DAIKIN

Cooling Only 50 / 60 Hz

R-410A

VRV IV S SERIES

For residential and commercial use

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 tec **VRV**, *VRT and VAV, we have attained both energy comfortable air conditioning.*

VRV+VRT

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
hnologies of
savings and

+VAV

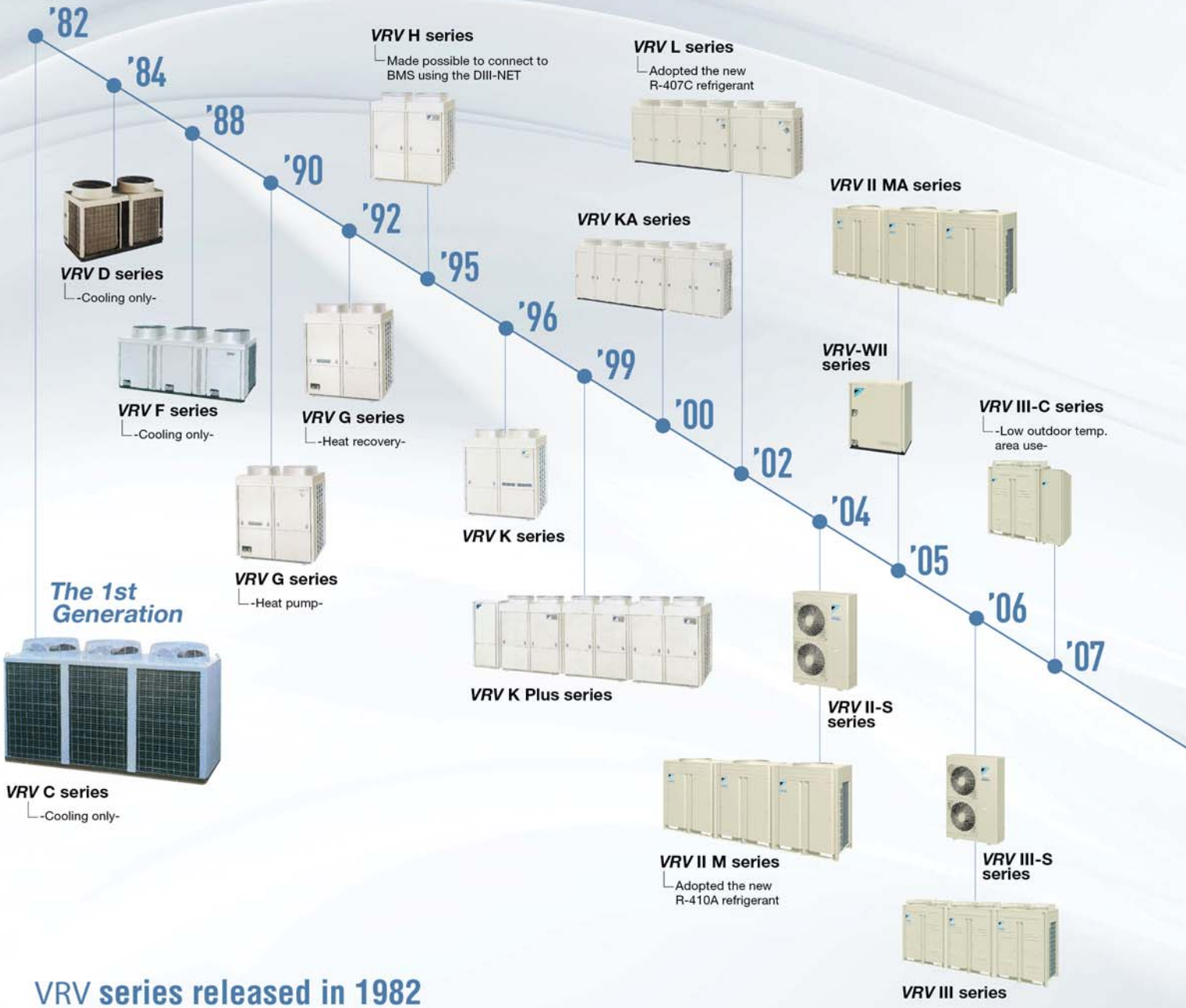
Contents

High reliability

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

Development history

To meet the needs of the times, we've been continuously developing technologies as the leading air conditioning manufacturer in the world.



