DAIKIN

Perfecting the Air

PCTVNZ2502

Shaping the Future through Technologies

VRV 7 S SERIES

RSUYA4-6AVM
RSUYA7-9AYM

R-32

Heat Pump 50/60 Hz

Daikin's Policy

Toward Net-Zero Greenhouse Gas Emissions

In 2018, Daikin formulated Environmental Vision 2050, with a target of reducing greenhouse gas emissions to net zero by 2050.

Environmental Vision 2050

- Challenge to achieve carbon neutrality
- Promotion of solutions business connected with customers
- Creating value with air

As the only company in the world that manufactures both air conditioners and the refrigerants used in them, Daikin has delivered products and services featuring environmental technologies to customers around the globe.

At the same time, there is a pressing need to address the growing electricity demand driven by the increasing use of air conditioners worldwide, as well as to reduce greenhouse gas emissions from refrigerants.

While working toward "net zero greenhouse gas emissions," we aim to provide healthy and comfortable air environments that are safe and secure, while minimising environmental impacts—including global warming—through "the creation of new value with air."

For the Air We Live in

QOL with IAQ

Indoor air quality has a significant impact on improving quality of life.

Maintaining a uniform temperature throughout a building and keeping the air clean is said to have a variety of health benefits, including preventing pollen and allergies, and improving sleep quality.

Daikin's business is not just to sell air conditioners, but to provide solutions that deliver high-quality air.

For Carbon Neutral

Air conditioners have become an essential part of urban infrastructure, and demand continues to expand around the world, but this has an impact on energy consumption and global warming. Protecting the global environment is our most important mission, along with improving the quality of life.

For a sustainable future, we will continue to take on the challenge of achieving carbon neutrality.

Sooner, the Better

We consider addressing environmental issues and working toward a sustainable future to be our important mission, and we continue to work hard to achieve this.

VRV 7 S SERIES

New ***VRV*** System with R-32 Refrigerant Debut

Refrigerant for Sustainable Future

R-32

Daikin has launched a new ***VRV*** 7 S series with R-32 refrigerant. While maintaining its strength and performance, it takes advantage of the excellent performance characteristics of R-32 refrigerant to achieve even greater energy efficiency and environmental friendliness.

The slim, compact housing and long piping length allow it to be installed in limited spaces such as balconies and rooftops, making it suitable for a wide range of applications from homes to office buildings.

Home

Installing one outdoor unit on a balcony allows to cover the entire home, keeping even small spaces like bathrooms and hallways comfortable all year round.

Shop / Restaurant

It can be installed in stores, restaurants, etc. without spoiling the interior design. Also, flexible design allows for less temperature unevenness even in spaces with large windows and high foot traffic.

Office

In offices where many people spend long periods of time, it is necessary to have high energy efficiency, as well as control that suits each individual's comfort and flexible air outlet design to suit the layout.

Clinic / Nursery

Even in areas where children, the elderly, or people who are unwell spend time, cleanliness can be maintained and precise temperature and humidity control can be performed to meet a variety of needs.

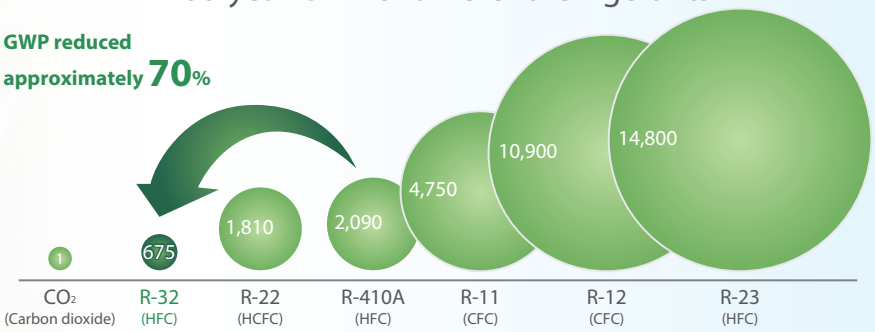
R-32 Low GWP Refrigerant

R-32 has less impact on environment, with zero ODP and low GWP.
Compared to the conventional R-22 or R-410A, GWP of R-32 is only around 30%.
Furthermore, R-32 has better heat exchanging characteristics, therefore it can greatly reduce the system refrigerant amount.

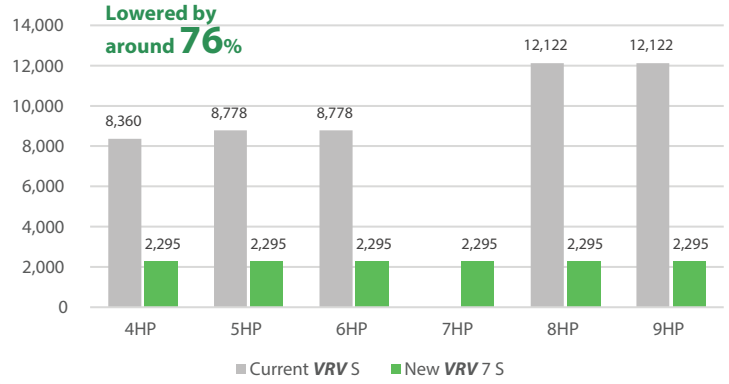
GWP
A number that represents the global warming potential of other greenhouse gases relative to CO_2.

ODP
A measurement of how much a substance damages the ozone layer.

100-year GWP of different refrigerants



Refrigerant amount × GWP



We compared the **GWP × refrigerant charge** values between the current R-410A ***VRV*** S and the new R-32 ***VRV*** 7 S, using models with the **same casing** for a fair evaluation.

As a result, the new ***VRV*** 7 S series demonstrated an **average reduction of 76% in environmental impact** compared to the current R-410A ***VRV*** S series.

Saves More Energy

All the ***VRV*** series have advantages of both hardware and software energy saving technologies. Furthermore, the energy efficiency of new ***VRV*** 7 S has been greatly improved with excellent characteristics of R-32.

Installation Support and Safety Measures

As the safety measures compliant with IEC are supported, the new ***VRV*** 7 S can be installed anywhere as same as conventional R-410A series.
The model selection for the each application is supported by support tools such as DK-BIM.

DIV-NET Advanced System

DIV-NET is a proposal for next generation system, with high-speed communication and integration. Collaborative control with stored operation data creates new values beyond the framework such as better IAQ control, inspection, and service maintenance remotely.

Lineup / Energy Savings

Enhanced Lineup

7 HP class model has been added keeping the small casing as conventional models, allowing for more flexible options to suit each application.

Model names	Class (HP)	4	5	6	7	8	9
RSUYA-AVM		●	●	●	—	—	—
RSUYA-AYM		—	—	—	●	●	●

Power supply
RSUYA-AVM : 1-phase, 220-240 V/220-230 V, 50/60 Hz
RSUYA-AYM : 3-phase, 380-415 V/380 V, 50/60 Hz

Home Shop Office

Suit for any applications

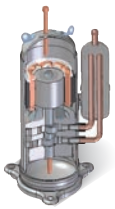
RSUYA4,5,6AVM RSUYA7,8,9AYM

The compact casing does not obstruct the view and can be installed unobtrusively in a small space. It fits flexibly into a variety of applications, from homes to medium-sized stores and offices.

Higher Energy Efficiency

New ***VRV*** 7 S series achieved higher energy efficiency via both hardware and software technologies.
In addition, R-32 refrigerant with its excellent properties further improves the system performance.

