

Cooling Only 50/60 Hz

Exceeding Boundari Innovative Energy Sa



New

First launched in Japan in 1982, the Daikin VRV by world markets for over 35 years. Now, Daikin the new VRV X and A series. By combining the tech VRV, VRT and VAV, we have attained both energy comfortable air conditioning.

VRV+VRT

URU
X SERIES / A SERIES



Energy savings

Uniting **VRV**, VRT and VAV technologies

Automatic refrigerant charge function

- Optimised operation efficiency
- Higher installation quality
- Easier installation

es with vings

system has been embraced proudly introduces nologies of savings and

+VAV

Contents

| Background of <i>VRV</i> development | | 3 |
|--------------------------------------|----|----|
| VRV User Benefits | | 5 |
| VRV X Series | | 7 |
| Main Features | | |
| Excellent Operational Performance | 11 | |
| Flexible System Design | 15 | |
| Outdoor Unit Lineup and Combinations | 19 | |
| Indoor Unit Lineup | 21 | |
| Specifications | 23 | |
| Option List | 25 | |
| Daikin Engineering Supports | | 26 |

High reliability

- New inverter PC board
- •Double backup operation
- •Refrigerant cooling for PC board



Along with environmental-friendly manufacturing process, this printing media is printed using soy-ink. The overall production helps to reduce Kg.CO2eq to turning off 205 light bulbs in one day for more information www.greenlifeprintin.com

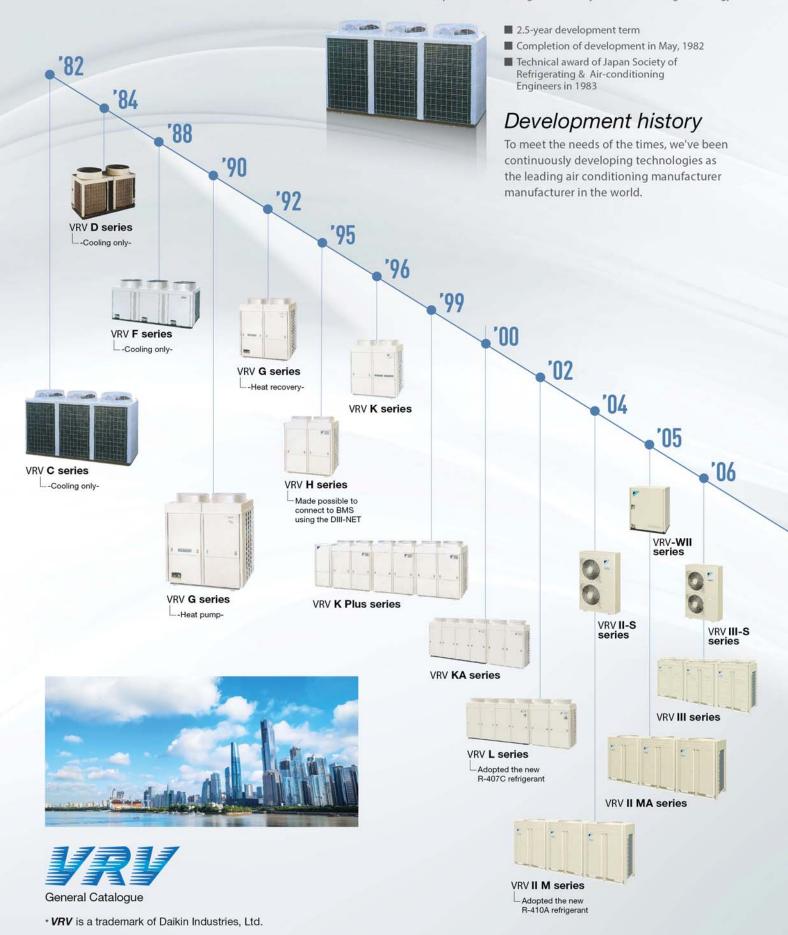


VRV is a trademark of Daikin Industries, Ltd.

The 1st Generation

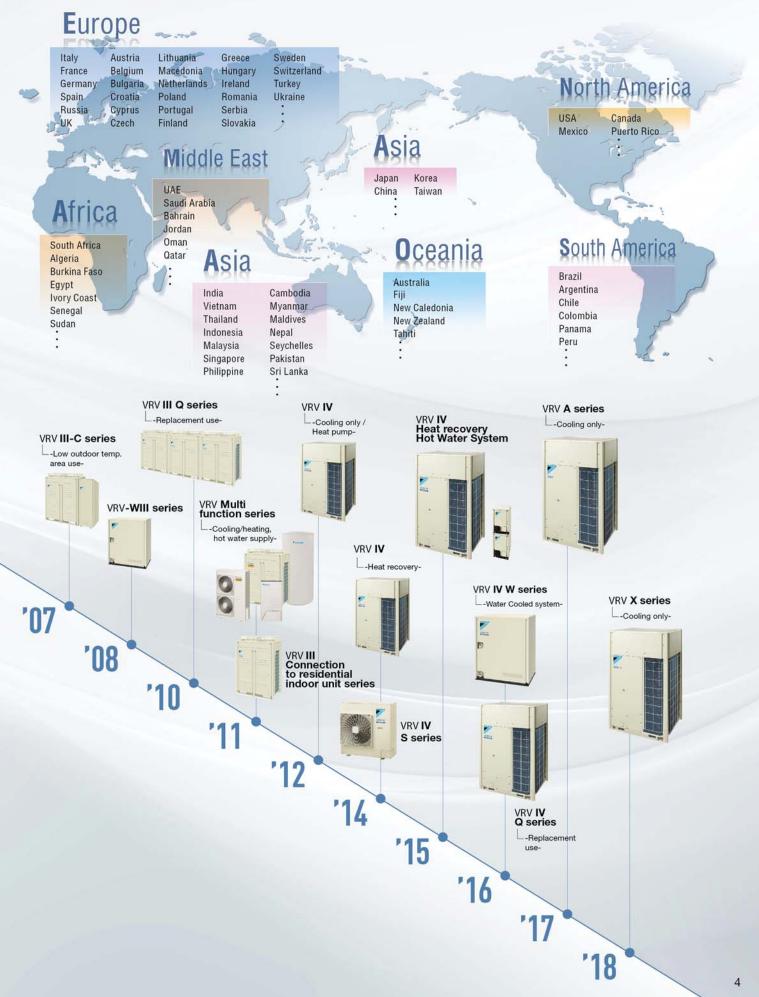
VRV series released in 1982

<The birth of innovative products that changed the history of air conditioning technology>



Expansion of the country of sale

Sales is undergoing in more than 70 countries



VRV User Benefits



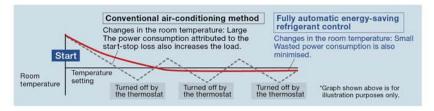
First launched in 1982, the Daikin *VRV* system has been providing comfort and reliability to building owners and their tenants for over 35 years. Leveraging the latest in energy-saving technology, Daikin has further improved energy savings while reducing space requirements. This added value is one reason why Daikin is the right choice for building owners.

Energy saving & comfortable environment

Based on the idea of using only as much space as absolutely required, Daikin first launched its commercial multi-split air conditioning systems in 1982. Since then, customers have benefitted from much increased energy efficiency. Now, our revolutionary new systems dramatically reduce energy with VRT Smart Control. During operating periods, control programs ensure thermal loading is generally low, thus boosting energy efficiency. This greatly reduces the amount of energy required for building air conditioning.

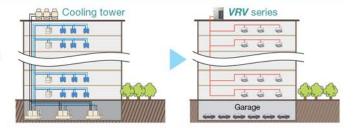
While optimally operating at low load, it maintains a comfortable indoor environment.





Efficient space utilisation

Daikin **VRV** system can be used to develop a large-scale air conditioning system on a single refrigerant system, thus reducing the space required for air conditioning equipment. Because the difference in height between the indoor and the outdoor unit can be as large as 90 m, even with a 20-storey building all of the outdoor units can be placed on the rooftop for more efficient utilisation of space.



