) ~24°C (75.2°F) |

When the indoor units are all VRF fresh air processor, the unit operating range is as follows:

|         |  |
|---------|--|
| Cooling | Ambient temperature: 16°C(60.8°F)~45°C(113°F)    |
| Heating | Ambient temperature: -7°C (19.4°F)~16°C (60.8°F) |

### CAUTION:

Out of the working Temperature Range may damage this products and will invalidate the warranty.





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