

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



VRV *H SERIES*

R-410A

Heat Pump 50 Hz

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).



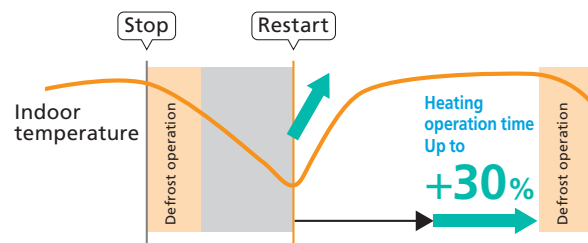
Energy Saving Technology

- 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.

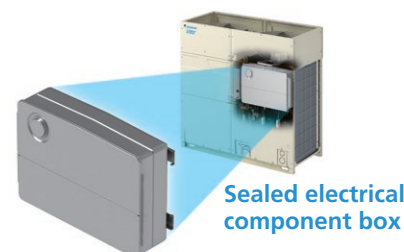


Defrost Learning Function

- 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.



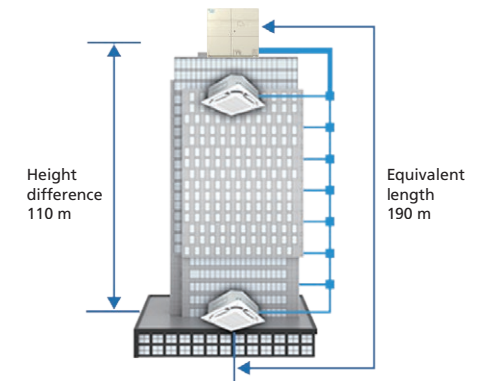
For CONSULTANTS



Flexible Design & Engineering Supports

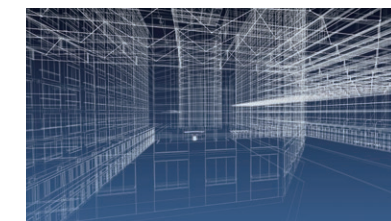
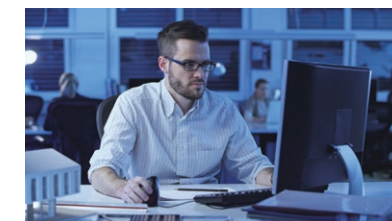
Long Refrigerant Piping

- 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

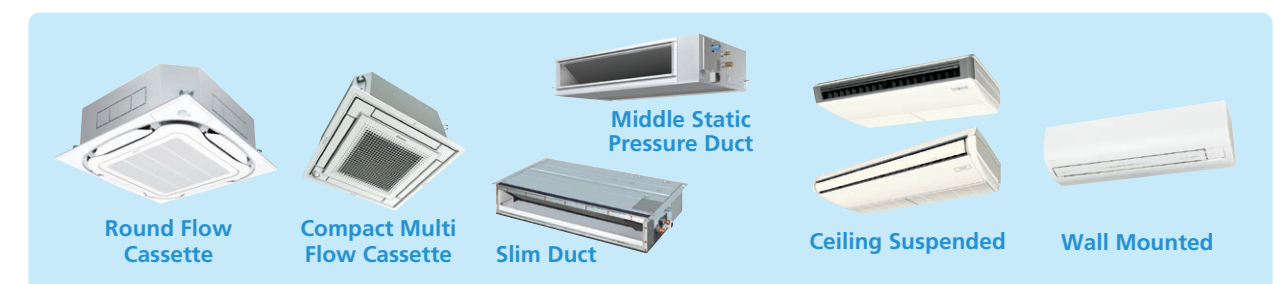
- Strongly supports for facility design, offering model selection assistance, energy saving and IEQ simulations, drawing support, etc.



- 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

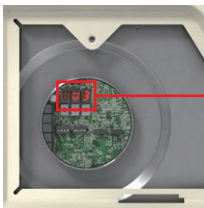


Easy Installation

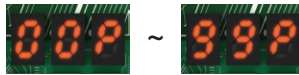


Process visualization (Test run only)

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

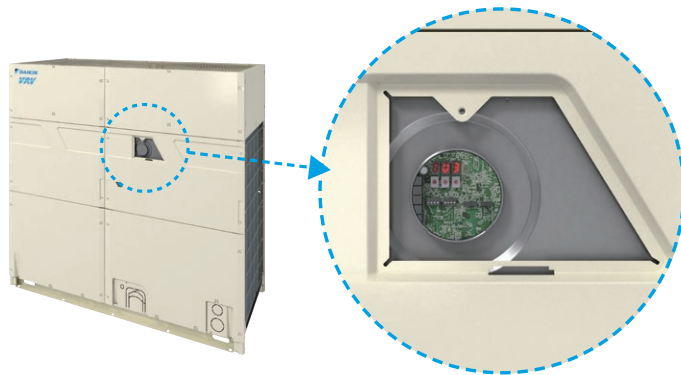


Progress rate (0% to 99%)



Electrical Component Service Window

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

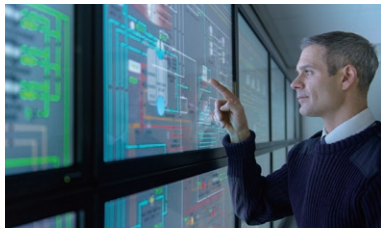


Large-capacity Single Module

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



For BUILDING MANAGEMENTS



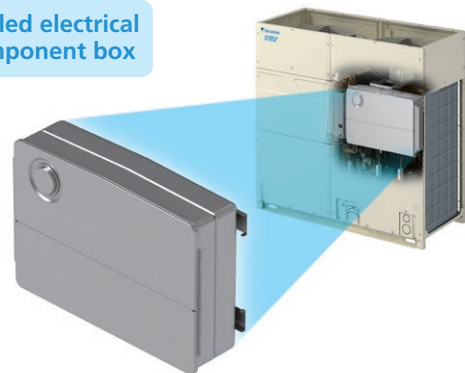
Reliability & Comfort



IP55 Sealed Component Box

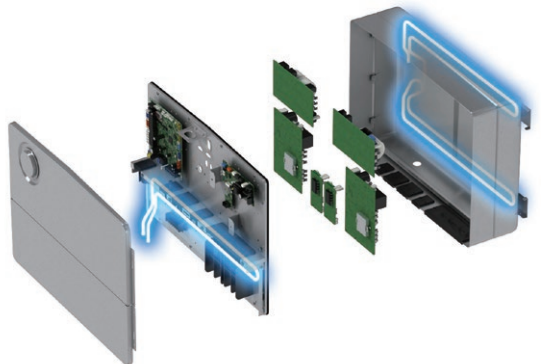
- Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.