High reliability

Double backup operation

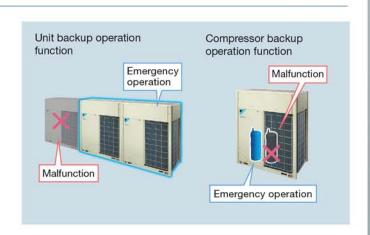
Daikin **VRV** outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

Unit backup

Should one outdoor unit in a multiple unit system fail, the other outdoor units switch to emergency operation. If for some reason a failure occurs, the system for that unit does not completely stop, and air conditioning is maintained.

Compressor backup

Since units are equipped with two compressors, even if one compressor fails, the other compressor carries on in emergency mode.





Comfortable environment

While operating optimally at low load, VRT smart operation maintains the indoor temperature and ensures a comfortable environment.



Residential Indoor Units

Because indoor units developed for residential use can be connected, it is possible to realise quiet operation.

You can include indoor units that operate at min.19 dB(A), and to reduce the noise of refrigerant passing through the piping by remotely installing an BP unit.



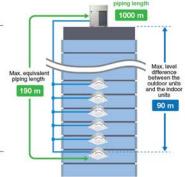


Varied lineup of models

System applications range from family residences to large commercial buildings. With 26 types of indoor unit available, comfortable airflow is ensured in every space.

Long piping provides more flexible system design

Greater design freedom is provided because equivalent piping between indoor and outdoor unit can run as large as 190 m and reach a maximum height difference of 90 m.



Compatible with engineering software

We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.

Energy efficient

Daikin's innovative energy-saving technology helps you to achieve your green building solution.







Automatic Refrigerant Charge Function

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging. Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

Lightweight and compact large-capacity single units

Systems can be configured with single modules providing up to 20 HP. The lightweight and compact bodies are both easy to install and can be transported in elevators.

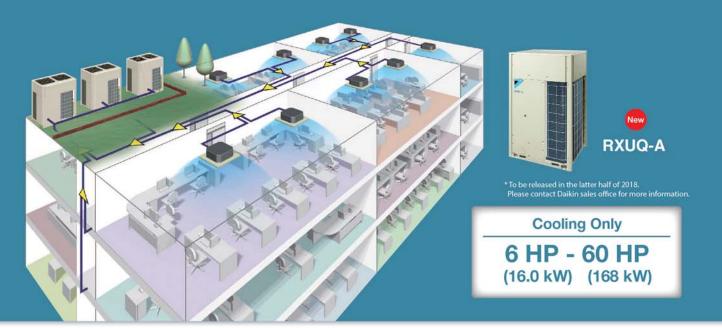
Simple piping, easy wiring

The REFNET piping system and DIII-NET system simplify refrigerant piping and control wiring installation.



VRV X SERIES

New Heights in Energy



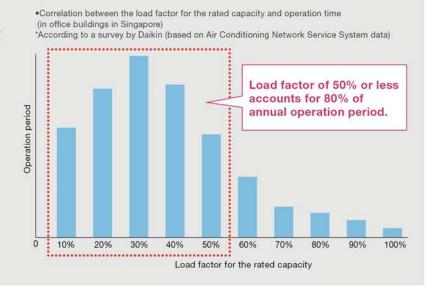
Greater energy savings during low-load operation

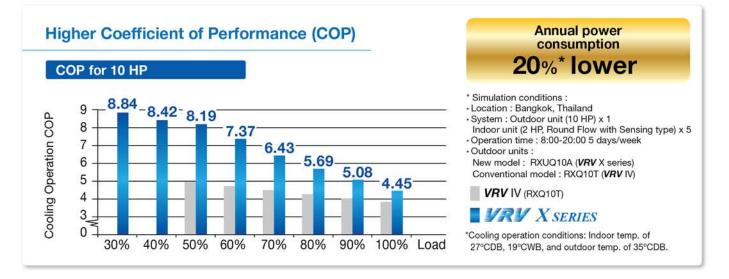
The key to innovative energy savings is to increase efficiency during low-load operation.

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.

This inspired us to develop new technologies to enhance energy efficiency during low-load operation.

Utilising these technologies, Daikin's new **VRV** X series raises the standard of energy efficiency.





Efficiency During Actual Operation



Advanced technologies for greater energy savings



By uniting advanced software and hardware technologies for greater energy savings during actual operation and combining the technologies of VRV, VRT and VAV, we have attained both energy savings and comfortable air conditioning.

VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

Software technology

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 optimises 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 minimises operation loss based on detailed control, VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

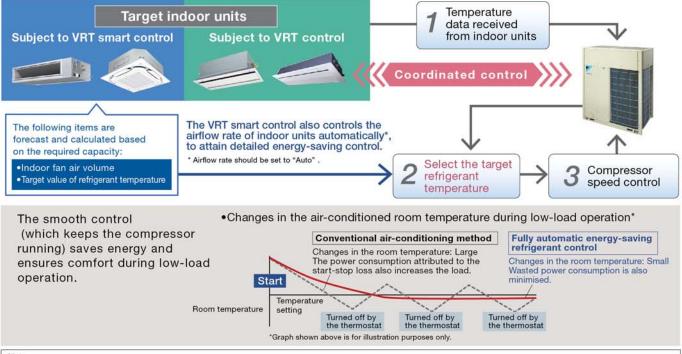




VRT Smart Control Function movie

Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.



•For the classification of indoor units (VRT smart control and VRT control), refer to page 25–26.
•If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
•If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Optimum utilisation of VRT Smart Control and VRT Control

Effectiveness can be demonstrated for VRT Smart Control and VRT Control when all the indoor units operate under low load conditions in a similar manner.

Low load conditions are the time when room temperature approaches set temperature.

For this reason, please note the following to maximise energy efficiency.

When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions.

Energy efficiency decreases for the installation patterns shown below.

Example:

- 1) A load imbalance occurs because an indoor unit in the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- Different operating hours for indoor units.

Time of Use

- 1. Energy efficiency decreases when the set temperature of a specified indoor unit is excessively lowered during cooling operation.
- The airflow rate setting is set to "Auto" during VRT Smart Control.

New Heights in Energy Efficiency During

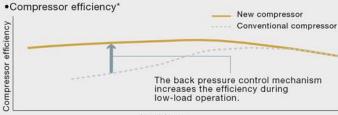
New Scroll Compressor

Available on

Hardware technology

Refrigerant leakage is minimised during low-load operation.

Operation loss due to refrigerant leakage is reduced by the proprietary back pressure control mechanism to ensure stable low-load operation.



Back pressure control mechanism -

Conventional mechanism

The movable scroll is pressed by the pressure difference between high and low pressures.

The force pressing the movable scroll decreases during low-load operation, resulting in compression leakage from movable parts.



The force pressing the movable scroll decreases during low-load operation.

New intermediate pressure mechanism

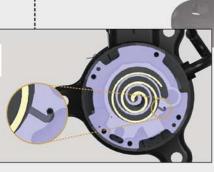
The force pressing the movable scroll is optimised according to operating conditions. The behavior of the movable scroll has been stabilised to increase efficiency during low-load operation.



The intermediate pressure keeps pressing the movable scroll during low-load operation.

Intermediate pressure adjustment port

The intermediate pressure (back pressure) optimises the force pressing the movable scroll depending on the operating condition.





New Scroll Compressor



^{*}Graph shown above is for illustration purposes only.



Advanced oil temperature control

Standby power consumption is reduced

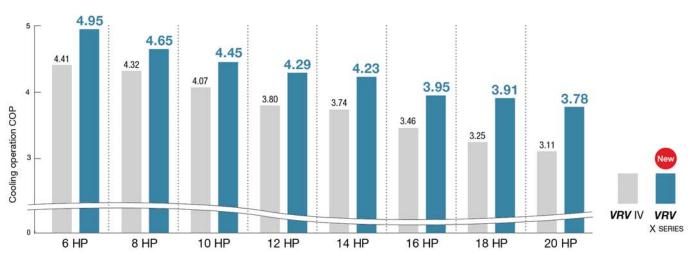
The advanced oil temperature control reduces standby power consumption by up to 65.4%* annually compared to conventional models. Standby power needed for preheating refrigerator oil, which consumed substantial standby power, was reduced to save energy when the air conditioner is stopped.

* Operation calculation conditions: *VRV* X series 14 HP Location: Singapore

Operation time: 08:00-18:00 on weekdays

Higher efficiency is provided during rated operation.

COP at 100% operation load



Cooling operation conditions : Indoor temp, of 27°CDB, 19°CWB, and outdoor temp, of 35°CDB.

