

PROJECT NAME:

| | |
|---------------|---------------|
| Location: | Approval: |
| Engineer: | Date: |
| Submitted to: | Construction: |
| Submitted by: | Unit #: |
| Reference: | Drawing #: |

FEATURES AND BENEFITS

VRT Smart Control optimally supply only for the needed capacity of indoor units Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimizes compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each indoor unit. Coordination with the air volume control reduces compressor load and minimizes operation loss based on detailed control. VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

Automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged. This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant. It can also be used again when adding or replacing indoor units or even when changing the layout after installation.

Comfort low operation sound night time quiet operation function for areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions. Large airflow, high static pressure and quiet technology.

Compact design with high performance highly integrated heat exchanger, optimized inner design to ensure smooth airflow, electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance. Sufficient cooling for electrical components High reliability at high ambient temperatures it is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module.

Easy maintenance the electrical components are strategically located on the top which eases the maintenance process. Moreover, the heat exchanger on the front side can be used effectively to improve its performance. Without affecting the fan volume, the electric components are designed to be at the top and this utilizes dead space. This eliminates the problem of suction resistance.

Connection ratio 50% - 200% VRV H series outdoor unit has achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.

Simplified commissioning and after-sales service Simplified commissioning and after-sales service VRV H series utilizes 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed

Wide operation temperature range up to 49°C goes all the way down to -20°C, while cooling can be performed with outdoor temperatures as high as 49°C.

Automatic sequencing operation During start-up, will be automatically enabled to ensure balance operation of each outdoor unit to improve longevity of equipment and operation stability.

EXTERNAL APPEARANCE

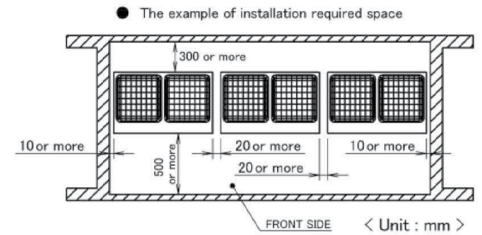
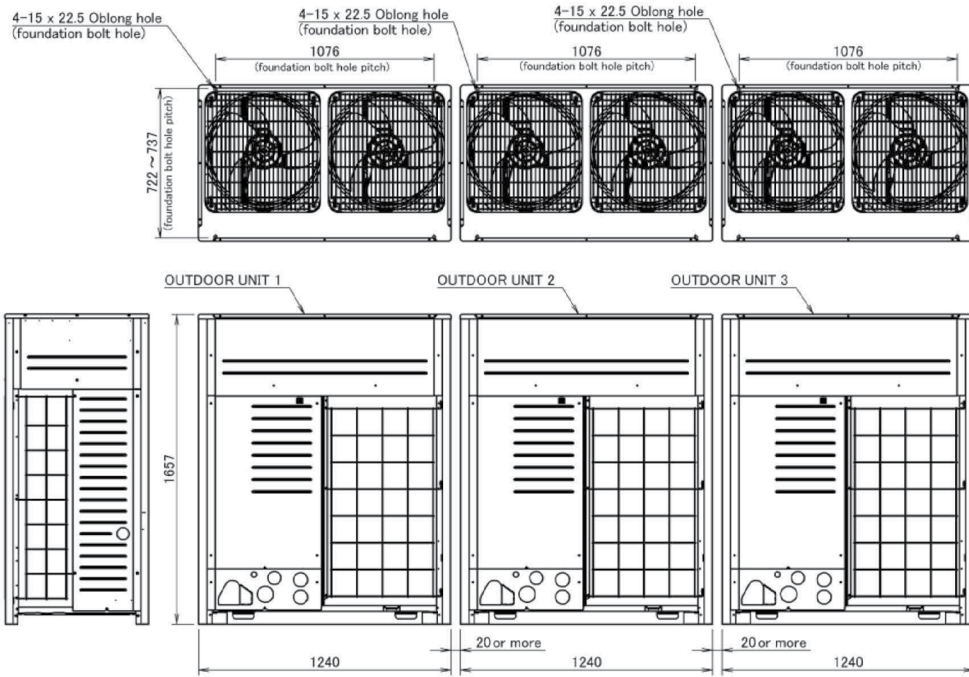
VRV H SERIES