VRV **series released in 1982**

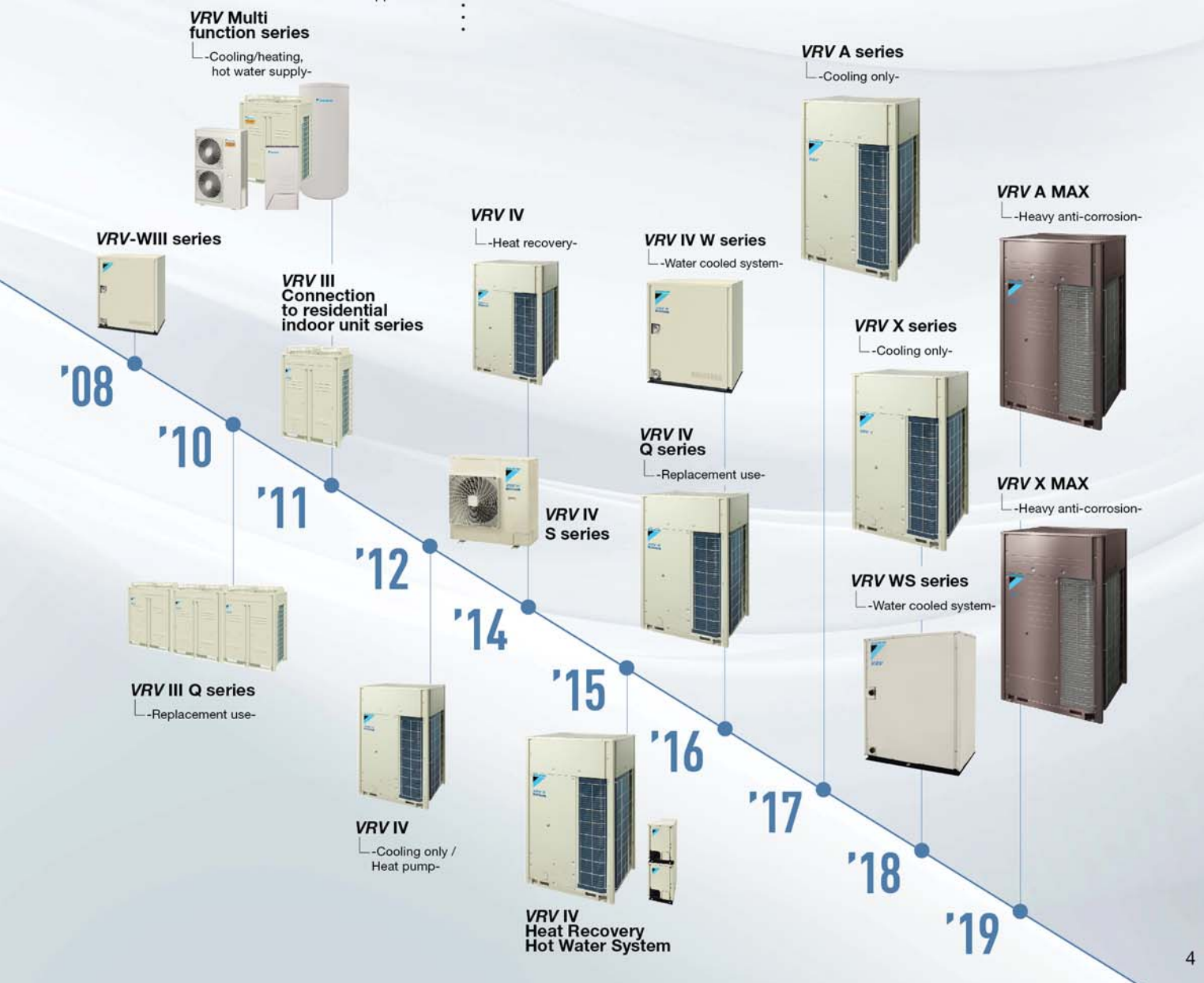
<The birth of innovative products that changed the history of air conditioning technology>

- 2.5-year development term
- Completion of development in May, 1982
- Technical award of Japan Society of Refrigerating & Air-conditioning Engineers in 1983

VRV

Expansion of the country of sale

Sales is undergoing in more than 70 countries



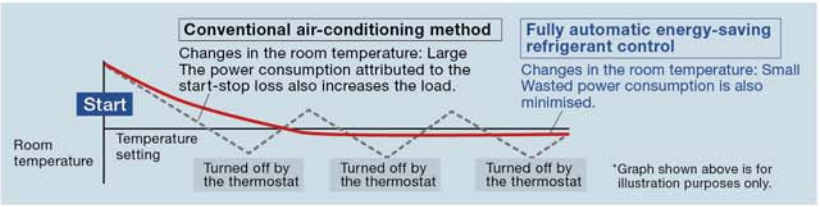
VRV User Benefits

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

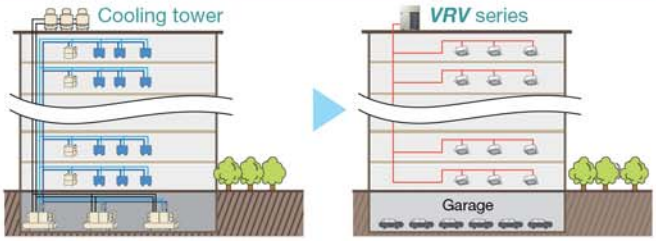
Based on the idea of using only as much space as absolutely required, Daikin first launched its commercial multi-split air conditioning systems in 1982. Since then, customers have benefitted from much increased energy efficiency. Now, our revolutionary new systems dramatically reduce energy with VRT 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