Extensive product lineup

•The *VRV* X series achieves higher efficiency in a design that is more compact and lightweight than the *VRV* IV High-COP type, and the capacity of the lineup has been further expanded. (12 HP−50 HP → 6 HP−60 HP)



| Lineup | | | | | | | | | | | | | | | | | | | | | | | | | | | N | ew lir | neup |
|--------------|----------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|--------|------|
| HF | , | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
| | Single outdoor units | | • | 0 | 0 | 0 | • | 0 | • | | | | | | | | | | | | | | | | | | | | |
| VRV X SERIES | Double outdoor units | | | | • | 0 | • | | • | | • | • | • | • | | • | 0 | • | • | | | | | | | | | | |
| | Triple outdoor units | | | | | | | 0 | | | | | | | | | | | | | 0 | | • | 0 | • | | • | | |

Excellent Operational Performance

Automatic refrigerant charge function

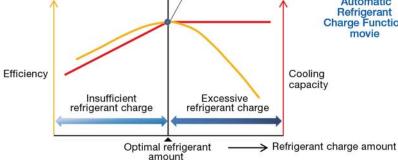
Contribute to optimised operation efficiency, higher quality and easier installation

Optimised Operation

Refrigerant **Charge Function**

Optimised operation efficiency

The 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.



Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging.

Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

VRV IV

5 Recalculate refrigerant Charge refrigerant Complete by manually Calculate necessary Regularly check refrigerant refrigerant amount from amount from final weight on weighing scale closing valves when proper design drawing installation drawing weight is reached

VRV X SERIES 3 Calculation of necessary Pre-charge of refrigerant* Start of automatic refrigerant charge operation refrigerant amount from design drawing unnecessary

Even if a refrigerant leak occurs from local piping after installation, the proper refrigerant amount can still be charged without needing to calculate the necessary amount.

Starting the automatic refrigerant charge operation again will ensure that optimum operation efficiency and installation quality are maintained.

Automatic completion by proper refrigerant amount

Monitoring refrigerant charging is

No recalculation of charge amounts due to minor design changes locally

*Pre-charge amount changes according to conditions, and pre-charging is unnecessary when necessary refrigerant amount is 4 kg and under.

Please refer to Engineering Data Book for details.

High reliability

New inverter PC board

The control functions of inverter technology have been integrated on printed circuit boards. As well as improving reliability, this has reduced the number of parts and enabled downsizina.

- New waveform control improves tolerance of variations in power supply voltage. Even if the power supply has irregularities, rises in current are suppressed and operation
- · Durability of the inverter printed circuit board improved by changing the electrolytic capacitors for the compressor to film capacitors.







Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

Sound level (dB(A))

| | 6 HP | 8/10 HP | 12 HP | 14/16 HP |
|--------------|------|---------|-------|----------|
| VRV X SERIES | 54 | 56 | 58 | 59 |

Large airflow, high static pressure and quiet technology

Advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.

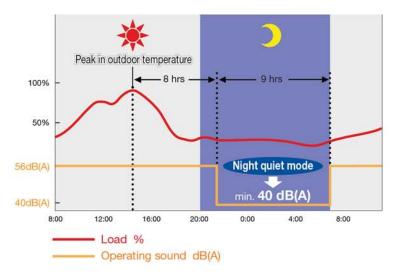


Nighttime quiet operation function

For areas where there are stringent limitations to sound levels, the outdoor unit sound level can be reduced during the nighttime, to meet the requirement.

The automatic night quiet mode will initiate 8 hours*1 after the peak temperature is reached in the daytime, and normal operation will resume 9 hours*2 after that.

- *1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
- *2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
- *3. In case of 10 HP outdoor unit.



Note:

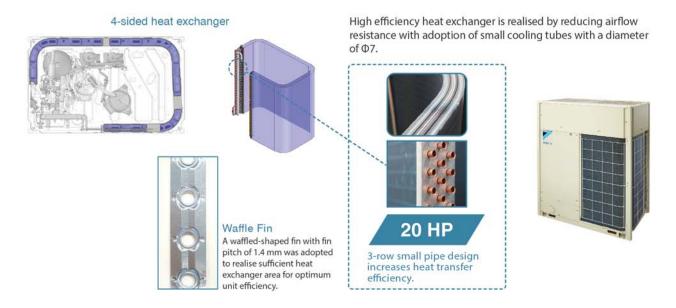
- · The night quiet mode lowers operating sound by reducing capacity. This function is available in setting at site.
- The operating sound in quiet operation mode is the actual value measured by our company.
- Because priority is given to protection mode, such as for oil recovery, the operating sound may become higher temporarily.
- · The relationship of outdoor temperature (load) and time shown above is just an example.

Refined Design Meets Advanced

Realising compact technology with performance

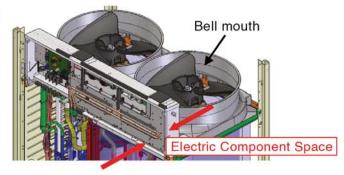
Highly integrated heat exchanger

The unique 4-sided all round heat exchanger ensure sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.



Optimised 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.



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.



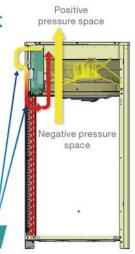
Technologies



Sufficient cooling for electrical component

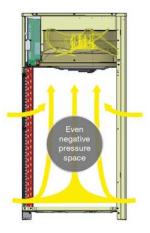
The VRV X series is designed with the electrical box strategically positioned between a region of positive and negative pressure. This design allows large airflow from negative pressure to positive pressure due to the high pressure difference.

> High pressure since air enters near the fan blower inlet



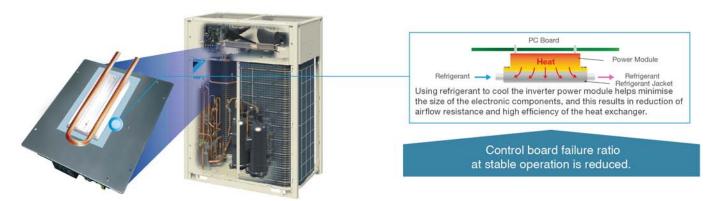
Eliminate suction resistance issue

Without affecting the fan volume, the electric components are designed to be at the top and this ulitises dead space. This eliminates the problem of suction resistance.



High reliability at high ambient temperature

It is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module. This helps maintain air-conditioning capacity and reduces failure ratio.



Outer Rotor DC Motor (ODM)

Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.

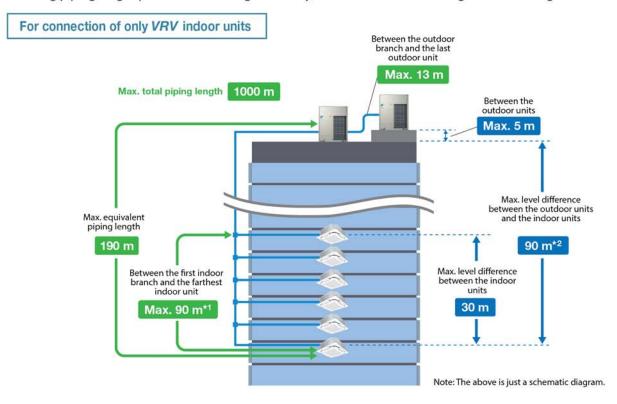
Advantages of ODM ODM Thanks to large diameter of the rotor, (1) Large torque with same electromagnetic force Roto 2 Stable rotation in all range, and can be Conventional Motor operated with small number of rotations MORE

Flexible System Design

More options for installation location

Long piping length

The long piping length provides more design flexibility, which can match even large-sized buildings.



| | Actual piping length (Equivalent) | 165 m (190 m) |
|------------------------------------|---|---------------|
| | Total piping length | 1000 m |
| Maximum allowable piping length | Between the first indoor branch and the farthest indoor unit | 90 m*1 |
| | Between the outdoor branch and the last outdoor unit (Equivalent) | 10 m (13 m) |
| | Between the outdoor units (Multiple use) | 5 m |
| Maximum allowable level difference | Between the indoor units | 30 m |
| | Between the outdoor units and the indoor units | 90 m*² |

^{★1.} No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV X series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%-200%

Connection ratio =

Total capacity index of the indoor units

Capacity index of the outdoor units

Conditions of VRV indoor unit connection capacity

| Applicable VRV indoor units | FXDQ, FXSQ, FXMQ-PA, FXAQ, FXB(P)Q models | Other VRV indoor unit models*1 |
|---------------------------------------|---|--|
| Single outdoor units | | 200% |
| Double outdoor units | 200% | 160% |
| Triple outdoor units | | 130% |

^{*1} For the FXF(S)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.