Sealed electrical
component box



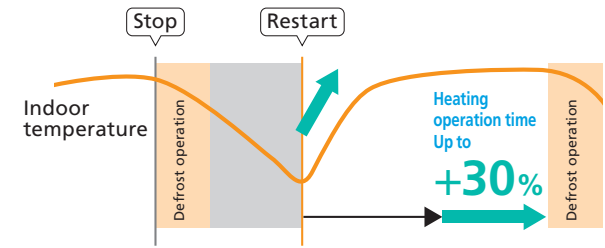
Refrigerant Piping Cooling System

- 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

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

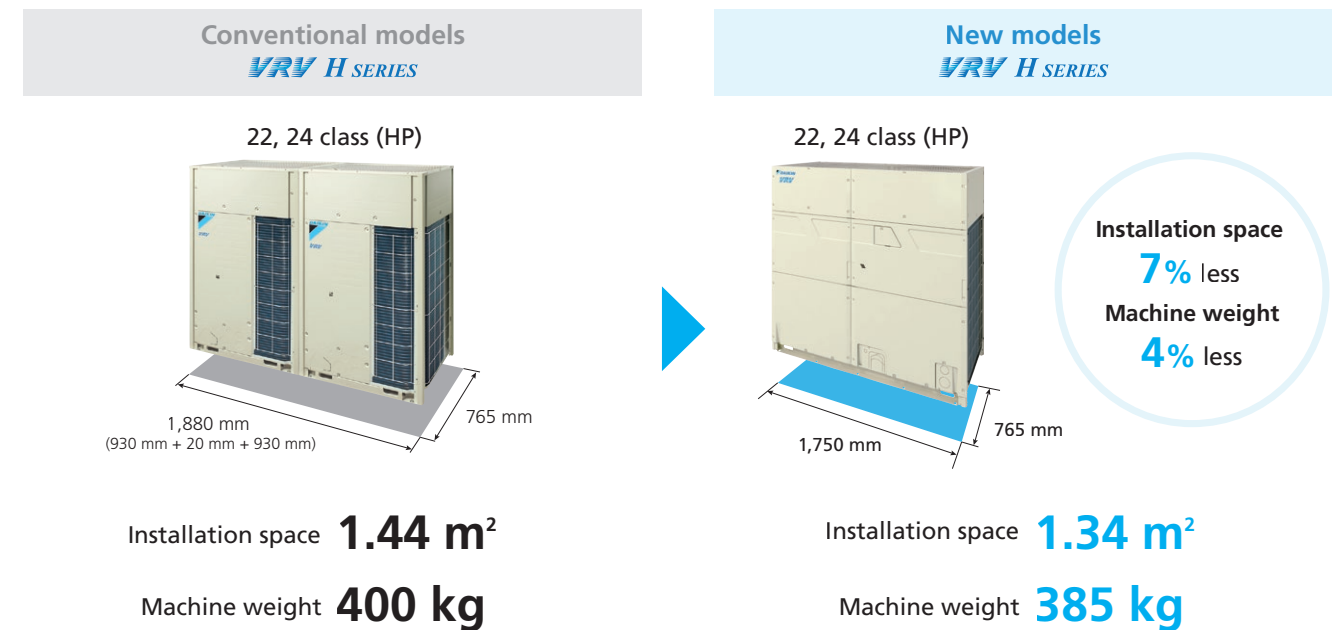


Outdoor unit combination

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		Triple								●●
50	139				●			●	●		
52	145				●				●●		
54	152					●			●●		
56	157						●		●●		
58	162							●	●●		
60	168								●●●		

Large-capacity single module

Single module reduces installation space

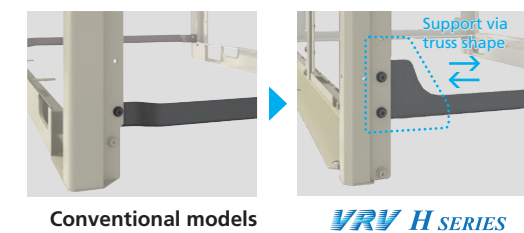


New reinforced design

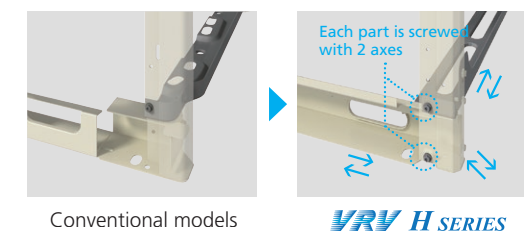
The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.