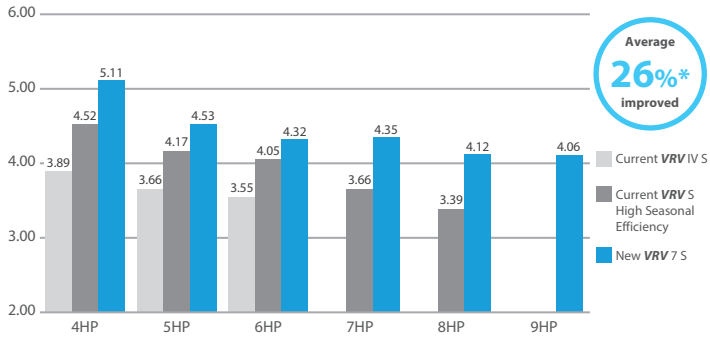
Hardware Technology



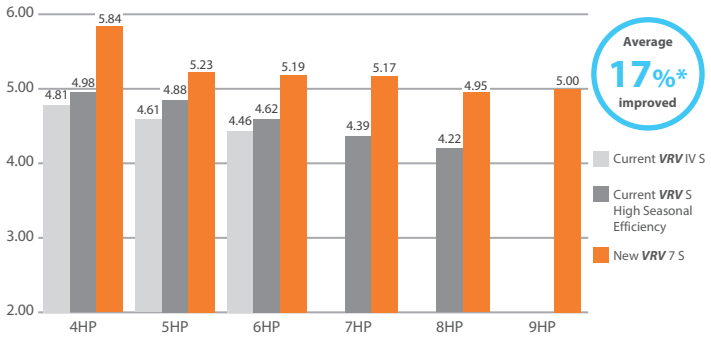
× Software Technology VRT Smart II × Refrigerant Performance R-32 NEW REFRIGERANT

Comparing the EER values, the new ***VRV*** 7 S series has an improvement of approximately 26% compared to the conventional standard ***VRV*** IV S series and approximately 14% compared to the high-performance ***VRV*** S High Seasonal Efficiency series.

EER (Cooling)



COP (Heating)



* Compared between ***VRV*** 7 S series and ***VRV*** IV S series

Hardware Technology

Enhanced DC Inverter swing compressor for new ***VRV*** 7 S

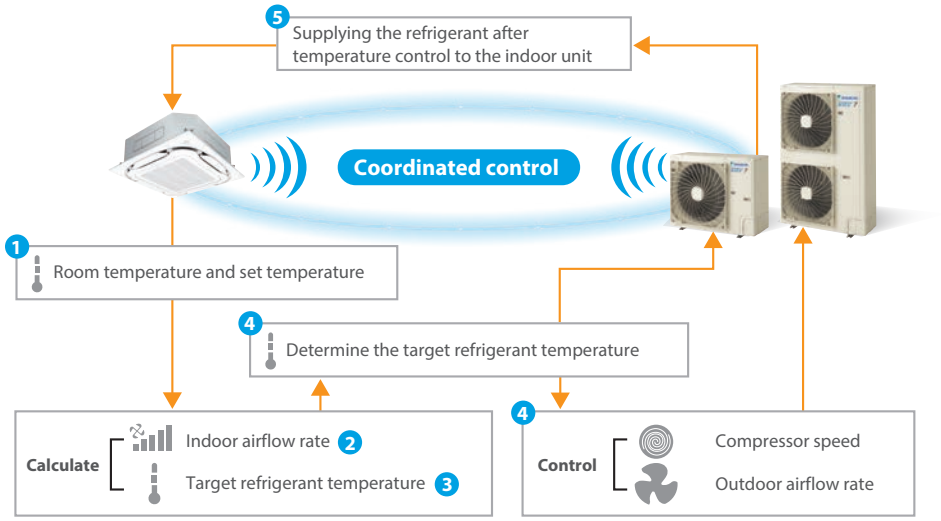
Every model in the ***VRV*** 7 S series is equipped with upgraded swing compressors, achieving significantly improved performance over the conventional ***VRV*** IV S. With its integrated swing structure, the swing compressor features fewer moving parts, resulting in less wear, lower risk of refrigerant leakage, and reduced friction losses.

- ✓ Higher efficiency
- ✓ Quieter operation
- ✓ Longer and reliable service life

Software Technology

VRT Smart II Control

The new ***VRV*** 7 S series implements VRT Smart II control in all capacity classes.
By optimising the operation status of the indoor and outdoor units, it reduces unnecessary load and contributes greatly to energy saving performance.



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.

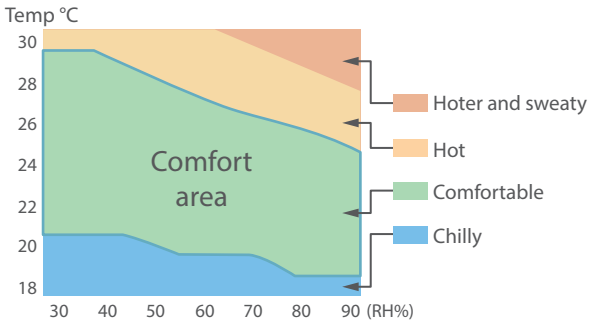
Comfort

Dry Cool Operation

New

Comfort Depends on More Than Just Temperature
Even at the same room temperature, how you feel can change dramatically with different humidity levels. Achieving the right balance between temperature and humidity is key to true comfort.

Stay Comfortable, Not Just Cool
Unlike conventional cooling, which stops dehumidification once the set temperature is reached, Dry Cool Operation function continues to control humidity for a more comfortable and less muggy indoor environment.



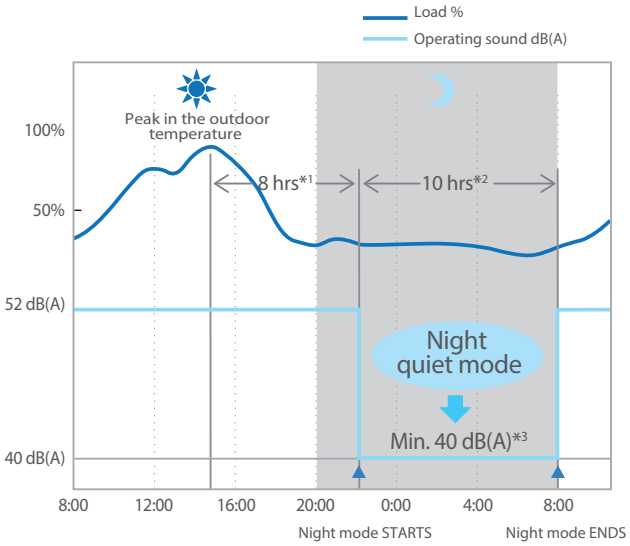
In the new R-32 indoor units equipped with a humidity sensor, Dry Cool Operation mode can be set from new stylish remote controller BRC1H64W(K).

Night Quiet Operation

Model	Sound level during Night Quiet Mode
RSUYA4/5/6A	Min. 40 dB(A)
RSUYA7/8/9A	Min. 45 dB(A)

- ✓ Quiet operation to save night-time capacity
- ✓ Consideration for neighbors
- ✓ Sound reduction can be reduced to Min. 40 dB(A) level (4-6 class (HP))

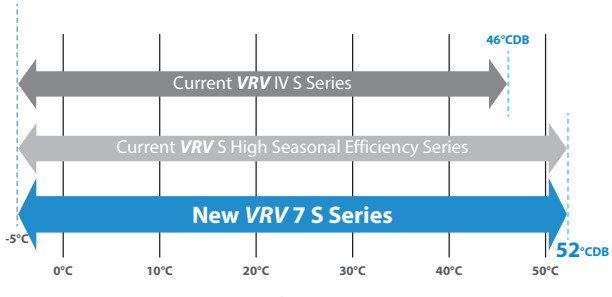
Notes:
*1 This function is available in setting at site.
*2 The operating sound in quiet operation mode is the actual value measured by our company.
*3 The relationship of outdoor temperature (load) and time shown is just an example



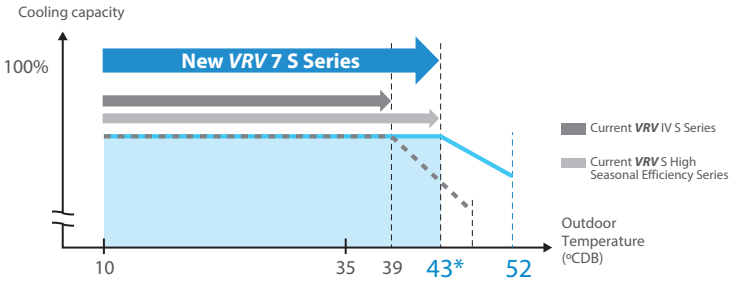
*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
*3. In case of 4-6 class (HP) outdoor unit.

Wide Operation Range

The outdoor operation temperature range is now extended to 52°C. Available even in high outdoor temperature regions.



Rated cooling capacity can be maintained even when outdoor temperature is up to 43°C*. Ensures sufficient cooling capacity even in high ambient temperature.