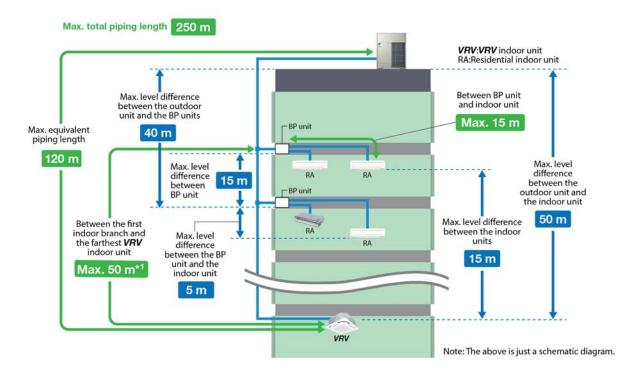
^{*2.} When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.

^{*}Refer to page 24 for outdoor unit combination details.



For mixed combination of VRV and residential indoor units



When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected

| | Actual piping length (Equiv | alent) | 100 m (120 m) |
|-------------------|------------------------------------|---|---------------|
| | Total piping length | | 250 m |
| | | If indoor unit capacity index < 60. | 2 m-15 m |
| Maximum allowable | Between BP unit and indoor unit | If indoor unit capacity index is 60. | 2 m-12 m |
| piping length | | If indoor unit capacity index is 71. | 2 m-8 m |
| | | nch and the farthest BP unit or anch and the farthest VRV indoor unit | 50 m*¹ |
| | Between outdoor unit and t | he first indoor branch | 5 m |
| | Between the indoor units | | 15 m |
| | Between BP units | | 15 m |
| Maximum allowable | Between the outdoor unit | If the outdoor unit is above. | 50 m |
| level difference | and the indoor unit | If the outdoor unit is below. | 40 m |
| | Between the outdoor unit a | nd the BP unit | 40 m |
| | Between the BP unit and the | e indoor unit | 5 m |

- ★1. If the piping length between the first indoor branch and BP unit or VRV indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or VRV indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.
 - *When a mixed combination of **VRV** and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 50% to 130%. Refer to page 24 for outdoor unit combination details.

High external static pressure

VRV X series outdoor unit has been 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.

78.4 Pa

- More options in the opening/angle of louvre
- Outstanding heat dissipation effect in both hierarchical and intensive arrangement



Reliable and Stable System

More accurate test operation and stable system

Efficient automatic test operation

Daikin **VRV** X series incorporates a simplified and efficient test operation function, not only greatly accelerating the installation process, but effectively improving the field setting quality as well.

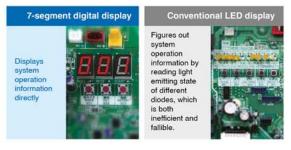
- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

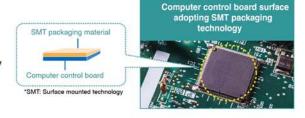
VRV X series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.



Advanced control main PC board

SMT* packaging technology

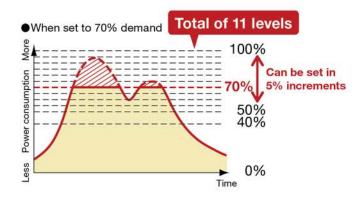
- SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effect of sandy and humid weather.



I-demand function

Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

*Set on the circuit board of the outdoor unit.



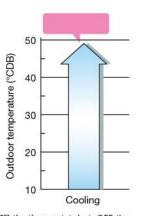
Wide operation temperature range up to 49

The versatile operation range of the *VRV* X series works to reduce limitations on installation locations.

The operation temperature range for cooling can be performed with outdoor temperatures as high as

This enables reliable operation even under high temperature conditions.

49°C.



Note: When outdoor temperature falls below 10 $\overline{\omega}$, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.

Automatic sequencing operation

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

Stage 1 Stage 2 Stage 3

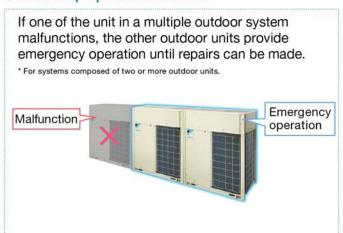


Double backup operation functions

Daikin **VRV** X series outdoor unit boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double backup operation functions even if failure occurs in a set of air conditioning equipment.

In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function



Compressor backup operation function

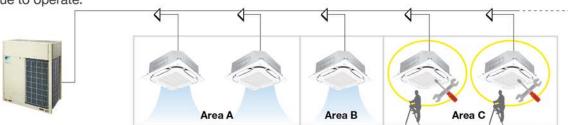
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (The capacity is saved during backup operation.)

* For a single outdoor unit system RXUQ14-20AY1S models. On-site settings are required using the printed circuit board of the outdoor unit.



Ease of Maintenance

VRV X series provides maintenance feature* which allows the shutdown of indoor unit without shutting down the whole *VRV* system. This feature comes in handy during maintenance period as the remaining indoor units continue to operate.



^{*} Field setting is required.

This feature does not apply to residential indoor unit connection and is not applicable for all situations. For more information, please contact Daikin sales office.

Outdoor Unit Lineup

VRV X Series Outdoor Units

The outdoor unit capacity is up to 60 HP (168 kW) in increment of 2 HP.

- VRV X series outdoor unit offers a high capacity of up to 60 HP, responding to the needs of large-sized building.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met.

| Lineup | | | | | | | | | | | | | | | | | | | | | | | | | | (| N | ew li | neup |
|---------------------|----------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|
| HF |) | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
| | Single outdoor units | • | 0 | • | • | 0 | • | | • | | | | | | | | | | | | | | | | | | | | |
| VRV X SERIES | Double outdoor units | | | | 0 | 9 | | • | • | 0 | • | 0 | • | 0 | 0 | | • | 0 | • | | | | | | | | | | |
| | Triple outdoor units | | | | | | | 0 | • | | | | | | | | | | | • | • | • | | • | • | • | • | • | • |

