



GLOBAL AIR SPECIALIST
FROM JAPAN



ADVANTAGE

X' TENSIVE
RANGE

X' TRA
POWER SAVINGS

X' CELLENT
TECHNOLOGY

X' TENDED
RELIABILITY

PRESENTING THE NEW
Cooling Only



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VRV X

Equipped with Advanced Technology, that results in high energy efficiency. This technological innovation gives end user the advantage of better comfort and works further towards creating a sustainable environment.



DAIKIN

The world leader in air conditioning

At Daikin, we are a leading innovator and provider of advanced, high-quality air conditioning solutions for residential, commercial and industrial applications.

As world's leading air conditioning company, we are committed to deliver air conditioning solutions that enhance the quality of life all around the world.

Established in 1924, Daikin Industries Ltd., is a diverse multinational company, active in air conditioning, chemicals and oil hydraulics. With headquarters at Osaka, Japan, our Daikin family has more than 67,000 members, working across 80 production base and 208 consolidated subsidiaries worldwide.

As the world's sole manufacturer that develops a long line of products from refrigerants to air conditioners, we advocate comfortable living on the strength of advanced technologies.

We are present in USA, Europe and Russia, The Middle East, Africa, Asia, Oceania and Middle-South America. We aim to serve our customers in each of these markets by providing optimal air conditioning solutions.



EUROPE / MIDDLE EAST / AFRICA



Daikin Europe N.V.



Daikin Airconditioning France



Daikin Airconditioning Germany



Daikin Airconditioning Central Europe



Daikin Airconditioning Spain



Daikin Airconditioning Italy



Daikin Airconditioning UK



Daikin Industries Czech Republic



Daikin Chemical France

CHINA



Daikin (China) Investment



Daikin Airconditioning Shanghai



Xi'an Daikin Qing'an Compressor



Hui Zhou Daikin Suns Airconditioning



Daikin Device (Suzhou)







Daikin Fluoro Coating Shanghai



Daikin Fluorochemicals China



-  Osaka Head Office
-  Production Site
-  Tokyo Office
-  Overseas Affiliate

ASIA / OCEANIA



Daikin Airconditioning India



Daikin Compressor Industries



Daikin Airconditioning Singapore



Daikin Australia



Daikin Industries Thailand



Daikin Industries Head Office Japan (Inside Umeda Centre Building)

NORTH AMERICA/CENTRAL & SOUTH AMERICA



Daikin America



Daikin AC America



Daikin Holding USA

Exploring new R&D frontiers

At Daikin, we are creating value through innovative technologies. As a global industry front-runner, we are carrying out research and development on the world's most advanced air conditioning technology.

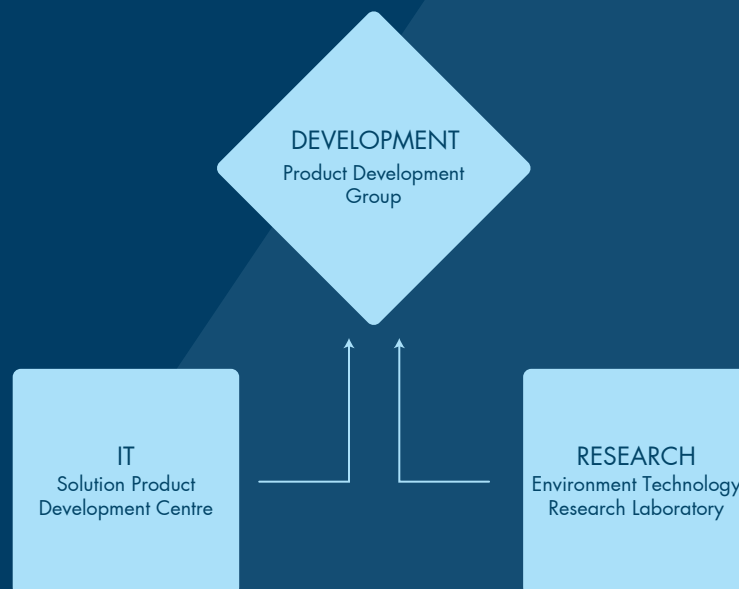
Our strong R&D edge has helped us create futuristic products that enrich people's lives. As symbolised by the VRV, Daikin has put forth a multitude of products and varied technology that have always been and continue to be, at the forefront of innovation.