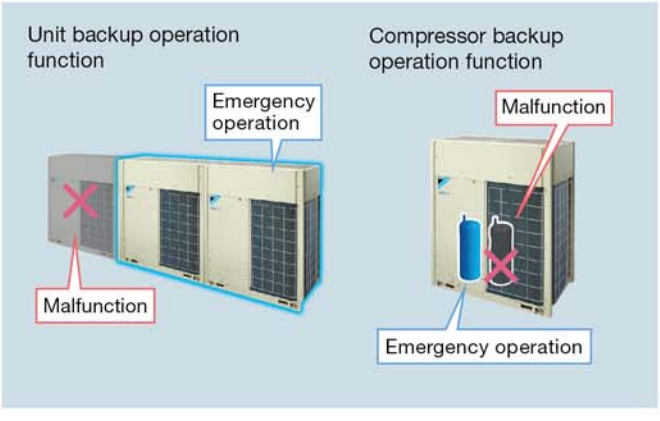
Daikin ***VRV*** outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

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.

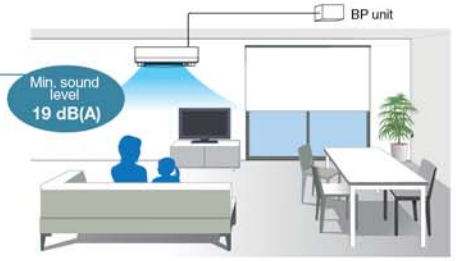


Comfortable environment

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.

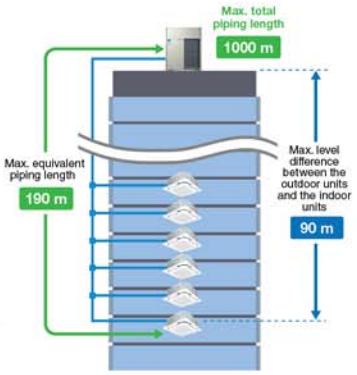


Varied lineup of models

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.

Wide variety of series models to supply total air solutions

From residential houses to large buildings, and from newly constructed to renovated buildings, ***VRV*** system meets a wide range of air conditioning needs and supplies total air solutions.

VRV X SERIES

Cooling Only

RXUQ-A

3-phase 4-wire system, 380-415 V, 50 Hz

NEW Heavy anti-corrosion model

VRV X MAX

RXUQ-AW

New heights in energy efficiency during actual operation

The ***VRV*** X series features new models specially developed for higher efficiency. All compressors used in outdoor units are new scroll compressors designed to enhance energy efficiency.

Lineup

HP	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	●	●	●	●	●	●	●	●																				
Double outdoor units				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
Triple outdoor units							●	●											●	●	●	●	●	●	●	●	●	●

VRV A SERIES

Cooling Only

RXQ-A

3-phase 4-wire system, 380-415 V, 50 Hz

NEW Heavy anti-corrosion model

VRV A MAX

RXQ-AW

Saves space and delivers excellent performance

The ***VRV*** A series achieves high efficiency in a design that is more compact and lightweight. It also offers comfort, easy installation, and high reliability to meet the needs in various buildings.

Lineup

HP	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	●	●	●	●	●	●	●	●																				
Double outdoor units							●	●	●	●	●	●	●	●	●	●	●	●										
Triple outdoor units																			●	●	●	●	●	●	●	●	●	●

VRV IV S SERIES

Cooling Only

RXMQ-A

4-6 HP 1-phase, 220 V, 50 Hz

8-9 HP 3-phase, 380-415 V, 50 Hz

Especially designed for residential houses, small offices and shops

VRV IV S series aims to provide sufficient capacity, along with the compact size required by residential houses, small offices and shops. Outdoor units are designed to be slim and space saving, and offer 5 models to suit your needs.

Lineup

HP	4	5	6	8	9
Cooling Only	●	●	●	●	●

VRV IV Q SERIES

Cooling Only

For quick & high quality replacement use

3-phase 4-wire system, 380-415 V, 50 Hz

RQQ-T

VRV IV Q series, a replacement ***VRV*** unit, can be installed using existing refrigerant piping, so renovation of the air conditioning system can be carried out quickly and smoothly. This minimises inconveniences to activities and users in the building.

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Space Saving Type							●	●					●	●	●	●	●	●	●	●	●	●

VRV IV W SERIES

Cooling Only

Water cooled system suitable for tall multi-storied buildings

3-phase 4-wire system, 380-415 V, 50 Hz

RWEYQ-T

Water cooled ***VRV*** IV W series utilises water as a heat source. The temperature of heat source water can be from 10°C to 45°C, and outdoor air temperature does not affect cooling capacity. The outside unit is compact and saves space in the machine room.

