

Ceiling Mounted Cassette (Round Flow with Sensing) Type

New

FXFSQ-AVM

**Round flow
with sensing**

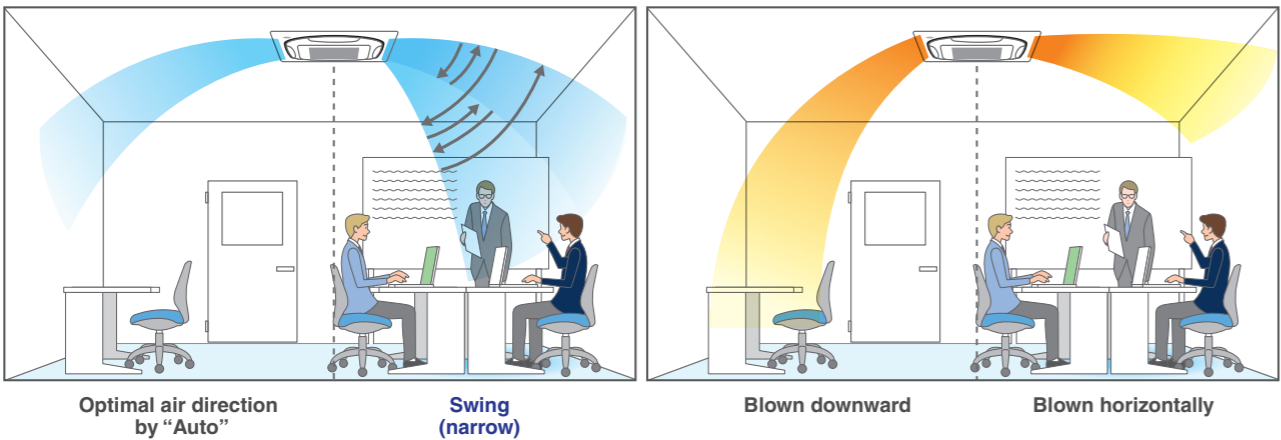


Circulation Airflow Evenly Distributes Cool Air

New Circulation Airflow P.5



New Direct Airflow / Draft prevention function P.4



Individual Airflow Direction Control P.7



The illustration shows typical airflow.

Indoor unit lineup

Ceiling Mounted Cassette (Round Flow with Sensing) Type

New FXFSQ25AVM / FXFSQ32AVM
FXFSQ40AVM / FXFSQ50AVM
FXFSQ63AVM / FXFSQ80AVM
FXFSQ100AVM / FXFSQ125AVM
FXFSQ140AVM

Round flow with sensing



Panel variations (Option)



Standard panel with sensing
BYCQ125EEF (Fresh White)



Standard panel with sensing
BYCQ125EEK (Black)