To be able to offer such products and services that delight and astound our customers, we have constructed an advanced R&D architecture.



Formation of a three-division system of research, IT and development to support our superior products.

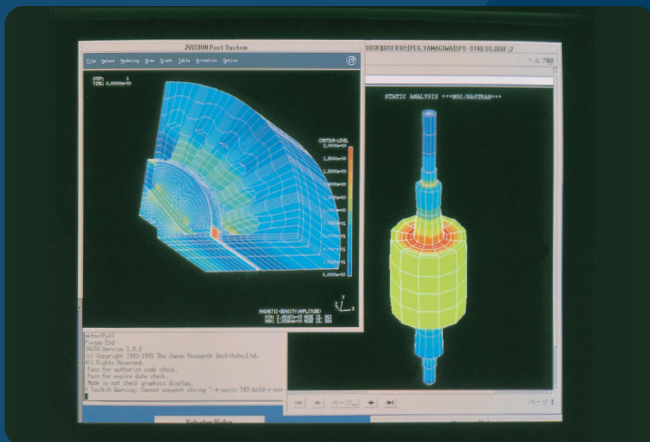
To create more advanced functions and new value, we have instituted specialised R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'. In combination with the Product Development Group, each of the three divisions work in close co-operation to precisely ascertain the customers' needs and to enable commercialisation of products, incorporating advanced technology that take the lead over our competitors.



Environmental Technology Research Laboratory: Intensive Research on Environmentally Conscious, Energy Saving Air Conditioning Technology

Accelerating globalisation of our air conditioning business and varied needs of customers across geographies are increasing our research challenges. We have established a research laboratory devoted to the two fields of 'air conditioning' and 'the environment'. With our mission to promote energy savings in air conditioners, we are engaged in R&D on cutting-edge technologies. Our aim is to create futuristic products from fundamental research on motor inverters and other areas to support individual product development.

Going forward, we will elevate our technology edge to achieve further business expansion globally.



The Solutions Product Development Centre: Integrating Air Conditioners with IT

Keeping in mind the changes in business brought in by the computerisation and networking of society, we have integrated IT into our air conditioners, including communication technology, software technology and digital control. We are initiating R&D that will offer new system services - a comfortable environment with superior energy savings by networking air conditioners. Such a scenario will enable them to exchange information with service centres.



Technology & Innovation Centre, Japan:

Aiming for new value creation as a core base for technology development.

VRV - X System



World's most advanced **VRV X** air conditioning system with Innovative VRT technology.

First launched in Japan in 1982, the Daikin VRV system has been embraced by the world markets for over three decades. Now, we at Daikin introduce the next generation VRV X system to reinforce our industry leadership. The system offers an enhanced line-up to meet an ever widening variety of needs, while improving energy savings, comfort and ease of installation.

The VRV X is the most advanced air conditioning system in the world and is ideal for small and large spaces.

Energy saving technology for VRV X System

X' TRA POWER SAVINGS

Next Generation
Compressor &
VRT Smart Control

VRT-Variable Refrigerant Temperature in Indoor Unit (IDU) and Outdoor Unit (ODU)

The new VRV X system now features VRT technology in IDU & ODU. VRT automatically adjusts refrigerant temperature to individual building load and climate requirement, thus further improving annual energy efficiency and maintaining comfort. With this technology, running costs are reduced.