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Cooling Only	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

VRV WS SERIES

Cooling Only

Water cooled system suitable for residential houses

1-phase, 220-240 V/220 V, 50/60 Hz

New

RWXQ-A

Water cooled ***VRV*** WS series outside units are designed to be compact and lightweight, and single phase power supply enables simplified installation in residential applications.

Lineup

HP	4	5	6
Cooling Only	●	●	●

VRV IV HEAT RECOVERY HOT WATER SYSTEM

Cooling Only

Comfortable air conditioning and energy-efficient hot water heating

3-phase 4-wire system, 380-415 V, 50 Hz

RWHQ-T
HWHQ30A

This energy-efficient, multifunction system recovers waste heat generated by air conditioning, as energy to heat water. It is suitable for different business applications and provides flexible combination of ***VRV*** IV indoor units achieving comfort and aesthetic.

Lineup

HP	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
High-COP Type				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Space Saving Type							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

VRV IV S SERIES

The Ideal Air Conditioning

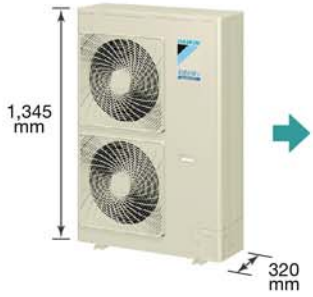
RXMQ-A

Cooling Only

4 HP - 9 HP
(11.2 kW) (24 kW)

Compact & lightweight design

The new design has been optimised for the ***VRV*** IV S series, with the height of 4 HP and 5 HP models reduced to only 990 mm. This design gives the building a sleek look externally and provides the occupants with a clear, unobstructed view of the scenery. The ***VRV*** IV S series is now slim and compact, with outdoor units that require minimal installation space.



VRV III S 4 HP (11.2 kW)		VRV IV S SERIES 4 HP (11.2 kW)	
Height 1,345 mm	→	Height 990 mm	26% Decrease
Product Weight 125 kg	→	Product Weight 71 kg	43% Decrease

VRV IV 8 HP (22.4 kW)		VRV IV S SERIES 8 HP (22.4 kW)	
Height 1,657 mm	→	Height 1,430 mm	14% Decrease
Product Weight 185 kg	→	Product Weight 131 kg	29% Decrease
Footprint 0.71 m²	→	Footprint 0.30 m²	58% Decrease

Enhanced lineup

To suit a variety of room sizes, ***VRV*** IV S series expands the range to 8 HP and 9 HP.

VRV IV S SERIES

4 HP 5 HP 6 HP 8 HP 9 HP

Lineup

5 models

Model Name	RXMQ4AVES	RXMQ5AVES	RXMQ6AVES	RXMQ8AY1S	RXMQ9AY1S
Power Supply	1-phase, 220 V, 50 Hz			3-phase, 380-415 V, 50 Hz	
Capacity Range	4 HP (11.2 kW)	5 HP (14.0 kW)	6 HP (16.0 kW)	8 HP (22.4 kW)	9 HP (24.0 kW)
Capacity Index	100	125	150	200	215

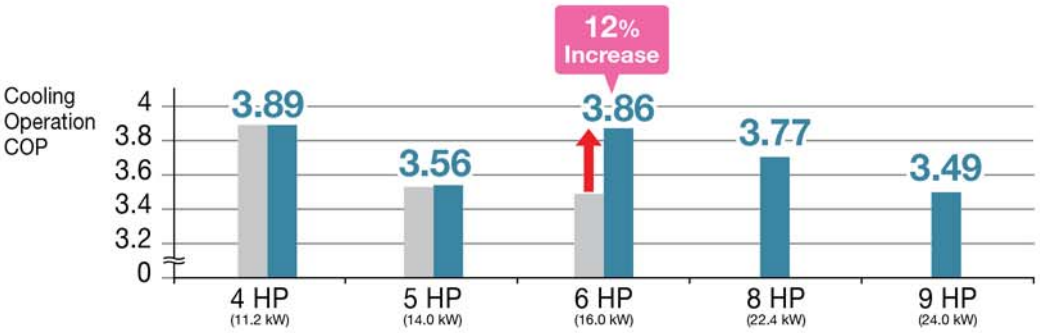
Wide variety of indoor units

Indoor units can be selected from 2 lineups, both ***VRV*** and residential indoor units, to match rooms and preferences. A mixed combination of ***VRV*** indoor units and residential indoor units can be included into one system, opening the door to stylish and quiet indoor units.

Energy saving

Higher Coefficient of Performance (COP)

VRV IV S series provides greater energy saving as compared to ***VRV*** III S series, especially for 6 HP.