Single Outdoor Units

6,8 HP 10, 12, 14, 16, 18, 20 HP



22, 24, 26, 28, 30, 32, 34, 36, 38, 40 HP









RXUQ6AY1S RXUQ8AY1S

RXUQ10AY1S RXUQ12AY1S RXUQ14AY1S RXUQ16AY1S RXUQ18AY1S RXUQ20AY1S

RXUQ12AMY1S RXUQ14AMY1S RXUQ16AMY1S

RXUQ18AMY1S RXUQ20AMY1S

RXUQ22AMY1S RXUQ32AMY1S RXUQ34AMY1S RXUQ24AMY1S RXUQ26AMY1S RXUQ36AMY1S RXUQ28AMY1S RXUQ38AMY1S RXUQ30AMY1S RXUQ40AMY1S

Triple Outdoor Units

18, 20 HP



RXUQ18AM1Y1S RXUQ20AM1Y1S

42, 44, 46, 48, 50, 52, 54, 56, 58, 60 HP



RXUQ42AMY1S RXUQ44AMY1S

RXUQ50AMY1S RXUQ52AMY1S

RXUQ58AMY1S RXUQ60AMY1S

RXUQ46AMY1S

RXUQ54AMY1S RXUQ48AMY1S RXUQ56AMY1S



Outdoor Unit Combinations

For connection of VRV indoor units

| HP | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*2 | Maximum number of connectable indoor units |
|-------|------|----------------|------------|------------------------------|---|---|--|
| 6 HP | 16.0 | 150 | RXUQ6A | RXUQ6A | | 75 to 195 (300) | 9 (15) |
| 8 HP | 22.4 | 200 | RXUQ8A | RXUQ8A | | 100 to 260 (400) | 13 (20) |
| 10 HP | 28.0 | 250 | RXUQ10A | RXUQ10A | | 125 to 325 (500) | 16 (25) |
| 12 HP | 33.5 | 300 | RXUQ12A | RXUQ12A | -0 | 150 to 390 (600) | 19 (30) |
| 14 HP | 40.0 | 350 | RXUQ14A | RXUQ14A | =:: | 175 to 455 (700) | 22 (35) |
| 16 HP | 45.0 | 400 | RXUQ16A | RXUQ16A | =: | 200 to 520 (800) | 26 (40) |
| 18 HP | 50.0 | 450 | RXUQ18A | RXUQ18A | 21 | 225 to 585 (900) | 29 (45) |
| 20 HP | 56.0 | 500 | RXUQ20A | RXUQ20A | 21 | 250 to 650 (1,000) | 32 (50) |
| 12 HP | 32.0 | 300 | RXUQ12AM | RXUQ6A + RXUQ6A | | 150 to 390 (480) | 19 (24) |
| 14 HP | 38.4 | 350 | RXUQ14AM | RXUQ6A + RXUQ8A | | 175 to 455 (560) | 22 (28) |
| 16 HP | 44.8 | 400 | RXUQ16AM | RXUQ8A + RXUQ8A | BHFP22P100 | 200 to 520 (640) | 26 (32) |
| 18 HP | 50.4 | 450 | RXUQ18AM | RXUQ8A + RXUQ10A | | 225 to 585 (720) | 29 (36) |
| 20 HP | 55.9 | 500 | RXUQ20AM | RXUQ8A + RXUQ12A | | 250 to 650 (800) | 32 (40) |
| 18 HP | 48.0 | 450 | RXUQ18AM1 | RXUQ6A×3 | DUEDOODIEI | 225 to 585 (585) | 29 (29) |
| 20 HP | 54.4 | 500 | RXUQ20AM1 | RXUQ6A × 2 + RXUQ8A | BHFP22P151 | 250 to 650 (650) | 32 (32) |
| 22 HP | 61.5 | 550 | RXUQ22AM | RXUQ10A + RXUQ12A | | 275 to 715 (880) | 35 (44) |
| 24 HP | 67.0 | 600 | RXUQ24AM | RXUQ12A × 2 | | 300 to 780 (960) | 39 (48) |
| 26 HP | 73.5 | 650 | RXUQ26AM | RXUQ12A + RXUQ14A | | 325 to 845 (1,040) | 42 (52) |
| 28 HP | 78.5 | 700 | RXUQ28AM | RXUQ12A + RXUQ16A | - | 350 to 910 (1,120) | 45 (56) |
| 30 HP | 83.5 | 750 | RXUQ30AM | RXUQ12A + RXUQ18A | BHFP22P100 | 375 to 975 (1,200) | 48 (60) |
| 32 HP | 89.5 | 800 | RXUQ32AM | RXUQ12A + RXUQ20A | BHFP22P100 | 400 to 1,040 (1,280) | 52 (64) |
| 34 HP | 96.0 | 850 | RXUQ34AM | RXUQ14A + RXUQ20A | | 425 to 1,105 (1,360) | 55 (64) |
| 36 HP | 101 | 900 | RXUQ36AM | RXUQ16A + RXUQ20A | | 450 to 1,170 (1,440) | 58 (64) |
| 38 HP | 106 | 950 | RXUQ38AM | RXUQ18A + RXUQ20A | | 475 to 1,235 (1,520) | 61 (64) |
| 40 HP | 112 | 1,000 | RXUQ40AM | RXUQ20A × 2 | | 500 to 1,300 (1,600) | 64 (64) |
| 42 HP | 117 | 1,050 | RXUQ42AM | RXUQ12A × 2 + RXUQ18A | | 525 to 1,365 (1,365) | |
| 44 HP | 123 | 1,100 | RXUQ44AM | $RXUQ12A \times 2 + RXUQ20A$ | | 550 to 1,430 (1,430) | 1 |
| 46 HP | 130 | 1,150 | RXUQ46AM | RXUQ12A + RXUQ14A + RXUQ20A | | 575 to 1,495 (1,495) | 1 |
| 48 HP | 135 | 1,200 | RXUQ48AM | RXUQ12A + RXUQ16A+ RXUQ20A | | 600 to 1,560 (1,560) | 1 |
| 50 HP | 140 | 1,250 | RXUQ50AM | RXUQ12A + RXUQ18A + RXUQ20A | BHFP22P151 | 625 to 1,625 (1,625) | |
| 52 HP | 146 | 1,300 | RXUQ52AM | RXUQ12A + RXUQ20A × 2 | DULLATION | 650 to 1,690 (1,690) | 64 (64) |
| 54 HP | 152 | 1,350 | RXUQ54AM | RXUQ14A + RXUQ20A × 2 | | 675 to 1,755 (1,755) | |
| 56 HP | 157 | 1,400 | RXUQ56AM | RXUQ16A + RXUQ20A × 2 | | 700 to 1,820 (1,820) | 1 |
| 58 HP | 162 | 1,450 | RXUQ58AM | RXUQ18A + RXUQ20A × 2 | | 725 to 1,885 (1,885) | 1 |
| 60 HP | 168 | 1,500 | RXUQ60AM | RXUQ20A × 3 | | 750 to 1,950 (1,950) | 1 |

For mixed combination of VRV and residential indoor units or connection of residential indoor units only

| | | | | Total capacit | ty index of connectable | indoor units ² | |
|--------------------------|------|----|----------|---------------|------------------------------|---------------------------|---|
| Model name ¹¹ | kW | HP | Capacity | | Combination (%) ² | | Maximum number of connectable indoor units |
| | | | index | 50% | 100% | 130% | CONTROCTABLE INGOOT GINES |
| RXUQ6AY1S | 16.0 | 6 | 150 | 75 | 150 | 195 | 9 |
| RXUQ8AY1S | 22.4 | 8 | 200 | 100 | 200 | 260 | 13 |
| RXUQ10AY1S | 28.0 | 10 | 250 | 125 | 250 | 325 | 16 |
| RXUQ12AY1S | 33.5 | 12 | 300 | 150 | 300 | 390 | 19 |
| RXUQ14AY1S | 40.0 | 14 | 350 | 175 | 350 | 455 | 22 |
| RXUQ16AY1S | 45.0 | 16 | 400 | 200 | 400 | 520 | 26 |
| RXUQ18AY1S | 50.0 | 18 | 450 | 225 | 450 | 585 | 29 |
| RXUQ20AY1S | 56.0 | 20 | 500 | 250 | 500 | 650 | 32 |

Note: *1. Only single outdoor unit (RXUQ6-20AY1S) can be connected.

Note: *1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.

*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 19 for notes on connection capacity of indoor units.

^{*2.} Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit.

Indoor Unit Lineup

Enhanced range of choices A mixed combination of *VRV* indoor units and residential indoor units is enabled all in one system, opening the door to stylish and quiet indoor units.

