DAIKIN

PCVMT2304

Offers a wide variety of new functions
that benefit everyone involved.

VRV H SERIES

R-410A

Heat Pump 50 Hz

Next Generation ***VRV*** system

Featuring unique functions in a new large capacity casing

VRV H series enables cooling and heating operation with a single ***VRV*** system.
VRV H series adopt a new casing to realise a single module of up to 24 class (HP). In addition, the new models have achieved significant energy savings with improved technology. The operating performance has been improved in all directions by introducing unique ideas, technologies and a wide variety of functions to strengthen design flexibility, easy installation and reliability.
We provide higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and even building management.

VRV H SERIES
Heat Pump

For OWNERS

Lifecycle Cost & Comfort

Large-capacity Single Module

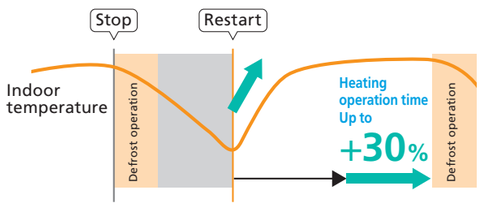
- Installation space and cost are reduced by large–capacity casing for max. 24 class (HP).

Energy Saving Technology

- Further improvement of energy saving by high efficiency compressor and VRT Smart II control.
- Achieves high TCSPF/HSPF, that reduces running cost.

Defrost before stop

- Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation.

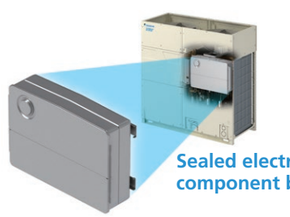


Defrost Learning Function

- If defrost operation time is short, the system will optimise defrost conditions, extending the heating operation time.

Reliability

- Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.

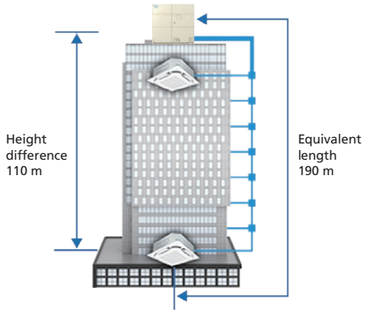


For CONSULTANTS

Flexible Design & Engineering Supports

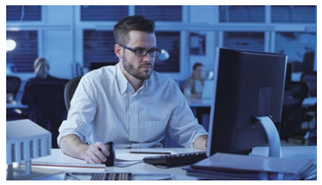
Long Refrigerant Piping

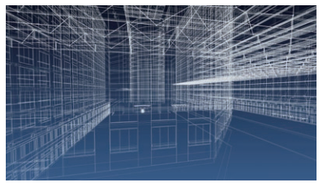
- Equivalent length max. 190 m
- Height difference extension max. 110 m (20 m longer than conventional models)
- By applying for both at the same time, supports a wide range of applications.



Engineering Support Software

- Strongly supports for facility design, offering model selection assistance, energy saving and IEQ simulations, drawing support, etc.

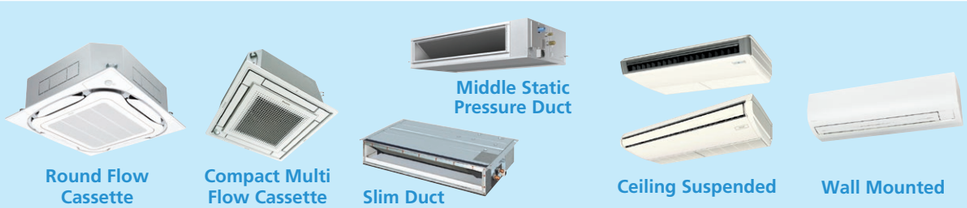




Model Selection
Drawing Supports
Analysis and Simulation

Varied Lineup of Indoor Units

- With various types of indoor units available, comfortable airflow is ensured in every space.

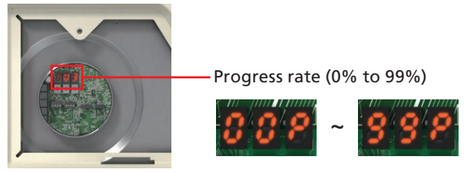


For INSTALLERS

Easy Installation

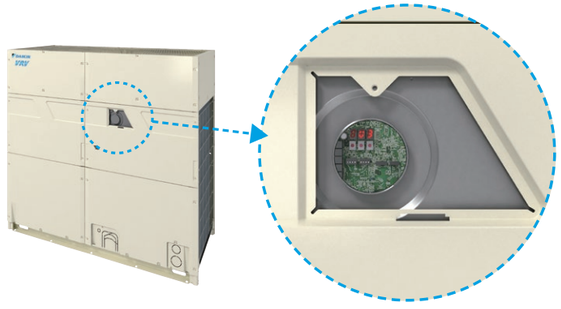
Process visualization (Test run only)

- A progress rate (0% to 99%) is indicated on the PC board for Easy arrangement for on-site work.



Electrical Component Service Window

- Easy access to the main PCB without removing the front panel.
- Quick field setting and trial operation.



Large-capacity Single Module

- Installation space and cost are reduced by large–capacity casing for max. 24 class (HP).

For BUILDING MANAGEMENTS

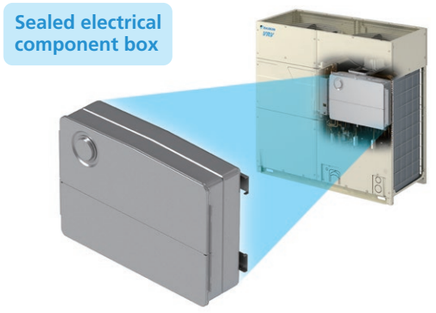
Reliability & Comfort

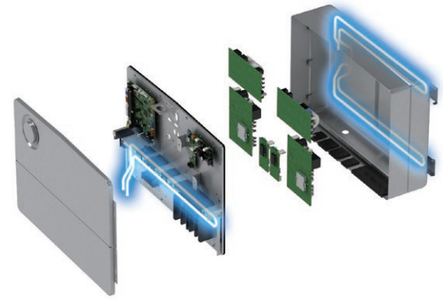
IP55 Sealed Component Box

- Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.

Refrigerant Piping Cooling System

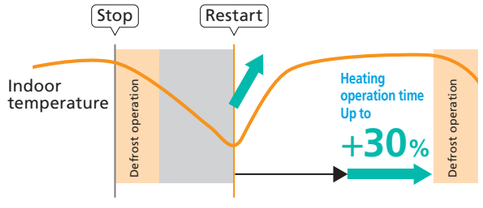
- Refrigerant cooling circuit enables operation in high outdoor temperatures.





Defrost before stop

- Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation.



Defrost Learning Function

- If defrost operation time is short, the system will optimise defrost conditions, extending the heating operation time.

New Casing

New Casing

Offers advanced design and new structure with excellent workability.
The larger single module casing reduces installation cost and space also.