Standard panel with sensing

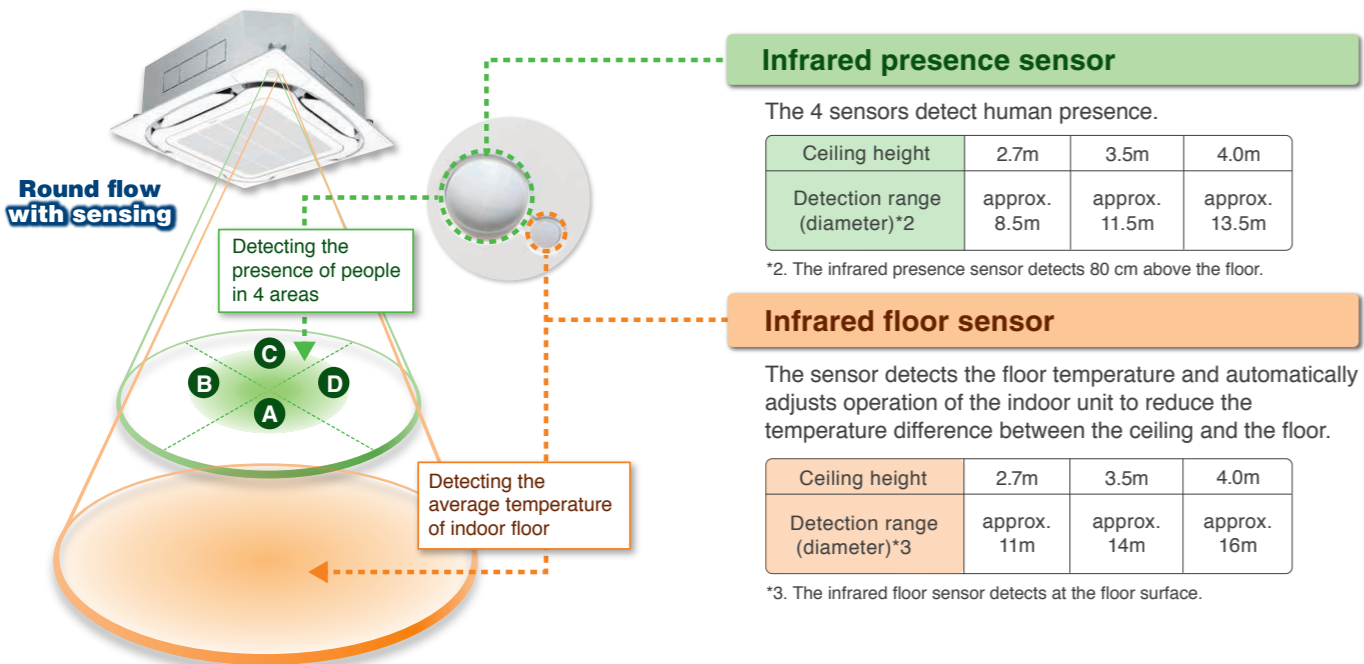


Comfort and Energy Saving by Sensing Functions *1

*1. Applicable when wired remote controller BRC1E63 is used.

Daikin Advanced Sensing Technology

Dual sensors



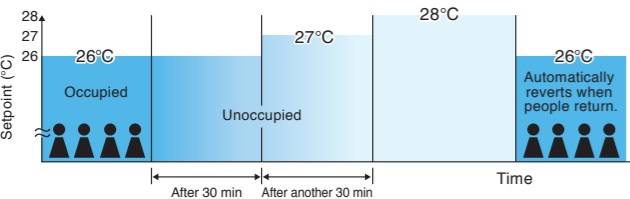
Various sensing functions

Sensing sensor mode*4*5

Sensing sensor low mode (default: OFF)

When there are no people in a room, the set temperature is shifted automatically. The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

Example • Cooling setpoint: 26°C • Shift temperature: 1.0°C
• Shift time: 30 min. • Limit cooling temperature: 30°C



If people do not return, the air conditioner will raise the temperature 1°C every 30 minutes and then operate at 30°C.

Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.*6

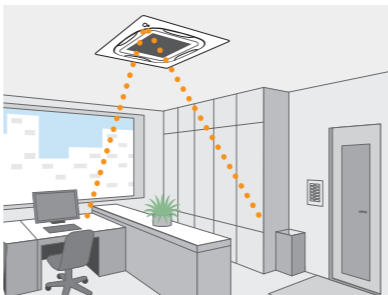
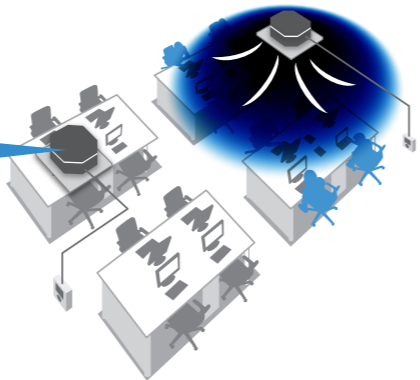
The system automatically saves energy by detecting whether or not the room is occupied. Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

Absent stop time can be selected from 1 to 24 hrs in 1 hr increments with remote controller.

*4. These functions are not available when using the group control system.