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

VRV Ⅲ S

VRV *Ⅳ S SERIES*

Quiet operation

Nighttime quiet operation function

Operation sound level selectable from 3 steps for the night mode

Mode 1. **Automatic mode**

Set on the outdoor PCB. Time of maximum temperature is memorised. The low operating mode will initiate 8 hours*1 after the peak temperature in the daytime, and normal operation will resume 10 hours*2 after that. The operation sound level for the night mode can be selected from 49 dB(A) (Step 1), 46 dB(A) (Step 2) and 43 dB(A) (Step 3).*3

Mode 2. **Manual mode**

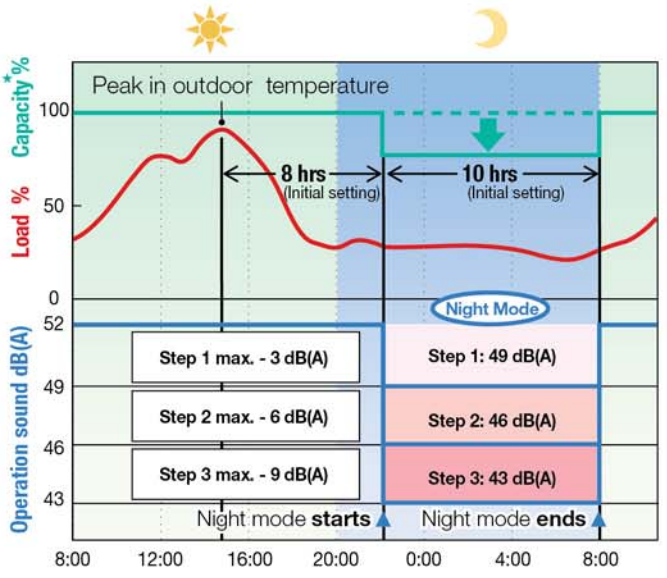
Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A53/61/62, and a locally obtained timer are necessary.)

Mode 3. **Combined mode**

Combinations of modes 1 and 2 can be used depending on your needs.

*1. Initial setting. Can be selected from 6, 8 and 10 hours.
*2. Initial setting. Can be selected from 8, 9 and 10 hours.
*3. In case of 4 HP outdoor unit during cooling operation

Mode 1. **Automatic mode**



Note: • This function is available in setting at site.
• The relationship of outdoor temperature (load) and time shown in the graph is just an example.
* The capacity reduction rate differs depending on the operation sound level step selected.

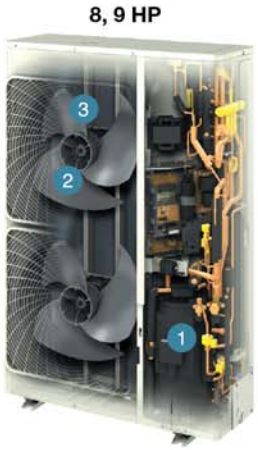
Collection of cutting-edge technologies realises efficient and quiet operation

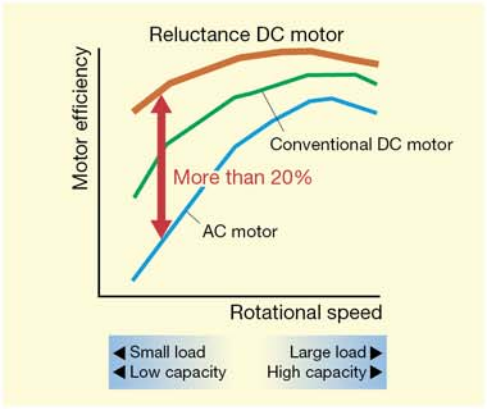
The high efficiency compressor to achieve a higher COP

1 Compressor equipped with Reluctance DC motor

Daikin DC inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.

8, 9 HP





Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.
*1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
*2 The torque created by the change in power between the iron and magnet parts.

Sine wave DC inverter

>> Smooth sine wave DC inverter

Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.

RXMQ4, 5, 6AVES

4, 5 HP

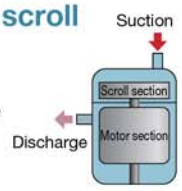
>> Swing compressor

Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.

RXMQ8, 9AY1S

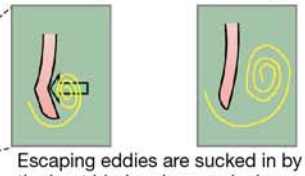
>> The structural scroll

Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



2 Smooth Air Inlet Bell Mouth and Aero Spiral Fan

These two features work to reduce sound. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.

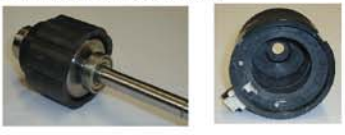


Escaping eddies are sucked in by the bent blade edges, reducing overall turbulence.