8, 10, 12 class (HP)

RXYQ8BYM RXYQ12BYM
RXYQ10BYM

14, 16, 18, 20 class (HP)

RXYQ14BYM RXYQ18BYM
RXYQ16BYM RXYQ20BYM

22, 24 class (HP)

RXYQ22BYM
RXYQ24BYM

Outdoor unit combination

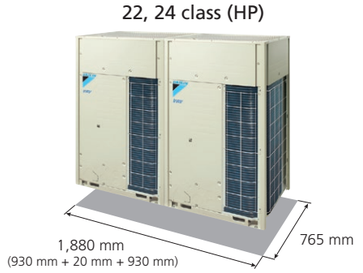
System capacity		Number of units	Single module (class)								
Class (HP)	kW		8	10	12	14	16	18	20	22	24
8	22.4	Single	●								
10	28.0			●							
12	33.5				●						
14	40.0					●					
16	45.0						●				
18	50.0							●			
20	56.0								●		
22	61.5									●	
24	67.0										●
26	73.5	Double			●	●					
28	78.5				●		●				
30	83.5				●			●			
32	89.5				●				●		
34	96.0					●			●		
36	101						●		●		
38	106							●	●		
40	112								●●		
42	117								●	●	
44	123								●		●
46	128									●	●
48	134										●●
50	139	Triple			●			●	●		
52	145				●				●●		
54	152					●			●●		
56	157						●		●●		
58	162							●	●●		
60	168								●●●		

Large-capacity single module

Single module reduces installation space

Conventional models
VRV H SERIES

22, 24 class (HP)

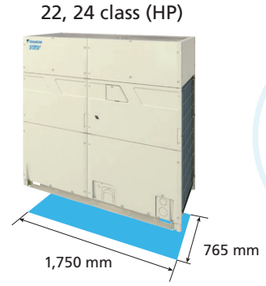


Installation space **1.44 m²**

Machine weight **400 kg**

New models
VRV H SERIES

22, 24 class (HP)



Installation space **1.34 m²**

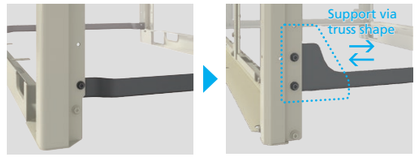
Machine weight **385 kg**

Installation space
7% less
Machine weight
4% less

New reinforced design

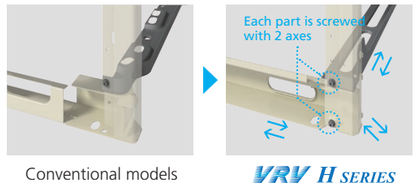
The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.

1 Minimises horizontal wobbling



Conventional models VRV H SERIES

2 Minimises vibration from various angles



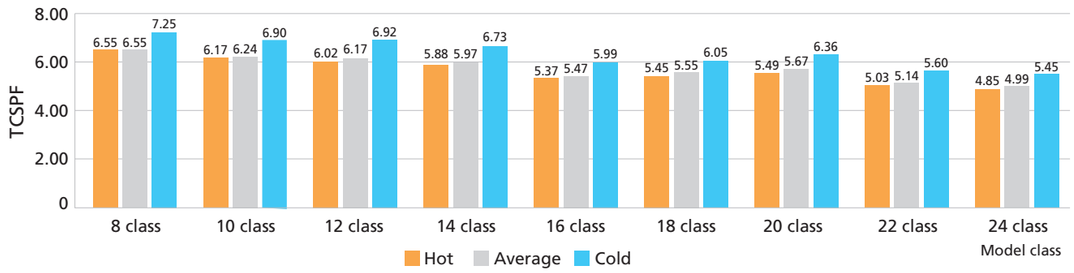
Conventional models VRV H SERIES

Energy Savings

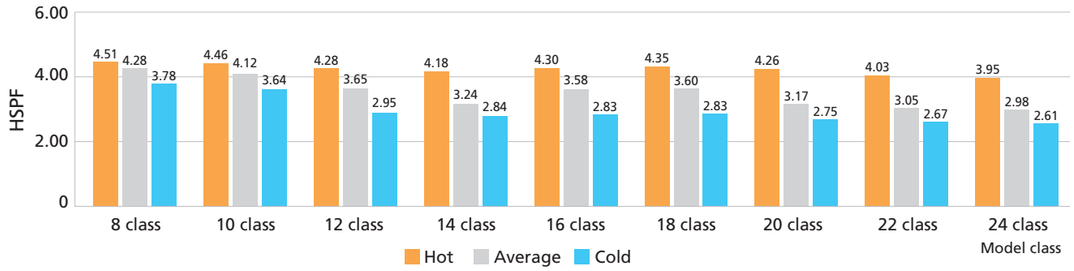
High TCSPF / HSPF

Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.
Achieved high values for TCSPF and HSPF in all series.

TCSPF (for commercial use)

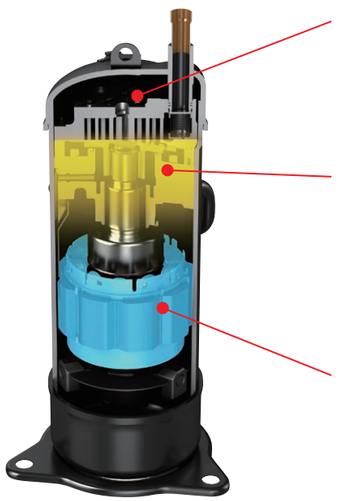


HSPF (for commercial use)



Hardware technology High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.



Improvement of the discharge port

By improving the shape of the refrigerant discharge port, the pressure increase near the discharge port of the gas refrigerant after compression is suppressed and the compression loss is reduced.

Optimising the back pressure control / New oil control function

In addition to the conventional intermediate pressure adjustment port, the pressing pressure of the orbiting scroll during operation has been optimised, and the newly adopted oil control mechanism has reduced gas leakage and mechanical loss.

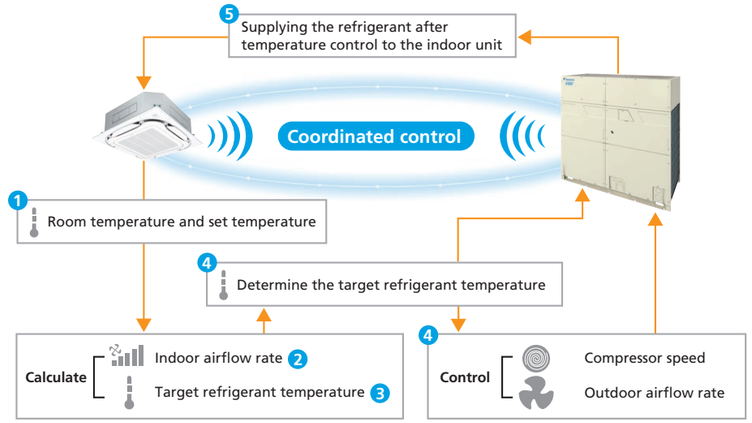
Adoption of a high-performance concentrated motor

By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

Software technology VRT Smart II control

Further improvement of energy savings is achieved due to optimal control of the outdoor airflow rate.