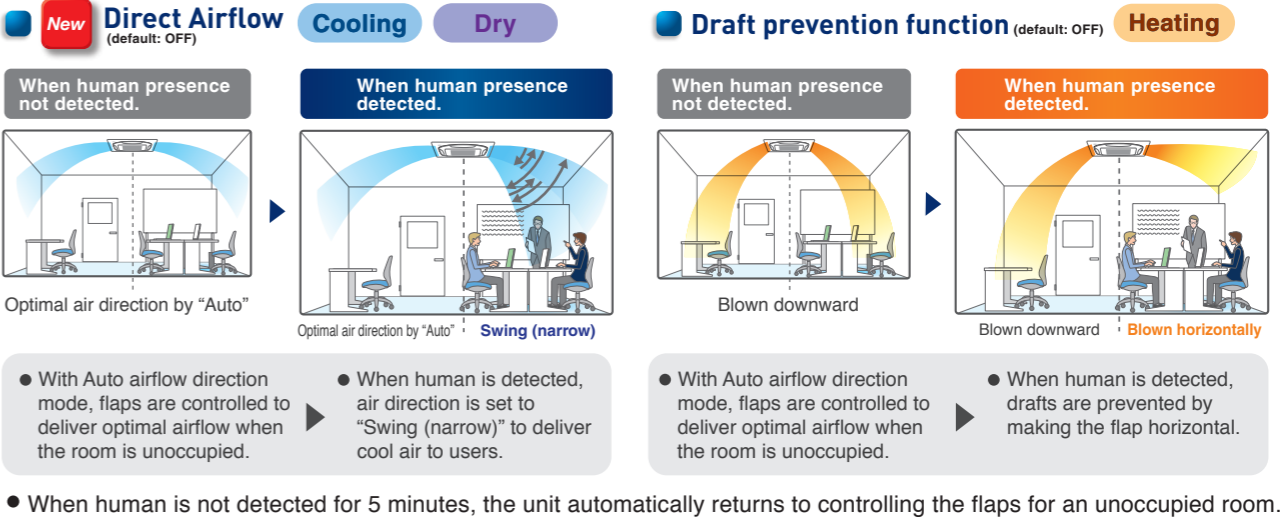
*5. User can set these functions with remote controller.

*6. Please note that upon re-entering the room, air conditioner will not switch on automatically.



Auto airflow function*7

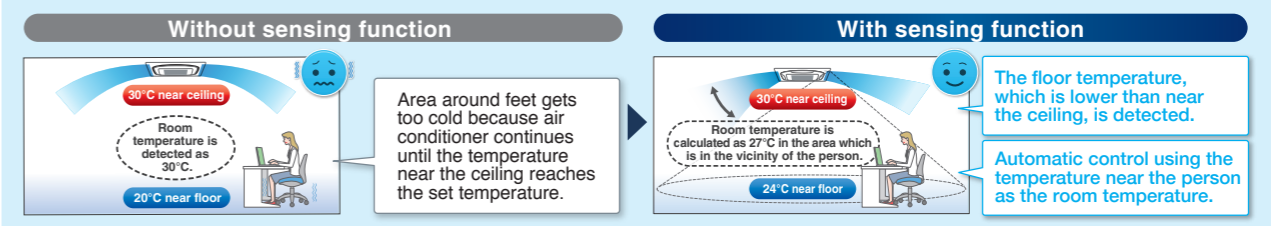
*7. Airflow direction should be set to "Auto".