| /RV indoor units | | | | w line | 1000 | VR sm | art V | ndoor 'RT sn | nart c | ontrol | | | VRT | VRT | or units control | 1 | 10 |
|--|--|---------------------------|--------------|------------|---------------|-------------|------------|-----------------|------------|--------------|-------------|-------------|--------------|-------------|---------------------|--------------|----|
| Туре | Model Name | Capacity Range | 20 0.8 HP | 25 1 HP | 32 1.25 HP | 40 16 HP | 50 2 HP | 63 | 71 3 HP | 80 3.2 HP | 100 4 HP | 125 5 HP | 140 6 HP | 200 8 HP | 250 10 HP | 400 16 HP | |
| туре | Woder Name | Capacity Index | 20 | 25 | 31.25 | | 50 | 62.5 | 71 | 80 | 100 | 125 | 140 | 200 | 250 | 400 | |
| Ceiling Mounted Cassette (Round Flow with Sensing) | FXFSQ-AVS VRT smart | | | • | • | • | • | • | | | • | • | New capacity | | | | |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-AVS VRT | | | • | • | • | • | • | | | • | • | New capacity | | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-MVES VRT | 9 | • | • | • | • | • | | | | | | | | | | |
| Ceiling Mounted Cassette (Double Flow) | FXCQ-AVMS VRT | | • | • | • | • | • | • | | • | | • | | | | | |
| Ceiling Mounted Cassette (Single Flow) | FXEQ-AV36 VRT | | • | | | | | • | | | | | | | | | |
| | FXDQ-PDV2S (with drain pump) VRT smart | | | • | | | | | | | | | | | | | |
| Slim Ceiling Mounted Duct (Standard Series) | FXDQ-PDVTS (without drain pump) WRT smart WFXDQ-NDV2S (with drain pump) WRT smart | (700mm width type) | • | | | | | | | | | | | | | | |
| Standard Series) | (with drain pump) smart FXDQ-NDVTS (without drain pump) smart | (900 / 1,100mm width type | | | | | • | • | | | | | | | | | |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-SPV1 VRT | | • | • | • | • | • | • | | | | | | | | | |
| Middle Static | FXSQ-PAVS VRT smart | | • | • | • | | • | • | | • | • | • | • | | | | |
| Ceiling Mounted | FXMQ-PA/PV VRT smart | - | | • | • | | | | | | | • | | • | | | |
| | FXMQ-MVES VRT | | | | | | | | | | | | | | | | |
| Outdoor-Air Processing Unit | FXMQ-MFV1 | | | | | | | | | | | • | | • | • | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB VRT | 1 | | | | | | | | | • | | | | | | |
| Calling Connended | FXHQ-MAVS VRT | | | | | | | | | | | | | | | | |
| Ceiling Suspended | FXHQ-AVMS VRT | | | | | | | | | | | • | | | | | |
| Wall Mounted | FXAQ-AVMS VRT | | • | • | • | • | • | • | | | | | | | | | |
| Floor Standing | FXLQ-MAVE8 VRT | | • | • | • | • | • | • | | | | | | | | | |
| Concealed Floor Standing | FXNQ-MAVE8 VRT | | • | • | • | • | • | • | | | 1 | | | | | | |
| Elear Standing | FXVQ-NY1 VRT | | | | | | | | | | | • | | • | • | • | (|
| Floor Standing Duct | FXVQ-NY16 (high static pressure type) | E11510 | | | | | | | | | | | | | | | (|
| Clean Room | FXBQ-PVE VRT | | | | | | • | • | | | | | | | | | |
| Air Conditioner | FXBPQ-PVE VRT | | | | | | | • | | | | | | | | | 1 |
| Heat Reclaim Ventilator with DX-Coil and Humidifier | VKM-GA(M)V1 | | Air | flow | rate | 500- | 1000 | m³/h | 1 | | | | | | | | |
| Heat Reclaim Ventilator | VAM-GJVE | 001 | Air | flow | rate | 150- | 2000 | m³/h | 1 | | | | | | | | |
| Air Handling Unit | AHUR | 1 | | | | | | | | | | | | | 6-120 | HP | |

Residential indoor units with connection to BP units

| | | | 09 | 12 | 18 | 24 | 28 |
|-------------------------|------------------|---------------------------|-----|-----|-----|-----|-----|
| Type | Model Name | Rated Capacity (kW) | 2.5 | 3.5 | 5.0 | 6.0 | 7.1 |
| | | Capacity Index | 25 | 35 | 50 | 60 | 71 |
| Slim Ceiling Mounted | FDKS-EAVMS VRT | (700 mm width type) | | | | | |
| Duct | FDKS-C(A)VMS VRT | (900/1,100 mm width type) | | | | | |
| | FTKJ-NV1SW VRT | | | | | | |
| Wall | FTKJ-NV1SS VRT | | | | | | |
| Mounted | FTKS-DVMS VRT | | | | | | |
| | FTKS-FVMS VRT | | | | | | |

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AY1S) can be connected.

VRV indoor units combine with residential indoor units, all in one system.

VRV indoor unit only system





- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Residential indoor unit and VRV indoor unit mix system



Residential indoor unit only system



- If a system has only residential indoor units, the system is operated under VRT control.

Specifications

■ VRV X Series Outdoor Units*

BXIIO-A

| MODEL | | | RXUQ6AY1S | RXUQ8AY1S | RXUQ10AY1S | RXUQ12AY1S | RXUQ14AY1S | RXUQ16AY1S | RXUQ18AY1S | RXUQ20AY1S |
|---------------|-------------|--------|--------------|---------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|
| | | | - | a | - | 151 | D: | 152 | | 1170 |
| Combination I | units | | | - | | | • | | - | - |
| | | | 1.5 | - | - | - | | • | - | |
| Power supply | 6 | | | | 3-pha | se 4-wire syste | em, 380-415 V, | 50 Hz | | 1. |
| | | Btu/h | 54,600 | 76,400 | 95,500 | 114,000 | 136,000 | 154,000 | 171,000 | 191,000 |
| Cooling capac | city | Btu/h* | 54,900 | 76,900 | 96,200 | 115,000 | 137,300 | 154,600 | 171,800 | 192,300 |
| | | kW | 16.0 / 16.1* | 22.4 / 22.6* | 28.0 / 28.2* | 33.5 / 33.7* | 40.0 / 40.3* | 45.0 / 45.3* | 50.0 / 50.4* | 56.0 / 56.4* |
| COP | - | | 4.95 | 4.65 | 4.45 | 4.29 | 4.23 | 3.95 | 3.91 | 3.78 |
| Power consur | mption | kW | 3.23 | 4.82 | 6.29 | 7.81 | 9.46 | 11.4 | 12.8 | 14.8 |
| Capacity cont | trol | % | 23-100 | 19-100 | 13-100 | 12-100 | 10-100 | 9-100 | 8-100 | 7-100 |
| Casing colour | ŗ | | | | | Ivory white | e (5Y7.5/1) | | | |
| СТу | /ре | | | | | Hermetically se | ealed scroll type | 9 | | |
| Compressor | otor output | kW | 2.4×1 | 3.4×1 | 4.2×1 | 5.2×1 | (3.4×1)+(2.9x1) | (3.4×1)+(3.9x1) | (3.7×1)+(4.3x1) | (4.9×1)+(4.2x1) |
| Airflow rate | | m³/min | 119 | 1 | 78 | 191 | 21 | 8 | 26 | 88 |
| Dimensions (I | H×W×D) | mm | 1,657× | 930×765 | | | 1,657×1, | 240×765 | | |
| Machine weig | ht | kg | 18 | 35 | 2 | 15 | 2 | 75 | 25 | 91 |
| Sound level | | dB(A) | 54 | 5 | 6 | 58 | 5 | 9 | 61 | 65 |
| Operation ran | nge | °CDB | | | | 10 t | to 49 | | | |
| Defeien | Туре | | | | | R-4 | 10A | | | |
| Refrigerant | Charge | kg | 6.4 | 6.6 | 7.1 | 7.3 | 8.5 | 8.6 | 11 | 1.7 |
| Piping | Liquid | mm | | Φ9.5 (Brazing |) | | Φ12.7 (Brazing | 1) | Ф15.9 (| Brazing) |
| connections | Gas | mm | Ф19.1 (| Brazing) | Φ22.2 (Brazing) | | (| 28.6 (Brazing | 3) | |