Optimal supply exactly meets the required capacity of indoor units

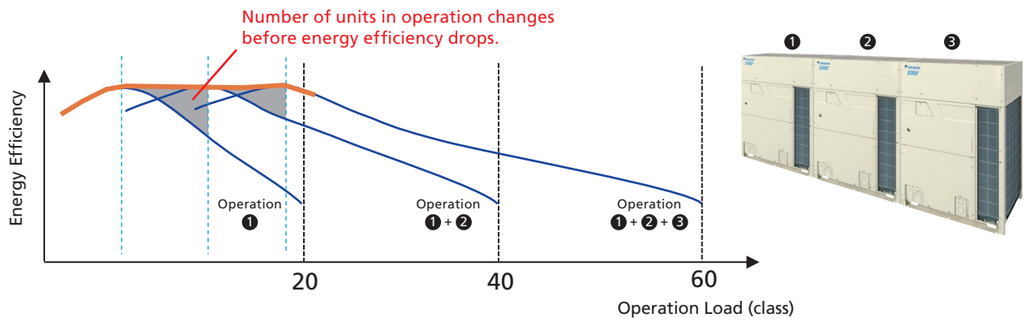


1. Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
2. Indoor unit will try to regulate with fan speed control.
3. If fan cannot control speed, indoor unit request Te change from outdoor unit.
4. Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor speed and outdoor airflow rate to change the refrigerant temperature.
5. The outdoor unit supplies the refrigerant adjusted to moderate temperature to the indoor unit.

Optimal operating unit number in multi-system

- In outdoor multi-systems, the number of units operated is automatically controlled to ensure the best total efficiency according to the air-conditioning load.
- As the operating efficiency at low loads has been dramatically improved, the system controls each unit automatically in order to maintain operation at a lower load, operating at the highest possible efficiency.

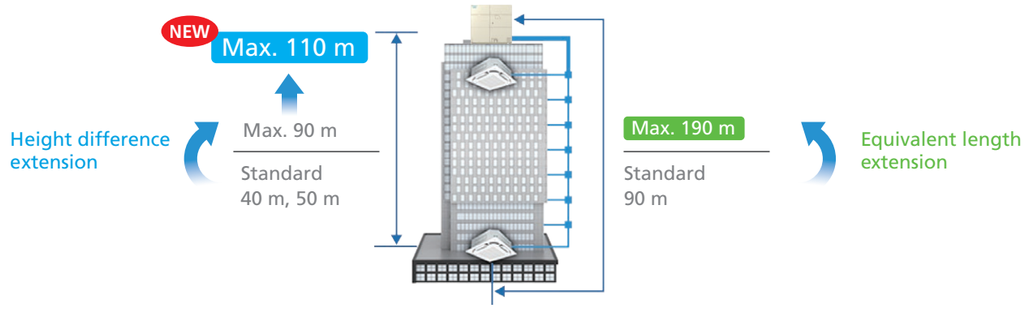
■ Overview of multi-unit control for triple units (60 class)



Design Flexibility

Simultaneous extension of height difference and equivalent length

Design flexibility is further improved by simultaneous extension of height difference, improved from 90 m to 110 m, and equivalent length (up to 190 m).



- **Height difference extension** Max. 110 m

  For height differences exceeding 50 m with the outdoor unit above the indoor unit and 40 m with the outdoor unit below, the main liquid piping size must be increased.

  The operating temperature range is up to 49˚C (Outdoor units above indoor units only).
  The minimum connection capacity index of the indoor unit shall be 63 or more (Outdoor units above indoor units only).

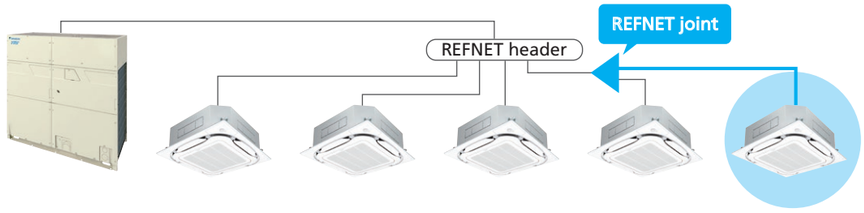
- **Equivalent length** Max. 190 m

  When the equivalent piping length from outdoor unit to indoor unit is 90 m or more, be sure to increase the size of the liquid and gas pipes of the main piping.

* In addition to increasing the size of the main pipe, there are other piping restrictions regarding height difference extension and equivalent length. Check the Installation Manual for details.

REFNET header downstream branching supported

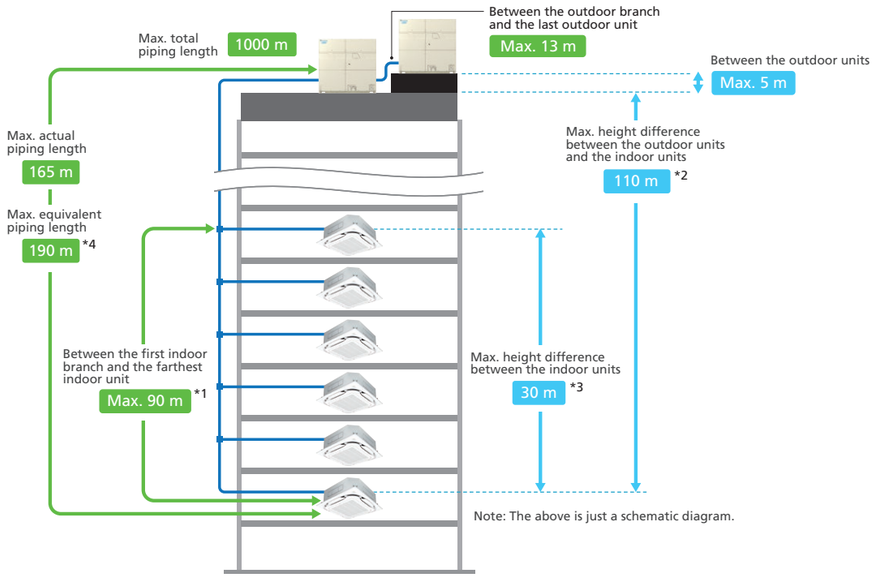
Piping branch by REFNET joint is possible downstream of REFNET header.
The indoor unit arrangement can be more flexible.



REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H,KHRP26M33H,KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

Long piping length

Long piping length enhances design flexibility, enabling support for large buildings



Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)*4
	Total piping length	1000 m
	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)
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m*3
	Between the outdoor units and the indoor units	110 m*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. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below 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.
*3. When Height differences are 15 m or more, maximum actual piping length must be 120 m.
*4. If equivalent piping length from outdoor unit to indoor unit is 90 m or more, make sure to size up the liquid and gas pipes of the main piping.