Comfort and energy saving preventing over cooling/Heating*8

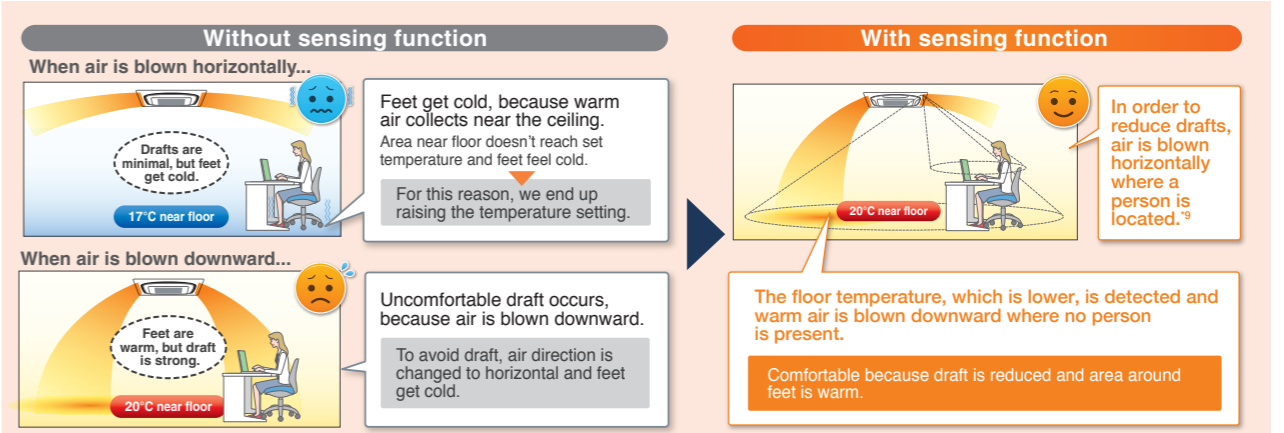
*8. Airflow direction and airflow rate should be set to "Auto".

Floor temperature is detected and over cooling prevented. Cooling



Energy savings The temperature near the person is automatically calculated by detecting the temperature of the floor. Energy is saved, because the area around the feet does not get too cold.

Feet are kept warm and comfortable while reducing uncomfortable drafts. Heating



Energy savings The tendency of people to raise the temperature too much is prevented, because you are warmed up from the feet.

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures. When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

*9. Draft prevention function is set OFF in the initial setting.

^{*1}. Applicable when wired remote controller BRC1E63 is used.
^{*2}. Not applicable when using individual airflow direction control.

Cooling

Circulation airflow cools the entire room to deliver comfort that never feels cold.

During 2-way horizontal flow



Heating

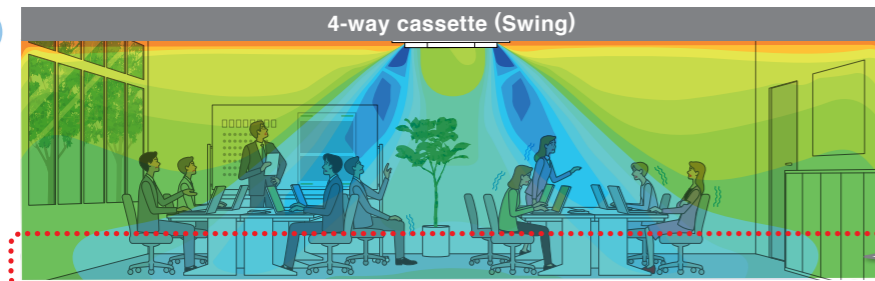
Circulation airflow warms the entire room starting from your feet.

During 2-way horizontal flow



Comfort to the entire room with even temperatures and no cold air pockets at floor level

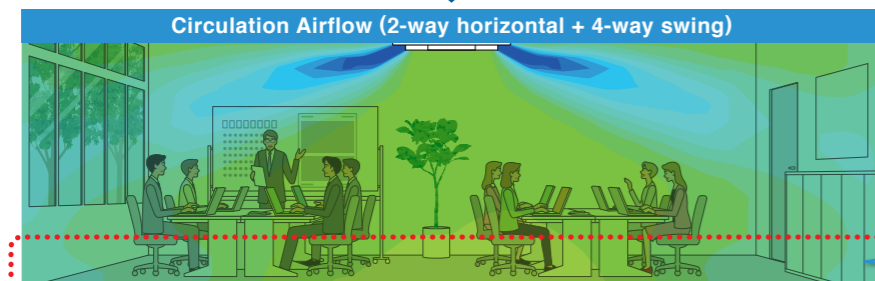
Cooling



Comparison Conditions

- Room size: Width 7.5m x depth 7.5m x height 2.6m
- Indoor unit capacity: 71 class
- Outdoor air temperature: 35°C
- Airflow rate and air direction: high / swing

Areas at floor level are cold while areas around walls are hot.