3 DC fan motor

Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

DC fan motor structure

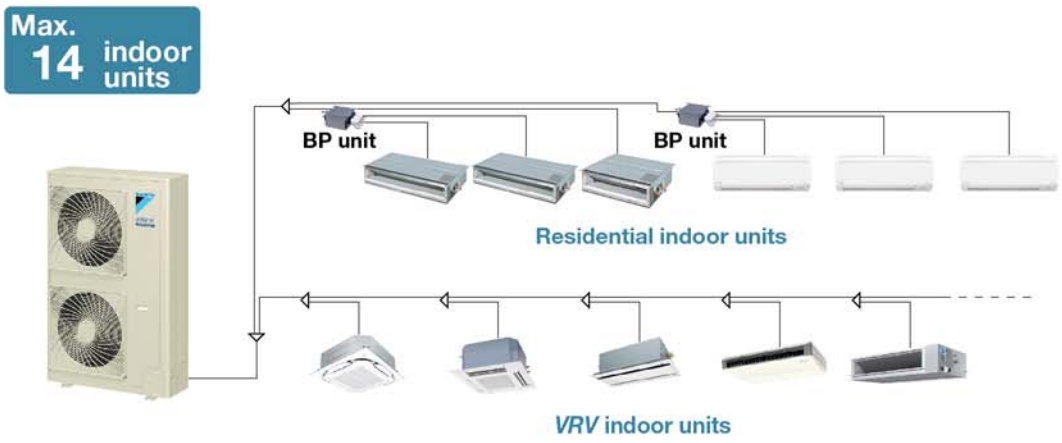


Design Flexibility and Simplified Installation

Connectable up to 14 indoor units

As many as 14 indoor units can be connected to a single outdoor unit, making the ***VRV*** IV S series a remarkably versatile system.

Note: Refer to page 60 for the maximum number of connectable indoor unit.



Automatic test operation

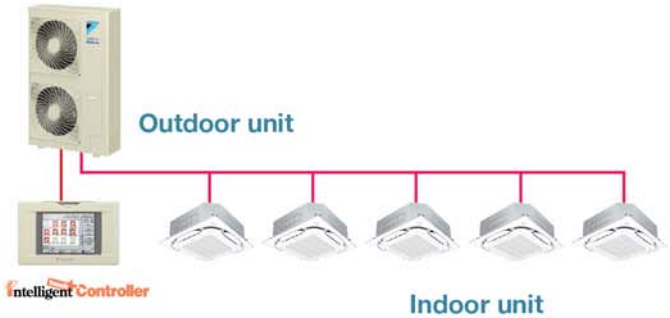
Simply press the test operation button and the unit will perform an automatic system check, including wiring, stop valves, piping, and refrigerant charging amount. The results then returned automatically after the check finishes.

Simple wiring and piping connection

Unique piping and wiring systems make it possible to install a ***VRV*** IV S series quickly and easily.

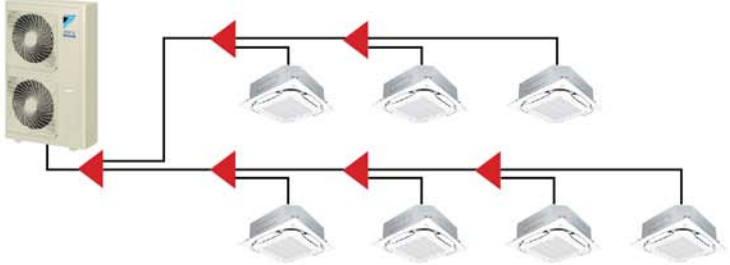
>> Super wiring system

A super wiring system is used to enable shared use of the wiring between indoor and outdoor units and the central control wiring, with a relatively simple wiring operation. The DIII-NET communication system is employed to enable the use of advanced control systems.



>> REFNET piping system

Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.



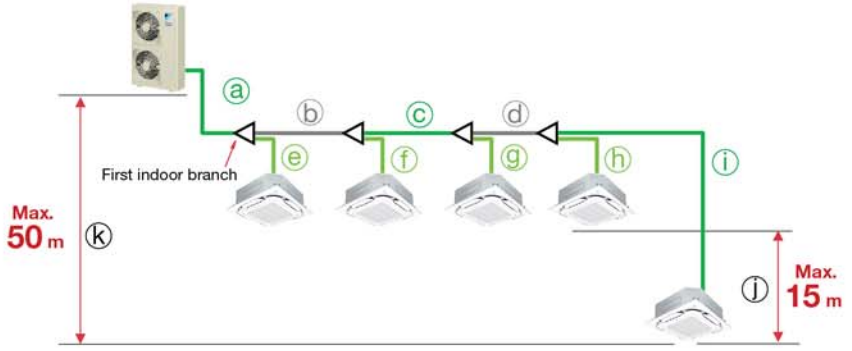
Makes the long piping design possible

Long piping length offers flexibility in the choice of installation positions, and simplifies system planning.