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		Indoor units: FXDQ, FXSQ, FXMQ-PA, FXAQ	Other ***VRV*** indoor unit models*1
Single outdoor units	8 - 20 class (HP)	200%	200%
	22, 24 class (HP)		180%
Double outdoor units			160%
Triple outdoor units			130%

*1 For the FXF(S)(T)(R)Q25 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 19 for outdoor unit combination details.

Engineering Supports

Design assistance and sales proposal

Model Selection
Drawing Supports
Analysis and Simulation

Model Selection

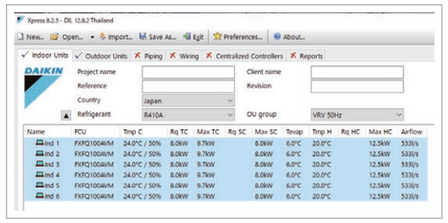
VRV Xpress

Model Selection

• Piping design and refrigerant charge calculation

Standard *VRV* model selection software

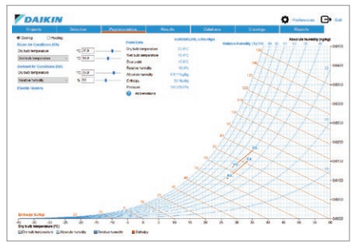
The optimum system is automatically selected just by inputting the design conditions. Refrigerant piping and additional refrigerant charge amount are automatically selected.



Ventilation Xpress

Ventilation products selection

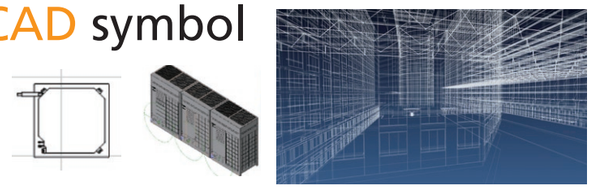
Heat Reclaim Ventilator (VAM series) or Outdoor Air Processing Unit (OAPU) can be selected by inputting conditions such as ventilation volume and external static pressure.



Drawing Supports

3D Revit data / 2D CAD symbol

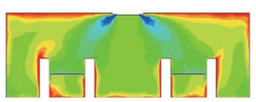
Revit data is used in BIM. It includes not only 3D CAD data but also device specification data such as airflow rate and capacity. Daikin also provides symbol data compatible with 2D CAD.

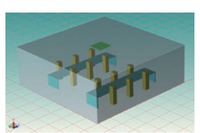


Analysis and Simulation

DT-FLOW2 (Airflow simulation)

IEQ simulation

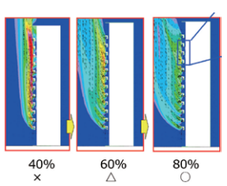




Indoor air environment analysis software

Simulates temperature and humidity, CO_2, dust, and air age. Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.

Outdoor airflow simulation



Outdoor airflow analysis software

Simulates the short circuit of the outdoor unit and uses it as a reference for optimal installation. Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.

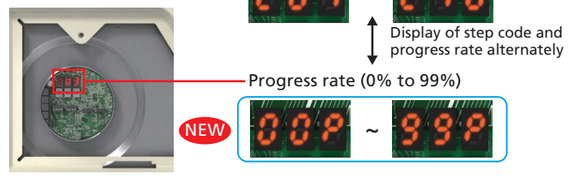
Easy Installation

Easy Installation

Process visualization (Test run only*)

In the new models, in addition to the actual step (t01 to t10), a progress rate (0% to 99%) is available as a guideline when making arrangements for on-site work.

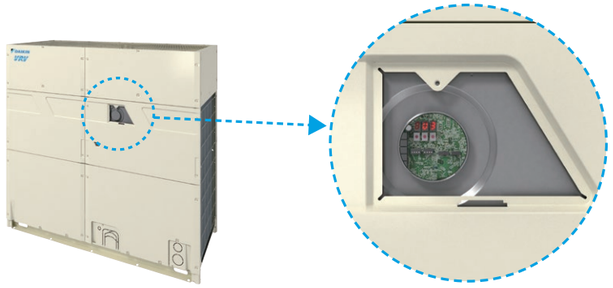
* Effective when test run is carried out independently after manual refrigerant charging.



Electrical component service window

An electrical component service window is newly installed on the front panel.
Main PCB 7-segment LED can be accessed without removing the front panel.

Workability is greatly improved during on-site setting or test run.
You can also quickly check the error code during service.



Improved refrigerant piping workability

By dividing piping and wiring holes to the left and right, piping and wiring work can be easily performed on site.

Conventional models

Working in closed place is difficult

VRV H

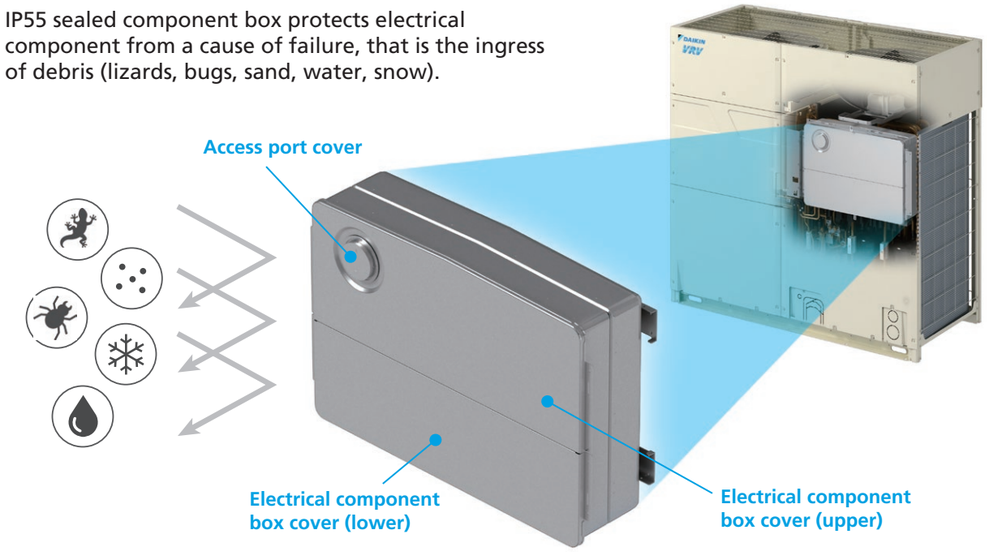
Work becomes easier with sufficient space

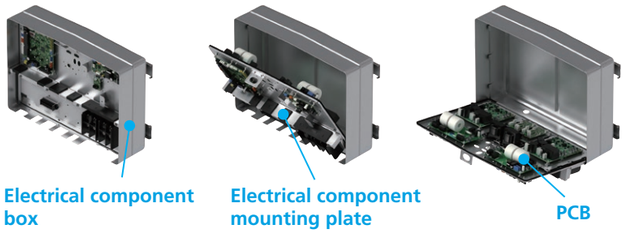
Reliability

Reliability

IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water, snow).