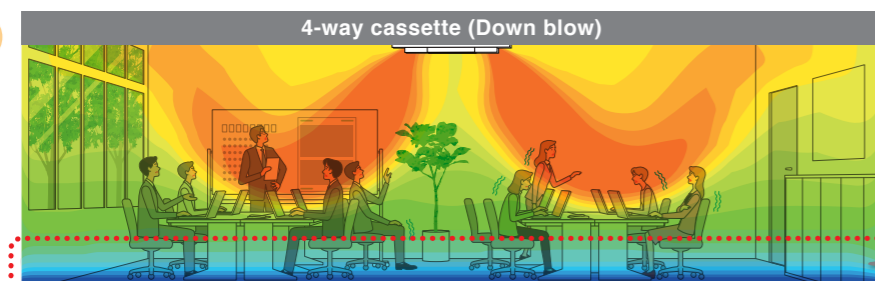
Approx. 5% energy savings^{*3} by reducing uneven temperatures

^{*3}. Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

Full comfort is provided with no cold feet.

Entire room evenly comfortable: warmth reaches feet

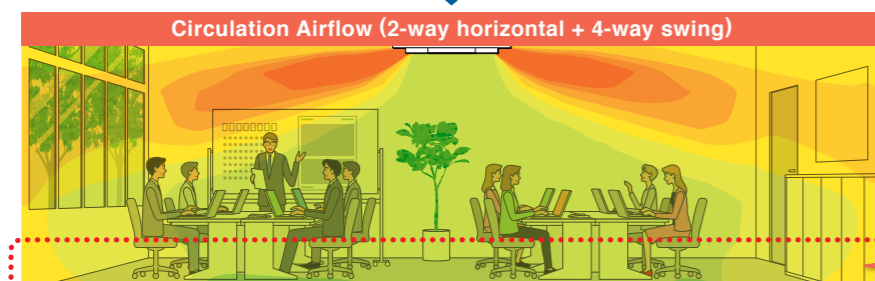
Heating



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

Areas around walls and feet are cold.



Approx. 15% energy savings^{*4} by reducing uneven temperatures

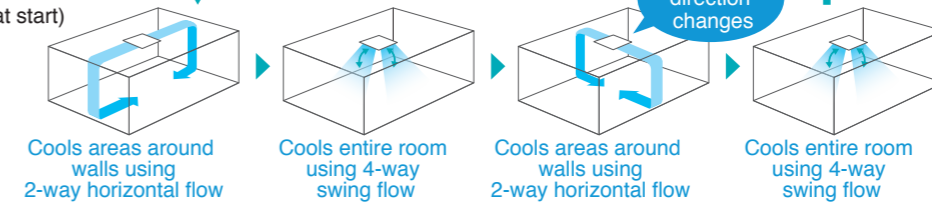
^{*4}. Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

Areas around walls and feet are warm.

Configurations of Circulation Airflow

Cooling

Operation (at start)

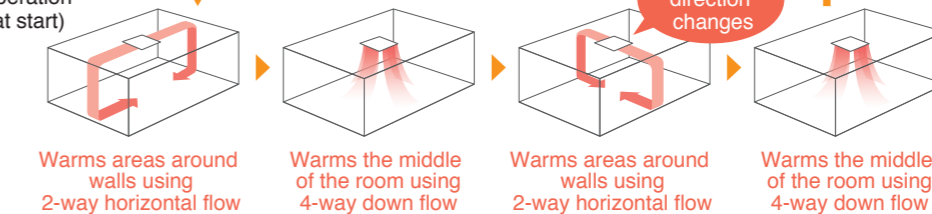


Note: Results may vary depending on equipment conditions, room size, and distance from indoor unit to walls.