When only *VRV* indoor units are connected

Actual piping length
Max. 120 m

Total piping length
Max. 300 m

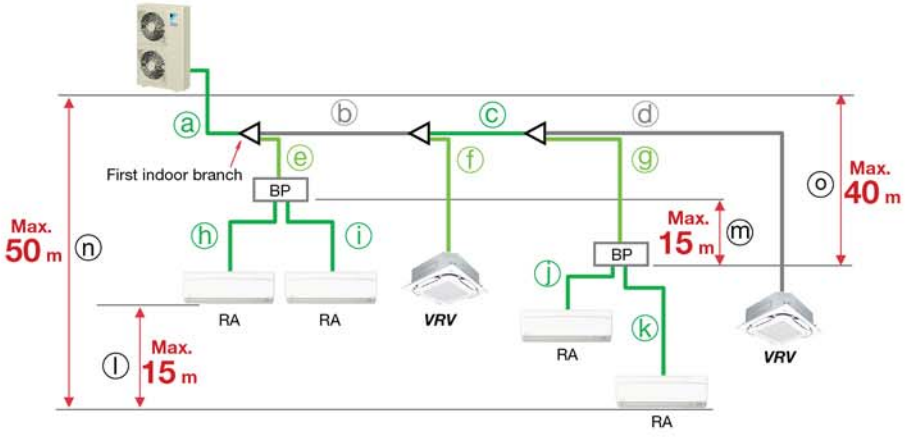


				4 HP	5 HP	6 HP	8,9 HP
Max. allowable piping length	Refrigerant piping length		a+b+c+d+i	50 m	70 m	120 m	100 m
	Total piping length		a+b+c+d+e+f+g+h+i	250 m	300 m	300 m	300 m
	Between the first indoor branch and the farthest indoor unit		b+c+d+i	40 m	40 m	40 m	40 m
Max. allowable level difference	Between the indoor units		j	10 m	15 m	15 m	15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above	k	30 m	30 m	50 m	50 m
		If the outdoor unit is below	k	30 m	30 m	40 m	40 m

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

Actual piping length
Max. 100 m

Total piping length
Max. 250 m



				4 HP	5 HP	6-9 HP
Max. allowable piping length	Refrigerant piping length		a+b+c+g+k, a+b+c+d	50 m	70 m	100 m
	Total piping length		a+b+c+d+e+f+g+h+i+j+k	250 m	250 m	250 m
	The first indoor branch - the farthest BP or ***VRV*** indoor unit		b+c+g, b+c+d	40 m	40 m	40 m
Max. & min. allowable piping length	BP unit - indoor unit	If indoor unit capacity index < 60	h, i, j, k	2 m–15 m	2 m–15 m	2 m–15 m
		If indoor unit capacity index is 60		2 m–12 m	2 m–12 m	2 m–12 m
		If indoor unit capacity index is 71		2 m–8 m	2 m–8 m	2 m–8 m
Min. allowable piping length	Outdoor unit - the first indoor branch		a	5 m	5 m	5 m
Max. allowable level difference	Between the indoor units		l	10 m	15 m	15 m
	Between BP units		m	10 m	15 m	15 m
	Outdoor unit - the indoor unit	If the outdoor unit is above	n	30 m	30 m	50 m
		If the outdoor unit is below	n	30 m	30 m	40 m
	Outdoor unit - the BP unit		o	30 m	30 m	40 m

Indoor Unit Lineup

Enhanced range of choices

A mixed combination of ***VRV*** indoor units and residential indoor units can be combined into one system, opening the door to stylish and quiet indoor units.

VRV indoor units

● New lineup

Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	200	250
		Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVS			●	●	●	●	●		●	●	●	●		
Ceiling Mounted Cassette (Round Flow)	FXFQ-AVS			●	●	●	●	●		●	●	●	●		
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVES		●	●	●	●	●								
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●				
Ceiling Mounted Cassette (Double Flow)	New FXCQ-AVMS		●	●	●	●	●	●		●		●			
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		●	●	●	●	●	●							
Slim Ceiling Mounted Duct (3D Airflow with Sensing)	New FXDSQ-AVM		●	●	●	●	●	●							
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PDV2S (with drain pump)	 (700mm width type)	●	●	●										
	FXDQ-PDVTS (without drain pump)		●	●	●										
	FXDQ-NDV2S (with drain pump)	 (900 / 1100mm width type)				●	●	●							
	FXDQ-NDVTS (without drain pump)					●	●	●							
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●							
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVS		●	●	●	●	●	●		●	●	●	●		
Ceiling Mounted Duct	FXMQ-PAVS		●	●	●	●	●	●		●	●	●	●		
	FXMQ-MVES													●	●
	New FXMQ-PVM													●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	
Ceiling Suspended	FXHQ-MAVS				●			●			●				
	New FXHQ-AVMS											●	●		
Wall Mounted	New FXAQ-AVMS		●	●	●	●	●	●							
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●							
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●							
Floor Standing Duct	FXVQ-NY1											●		●	●
Clean Room Air Conditioner	FXBQ-PVE					●	●	●							
	FXBPQ-PVE							●							
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h												

Residential indoor units with connection to BP units

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

Note: BP units are necessary for residential indoor units.