X' TENSIVE RANGE

Up to 66 HP

X' CELLENT TECHNOLOGY

4D Inverter
System

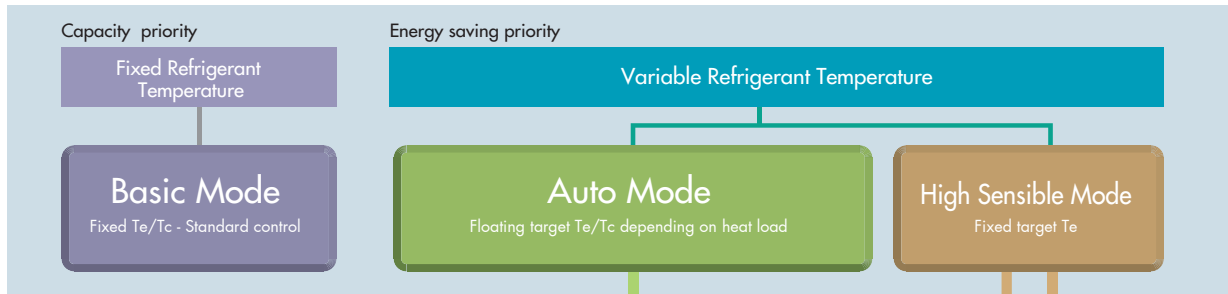
X' TENDED RELIABILITY

Auto-Optimisation
Refrigerant
Charging

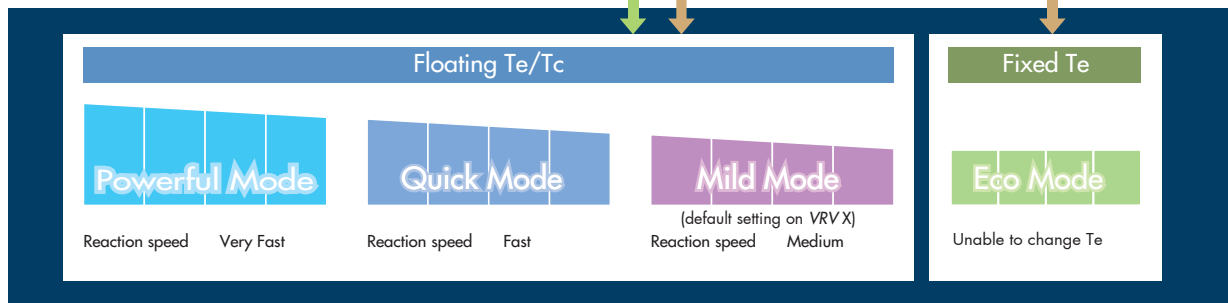
Fine control to match user preference available through mode selection

Basic mode is selected to maintain optimal comfort.

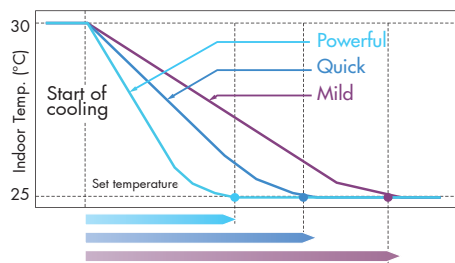
VRT is selected to save energy and prevent excessive cooling.



Selecting VRT enables operation to be optimised for either energy efficiency or rapid cooling.



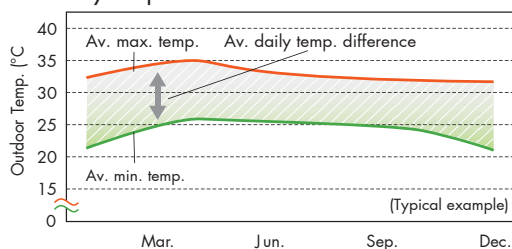
VRT offers quicker cool down to shorten uncomfortable pull down time.



Powerful mode	The refrigerant temperature can go low in cooling than the set minimum. Gives priority to very fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Quick mode	Gives priority to fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Mild mode	Gives priority to efficiency. The refrigerant temperature goes down gradually, giving priority to the efficiency of the system instead of the reaction speed.

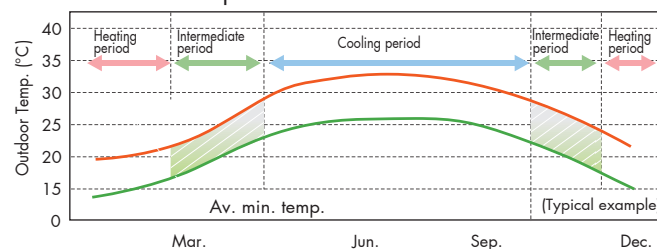
Recommended for use in these situations

☐ Cooling only regions having differences in daily temperature.



VRT is particularly effective at night when temperatures are low.

☐ Cooling regions having periods of mild outdoor temperatures.