1 Minimises horizontal wobbling



2 Minimises vibration from various angles



Energy Savings

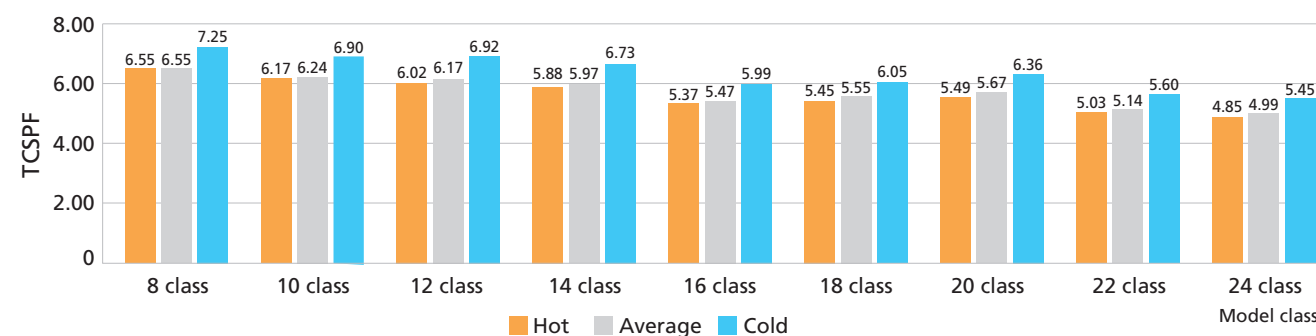


High TCSPF / HSPF

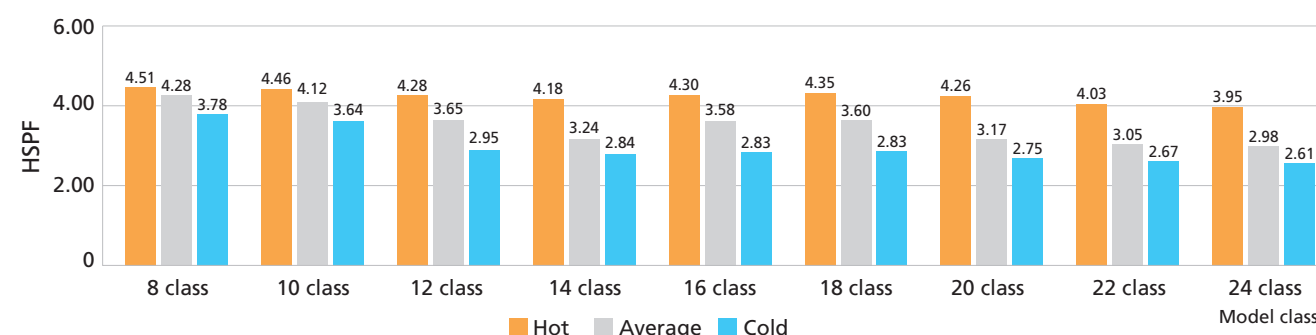
Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.

Achieved high values for TCSPF and HSPF in all series.

TCSPF (for commercial use)

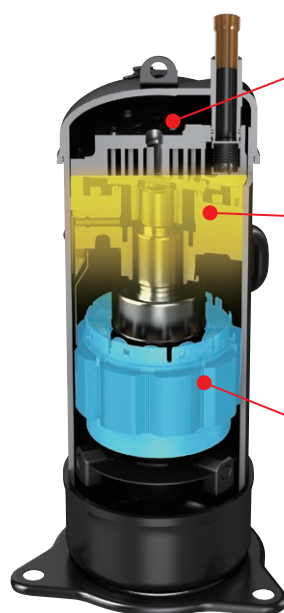


HSPF (for commercial use)



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.

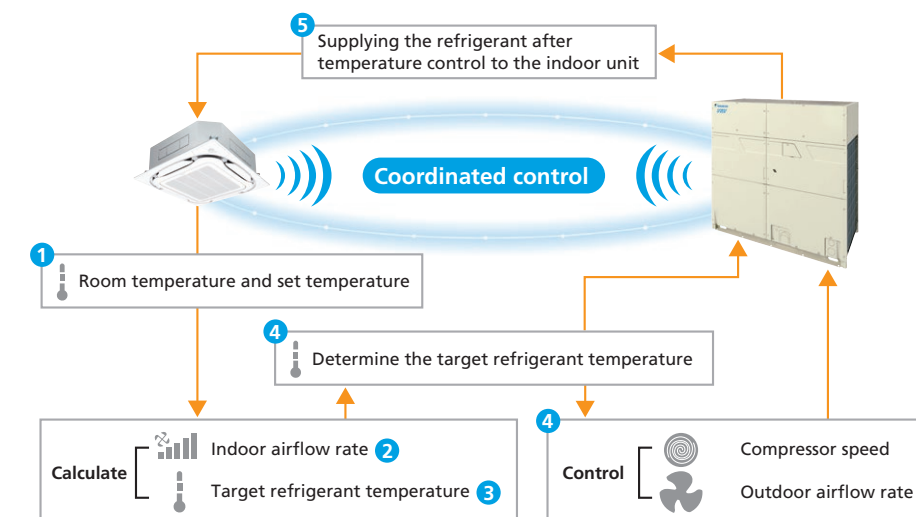
Adoption of a high-performance concentrated motor

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

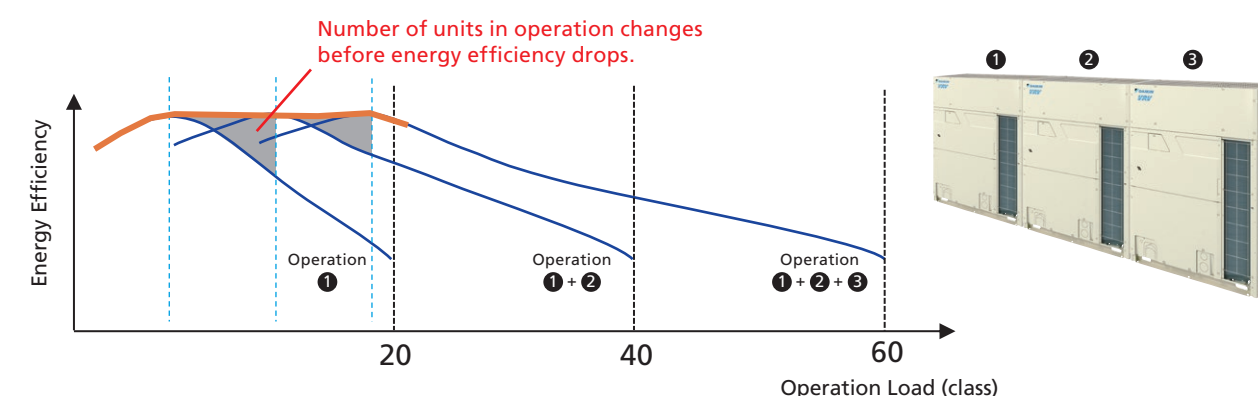


- Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
- Indoor unit will try to regulate with fan speed control.
- If fan cannot control speed, indoor unit request T_e change from outdoor unit.
- Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor speed and outdoor airflow rate to change the refrigerant temperature.
- 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)