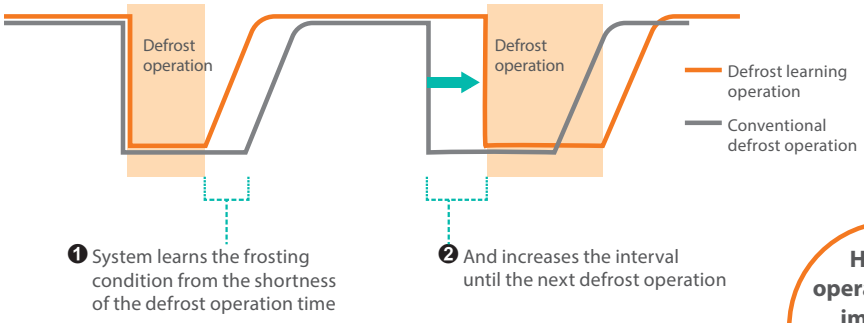


*Rated cooling capacity for 9 class (HP) is up to 42.5°C.

Defrost Learning Function

Improved Heating Operation Time
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 Capacity

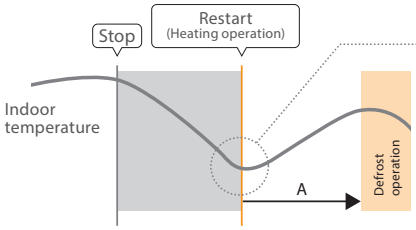


Heating operation time improved up to 10%

Defrost Before Stop

For Faster, Longer Heating
By performing defrosting when the system stops, the system clears frost at the end of the previous cycle. This allows the next heating operation to start up more quickly and maintain continuous heating for a longer period—ensuring faster comfort and more consistent warmth.

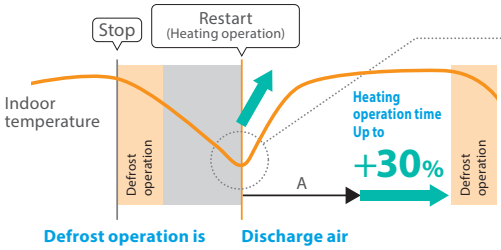
Conventional defrost operation



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.

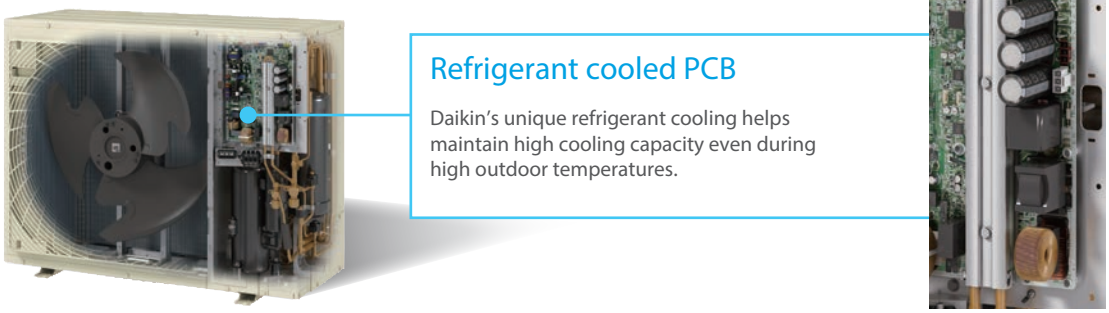
Discharge air temperature in heating operation rises quickly

There is no frost on the heat exchanger before restarting.

Reliability

PCB Cooling Technology

The outdoor operation temperature range is now extended to 52°C. Available even in high outdoor temperature regions.

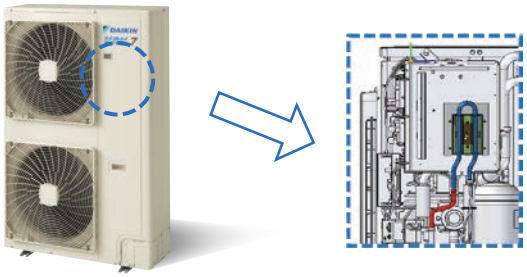


Refrigerant cooled PCB

Daikin's unique refrigerant cooling helps maintain high cooling capacity even during high outdoor temperatures.

Refrigerant cooled PCB technology

Daikin´s unique refrigerant cooling helps maintaining high cooling capacity even during high outdoor temperatures and reducing the number of electronic components needed.

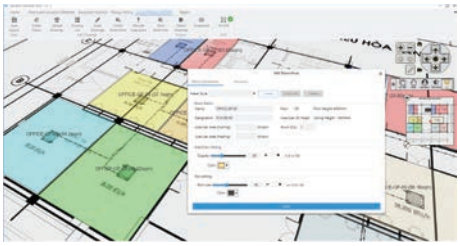


Design Support

Model Selection

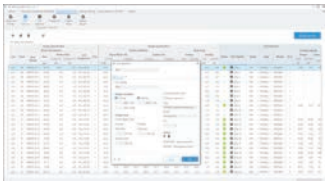
DK-BIM-Heat Load Calculation

Part of our support is the heat load calculation function based on the ASHRAE RTS method. After scanning the building drawing, this feature measures, creates rooms, and sets structures to greatly reduce calculation work.
Setting individual equipment load, occupancy, and outdoor air load for each room is also possible.
The calculation results then assist in equipment selection.



DK-BIM-Model Selection for Air Conditioner

From residential air conditioners to ***VRV*** systems and packaged air conditioners, nearly all air conditioner types can be selected.
Not only can you choose between automatic selection based on heat load calculation results and manual selection where you specify the model, you can also verify pipe sizes, create piping and wiring diagrams, and select central control devices. In addition to report format,
selection results can output piping and wiring diagrams to CAD.



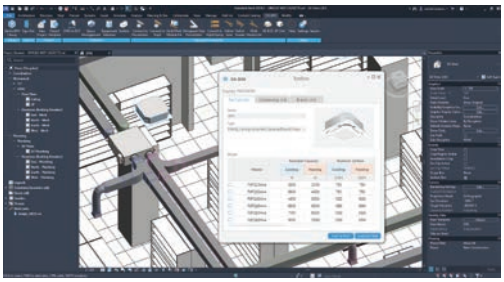
BIM Support and Tools

Daikin BIM Library

Daikin has recently launched the Daikin BIM Library. This provides total BIM support with 3D Revit Data, 2D CAD symbols, and product information such as specification sheets.

DK-BIM Revit Plug-In

This shows an add-on software for Autodesk's Revit. A download of the Revit family provides comprehensive support for the design of Daikin products in Revit for performing layouts and piping drawings.
It also works with DK-BIM, allowing integration with room volumes in Revit, heat load calculations in DK-BIM, and equipment selection results.



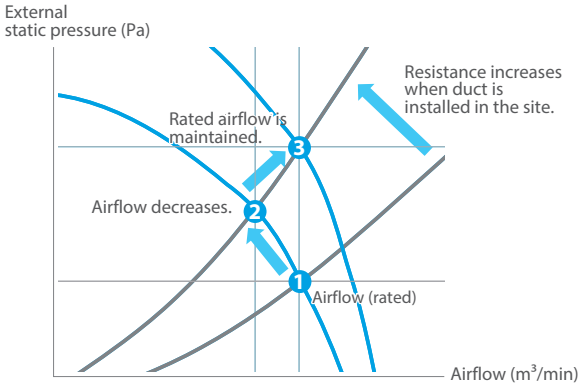
Easy Installation

Prevent Short Circuit with High External Static Pressure

High external static pressure up to 40 Pa and automatic adjustment of external static pressure

The ***VRV*** 7 S Series outdoor unit has been achieved high external static pressure up to 40 Pa, realising stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

The external static pressure automatic adjustment function maintains rated airflow and capacity by automatically adjusting the external static pressure during the test operation to suit the resistance of the installation site.