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

Heating

Operation (at start)



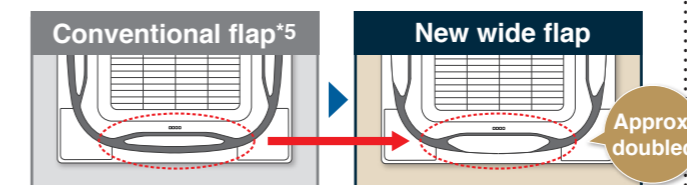
When the target temperature is reached, normal operation (all-round flow) begins.

Three technologies that achieved circulation airflow

Flow-out is straight, horizontally and strong, so the air travels far and even reaches the wall from which it falls to the floor. This approach and technology makes circulation airflow possible.

1 Use of new wide flaps (Straight)

Compared to conventional models, the new wide flap increases straightness of the airflow, so coverage is approximately doubled.



^{*5}. FXFQ-S model

New wide flap construction inhibits ceiling dirt and grime.

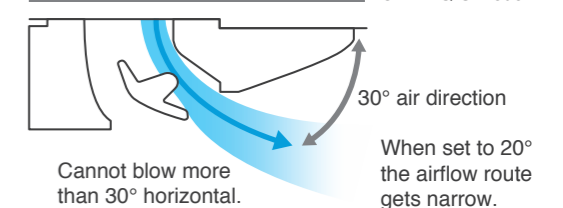
By tapering both flap ends, the airflow that causes dirty ceilings is directed downward.



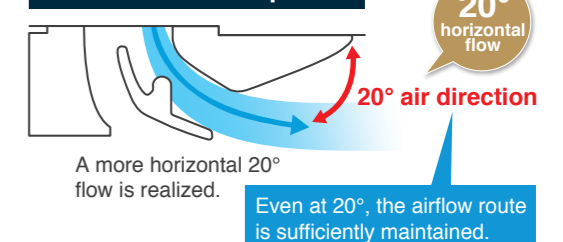
2 Optimizing airflow angle (Horizontally)

Even with the flap angle raised, a sufficient airflow route is maintained to realize a more horizontal airflow angle.

Conventional flap^{*5} ^{*5}. FXFQ-S model

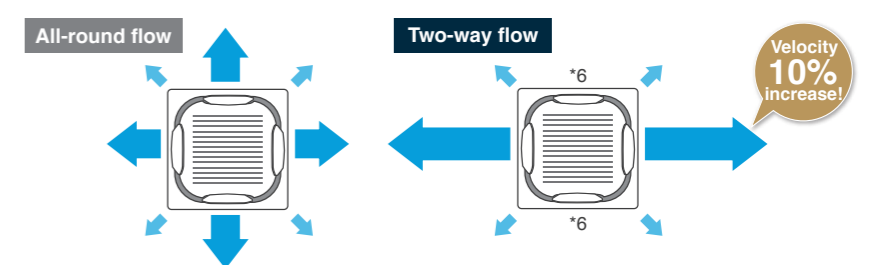


New wide flap



3 Increased velocity in 2-way flow (Strongly)

Velocity increased by making 2-way flow. Powerful airflow was realized.



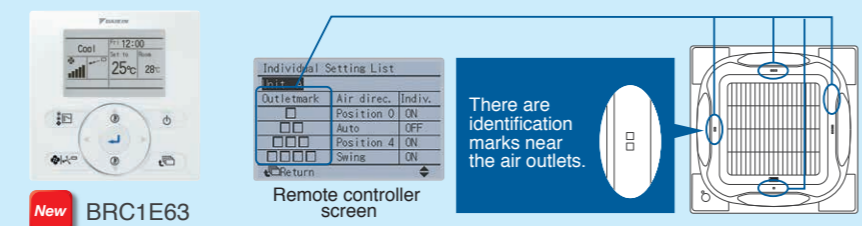
^{*6}. Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.