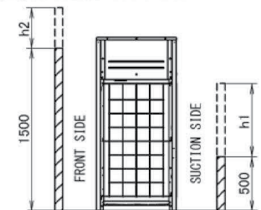
SPECIFICATIONS

| | | | |
|--|-------------------------------|--|--|
| Model Name | | RXYQ54AYMV (RXYQ18AYM+RXYQ18AYM+RXYQ18AYM) | |
| Power supply | | 3 phase, 380-415/380 V, 50/60 Hz | |
| *1 Cooling capacity | kcal/h | 129,000 | |
| | Btu/h | 512,000 | |
| | kW | 150 | |
| *2 Heating capacity | kcal/h | 144 | |
| | Btu/h | 573 | |
| | kW | 168 | |
| Casing colour | | Ivory white (5Y7.5/1) | |
| Dimensions: (HxWxD) | | mm | (1,657x1,240x765)+(1,657x1,240x765)+ (1,657x1,240x765) |
| Heat exchanger | | Cross fin coil | |
| Compressor | Type | Hermetically sealed scroll type | |
| | Motor outputx Number of units | kW | (4.1x1)+(4.0x1)+(4.1x1)+(4.0x1)+ (4.1x1)+(4.0x1) |
| | Starting method | | Soft start |
| Fan | Type | Propeller fan | |
| | Motor output | kW | (0.75x2)+(0.75x2)+(0.75x2) |
| | Airflow rate | m ³ /min | 252+252+252 |
| | Drive | | Direct drive |
| Connecting pipes | Liquid pipe | mm | f19.1 C1220T (Brazing connection) |
| | Gas pipe | mm | f41.3 C1220T (Brazing connection) |
| Mass | | kg | 305+305+305 |
| *3 Sound pressure level | | dB(A) | 66 |
| Safety devices | | High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector | |
| Capacity control | | % | 3-100 |
| Refrigerant | Refrigerant name | | R410A |
| | Charge | kg | 11.8+11.8+11.8 |
| | Control | | Electronic expansion valve |
| Refrigerator oil | | Refer to the nameplate of compressor | |
| Standard accessories | | Installation manual, Operation manual, Connection pipes, Clamps | |
| Drawing No. | Specifications | | — |
| | Sound level | | — |
| Notes: | | | |
| *1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m. | | | |
| *2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m. | | | |
| *3. Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. | | | |
| During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. | | | |
| When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures. | | | |

DIMENSIONS



- Note:
- For the wall height of the example for this installation required space area, Front side: 1500 mm, Suction side: 500 mm. Lateral side: No height limitation. This installation required space example has the standard of cooling operation at outdoor unit air temperature 35°C. In case the temperature is over 35°C of designed outdoor air temperature, or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
 - In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
 - When installation, select the most suitable pattern of installation service space adapt to field space by considering pathway, ventilation.
 - For front side space, make sure to install by considering the necessary space for refrigerant piping construction at the field.



| SYSTEM NAME | OUTDOOR UNIT1 | DWG. No. | OUTDOOR UNIT2 | DWG. No. | OUTDOOR UNIT3 | DWG. No. |
|-----------------------|---------------|----------|---------------|----------|---------------|----------|
| RXYQ46AYM (A) (V) (N) | RXYQ16AYM | 3D111515 | RXYQ16AYM | 3D111515 | RXYQ14AYM | 3D111515 |
| RXYQ48AYM (A) (V) (N) | RXYQ16AYM | 3D111515 | RXYQ16AYM | 3D111515 | RXYQ16AYM | 3D111515 |
| RXYQ50AYM (A) (V) (N) | RXYQ18AYM | 3D111515 | RXYQ16AYM | 3D111515 | RXYQ16AYM | 3D111515 |
| RXYQ52AYM (A) (V) (N) | RXYQ18AYM | 3D111515 | RXYQ18AYM | 3D111515 | RXYQ16AYM | 3D111515 |
| RXYQ54AYM (A) (V) | RXYQ18AYM | 3D111515 | RXYQ18AYM | 3D111515 | RXYQ18AYM | 3D111515 |
| RXYQ56AYM (A) (V) | RXYQ20AYM | 3D111515 | RXYQ18AYM | 3D111515 | RXYQ18AYM | 3D111515 |
| RXYQ58AYM (A) (V) | RXYQ20AYM | 3D111515 | RXYQ20AYM | 3D111515 | RXYQ18AYM | 3D111515 |
| RXYQ60AYM (A) (V) | RXYQ20AYM | 3D111515 | RXYQ20AYM | 3D111515 | RXYQ20AYM | 3D111515 |

Unit: mm
3D115092