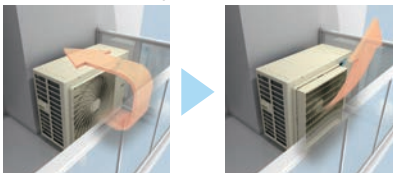


Air Discharge Controllable (for 4-6 class (HP))

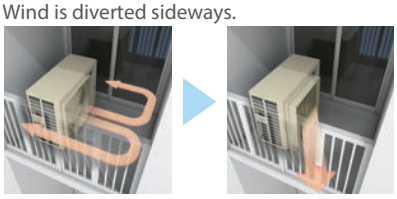
Optimum airflow direction with the optional air direction adjustment grille

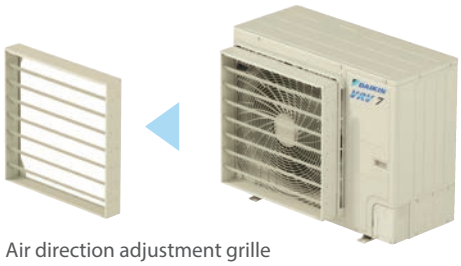
When discharged air is blocked by some obstacle, the optional air direction adjustment grille can divert the airflow to one of 4 directions (up, down, left or right) to avoid the obstacle.

Wind is diverted upwards.



Wind is diverted sideways.

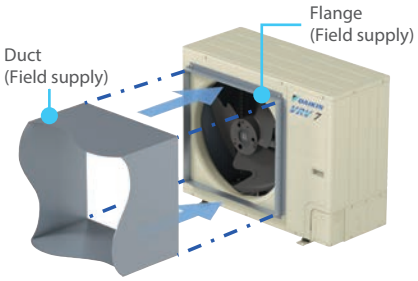




Air direction adjustment grille (option)

Duct installation to stabilising the system

When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



Space-saving with Compact Casing

On the Balcony

This casing design can fit in a small space on balcony and provides occupants with a clear and unobstructed view of the scenery.

On the Rooftop

The compact casing requires minimal installation space, helping maintain a clean and uncluttered rooftop appearance.

Flexible Layout with Long Refrigerant Piping

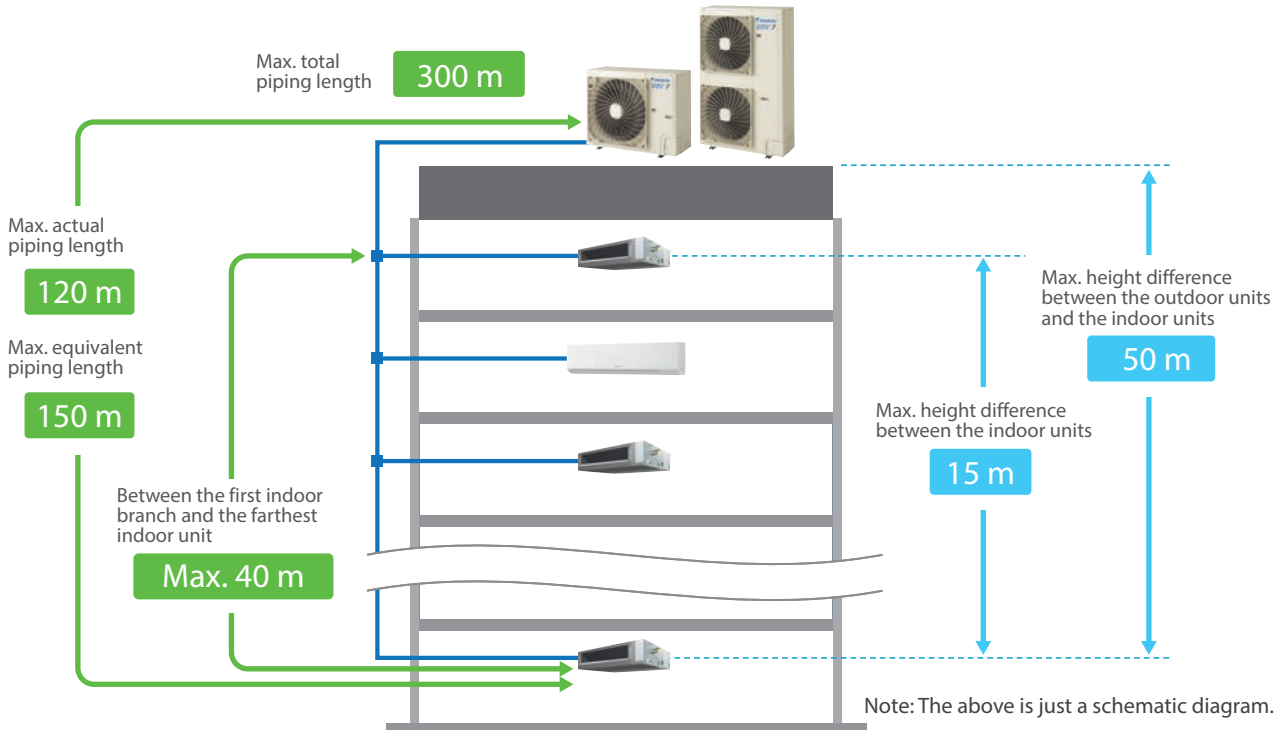
Actual piping length up to 120 m

Allows various installation

Installation on the rooftop of residential apartments

Installation on balconies of residential apartments

One outdoor unit can provide comfort for the whole house



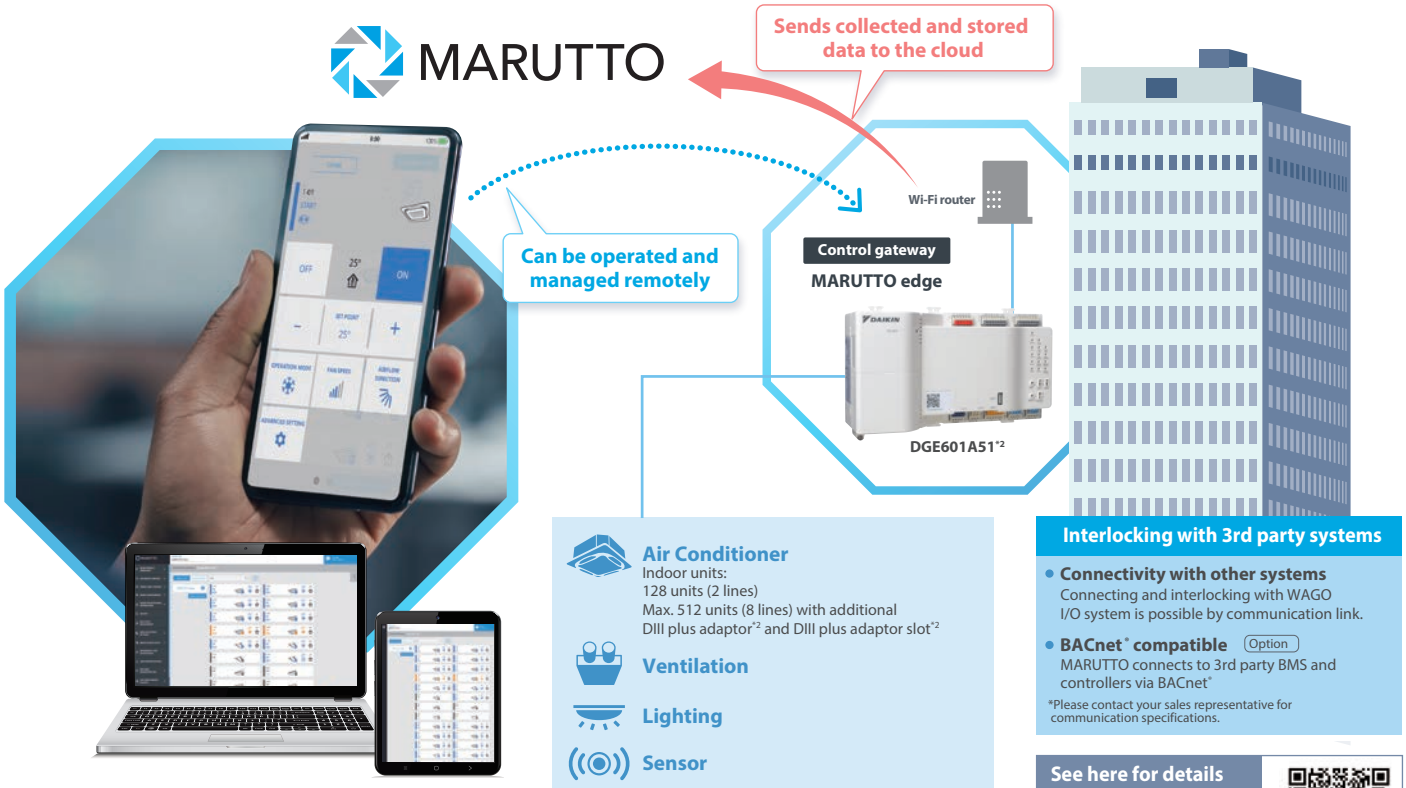
Note: The above is just a schematic diagram.