*1. Applicable when wired remote controller BRC1E63 is used.

Comfortable air conditioning for all room layouts and conditions

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

Easy setting is possible with a wired remote controller.



Position 0
(Fixed airflow to highest position)

No individual setting
(Auto airflow)

Swing
(Up/down)

Position 4
(Fixed airflow to the lowest position)

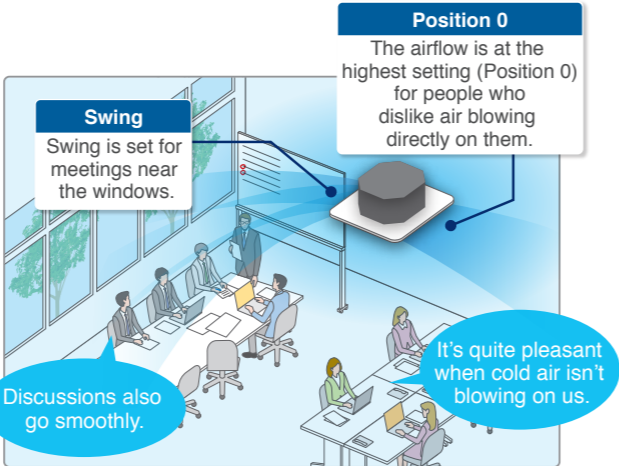
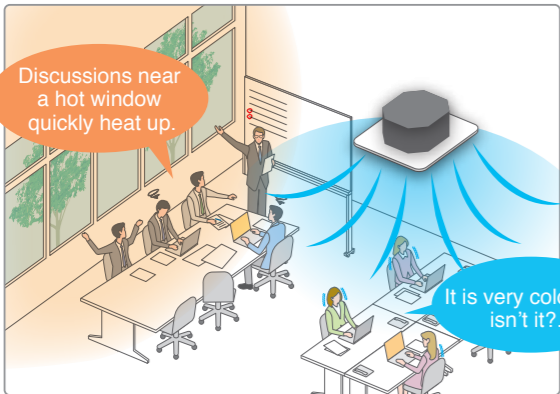
Individual airflow settings

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

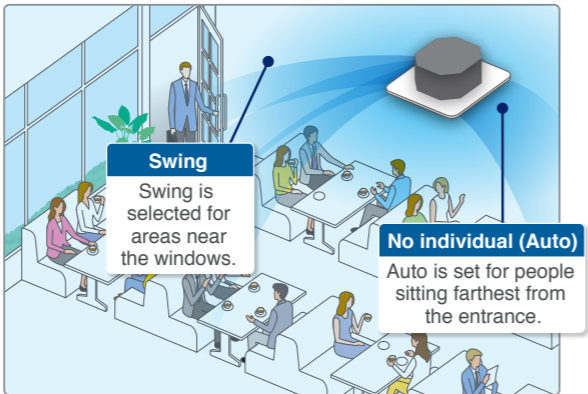
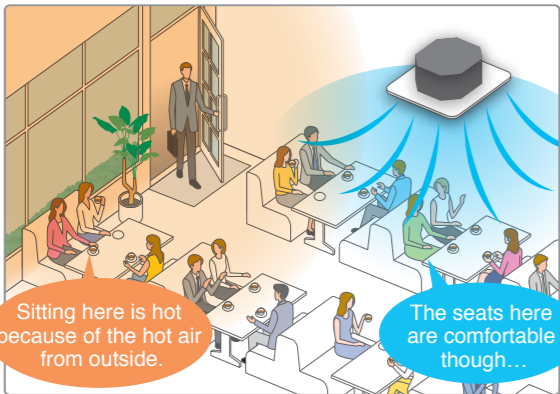
Individual settings are possible as stated above.

When individual airflow is selected, airflow direction can be adjusted to room layout.