| MODEL | | | RXUQ28AMY1S | RXUQ30AMY1S | RXUQ32AMY1S | RXUQ34AMY1S | RXUQ36AMY1S | RXUQ38AMY1S | RXUQ40AMY1S | | |
|--------------|----------------------------------|--------|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------|--------------|-------------------------------------|--|--|
| | 01 | | RXUQ12AY1S | RXUQ12AY1S | RXUQ12AY1S | RXUQ14AY1S | RXUQ16AY1S | RXUQ18AY1S | RXUQ20AY1S | | |
| Combination | on units | | RXUQ16AY1S | RXUQ18AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | | |
| | | | - | - | - | (-1) | -: | - | - | | |
| Power sup | ply | | | | 3-phase 4-v | vire system, 380- | 415 V, 50 Hz | | AV 5000 | | |
| | | Btu/h | 268,000 | 285,000 | 305,000 | 328,000 | 345,000 | 362,000 | 382,000 | | |
| Cooling ca | pacity | Btu/h* | 269,500 | 286,800 | 307,400 | 329,800 | 346,300 | 363,400 | 383,900 | | |
| | | kW | 78.5 / 79.0* | 83.5 / 84.1* | 89.5 / 90.1* | 96.0 / 96.7* | 101 / 101.5* | 106 / 106.5* | 112 / 112.5* | | |
| COP | | | 4.07 | 4.05 | 3.96 | 3.95 | 3.84 | 3.84 | 3.87 | | |
| Power con | sumption | kW | 19.3 | 20.6 | 22.6 | 24.3 | 26.3 | 27.6 | 29.6 | | |
| Capacity c | ontrol | % | | 5-100 | 1 | | 4-1 | 100 | | | |
| Casing col | our | | | | 1 | vory white (5Y7.5 | 5/1) | | | | |
| | Туре | | | | Herme | etically sealed sci | oll type | | | | |
| Compressor | Motor output x Number of Unit | kW | (5.2x1)+(3.4x1) +(3.9x1) | (5.2x1)+(3.7x1) +(4.3x1) | (3.2x1)+(4.9x1) +(4.2x1) | (3.4x1)+(2.9x1) +(4.9x1)+(4.2x1) | | | (4.9x1)+(4.2x1) +(4.9x1)+(4.2x1) | | |
| Airflow rate | | m³/min | 191+218 | 191- | +268 | 218- | -268 | 268 | +268 | | |
| Dimension | s (H×W×D) | mm | | | (1,657×1,2 | 240×765)+(1,657 | ×1,240×765) | | | | |
| Machine w | eight | kg | 215+275 | 215+291 | | 275+291 | | 291+291 | | | |
| Sound leve | el | dB(A) | 62 | 63 | | 6 | 6 | | 68 | | |
| Operation | range | °CDB | | | | 10 to 49 | | | | | |
| D-61 | Туре | | | R-410A | | | | | | | |
| Refrigeran | Charge | kg | 7.3+8.6 | 7.3+ | -11.7 | 8.5+11.7 | 8.6+11.7 | 11.7 | +11.7 | | |
| Piping | Liquid | mm | | | | Φ19.1 (Brazing) | | | | | |
| connection | s Gas | mm | | | Ф34.9 (Brazing |) | | Ф41.3 | (Brazing) | | |

^{: 1.} Specifications are based on the following conditions;

"Cooling: Indoor temp: 27°CDB, 19°CWB₂, 27°CDB, 19°CWB₂.

Outdoor temp: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

Sound level: Anochoic 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 conneme for roles to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

2. "Preliminary specifications. Subject to change without notice.



7.3+7.3+11.7

7.3+8.5+11.7 7.3+8.6+11.7







| RXUQ12AMY1S | RXUQ14AMY1S | RXUQ16AMY1S | RXUQ18AM1Y1S | RXUQ20AM1Y1S | RXUQ18AMY1S | RXUQ20AMY1S | RXUQ22AMY1S | RXUQ24AMY1S | RXUQ26AMY1S | |
|-----------------|---|-----------------|------------------|-------------------|-------------------------|--------------------------|-----------------|-------------------------|------------------------|--|
| RXUQ6AY1S | RXUQ6AY1S | RXUQ8AY1S | RXUQ8AY1S | RXUQ8AY1S | RXUQ6AY1S | RXUQ6AY1S | RXUQ10AY1S | RXUQ12AY1S | RXUQ12AY1S | |
| RXUQ6AY1S | RXUQ8AY1S | RXUQ8AY1S | RXUQ10AY1S | RXUQ12AY1S | RXUQ6AY1S | RXUQ6AY1S | RXUQ12AY1S | RXUQ12AY1S | RXUQ14AY1S | |
| - | | | 79 | - | RXUQ6AY1S | RXUQ8AY1S | - | - | - | |
| | | | 3-pha | se 4-wire syste | m, 380-415 V, | 50 Hz | | t e | , | |
| 109,000 | 131,000 | 153,000 | 172,000 | 191,000 | 164,000 | 186,000 | 210,000 | 229,000 | 251,000 | |
| 109,900 | 131,900 | 153,900 | 173,200 | 191,900 | 164,800 | 186,800 | 211,200 | 230,100 | 252,500 | |
| 32.0 / 32.2* | 38.4 / 38.7* | 44.8 / 45.1* | 50.4 / 50.8* | 55.9 / 56.3* | 48.0 / 48.3* | 54.4 / 54.8* | 61.5 / 61.9* | 67.0 / 67.5* | 73.5 / 74.0* | |
| 32.0 / 32.2* | 4.77 | 4.65 | 4.32 | 4.32 | 5.2 | 4.95 | 4.36 | 4.29 | 4.25 | |
| 4.95 | 8.05 | 9.64 | 11.1 | 12.6 | 9.69 | 11.3 | 14.1 | 15.6 | 17.3 | |
| 11-100 | 11-100 10-100 9-100 8-100 7-100 8-100 7-100 6-100 | | | | | | | | 5-100 | |
| | | | | Ivory white | (5Y7.5/1) | | | | | |
| | | | | Hermetically se | aled scroll type | | | | | |
| (2.4×1)+(2.4x1) | (2.4×1)+(3.4x1) | (3.4×1)+(3.4x1) | (3.4×1)+(4.2x1) | (2.4×1)+(5.2x1) | (2.4×1)+(2.4x1)+(2.4x1) | (2.4×1)+(2.4x1)+(3.4x1) | (4.2×1)+(5.2x1) | (5.2×1)+(5.2x1) | (5.2×1)+(3.4x1)+(2.9x1 | |
| 119+119 | 119+178 | 178- | -178 | 178+191 | 119+119+119 | 119+119+178 | 178+191 | 191+191 | 191+218 | |
| (1,657×93 | 0×765)+(1,657> | ×930×765) | (1,657×930×765)+ | (1,657×1,240×765) | (1,657×930×765)+(1,657× | 930x765)+(1,657x930x765) | (1,657×1,24 | 0×765)+(1,657×1,240×765 | | |
| | 185+185 | | 185- | +215 | 185+18 | 35+185 | 215- | +215 | 215+275 | |
| 57 | 58 | . 5 | 9 | 60 | 59 | 6 | 0 | 61 | 62 | |
| | | | | 10 t | 0 49 | | | | | |
| | | | | R-4 | 10A | | | | | |
| 6.4+6.4 | 6.4+6.6 | 6.6+6.6 | 6.6+7.1 | 6.6+7.3 | 6.4+6.4+6.4 | 6.4+6.4+6.6 | 7.1+7.3 | 7.3+7.3 | 7.3+8.5 | |
| | Ф12.7 (Brazing |) | | ! | Ф15.9 (| Brazing) | ×2 | | Φ19.1 (Brazing) | |
| | | - | Ф 28.6 | (Brazing) | | | | Ф34.9 | (Brazing) | |



| RXUQ42AMY1S | RXUQ44AMY1S | RXUQ46AMY1S | RXUQ48AMY1S | RXUQ50AMY1S | RXUQ52AMY1S | RXUQ54AMY1S | RXUQ56AMY1S | RXUQ58AMY1S | RXUQ60AMY1S |
|-------------------------------------|-------------------------------------|--------------|---------------|-----------------|------------------|---|-------------|-------------|-------------|
| RXUQ12AY1S | RXUQ12AY1S | RXUQ12AY1S | RXUQ12AY1S | RXUQ12AY1S | RXUQ12AY1S | RXUQ14AY1S | RXUQ16AY1S | RXUQ18AY1S | RXUQ20AY1S |
| RXUQ12AY1S | RXUQ12AY1S | RXUQ14AY1S | RXUQ16AY1S | RXUQ18AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S |
| RXUQ18AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S | RXUQ20AY1S |
| | | | 3-pha | se 4-wire syste | em, 380-415 V, | 50 Hz | 27 | | |
| 399,000 | 420,000 | 444,000 | 461,000 | 478,000 | 498,000 | 519,000 | 536,000 | 553,000 | 573,000 |
| 402,600 | 423,100 | 445,300 | 462,300 | 479,400 | 499,900 | 522,000 | 539,100 | 556,200 | 576,600 |
| 117 / 118* | 123 / 124* | 130 / 130.5* | 135 / 135.5* | 140 / 140.5* | 146 / 146.5* | 152 / 153* | 157/158* | 162 / 163* | 168 / 169* |
| 4.12 | 4.05 | 4.05 | 3.96 | 3.95 | 3.9 | 3.89 | 3.82 | 3.82 | 3.78 |
| 28.4 | 30.4 | 32.1 | 34.1 | 35.4 | 37.4 | 39.1 | 41.1 | 42.4 | 44.4 |
| | | | 3-1 | 00 | | | 7. | 2-1 | 00 |
| | | | | Ivory whit | te (5Y7.5/1) | | | 7 | |
| 10. | | | | Hermetically se | aled scroll type | | | | |
| (5.2x1)+(5.2x1) +(3.7x1)+(4.3x1) | (5.2x1)+(5.2x1) +(4.9x1)+(4.2x1) | | | | | (3.4x1)+(2.9x1)+(4.9x1) +(4.2x1)+(4.9x1)+(4.2x1) | | | |
| 191+19 | 91+268 | 191+2 | 18+268 | 191+2 | 68+268 | 218+26 | 8+268 | 268+26 | 8+268 |
| | | | (1,657×1,240× | 765)+(1,657×1 | ,240×765)+(1,6 | 57×1,240×765) | | | |
| 215+2 | 15+291 | 215+2 | 75+291 | 215+2 | 91+291 | 275+29 | 91+291 | 291+29 | 91+291 |
| 64 | 66 | | 67 | | 68 | | 69 | | 70 |
| | | | | 10 t | o 49 | | | | |
| | | | | | | | | | |