The internal mounting plate is hinged, enabling easy maintenance of the PCB on the back.

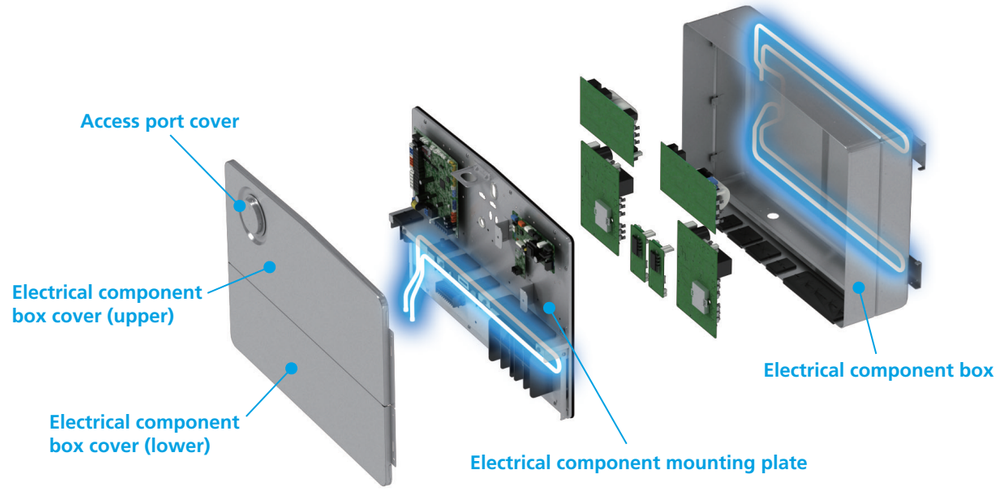
What is IP55?

IP55 is the degrees of dust and water protection for the electrical component box equipped on the product.

*IP55 is the protection degree of the wiring box as a single unit. The protection grade of outdoor unit is IP14 as well as conventional model.

Enables operation in high outdoor temperature

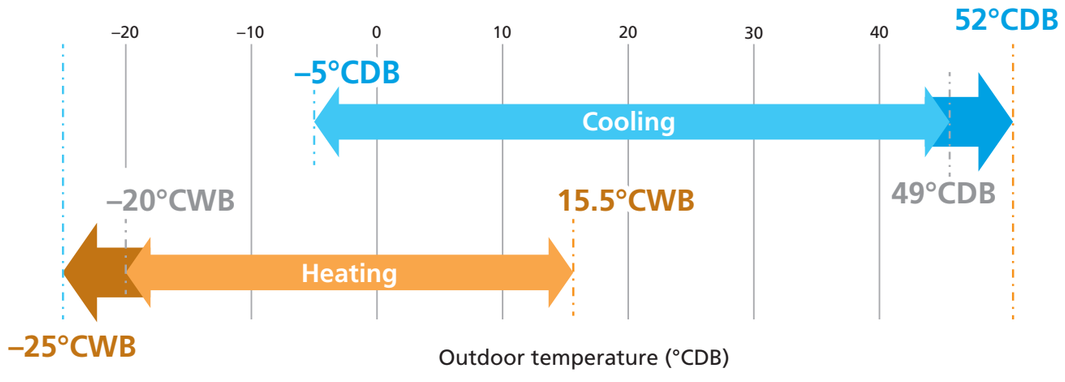
Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



Extended temperature operation

Operation is now possible on a wider range of temperatures.

Upper limit up to 52°CDB in Cooling mode
Lower limit down to –25°CWB in Heating mode

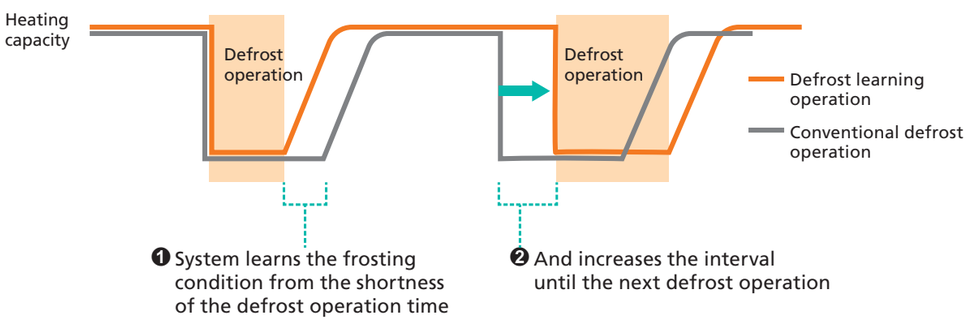


Comfort

Defrost learning function

If defrost operation time is short, the system will optimise defrost start conditions for the next cycle, Improving comfort by extending the heating operation time.

Heating operation time improved by up to 10%!

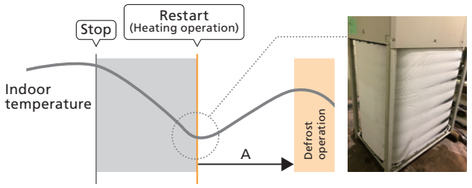


Defrost before stop

Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation, and extends the continuous heating operation time after restarting, thereby improving comfort.

Heating operation time is improved by up to 30%!

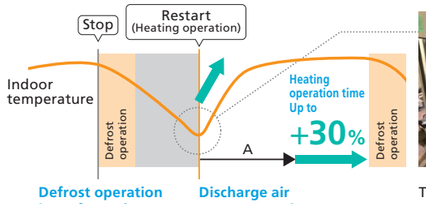
Conventional defrost operation



Due to the low discharge air temperature, the defrost operation starts before the room temperature has fully increased.

Frost from the previous heating operation remains in the heat exchanger before restarting.

Defrost before stop



Defrost operation is performed before the unit is shut down.

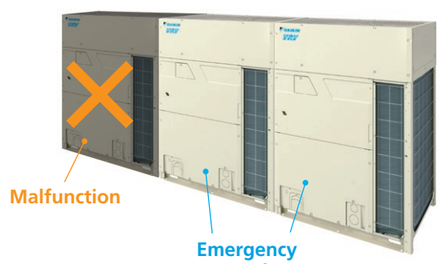
Discharge air temperature in heating operation rises quickly

There is no frost on the heat exchanger before restarting.