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

*Refer to page 18 for the maximum number of connectable indoor units.

Specifications

VRV IV S Series Outdoor Units

RXMQ-A



MODEL			RXMQ4AVES	RXMQ5AVES	RXMQ6AVES	RXMQ8AY1S	RXMQ9AY1S
Power supply			1-phase, 220 V, 50 Hz			3-phase, 380-415 V, 50 Hz	
Cooling capacity		Btu/h	41,300	47,800	54,600	76,400	81,900
		Btu/h*	42,700	49,300	56,300	79,000	84,100
		kW	12.1 / 12.5*	14.0 / 14.5*	16.0 / 16.5*	22.4 / 23.2*	24.0 / 24.7*
COP			3.68	3.56	3.86	3.77	3.49
Power consumption		kW	3.29	3.93	4.14	5.94	6.88
Capacity control		%	24 to 100	16 to 100		20 to 100	
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed swing type			Hermetically sealed scroll type	
	Motor output	kW	1.92	3.0	3.5	3.8	4.8
Airflow rate		m^3/min	76		106	140	
Dimensions (H×W×D)		mm	990×940×320		1,345×900×320	1,430×940×320	
Machine weight		kg	71	80	102	131	
Sound level		dB(A)	53		55	57	58
Operation range		°CDB	-5 to 46				
Refrigerant	Type		R-410A				
	Charge	kg	2.9	3.4	3.6	5.8	
Piping connections	Liquid	mm	ϕ9.5 (Flare)			ϕ9.5 (Brazing)	
	Gas		ϕ15.9 (Flare)		ϕ19.1 (Flare)	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB,19°CWB,; *27°CDB,19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: 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.
- Refrigerant charge is required.

Outdoor Unit Combinations

MODEL			RXMQ4AVES	RXMQ5AVES	RXMQ6AVES	RXMQ8AY1S	RXMQ9AY1S
kW			12.1	14.0	16.0	22.4	24.0
HP			4	5	6	8	9
Capacity index			108	125	150	200	215
Total capacity index of connectable indoor units	Combination (%)	50%	54	62.5	75	100	107.5
		100%	108	125	150	200	215
		130%	140	162.5	195	260	280
Maximum number of connectable indoor units			7	8	9	13	14

Note: Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit.

Option List

Outdoor Units

VRV IV S SERIES

No.	Item \ Type	RXMQ4A	RXMQ5A	RXMQ6A	RXMQ8A	RXMQ9A
1	Fixing box	KJB111A			–	
2	REFNET header	KHRP26M22H (Max. 4 branch)				
		KHRP26M33H (Max. 8 branch)				
3	REFNET joint	KHRP26A22T			KHRP26A22T, KHRP26A33T	
4	Central drain plug	KKPJ5G280		KKPJ5F180	KKPJ5G280	
5	Fixture for preventing overturning	KKTP5B112		KPT-60B160	KKTP5B112	
6	Wire fixture for preventing overturning	–		K-KYZP15C		

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.

Design

For consultants and architects

- **Combines energy efficiency and comfort**
  - Heat load calculation
  - CFD simulation to optimise outdoor unit layouts
- **Design flexibility**
  - Heat load calculation
  - Model selection
  - Drawing materials support

Sales proposals

For air conditioning engineers and dealers

- Heat load calculation
- Model selection

Daikin Engineering Supports

Model Selection Software

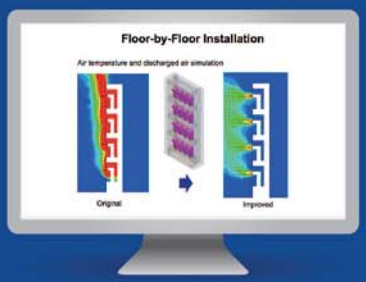
VRV Xpress

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

DT FLOW II

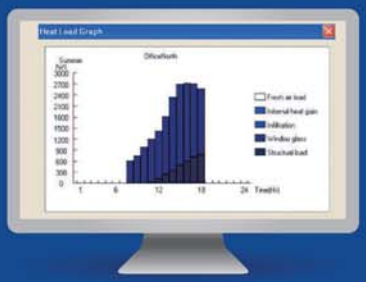
DT FLOW II is a simulation software that uses computational fluid dynamics (CFD), aiming to optimise outdoor unit layouts right at the design stage. When discharged air from the outdoor unit is drawn back into the suction vent, it can short circuit the system and lead to: decrease in efficiency of cooling 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 specif ications for Daikin products, including things like capacities and electric characteristics to support Business Information Modeling (BIM).

MEMO

DAIKIN

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.

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