R-410A

7.3+11.7+11.7

Φ19.1 (Brazing) Φ41.3 (Brazing) 8.5+11.7+11.7 8.6+11.7+11.7

11.7+11.7+11.7

Option List

Outdoor Units

VRV X SERIES

| No. | Item | Туре | RXUQ6AY1S RXUQ8AY1S RXUQ10AY1S | RXUQ12AY1S RXUQ14AY1S RXUQ16AY1S RXUQ18AY1S RXUQ20AY1S | RXUQ12AMY1S RXUQ14AMY1S RXUQ16AMY1S RXUQ18AMY1S RXUQ20AMY1S | RXUQ18AM1Y1S RXUQ20AM1Y1S RXUQ22AMY1S | |
|-----|--|---------------|---|--|--|---|--|
| 1 | Distributive piping | REFNET header | KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch) | | KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) | | |
| | piping | REFNET joint | KHRP26A22T, KHRP26A33T | KHRP | 26A22T, KHRP26A33T, KHRP2 | 26A72T | |
| 2 | Outdoor unit multi connection piping kit | | - | BHFP22P100 | | 2P100 | |

| No. | Type | | RXUQ24AMY1S RXUQ26AMY1S RXUQ28AMY1S RXUQ30AMY1S RXUQ32AMY1S | RXUQ34AMY1S RXUQ36AMY1S RXUQ38AMY1S RXUQ40AMY1S | RXUQ42AMY1S RXUQ44AMY1S RXUQ46AMY1S RXUQ48AMY1S RXUQ50AMY1S | RXUQ52AMY1S RXUQ54AMY1S RXUQ56AMY1S RXUQ58AMY1S RXUQ60AMY1S | | | |
|-----|-------------------|-----------------------------|---|--|---|---|--|--|--|
| 1 | Distributive | REFNET header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch) | | | | | | |
| | piping | REFNET joint | KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T | | | | | | |
| 2 | Pipe size reducer | | KHRP26M73TP, KHRP26M73HP | | | | | | |
| 3 | Outdoor unit | multi connection piping kit | BHFP22P100 BHFP22P151 | | | | | | |

REFNET joint (KHRP26A22/33/72/73T)



Option PCB

| No. | Type | RXUQ6AY1S RXUQ8AY1S | RXUQ10AY1S RXUQ12AY1S RXUQ14AY1S RXUQ16AY1S RXUQ18AY1S RXUQ20AY1S | RXUQ12AMY1S RXUQ14AMY1S RXUQ16AMY1S | RXUQ18AM1Y1S RXUQ20AM1Y1S RXUQ18AMY1S RXUQ20AMY1S |
|-----|-------------------------------------|------------------------|--|---|--|
| 1 | DIII-NET expander adaptor ★ | | DTA1 | 09A51 | |
| 2 | External control adaptor ★ | | DTA1 | 09A61 | |
| 3 | Home Automation Interface Adaptor ★ | | DTA1 | 16A51 | |
| 4 | Option plate for control adaptor | - | - BKS26A *1 - | | |

| No. | Type | RXUQ22AMY1S RXUQ24AMY1S RXUQ26AMY1S RXUQ28AMY1S RXUQ30AMY1S | RXUQ32AMY1S RXUQ34AMY1S RXUQ36AMY1S RXUQ38AMY1S RXUQ40AMY1S | RXUQ42AMY1S RXUQ44AMY1S RXUQ46AMY1S RXUQ48AMY1S RXUQ50AMY1S | RXUQ52AMY1S RXUQ54AMY1S RXUQ56AMY1S RXUQ58AMY1S RXUQ60AMY1S | | | |
|-----|-------------------------------------|---|---|---|---|--|--|--|
| 1 | DIII-NET expander adaptor ★ | | DTA1 | 09A51 | | | | |
| 2 | External control adaptor ★ | DTA109A61 | | | | | | |
| 3 | Home Automation Interface Adaptor ★ | DTA116A51 | | | | | | |
| 4 | Option plate for control adaptor | BKS26A *1 | | | | | | |

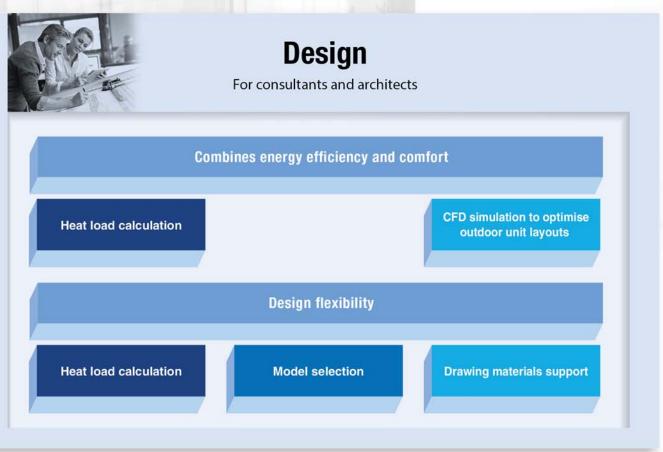
Note: 1. This plate is necessary for each adaptor marked \bigstar .

Daikin Engineering Supports

VRV Design and Sales Proposal Assistance

Daikin provides engineering supports for **VRV** systems. It consists of design supports that can assist consultants and architects, as well as sales proposal supports for air conditioning engineers and dealers. We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.







Daikin Engineering Supports



Model Selection Software

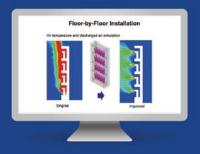
VRV Xpress

VRV Xpress is a flexible design software that optimises equipment selection. It can empower consultants and air conditioning engineers so they can fully enhance their equipment selections to design the most effective, optimum systems possible. The software also allows the choice of outdoor units based on peak loads rather than the sum of required capacities for each indoor unit. This fine-tuning feature reduces **VRV** system sizes and increases efficiency.



CFD Simulation to Optimise Outdoor Unit Layouts DTFLO

DT FLOW II is a simulation software that uses computational fluid dynamics (CFD), aiming to optimise outdoor unit layouts right at the design stage. When discharged air from the outdoor unit is drawn back into the suction vent, it can short circuit the system and lead to: decrease in efficiency of cooling operations, capacity shortages, operation cut-offs, and shorter lifetime for the outdoor unit. To avoid the need for expensive layout modifications once construction is complete, Daikin uses the CFD method at the early design stage. This can help consultants and architects optimise their outdoor unit arrangement.



Heat Load Calculation

DACCS-HKGSG and HKGSA

The DACCS program uses a steady-state load calculation method to compute heat load over a 24-hour period on summer and winter days. The heat load coming in through outer walls and rooftops from strong summer sunlight can be substantial, but the DACCS program applies effective temperature differences based on the effects of heat accumulated in the walls. The program also accesses 24-hour weather data for all major cities. The standard design data includes accurate weather information for 140 countries.



Drawing Supports

CAD Symbols

Users download CAD symbol drawing materials, including 2D CAD symbols and 3D Revit data, for **VRV** systems designing. The 3D Revit data contains specifications for Daikin products, including things like capacities and electric characteristics to support Business Information Modeling (BIM).



MEMO

MEMO

MEMO



Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself.
 Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

- 1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
- 2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

SIAM DAIKIN SALES CO..LTD.

22 Soi Onnuch 55/1 Pravet Subdistrict, Pravet District, Bangkok 10250

> Tel. 0-2838-3200 Fax. 0-2721-7607