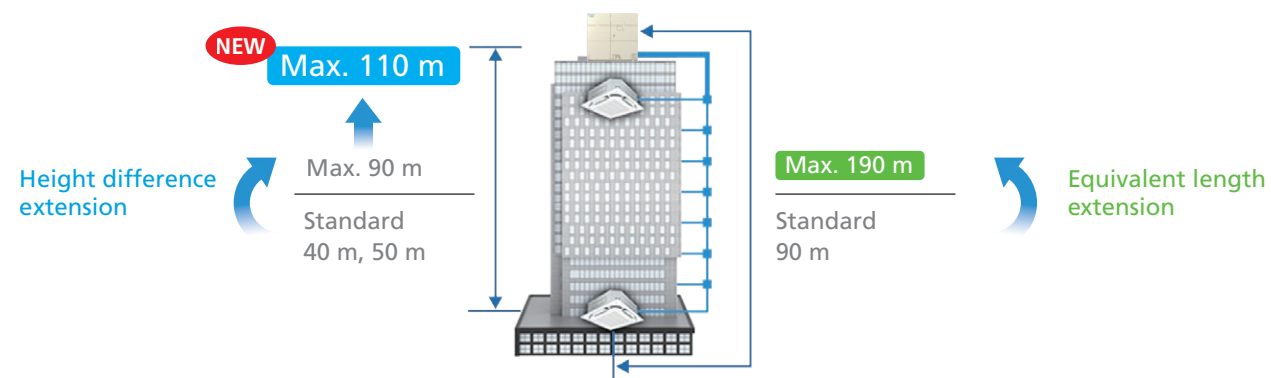


Design Flexibility



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).

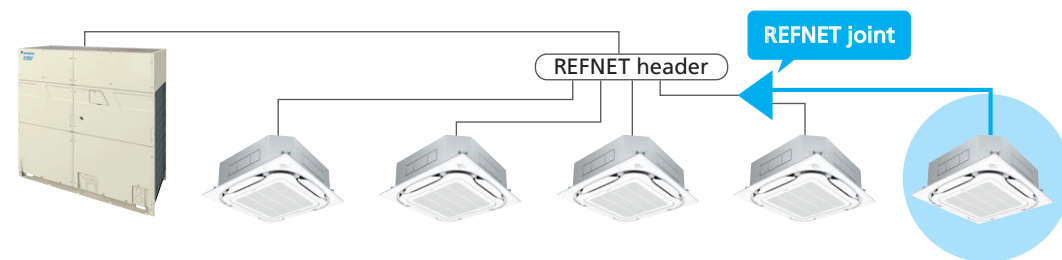
• Equivalent length Max. 190 m

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

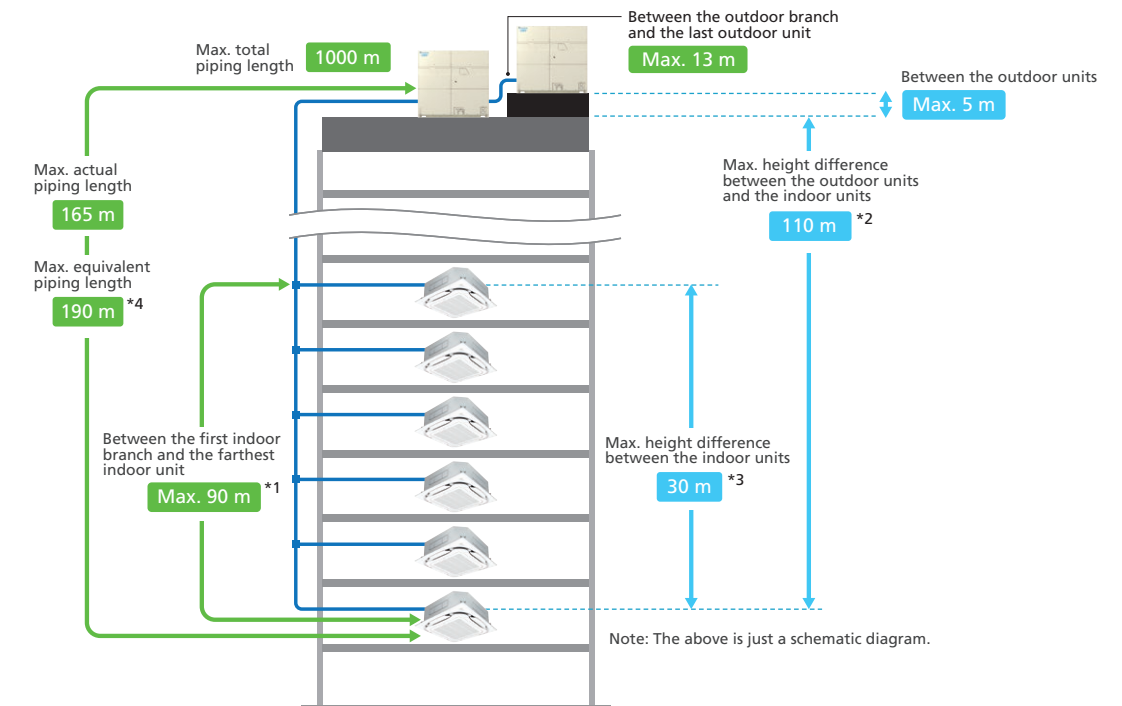
Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.