			4-6 Class (HP)	7-9 Class (HP)
Maximum allowable piping length	Actual piping length (Equivalent)		120 m (150)	120 m (150) New
	Total piping length		300 m	300 m
	Between the first indoor branch and the farthest indoor unit		40 m	40 m
Maximum allowable height difference	Between the indoor units		15 m	15 m
	Between the outdoor units and the indoor units	If the outdoor unit is above.	50 m	50 m
		If the outdoor unit is below.	40 m	40 m

Advanced Control System

Advanced Controls with MARUTTO E-Series

MARUTTO E-Series is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customised support to address HVAC lifecycle concerns.



Air Conditioner
Indoor units:
128 units (2 lines)
Max. 512 units (8 lines) with additional DIII plus adaptor*2 and DIII plus adaptor slot*2

Ventilation

Lighting

Sensor

Other equipment and devices

- Security equipment
- Fire alarm
- Watt-hour meter (via I/O module)
- Applied equipment

Interlocking with 3rd party systems

- **Connectivity with other systems**
  Connecting and interlocking with WAGO I/O system is possible by communication link.
- **BACnet® compatible** (Option)
  MARUTTO connects to 3rd party BMS and controllers via BACnet®

*Please contact your sales representative for communication specifications.

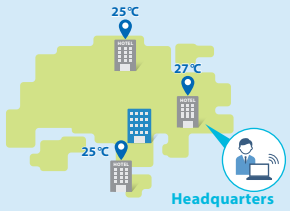
See here for details

Video Overview of MARUTTO Services

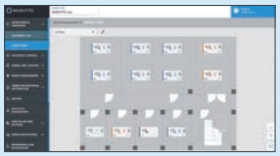
Note:
*1 Operation is only available when the control gateway is connected to the Internet.
*2 DIV-NET and DIII-NET conversion adaptor (option) is required.

Remote monitoring and control

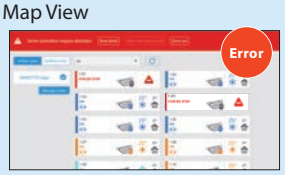
- Multi-Device Support
- Multi-Site Management



- Layout View



- Map View

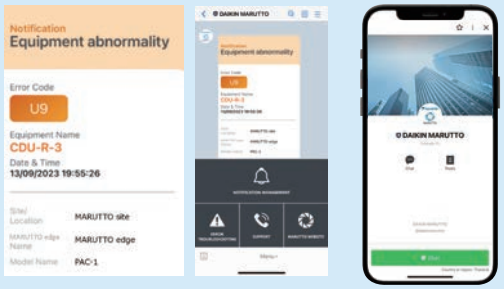


Centralised control

- Interlocking Control of Devices
- User Administration Function
- Schedule Control

Peace of mind service maintenance

- Error Notification Email
- Social Media Support (Option)



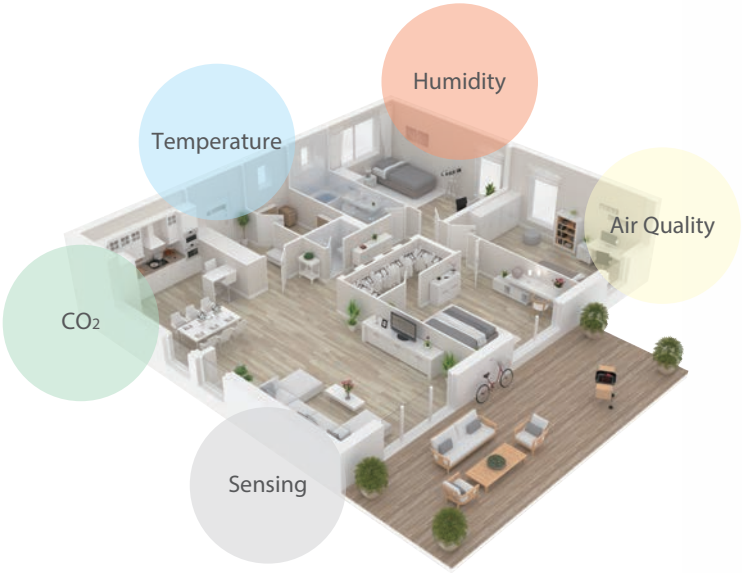
- Remote Emergency Operation (Option)

Optimised energy usage

- Energy Visualization
- Demand Control (Option)
- Operation Data Output Function
- PPD Function (Option)
- Energy-Saving Simulation

Remote and Quick support with MARUTTO E-Series

- Monitor and optimise the indoor air quality
- Monitor and manage for energy saving control
- Regular maintenance
- Emergency inspection and recovery support



High-speed data communication makes it possible to connect devices and sensors, and store the large amounts of operating data in the cloud.

This can be used to remotely control the indoor environment for a more comfortable experience, or more energy saving control.
And the data analysis can be used to prepare for regular maintenance and breakdowns.

In the event of trouble due to a disaster or accident, it will also enable remote status checks and setting support, helping to quickly restore the system.

MARUTTO E-Series offers
"the Peace of Mind"
for everyone involved

- *Advanced maintenance management system.*
- *Integrated control for better Indoor Air Quality*

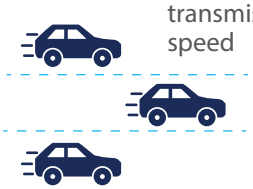
DIV-NET Communication

DIV-NET is a newly developed communication platform engineered to achieves high-speed, high-capacity data exchange, enabling real-time monitoring, precise control, and enhanced system scalability.

This advanced communication system enables enhanced control performance and system reliability. It will be adopted progressively with the release of ***VRV*** 7 S systems, which transition to R-32 refrigerant starting in 2025.

Unoptimised data transmission

DIV-NET Faster data transmission speed



Control Options

Item	Model No.
Simple touch controller *1	DTP401A61
AC adaptor *3	DTP401A62
	DTP401A67
Residential central remote controller *1,2	DCS303A51
Central remote controller *1	DCS302CA61
Electrical box with earth terminal (3 blocks)	KJB311AA
Unified ON/OFF controller *1	DCS301BA61
Electrical box with earth terminal (2 blocks)	KJB212AA
Schedule timer *1	DST301BA61
DIII-NET expander adaptor *1	DTA109A51
DIV-NET and DIII-NET conversion adaptor ★	BRD41A61
External control adaptor *1	DTA104A61

*1. DIV-NET and DIII-NET conversion adaptor ★ is required.
*2. For residential use only. Cannot be used with other centralized control equipment.
*3. DTP401A62 is for Vietnam and Philippines market.
DTP401A67 is for Australia and New Zealand market.

Indoor Unit

FXFSA Round Flow Cassette with Sensing

Comfort and energy saving by sensing function

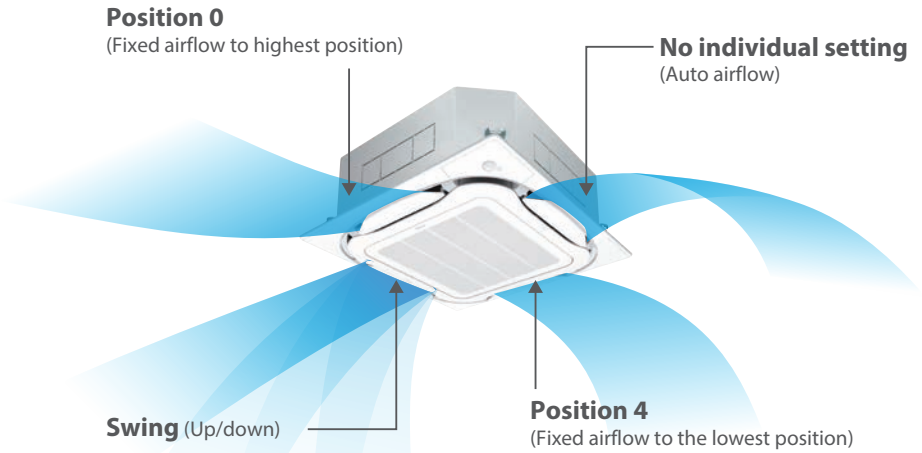
Individual airflow direction control

Comfortable air conditioning for all room layouts and conditions
Easy setting is possible with a wired remote controller
Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

Individual airflow settings

No individual setting (Auto airflow)
Position 0 (Highest point)
Position 1
Position 2
Position 3
Position 4 (Lowest point)
Swing

Individual settings are possible as stated above.