* Conditions for effectiveness estimation : Outdoor air temperature 2°C
Round flow cassette with sensing operating at 100% capacity

Double backup operation functions

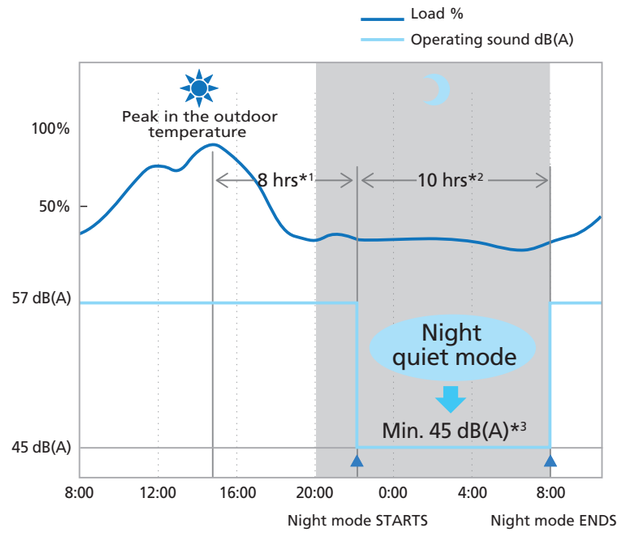
Unit backup operation function



Compressor backup operation function

Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood.
Three selectable modes are available depending on the required level.



*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 class outdoor unit.

Notes: • This function is available in setting at site.
• The operating sound in quiet operation mode is the actual value measured by our company.
• The relationship of outdoor temperature (load) and time shown above is just an example.

Lineup and Option List

Capacity range from 8 to 60 class (HP)

	class (HP)	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
VRV H SERIES	Single outdoor units	●	●	●	●	●	●	●	●	●																		
	Double outdoor units										●	●	●	●	●	●	●	●	●	●	●	●						
	Triple outdoor units																						●	●	●	●	●	●

Outdoor unit combinations

class (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*2
8	22.4	200	RXYQ8B	RXYQ8B	–	100 to 260 (400)	13 (20)
10	28.0	250	RXYQ10B	RXYQ10B	–	125 to 325 (500)	16 (25)
12	33.5	300	RXYQ12B	RXYQ12B	–	150 to 390 (600)	19 (30)
14	40.0	350	RXYQ14B	RXYQ14B	–	175 to 455 (700)	22 (35)
16	45.0	400	RXYQ16B	RXYQ16B	–	200 to 520 (800)	26 (40)
18	50.0	450	RXYQ18B	RXYQ18B	–	225 to 585 (900)	29 (45)
20	56.0	500	RXYQ20B	RXYQ20B	–	250 to 650 (1,000)	32 (50)
22	61.5	550	RXYQ22B	RXYQ22B	–	275 to 715 (990)	35 (49)
24	67.0	600	RXYQ24B	RXYQ24B	–	300 to 780 (1,080)	39 (54)
26	73.5	650	RXYQ26B	RXYQ12B + RXYQ14B	BHFP22R135	325 to 845 (1,040)	42 (52)
28	78.5	700	RXYQ28B	RXYQ12B + RXYQ16B		350 to 910 (1,120)	45 (56)
30	83.5	750	RXYQ30B	RXYQ12B + RXYQ18B		375 to 975 (1,200)	48 (60)
32	89.5	800	RXYQ32B	RXYQ12B + RXYQ20B		400 to 1,040 (1,280)	52 (64)
34	96.0	850	RXYQ34B	RXYQ14B + RXYQ20B		425 to 1,105 (1,360)	55 (64)
36	101	900	RXYQ36B	RXYQ16B + RXYQ20B		450 to 1,170 (1,440)	58 (64)
38	106	950	RXYQ38B	RXYQ18B + RXYQ20B		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXYQ40B	RXYQ20B × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXYQ42B	RXYQ20B + RXYQ22B		525 to 1,365 (1,680)	
44	123	1,100	RXYQ44B	RXYQ20B + RXYQ24B		550 to 1,430 (1,760)	
46	128	1,150	RXYQ46B	RXYQ22B + RXYQ24B		575 to 1,495 (1,840)	
48	134	1,200	RXYQ48B	RXYQ24B × 2		600 to 1,560 (1,920)	
50	139	1,250	RXYQ50B	RXYQ12B + RXYQ18B + RXYQ20B	BHFP22R168	625 to 1,625 (1,625)	
52	145	1,300	RXYQ52B	RXYQ12B + RXYQ20B × 2		650 to 1,690 (1,690)	
54	152	1,350	RXYQ54B	RXYQ14B + RXYQ20B × 2		675 to 1,755 (1,755)	
56	157	1,400	RXYQ56B	RXYQ16B + RXYQ20B × 2		700 to 1,820 (1,820)	
58	162	1,450	RXYQ58B	RXYQ18B + RXYQ20B × 2		725 to 1,885 (1,885)	
60	168	1,500	RXYQ60B	RXYQ20B × 3		750 to 1,950 (1,950)	

Notes: *1. For multiple connection of 26 class systems and above, 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 RXYQ8-20BYM, 180% for RXYQ22/24BYM, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 12 for note on connection capacity of indoor units.

Option List

No.	Item		RXYQ8B RXYQ10B RXYQ12B RXYQ14B RXYQ16B RXYQ18B RXYQ20B RXYQ22B RXYQ24B	RXYQ26B RXYQ28B RXYQ30B RXYQ32B RXYQ34B RXYQ36B RXYQ38B RXYQ40B RXYQ42B RXYQ44B RXYQ46B RXYQ48B	RXYQ50B RXYQ52B RXYQ54B RXYQ56B RXYQ58B RXYQ60B
1	Distributive piping*1	REFNET header	KHRP26M22H(Max. 4 branch), KHRP26M33H(Max. 8 branch), KHRP26M72H(Max. 8 branch), KHRP26M73H(Max. 8 branch)		
		REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA		
		Pipe size reducer	KHRP26M73HP		
2	Outdoor unit multi connection piping kit		–	BHFP22R135	BHFP22R168

Note: *1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

Option PCB

No.	Item	RXYQ8B RXYQ10B RXYQ12B	RXYQ14B RXYQ16B RXYQ18B	RXYQ20B RXYQ22B RXYQ24B	RXYQ26B RXYQ28B RXYQ30B	RXYQ32B RXYQ34B RXYQ36B	RXYQ38B RXYQ40B RXYQ42B	RXYQ44B RXYQ46B RXYQ48B	RXYQ50B RXYQ52B RXYQ54B	RXYQ56B RXYQ58B RXYQ60B
1	DIII-NET expand adaptor + Wire harness adaptor kit	DTA109A51 + BER11A								
2	External control adaptor	DTA104A62								

Indoor Unit Lineup

Enhanced range of choices

● New lineup ● Indoor units subject to VRT smart control

Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette	FXFQ-AVM*1			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)	●	●	●													
		FXDQ-NDVE	(900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1*2		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	FXMQ-MFV1*1											●					●	●
		FXMQ-AFVM									●	●		●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing	FXNQ-MAVE*1		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB*2		●	●	●	●	●	●										
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE*2		Airflow rate 500-950 m³/h															
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h															
Air Handling Unit		AHUR		8-60 class															

Notes:
1. For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit FXMQ-MF series).
2. *1: Not available for New Zealand
*2: Not available for Australia

Outdoor Unit Specifications

Specifications

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.
Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold).
This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