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%

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

*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.

Xpress 8.3.3 - DE 12.82 Thailand

New... Open... Import... Save As... Exit Preferences... About...

Indoor Units Outdoor Units Piping Wiring Centralized Controllers Reports

Project name
Country
Region
Country
Refrigerant

Client name
Revision

Japan
R410A

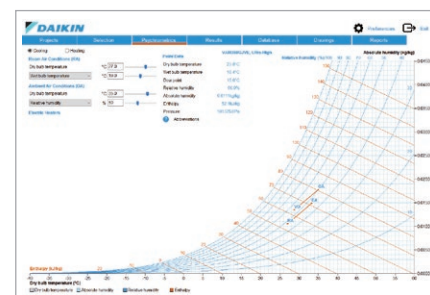
OU group
VRV 5Hzr

Name	PCU	Temp C	Rq TC	Max TC	Rq SC	Max SC	Temp H	Rq HC	Max HC	Airflow
Ind 1	FXRQ100AUM	24.0°C / 50%	8.0kW	9.7kW	8.0kW	6.0°C	20.0°C	12.5kW	533l/s	
Ind 2	FXRQ100AUM	24.0°C / 50%	8.0kW	9.7kW	8.0kW	6.0°C	20.0°C	12.5kW	533l/s	
Ind 3	FXRQ100AUM	24.0°C / 50%	8.0kW	9.7kW	8.0kW	6.0°C	20.0°C	12.5kW	533l/s	
Ind 4	FXRQ100AUM	24.0°C / 50%	8.0kW	9.7kW	8.0kW	6.0°C	20.0°C	12.5kW	533l/s	
Ind 5	FXRQ100AUM	24.0°C / 50%	8.0kW	9.7kW	8.0kW	6.0°C	20.0°C	12.5kW	533l/s	
Ind 6	FXRQ100AUM	24.0°C / 50%	8.0kW	9.7kW	8.0kW	6.0°C	20.0°C	12.5kW	533l/s	

Ventilation Xpress

Ventilation products selection

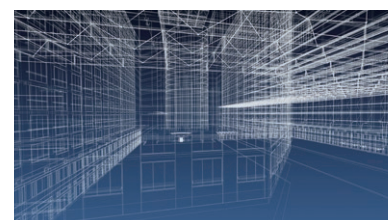
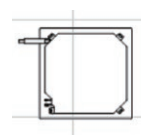
Heat Reclaim Ventilator (VAM series) or Outdoor Air Processing Unit (OAPU) can be selected by inputting conditions such as ventilation volume and external static pressure.



Drawing Supports

3D Revit data / 2D CAD symbol

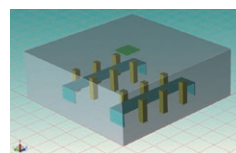
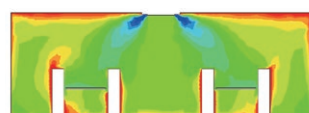
Revit data is used in BIM. It includes not only 3D CAD data but also device specification data such as airflow rate and capacity. Daikin also provides symbol data compatible with 2D CAD.



Analysis and Simulation

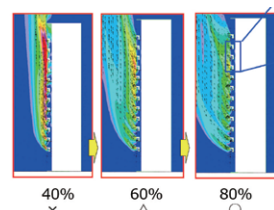
DT-FLOW2 (Airflow simulation)

IEQ simulation



Indoor air environment analysis software
Simulates temperature and humidity, CO₂, 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



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.

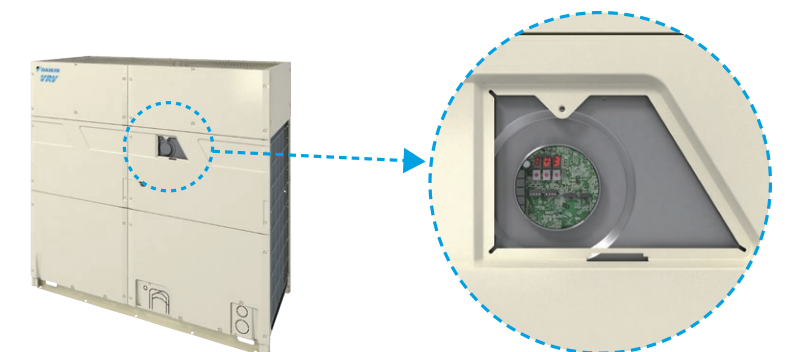
* Effective when test run is carried out independently after manual refrigerant charging.