Decoration Panel (Option)

Standard panel with sensing

Standard panel with sensing
BYCA125AEF (Fresh White)

Standard panel with sensing
BYCA125AEK (Fresh White)

New designer panel*

Designer choice has been given a boost with the increase in number of new types of decoration panels.

Designer panel
BYCA125AAPF (Fresh White)

Close to ideal styling
New designer panel

FLAT
Flatter styling:
Suction panel grid texture smoothed.

CLEAN
Clean-cut form:
Soiling is hard to see on smart-looking panel.

ROUND
Subtle distinction:
around suction inlets silvering is a tasteful touch.

Auto grille panel*

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel is included. Operation is not possible using other remote controllers.

Wireless Remote Controller

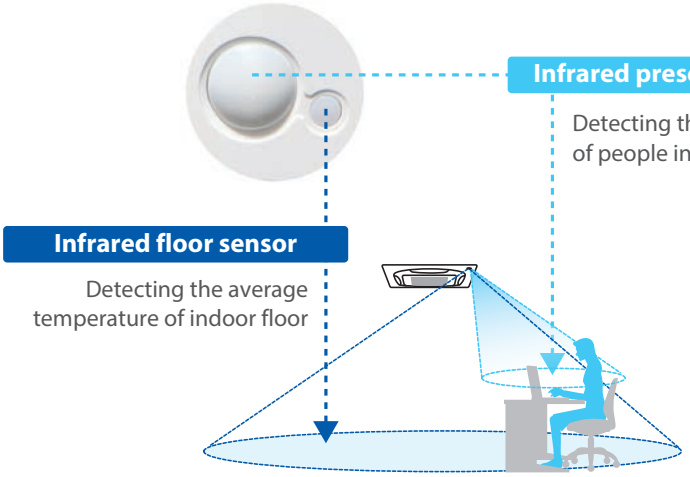
Grille panel can be lowered to a maximum of 3.9 m.
BYCA125AASF (Fresh White)

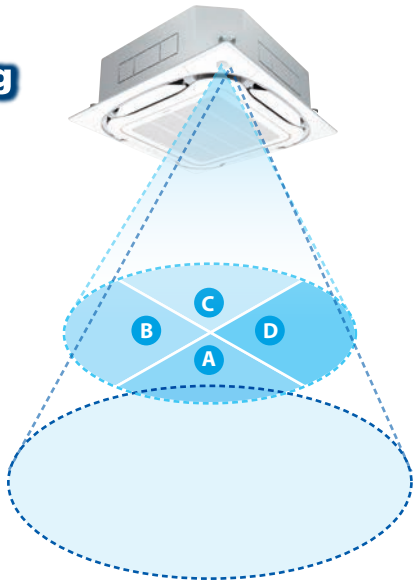
*These panels do not contain the sensing function

Daikin advanced sensing technology dual sensors

Comfort and energy saving by sensing functions

Round flow with sensing





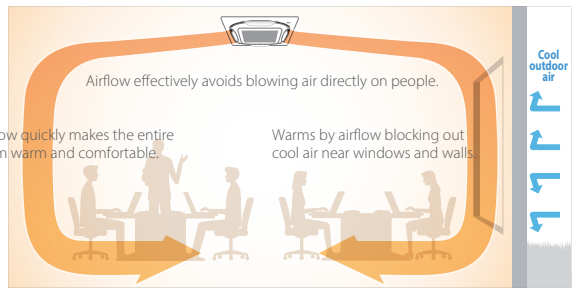
Circulation airflow *1

Circulation airflow warms the entire room starting from your feet.

Comparison Conditions
Room size: Width 7.5m x depth 7.5m x height 2.6m
Indoor unit capacity: 71 class
Outdoor air temperature: 5°C
Airflow rate and air direction: high / Down blow

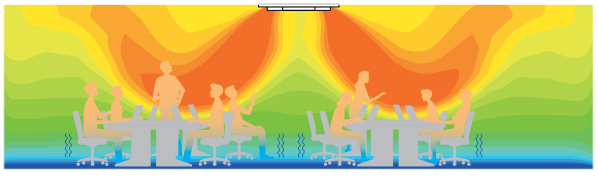
Heating

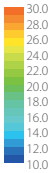
During 2-way horizontal flow



Warmth reliably reaches feet.

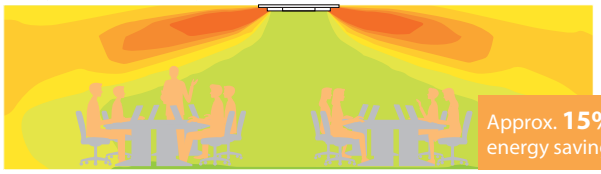
4-way cassette (Down blow)

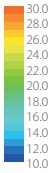




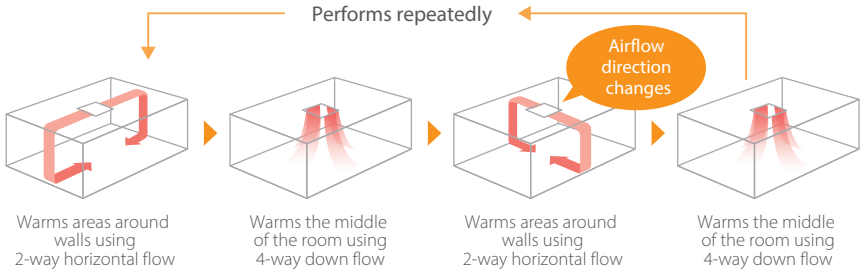
reduce uneven temperatures

Circulation Airflow
(2-way horizontal + 4-way swing)





Operation (at start)



When the target temperature is reached, normal operation (all-round flow) begins.

*2 Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

*1 Applicable when wired remote controller BRC1E63 is used.
Conditions apply for the circulation airflow function. Please contact your local sales office for details.

Indoor Unit

FXSA Middle Static Pressure Duct

Middle static pressure and slim design allow flexible installations

Installation flexibility

Slim design

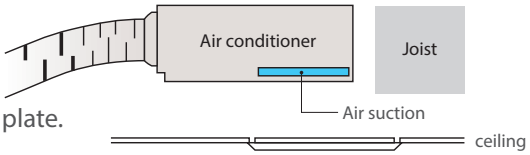
- With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.

Standard DC drain pump

- DC drain pump is equipped as standard accessory with 850 mm lift.

Bottom suction possible

- Bottom suction is possible which facilitates installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate.



Design flexibility

Adjustable external static pressure

- Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa* to 150 Pa.

Adjustable external static pressure

30 Pa* — **150 Pa**

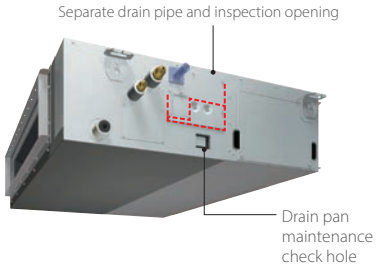
30 Pa–150 Pa for FXSA20-40AVM
50 Pa–150 Pa for FXSA50-125AVM
50 Pa–140 Pa for FXSA140AVM

Comfort

- Control of the airflow rate can be selected from 5-step control. Auto airflow rate control can be selected with wired remote controller.
- Lower sound level: down to 28 dB(A)

Easy maintenance

- Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.



Cleanliness

Silver ion anti-bacterial drain pan

- Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.