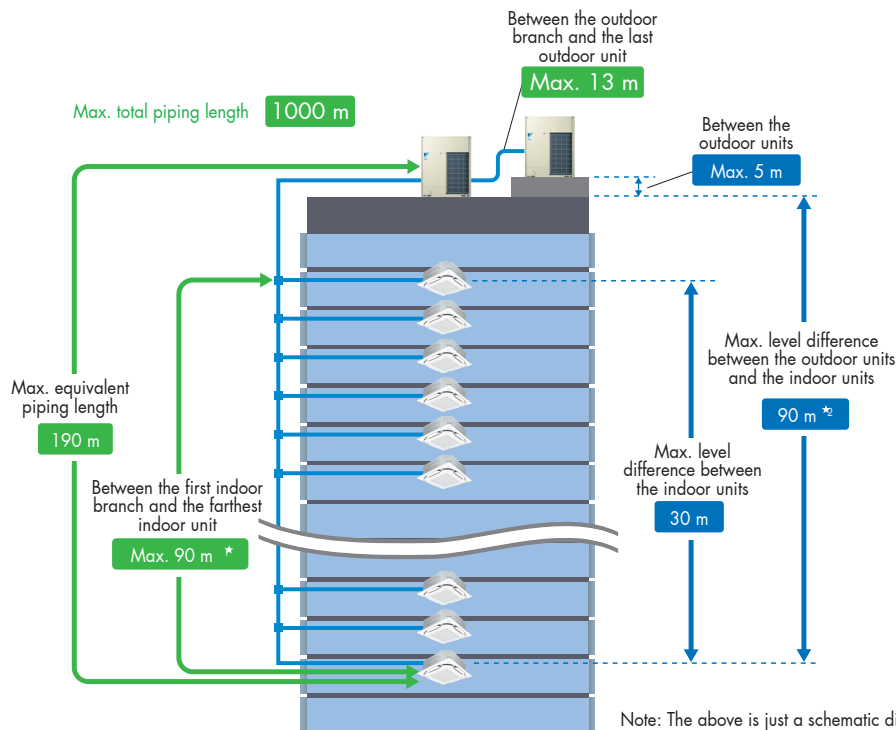
VRT is particularly effective during the intermediate periods.

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.



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

1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length.
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.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	FXDQ,	FXMQ-PB,	FXAQ, models	Other VRV indoor unit models* ¹
Single outdoor units	200%			200%
Double outdoor units				160%
Triple outdoor units				130%

*¹ For the FXFQ25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.

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 65 for outdoor unit combination details.



MODEL		RXQ215ARY6B	RXQ430ARY6B	RXQ645ARY6B
Combination Units		-	RXQ215ARY6B RXQ215ARY6B	RXQ215ARY6B RXYQ215TRY6B RXQ215ARY6B
Power Supply		3-Phase, 380-415 V, 50Hz		
Cooling Capacity	Btu/h	204,700	409,400	614,100
	kW	60	120	180
Power Input (Cooling)	kW	19.7	39.4	59.1
C.O.P (Cooling)	-	3.05	3.05	3.05
Capacity Control	%	50-130	50-130	50-120
Casing Colour		Ivory white (5Y7.5/1)		
Compressor	Type	Hermetically Sealed Scroll Type		
	No. of compressor	2	4	6
Airflow Rate	m ³ /min	297	594	891
Dimensions (HXWxD)	mm	1,657X1,240X765	(1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)
Machine weight	Kg	285	285+285	285+285+285
Sound level	dB(A)	65	68	70
Operation Range	Cooling °CDB	10 to ~49	10 to ~49	10 to ~49
Refrigerant	Type	R410A		
	Charge Kg	11.8	11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid mm	φ 15.9 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas mm	φ 28.6 (Brazing)	φ 41.3 (Brazing)	41.3 (Brazing)

Optional Accessories		RXQ215ARY6B
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

Optional Accessories		RXQ430ARY6B
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T
Pipe size reducer		KHRP26M73TP, KHRP26M73HP
Outdoor unit connection piping kit		BHFP22P100

Optional Accessories		RXQ645ARY6B
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T
Pipe size reducer		KHRP26M73TP, KHRP26M73HP
Outdoor unit connection piping kit		BHFP22P151

- Note**
- Ask an authorised Daikin dealer to install Daikin products. Do not try to install the product yourself or get it installed by any unauthorised dealer. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion. Warranty of the product shall be void if not installed by an authorised Daikin dealer.
 - Use only those parts and accessories supplied or specified by Daikin. Ask authorised Daikin dealer for any repair or component. Warranty of the product / component shall be void if non-specified spares are used or repaired by a non Daikin dealer.
 - Please ensure to install ELCB (Earth Leakage Circuit Breaker) for outdoor units to prevent ground fault effects.
 - Read the user's manual carefully before using the product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

For any enquiry, contact your nearest dealer.



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