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



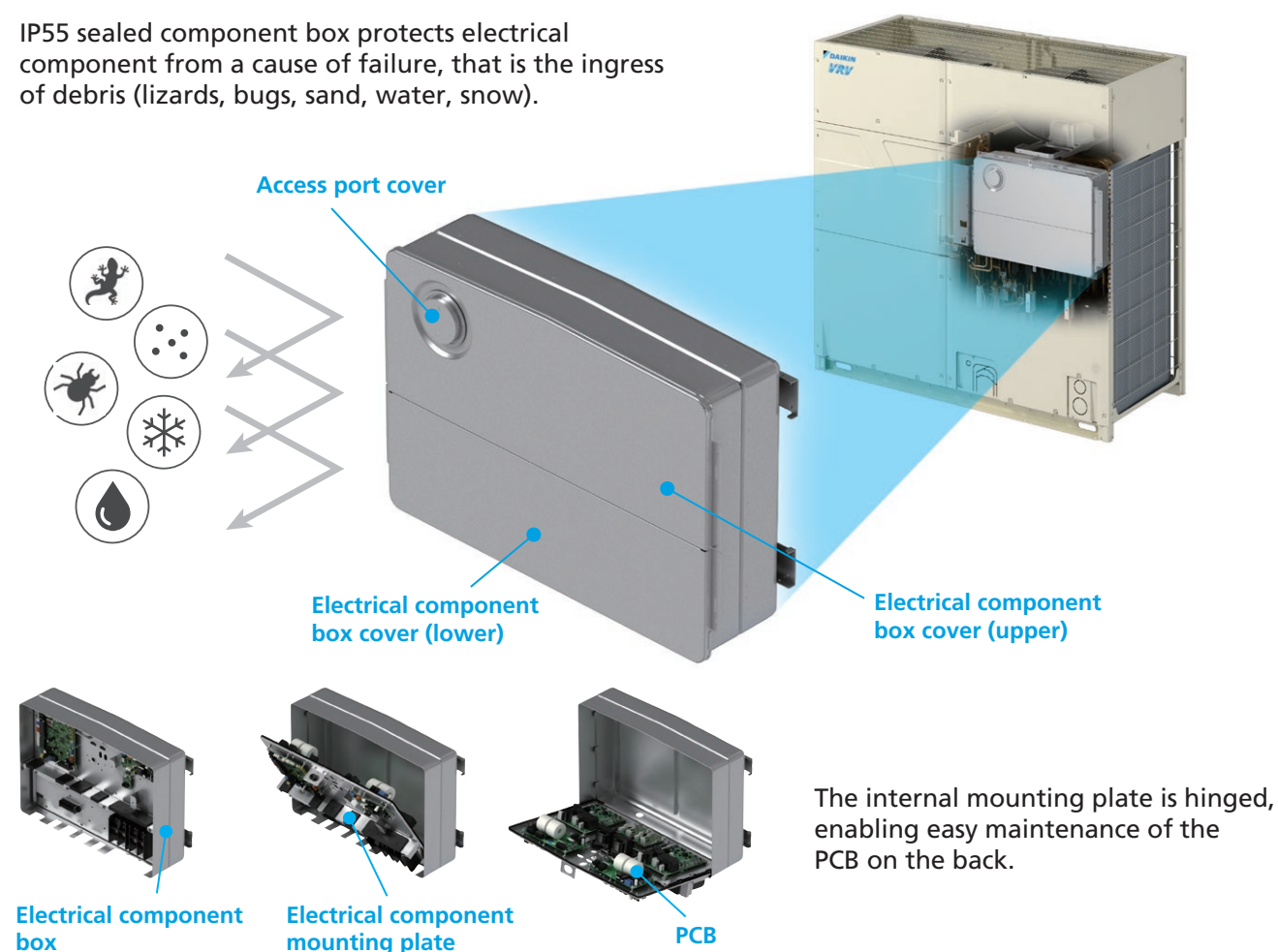
Work becomes easier with sufficient space

Reliability



■ 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).



What is IP55?

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

IP55

Liquid ingress protection Grade 5

Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Solid particle protection Grade 5

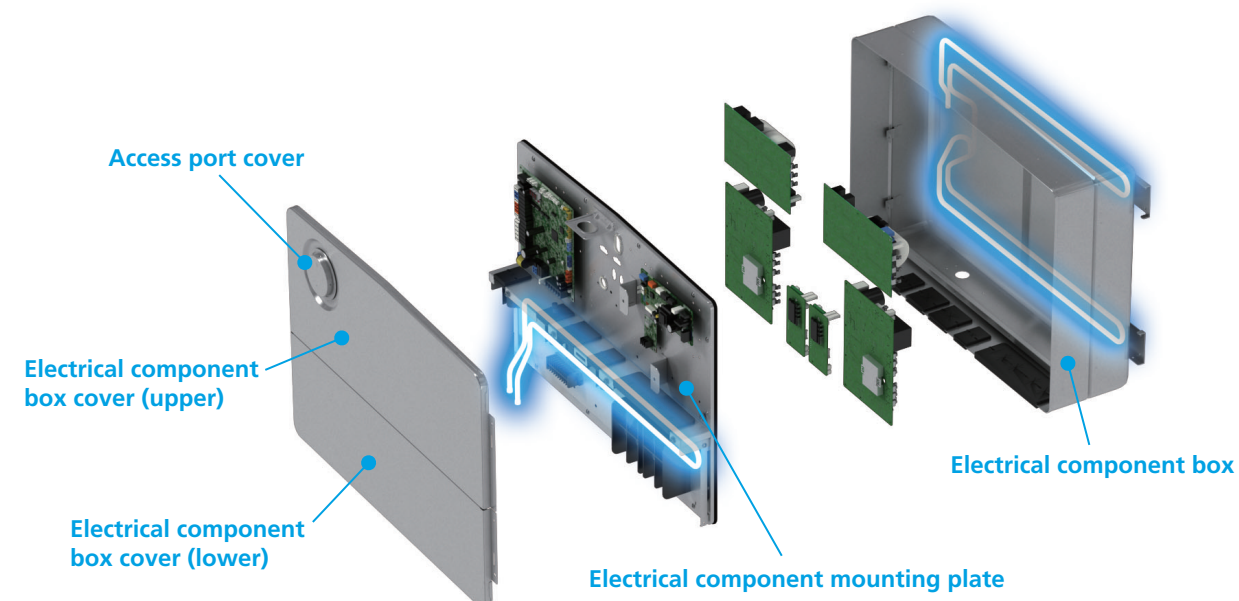
Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

Ingress Protection

*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.