High-Efficiency Filter comes with anti-mould and antibacterial treatment

Remote Controller

New

Dedicated for R-32 System

Compatible with DIV-NET

Stylish remote controller (Option)

White
BRC1H64W

Black
BRC1H64K

A complete redesigned controller focused to enhance user experience

reddot design award

Special Site

Sleek and stylish design

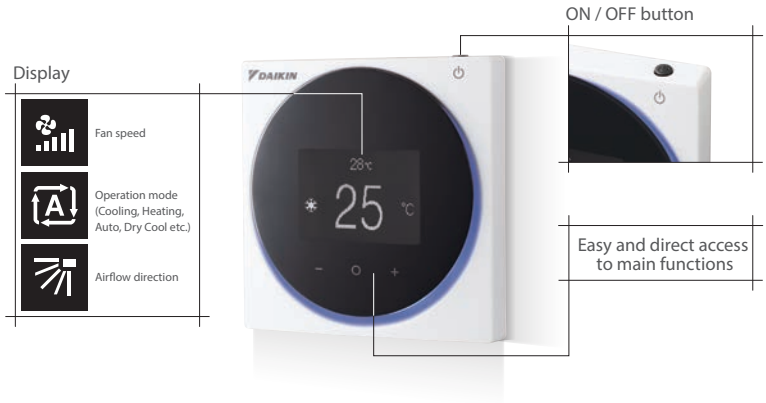
- Combines refinement and simplicity
- Echoes the distinct blue circle and simplicity of design
- Two attractive colours to match any interior
- Compact, measures only 85 x 85 mm

User-friendly interface

- Just three buttons and a large-figure display
- Customisable display
- Direct access to basic functions (ON/OFF, Operation mode, Temperature setting, Airflow rate, Airflow direction)
- New Dry Cool Operation mode

*Refer to page 7 for more details.

- Timer functions (OFF timer, Weekly schedule timer)
- Simple screen for hotel display



R-32 refrigerant leak alarm function

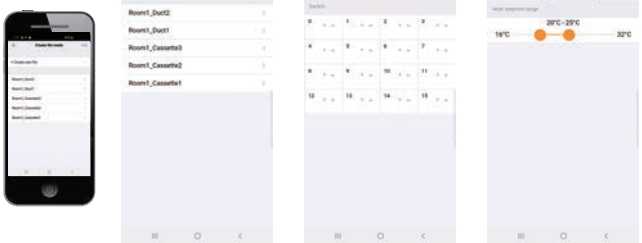
- When a refrigerant leak detector (indoor unit option) connected to the indoor unit detects refrigerant leak, an alarm is displayed and emits a sound.

*Refer to page 22 for more details.

Easy setting via smartphone application using Bluetooth® wireless technology (for Installer/Facility manager)

Shorter installation time

- Easy to create multiple remote control and field settings via App
- Prepare a setting in advance at the office and immediately send it to the on-site remote controller
- Save and reuse settings
- Remote update function (OTA: Over The Air)



<App screen image>

Specifications

Outdoor Unit Specifications

MODEL			RSUYA4AVM	RSUYA5AVM	RSUYA6AVM	RSUYA7AYM	RSUYA8AYM	RSUYA9AYM
								
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			3-phase, 380-415 V/380 V, 50/60 Hz		
Cooling capacity		Btu/h	38,200	47,800	54,600	68,200	76,400	81,900
		kW	11.2	14.0	16.0	20.0	22.4	24.0
Heating capacity		Btu/h	42,700	54,600	61,400	76,400	85,300	88,700
		kW	12.5	16.0	18.0	22.4	25.0	26.0
Power consumption	Cooling	kW	2.19	3.09	3.70	4.60	5.44	5.91
	Heating		2.14	3.06	3.47	4.33	5.05	5.20
Capacity control		%	17-100	15-100		9-100	8-100	
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type for R-32					
	Motor output (Cooling/Heating)	kW	2.4/2.9	3.1/3.9	3.6/4.4	4.7/5.7	5.3/6.3	5.4/6.6
Airflow rate	Cooling	m^3/min	87			155.5		
	Heating		90		94	147		
Dimensions (H×W×D)		mm	870×1,100×460			1,430×940×320		
Machine weight		kg	106			118		
Sound level (Cooling/Heating)		dB(A)	51/52		52/54	59/62		
Operation range	Cooling	°CDB	-5 to 52					
	Heating	°CWB	-20 to 15.5					
Refrigerant	Type		R-32					
	Charge	kg	3.4					
Piping connections	Liquid	mm	ϕ9.5 (Flare)			ϕ9.5 (Blazing)		
	Gas	mm	ϕ15.9 (Flare)			ϕ19.1 (Blazing)		

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
  The sound will be louder than usual when ice has accumulated on the coil of the outdoor unit.
  When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- Refrigerant charge is required.

Options

Item \ Type	RSUYA4AVM	RSUYA5AVM	RSUYA6AVM	RSUYA7AYM	RSUYA8AYM	RSUYA9AYM
REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)					
REFNET joint	KHRP26A22T, BHRP26A22TA					
Drain plug	BKP082A41			KKPJ5H280		
Air direction adjustment grille	KPW082A41			—		
External control adaptor	DTA104A61*					
R-32 refrigerant leak detector	BRYR55A1, BRYR37A1					
R-32 safety shut off valve	SVA140A					

* DIV-NET and DIII-NET conversion adaptor is required.

REFNET joint
(KHRP26A22T, BHRP26A22TA)

Indoor Unit Lineup

R-32 indoor units for residential application to align with New ***VRV*** 7 S series, equipped with the new DIV-NET communication

Type	Model Name		Capacity Range	20 0.8 HP	25 1 HP	32 1.25 HP	40 1.6 HP	50 2 HP	63 2.5 HP	71 3 HP	80 3.2 HP	100 4 HP	125 5 HP	140 6 HP
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140
Round Flow Cassette with Sensing	FXFSA-AVM	VRT smart			●	●	●	●	●		●	●	●	●
Middle Static Pressure Duct	FXSA-AVM	VRT smart		●	●	●	●	●	●		●	●	●	●
Wall Mounted	FXAA-AVM*	VRT smart		●	●	●	●	●	●	●	●	●		

* This series will be launched in September 2026.

Specifications

MODEL			FXFSA25AVM	FXFSA32AVM	FXFSA40AVM	FXFSA50AVM	FXFSA63AVM	FXFSA80AVM	FXFSA100AVM	FXFSA125AVM	FXFSA140AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Power consumption	Cooling	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
	Heating		0.026		0.034	0.056	0.060	0.092	0.144	0.159	0.183
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		m^3/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
		cfm	459/441/406/388/353		600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)		dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (H×W×D)		mm	256×840×840						298×840×840		
Machine weight		kg	19			24	22		25		26
Piping connections	Liquid (Flare)	mm	ϕ6.4						ϕ9.5		
	Gas (Flare)		ϕ12.7						ϕ15.9		
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Specifications

MODEL			FXSA20AVM	FXSA25AVM	FXSA32AVM	FXSA40AVM	FXSA50AVM	FXSA63AVM	FXSA80AVM	FXSA 100AVM	FXSA 125AVM	FXSA 140AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz									
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	61,400
		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Power consumption*1	Cooling	kW	0.058		0.066	0.101	0.075	0.106	0.126	0.151	0.206	0.222
	Heating		0.053		0.061	0.096	0.070	0.101	0.121	0.146	0.201	0.217
Casing			Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)		m^3/min	9/8.3/7.5/7/6.5		9.5/8.8/8/7.5/7	15/13.8/12.5/11.5/10.5	17/15.7/14.5/13/11.5	21/19.3/17.5/16/14.5	23/21.3/19.5/17.8/16	32/29.5/27/24.7/22.5	37/33.9/31.5/28.4/26	39/36.3/33.5/30.8/28
		cfm	318/293/265/247/229		335/311/282/265/247	530/487/441/406/371	600/554/512/459/406	741/681/618/565/512	812/752/688/628/565	1,130/1,041/953/872/794	1,306/1,197/1,112/1,003/918	1,377/1,281/1,183/1,087/988
External static pressure*2		Pa	30-150 (50)				50-150 (50)					50-140 (50)
Sound level (H/HM/M/ML/L)		dB(A)	33/31.5/30/29/28		34/33/32/31/30	36/34.5/33/31.5/30	34/33/32/30.5/29	36/34/32/30.5/29	37.5/36/34/32/30	39/37/35/33.5/32	42/40.5/38.5/37/35	43/41.5/40/38/36
Dimensions (H×W×D)		mm	245×550×800			245×700×800	245×1,000×800			245×1,400×800		245×1,550×800
Machine weight		kg	25			27	35		37	46	47	52
Piping connections	Liquid (Flare)	mm	ϕ6.4							ϕ9.5		
	Gas (Flare)		ϕ12.7							ϕ15.9		
	Drain		VP25 (External Dia. 32/Internal Dia. 25)									

Notes: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

*1: Power consumption values are based on conditions of rated external static pressure.
*2: External static pressure is changeable in 13 stages (20-40 class), 11 stages (50-125 class), 10 stages (140 class) by remote controller.