Heat Pump

Model			**RXYQ8BYM**	**RXYQ10BYM**	**RXYQ12BYM**	**RXYQ14BYM**	**RXYQ16BYM**	**RXYQ18BYM**	**RXYQ20BYM**	**RXYQ22BYM**	**RXYQ24BYM**	**RXYQ26BYM**	**RXYQ28BYM**	**RXYQ30BYM**	**RXYQ32BYM**	**RXYQ34BYM**
Combination units			—	—	—	—	—	—	—	—	—	RXYQ12BYM	RXYQ12BYM	RXYQ12BYM	RXYQ12BYM	RXYQ14BYM
			—	—	—	—	—	—	—	—	—	RXYQ14BYM	RXYQ16BYM	RXYQ18BYM	RXYQ20BYM	RXYQ20BYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz									3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
★1 Cooling capacity		Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000	210,000	229,000	250,000	268,000	285,000	305,000	327,000
		kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	89.5	96.0
★2 Heating capacity		Btu/h	85,300	107,000	128,000	154,000	171,000	191,000	215,000	235,000	256,000	282,000	299,000	319,000	343,000	369,000
		kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	82.5	87.5	93.5	100	108
Power consumption	Cooling	kW	5.17	6.81	8.70	10.7	13.3	14.3	16.9	18.6	21.6	19.4	22.0	23.0	25.6	27.6
	Heating	kW	5.33	6.99	9.67	11.0	13.5	14.9	17.0	19.6	22.2	20.7	23.2	24.6	26.7	28.0
Capacity control		%	11-100	13-100	12-100	7-100	5-100		4-100	5-100		7-100				6-100
AEER	Cooling		4.00	3.83	3.61	3.49	3.18	3.29	3.12	3.12	2.94	3.53	3.35	3.40	3.29	3.26
ACOP	Heating		4.33	4.20	3.66	3.82	3.49	3.54	3.50	3.33	3.21	3.74	3.58	3.61	3.58	3.65
TCSPF (Cooling) Commercial/ Residential	Hot		6.55/5.69	6.17/5.42	6.02/5.26	5.88/5.07	5.37/4.77	5.45/4.86	5.49/4.18	5.03/4.53	4.85/4.37	5.94/5.16	5.63/4.97	5.67/5.02	5.68/4.98	5.65/4.92
	Average		6.55/4.63	6.24/4.55	6.17/4.48	5.97/4.20	5.47/4.04	5.55/4.14	5.67/4.13	5.14/3.95	4.99/3.84	6.06/4.33	5.75/4.23	5.78/4.28	5.85/4.26	5.79/4.16
	Cold		7.25/4.58	6.90/4.53	6.92/4.52	6.73/4.19	5.99/4.09	6.05/4.19	6.36/4.21	5.60/4.01	5.45/3.93	6.82/4.34	6.36/4.27	6.37/4.32	6.56/4.33	6.51/4.21
HSPF (Heating) Commercial/ Residential	Hot		4.51/4.53	4.46/4.47	4.28/4.29	4.18/4.19	4.30/4.30	4.35/4.35	4.26/4.26	4.03/3.96	3.95/3.88	4.23/4.24	4.29/4.30	4.33/4.33	4.27/4.27	4.23/4.23
	Average		4.28/4.17	4.12/3.99	3.65/3.16	3.24/3.05	3.58/3.03	3.60/3.03	3.17/2.94	3.05/2.51	2.98/2.44	3.60/3.11	3.61/3.09	3.62/3.09	3.56/3.02	3.21/2.99
	Cold		3.78/3.54	3.64/3.32	2.95/2.60	2.84/2.48	2.83/2.45	2.83/2.44	2.75/2.36	2.67/2.08	2.61/2.03	2.89/2.54	2.88/2.52	2.88/2.51	2.82/2.44	2.79/2.41
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll							Hermetically sealed scroll type						
	Motor output	kW	4.3	6.2	7.7	3.9+4.4	4.4+5.0	4.0+6.6	4.5+7.4	7.0+7.3	7.7+8.0	7.7+(3.9+4.4)	7.7+(4.4+5.0)	7.7+(4.0+6.6)	7.7+(4.5+7.4)	(3.9+4.4)+(4.5+7.4)
Airflow rate		ℓ/s	2,583	2,817	3,017	4,333	4,433	4,300	5,100	7,167		3,017+4,333	3,017+4,433	3,017+4,300	3,017+5,100	4,333+5,100
		m³/min	155	169	181	260	266	258	306	430		181+260	181+266	181+258	181+306	260+306
Dimensions (H×W×D)		mm	1,660×930×765			1,660×1,240×765				1,660×1,750×765		(1,660×930×765)+(1,660×1,240×765)				(1,660×1,240×765)+ (1,660×1,240×765)
Machine weight		kg	215	225		310		340		385		225+310		225+340		310+340
★3 Sound level (Cooling/Heating)		dB(A)	56/56	57/58	60/62	61/61			65/66	67/67	68/68	64/65			66/67	
Sound power		dB	78	79	83			85	90	90		86		87	91	
Operation range	Cooling	°CDB	–5 to 52							–5 to 52						
	Heating	°CWB	–25 to 15.5							–25 to 15.5						
Refrigerant	Type		R-410A							R-410A						
	Charge	kg	6.9	7.1	7.2	9.7	9.9	11.7		11.7		7.2+9.7	7.2+9.9	7.2+11.7		9.7+11.7
Piping connections	Liquid	mm	ϕ9.5 (Brazing)			ϕ12.7 (Brazing)		ϕ15.9 (Brazing)		ϕ15.9 (Brazing)		ϕ19.1 (Brazing)				
	Gas	mm	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)					ϕ28.6 (Brazing)	ϕ34.9 (Brazing)					