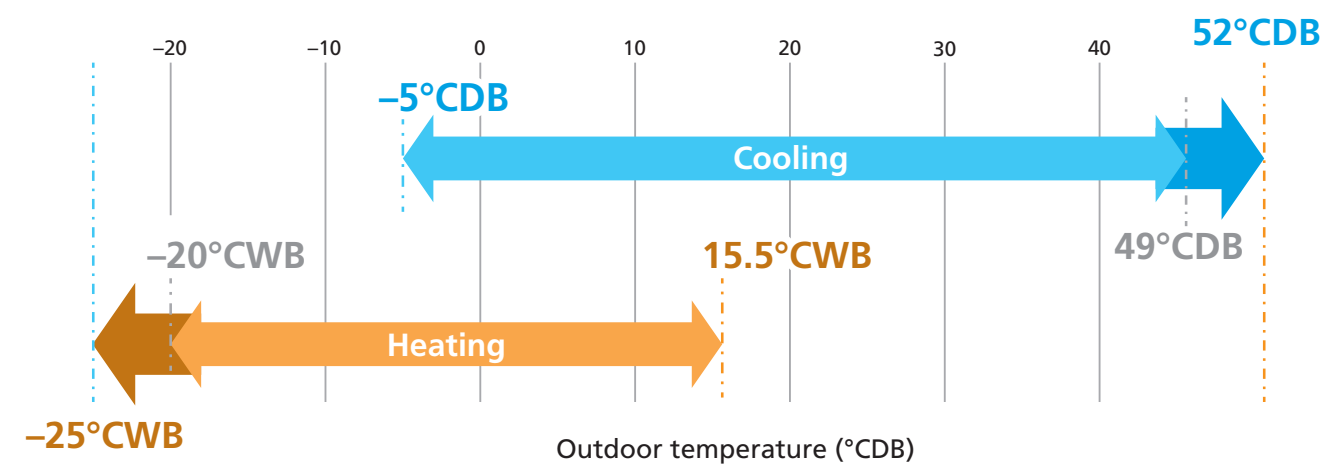


■ Extended temperature operation

Operation is now possible on a wider range of temperatures.

Upper limit up to 52°CDB in Cooling mode

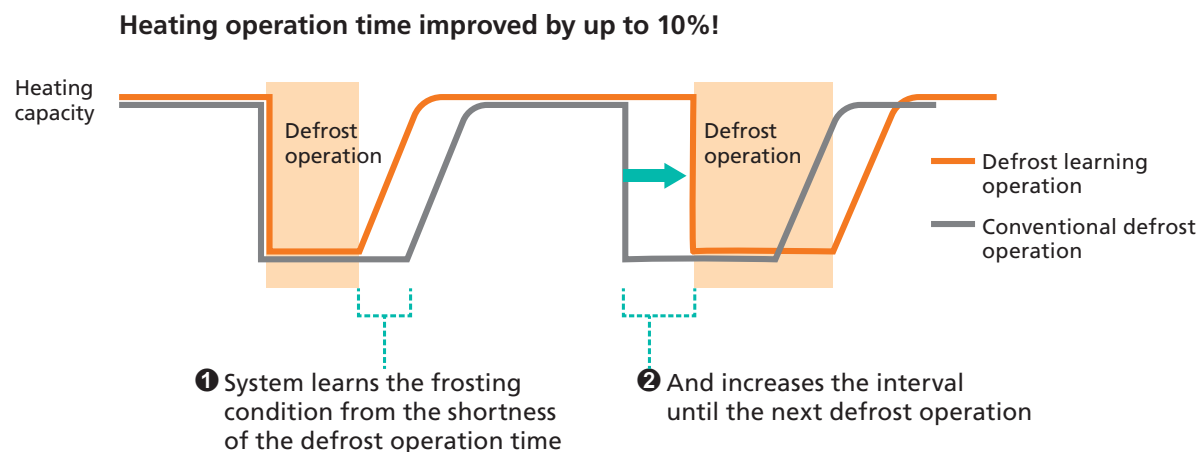
Lower limit down to -25°CWB in Heating mode





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.

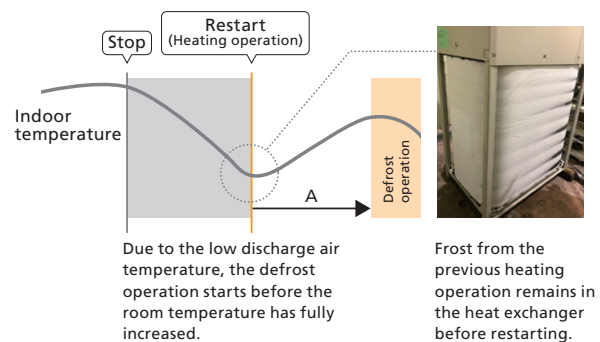


Defrost before stop

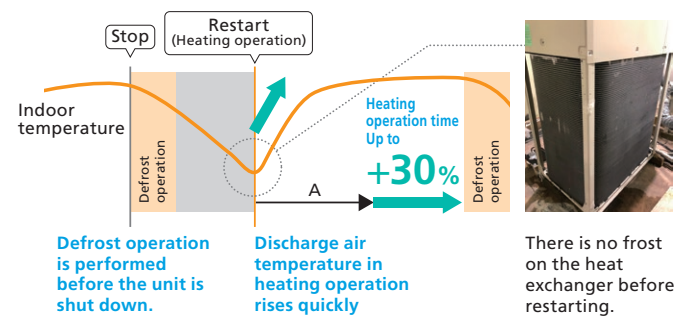
Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation, and extends the continuous heating operation time after restarting, thereby improving comfort.

Heating operation time is improved by up to 30%!