R-32 Safety Measure

There are cases that require safety measure

To Use *VRV* 7 S Series Safely
R-32 refrigerant offers higher operating performance compared to R-410A, but since it is slightly flammable, proper handling is required. According to IEC 60335-2-40 Edition 7, additional safety measures may be necessary depending on the operating conditions.

Enhanced Safety for Peace of Mind
In the case of a refrigerant leak, accumulated refrigerant gas inside the room may pose a safety risk. Daikin supports essential safety measures such as leak detection, alarms, and a safety shut-off valve (SSOV), along with a comprehensive inspection process to ensure safe operation.

SHÎRUDO TECHNOLOGY

Shîrudo is Daikin's exclusive safety standard designed for R-32 systems, providing enhanced protection and total peace of mind.

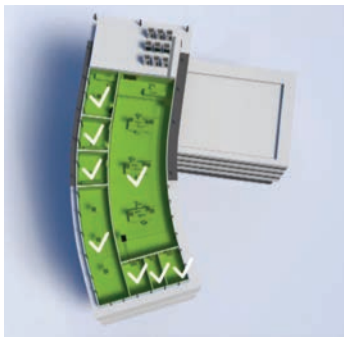
How to consider ?

Considerations for R-32 Refrigerant Safety
R-32 refrigerant is heavier than air and tends to accumulate near the floor, making lower levels more critical in terms of safety design.
The safety measures may vary depending on the room's size, type of the indoor unit and its installation position.

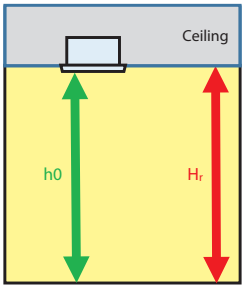
1. Is the room located at **the lowest underground level** of the building?
2. **Effective height of** the room
3. Air volume of the room (**Room area** × effective height)
4. **Total refrigerant amount** in the system

How to check ?

Example of Required Safety Measures Based on Room Area and Refrigerant Charge Amount
The graphs below illustrate the examples of safety measures based on room area and refrigerant charge amount, assuming a cassette-type indoor unit with a ceiling height of 2.2 meters.
Requirements may vary depending on the specific installation conditions.
For more details, please contact your local sales office.

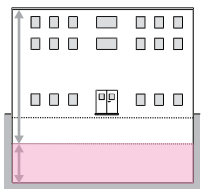


In case of the effective height is 2.2 m

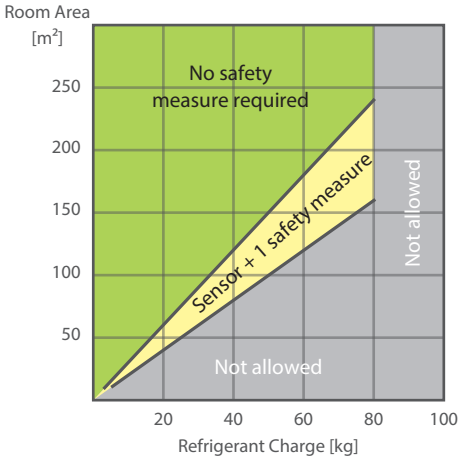


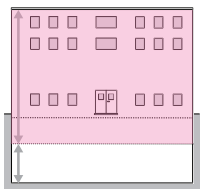
h0 = Installation height

Hr = Effective height
Varies by the indoor unit type and room height conditions

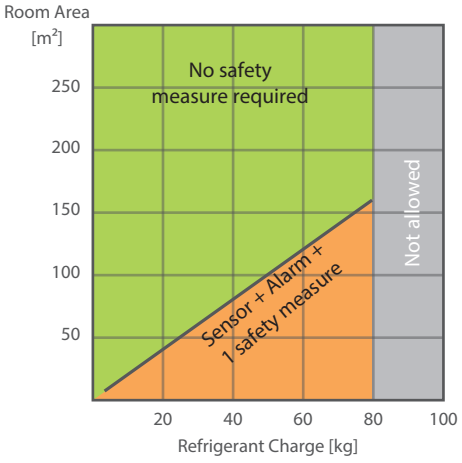


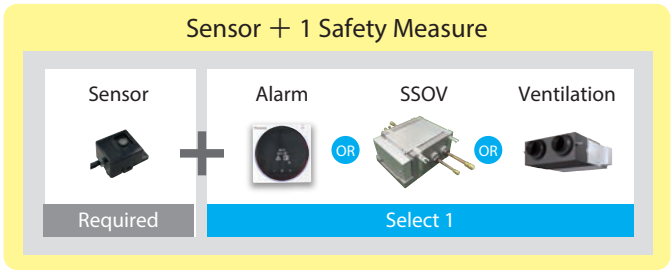
Lowest underground

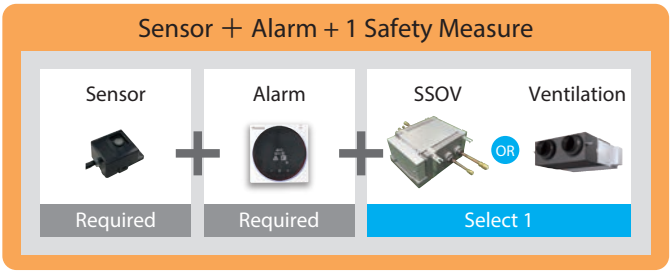




All other floors

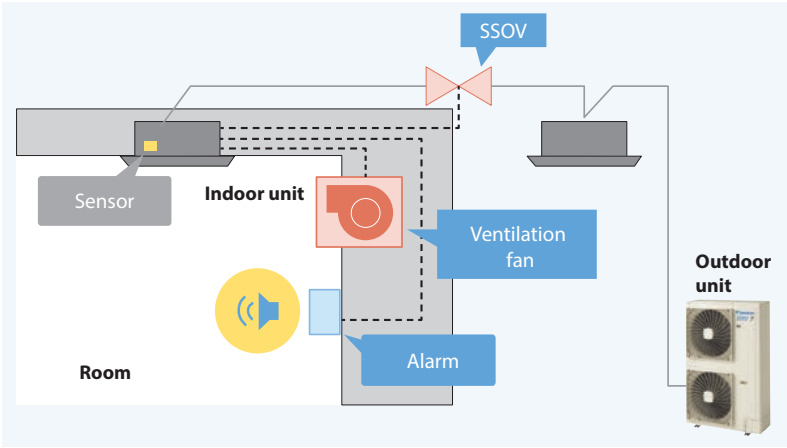






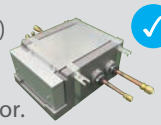
Where to install ?

In rooms where safety measures are deemed necessary based on the criteria, sensors must be installed in all indoor units in the room, along with one or two additional safety devices selected as required. These devices must then be properly integrated to operatein coordination.



As all mechanical joints in the Daikin system comply with ISO14903, they effectively prevent leakage.

The safety shut-off valve (SSOV) compiles with the Shîrudo standard and SSOV itself does not need a leak detection sensor.



The mechanical joints and the SSOV are no worry of the refrigerant leak.
The sensor is necessary only for indoor unit body part.

What devices ?

Sensor
BRYR55A1 (for FXFSA-A)
BRYR37A1 (for FXSA-A)

- It can detect 25% of lower flammable limit (LFL).
- Designed to remain effective beyond the air conditioner system, ensuring long-term reliability.
- Warning when approaching the end of life.

Alarm
BRC1H64W/K

- Both audible/visible warning
- The alarm sound level is at 65 dB(A).
- The alarm sound level should be at least 15 dB(A) higher than the background noise. An extra alarm may be required if the room noise exceeds 65 dB(A).

SSOV
SVA140A

Compact design that can be installed even in narrow ceiling spaces.
Dimensions (H x W x D): 192 x 296 x 389 mm

Adaptor PCB
BRP9A61

+ Ventilation

Adaptor PCB is able to interlock the sensor and external ventilation equipment, such as fans.

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 Limited 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 Limited 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 Ltd (Thailand)	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)

DEALER

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