Model			**RXYQ36BYM**	**RXYQ38BYM**	**RXYQ40BYM**	**RXYQ42BYM**	**RXYQ44BYM**	**RXYQ46BYM**	**RXYQ48BYM**	**RXYQ50BYM**	**RXYQ52BYM**	**RXYQ54BYM**	**RXYQ56BYM**	**RXYQ58BYM**	**RXYQ60BYM**
Combination units			RXYQ16BYM	RXYQ18BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ22BYM	RXYQ24BYM	RXYQ12BYM	RXYQ12BYM	RXYQ14BYM	RXYQ16BYM	RXYQ18BYM	RXYQ20BYM
			RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ22BYM	RXYQ24BYM	RXYQ24BYM	RXYQ24BYM	RXYQ18BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM
			—	—	—	—	—	—	—	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
★1 Cooling capacity		Btu/h	345,000	362,000	382,000	401,000	420,000	439,000	458,000	476,000	496,000	518,000	536,000	553,000	573,000
		kW	101	106	112	117	123	128	134	139	145	152	157	162	168
★2 Heating capacity		Btu/h	386,000	406,000	430,000	450,000	471,000	491,000	512,000	534,000	558,000	584,000	601,000	621,000	645,000
		kW	113	119	126	132	138	144	150	156	163	171	176	182	189
Power consumption	Cooling	kW	30.2	31.2	33.8	35.5	38.5	40.2	43.2	39.9	42.5	44.5	47.1	48.1	50.7
	Heating	kW	30.5	31.9	34.0	37.1	39.2	41.8	44.4	41.6	43.7	45.0	47.5	48.9	51.0
Capacity control		%	5-100		4-100			5-100		6-100			5-100	4-100	
AEER	Cooling		3.15	3.20	3.13	3.13	3.03	3.03	2.94	3.29	3.23	3.21	3.14	3.17	3.13
ACOP	Heating		3.53	3.56	3.54	3.45	3.37	3.31	3.25	3.58	3.57	3.61	3.53	3.55	3.54
TCSPF (Cooling) Commercial/ Residential	Hot		5.44/4.80	5.47/4.84	5.49/4.82	5.23/4.66	5.12/4.57	4.93/4.44	4.85/4.37	5.59/4.93	5.60/4.91	5.59/4.88	5.46/4.81	5.48/4.83	5.49/4.82
	Average		5.58/4.10	5.61/4.14	5.67/4.13	5.38/4.03	5.28/3.97	5.06/3.89	4.99/3.84	5.73/4.22	5.78/4.21	5.75/4.15	5.61/4.11	5.63/4.14	5.67/4.13
	Cold		6.19/4.16	6.21/4.21	6.36/4.22	5.94/4.11	5.83/4.06	5.52/3.97	5.45/3.93	6.37/4.28	6.48/4.28	6.45/4.21	6.25/4.18	6.26/4.21	6.36/4.22
HSPF (Heating) Commercial/ Residential	Hot		4.28/4.28	4.30/4.30	4.26/4.26	4.14/4.14	4.09/4.09	4.00/3.92	3.96/3.88	4.30/4.30	4.27/4.27	4.24/4.24	4.27/4.27	4.29/4.29	4.26/4.26
	Average		3.21/2.98	3.55/2.99	3.18/2.95	3.12/2.90	3.07/2.85	3.02/2.48	2.98/2.45	3.58/3.03	3.54/2.99	3.20/2.98	3.20/2.97	3.54/2.98	3.18/2.95
	Cold		2.79/2.40	2.79/2.40	2.76/2.36	2.72/2.35	2.68/2.30	2.64/2.06	2.61/2.03	2.83/2.44	2.80/2.41	2.78/2.40	2.78/2.39	2.78/2.39	2.76/2.36
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed scroll type							Hermetically sealed scroll type					
	Motor output	kW	(4.4+5.0)+ (4.5+7.4)	(4.0+6.6)+ (4.5+7.4)	(4.5+7.4)+ (4.5+7.4)	(4.5+7.4)+ (7.0+7.3)	(4.5+7.4)+ (7.7+8.0)	(7.0+7.3)+ (7.7+8.0)	(7.7+8.0)+ (7.7+8.0)	7.7+(4.0+6.6)+(4.5+7.4)	7.7+(4.5+7.4)+(4.5+7.4)	(3.9+4.4)+(4.5+7.4)+ (4.5+7.4)	(4.4+5.0)+(4.5+7.4)+ (4.5+7.4)	(4.0+6.6)+(4.5+7.4)+ (4.5+7.4)	(4.5+7.4)+(4.5+7.4)+ (4.5+7.4)
Airflow rate		ℓ/s	4,433+5,100	4,300+5,100	5,100+5,100	5,100+7,167		7,167+7,167		3,017+4,300+5,100	3,017+5,100+5,100	4,333+5,100+5,100	4,433+5,100+5,100	4,300+5,100+5,100	5,100+5,100+5,100
		m³/min	266+306	258+306	306+306	306+430		430+430		181+258+306	181+306+306	260+306+306	266+306+306	258+306+306	306+306+306
Dimensions (H×W×D)		mm	(1,660×1,240×765)+(1,660×1,240×765)			(1,660×1,240×765)+(1,660×1,750×765)		(1,660×1,750×765)+(1,660×1,750×765)		(1,660×930×765)+(1,660×1,240×765)+(1,660×1,240×765)		(1,660×1,240×765)+(1,660×1,240×765)+(1,660×1,240×765)			
Machine weight		kg	310+340	340+340		340+385		385+385		225+340+340		310+340+340		340+340+340	
★3 Sound level (Cooling/Heating)		dB(A)	66/67		68/69	69/70	70/70	71/71		67/68	69/70				70/71
Sound power		dB	91		93					92	93			94	95
Operation range	Cooling	°CDB	–5 to 52							–5 to 52					
	Heating	°CWB	–25 to 15.5							–25 to 15.5					
Refrigerant	Type		R-410A							R-410A					
	Charge	kg	9.9+11.7	11.7+11.7						7.2+11.7+11.7		9.7+11.7+11.7	9.9+11.7+11.7	11.7+11.7+11.7	
Piping connections	Liquid	mm	ϕ19.1 (Brazing)							ϕ19.1 (Brazing)					
	Gas	mm	ϕ41.3 (Brazing)							ϕ41.3 (Brazing)					

Notes: ★1. Indoor temperature : 27°CDB, 19°CWB / Outdoor temperature : 35°CDB / Equivalent piping length : 7.5 m, Height difference : 0 m.
★2. Indoor temperature : 20°CDB, 15°CWB / Outdoor temperature : 7°CDB, 6°CWB / Equivalent piping length : 7.5 m, Height difference : 0 m.
★3. Anechoic chamber conversion value. Measured at 1 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.

The specifications, designs and information in this brochure are subject to Change without notice. Unit colours shown are as close as possible to actual unit colours. Colours depicted in this brochure may vary slightly.

ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

QUALITY CERTIFICATIONS

Daikin Industries Ltd was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.

ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Ltd has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

Head Office / Tokyo Office	Certificate number: EC02J0355
Shiga Plant (Japan)	Certificate number: EC99J2044
Sakai Plant (Japan)	Certificate number: JQA-E-80009
Daikin Industries (Thailand) Ltd	Certificate number: JQA-E-90108
Yodogawa Plant (Japan)	Certificate number: EC99J2057
Daikin Australia Pty. Ltd.	Certificate number: CEM20437

Daikin Air Conditioning New Zealand Limited (ISO 9001)
QMS42380
Auckland

Residential Air Conditioning Manufacturing Div (ISO 9001)
JQA-0486 May 2, 1994
(Shiga Plant)

Commercial Air Conditioning and Refrigeration Manufacturing Div (ISO 9001)
JMI0107 December 28, 1992
(Kanaoka Factory and Rinkai Factory at Sakai Plant)

Industrial System and Chiller Products Manufacturing Div (ISO 9001)
JQA-0495 May 16, 1994
(Yodogawa Plant and Kanaoka Factory and Kishiwada Factory)

Daikin Europe N.V (ISO 9001)
Lloyd 928589.1 June 2, 1993

Daikin Industries (Thailand) Ltd
JQA-1452 September 13, 2002
(ISO 9001)

DAIKIN SPECIALIST

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