Conventional defrost operation



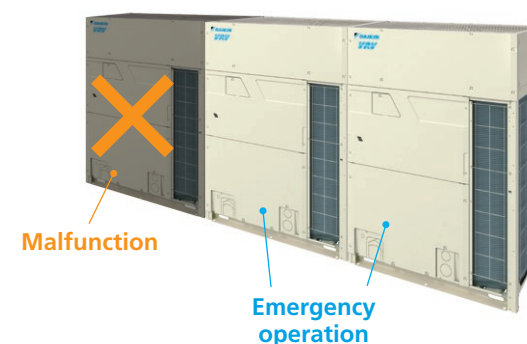
Defrost before stop



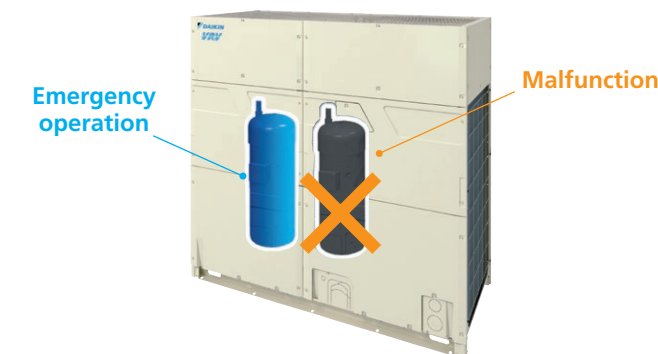
* Conditions for effectiveness estimation : Outdoor air temperature 2°C
Round flow cassette with sensing operating at 100% capacity

Double backup operation functions

Unit backup operation function

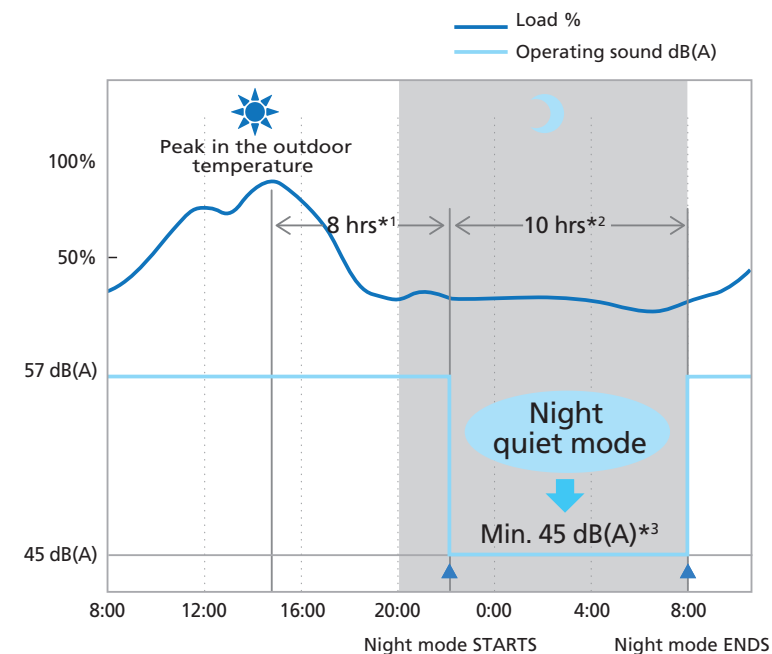


Compressor backup operation function



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	BHFP22R168	600 to 1,560 (1,920)	
50	139	1,250	RXYQ50B	RXYQ12B + RXYQ18B + RXYQ20B		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.	Type		Item	RXYQ8B	RXYQ14B	RXYQ20B	RXYQ26B	RXYQ34B	RXYQ42B	RXYQ50B	RXYQ56B
				RXYQ10B	RXYQ16B	RXYQ22B	RXYQ28B	RXYQ36B	RXYQ44B		
1	Distributive piping*1	REFNET header		RXYQ12B	RXYQ18B	RXYQ24B	RXYQ30B	RXYQ38B	RXYQ46B	RXYQ52B	RXYQ58B
		REFNET joint					RXYQ32B	RXYQ40B	RXYQ48B	RXYQ54B	RXYQ60B
		Pipe size reducer									
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.	Type		Item	RXYQ8B	RXYQ14B	RXYQ20B	RXYQ26B	RXYQ32B	RXYQ38B	RXYQ44B	RXYQ50B	RXYQ56B
				RXYQ10B	RXYQ16B	RXYQ22B	RXYQ28B	RXYQ34B	RXYQ40B	RXYQ46B	RXYQ52B	RXYQ58B
1	DIII-NET expand adaptor + Wire harness adaptor kit			RXYQ12B	RXYQ18B	RXYQ24B	RXYQ30B	RXYQ36B	RXYQ42B	RXYQ48B	RXYQ54B	RXYQ60B
2	External control adaptor											

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																								
		FXDQ-NDVE																								
	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
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)	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
Residential	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
	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
Commercial/Residential	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	φ 9.5 (Brazing)		φ 12.7 (Brazing)			φ 15.9 (Brazing)		φ 15.9 (Brazing)		φ 19.1 (Brazing)				
	Gas	mm	φ 19.1 (Brazing)	φ 22.2 (Brazing)	φ 28.6 (Brazing)					φ 28.6 (Brazing)		φ 34.9 (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	RXYQ22BYM	RXYQ24BYM	RXYQ24BYM	RXYQ24BYM			RXYQ18BYM	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)	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	
Commercial/ Residential	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	
	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	
HSPF (Heating)	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 (HxWxD)			mm	(1,660x1,240x765)+(1,660x1,240x765)			(1,660x1,240x765)+(1,660x1,750x765)		(1,660x1,750x765)+(1,660x1,750x765)		(1,660x930x765)+(1,660x1,240x765)+(1,660x1,240x765)		(1,660x1,240x765)+(1,660x1,240x765)+(1,660x1,240x765)					
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)						

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
Shiga Plant (Japan)
Sakai Plant (Japan)
Daikin Industries (Thailand) Ltd
Yodogawa Plant (Japan)
Daikin Australia Pty. Ltd.

Certificate number: EC02J0355
Certificate number: EC99J2044
Certificate number: JQA-E-80009
Certificate number: JQA-E-90108
Certificate number: EC98J2057
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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