For offices

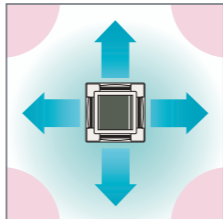


For shops and restaurant

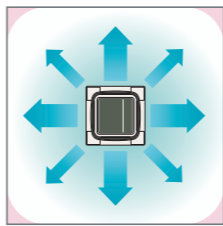
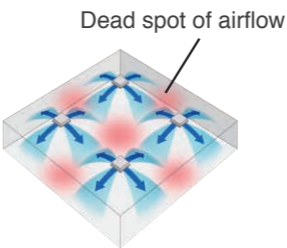


Comfortable airflow

- Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution.



There are areas of uneven temperature.

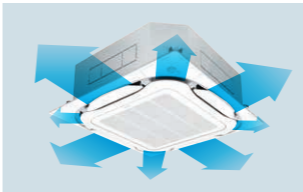


There are much fewer areas of uneven temperature.

Example of airflow patterns

All-round flow is available, as well as 2-way to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.

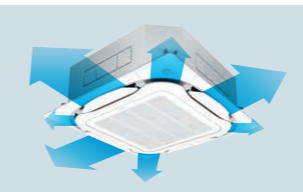
All-round flow



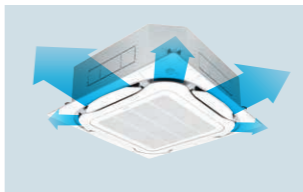
4-way flow



3-way flow



L-shaped 2-way flow



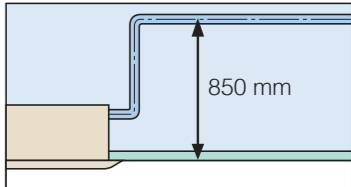
Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.

New

- Control of the airflow rate can be selected from 5-step control and Auto.

Easy installation

- Drain pump is equipped as a standard accessory with a 850 mm lift.



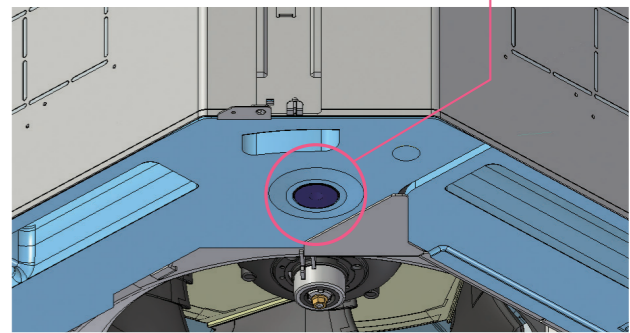
Easy maintenance

- Internal hygiene can be easily checked without removing the whole panel. Simply opening the suction panel allows the internal drain pan to be checked.

New

24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



- The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to the filter.

Specifications

Ceiling Mounted Cassette (Round Flow with Sensing) Type

MODEL			FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM	
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz									
Cooling capacity			kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000	13,800
			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			kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800	
			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		0.037	0.087	0.084	0.093	0.169	0.166	0.212	
	Heating		0.024		0.033	0.082	0.079	0.088	0.153	0.150	0.199	
Casing			Galvanised steel plate									
Airflow rate (HH/HM/M/ML/L)			ℓ/s	217/208/192/183/167		250/233/217/200/183	383/342/292/242/183	392/350/308/267/225	408/367/325/292/250	558/508/450/392/333	575/525/475/425/375	592/542/492/442/383
			m³/min	13/12.5/11.5/11/10		15/14/13/12/11	23/20.5/17.5/14.5/11	23.5/21/18.5/16/13.5	24.5/22/19.5/17.5/15	33.5/30.5/27/23.5/20	34.5/31.5/28.5/25.5/22.5	35.5/32.5/29.5/26.5/23
Sound level (HH/HM/M/ML/L)			dB(A)	30/29.5/28.5/28/27		31/30/29/28/27	38/35/32/29.5/27	38/35.5/33/30.5/28	39/37/35/33/31	44/41/38/35/32	45/42.5/39.5/37/34	46/43.5/40.5/38/35
Dimensions (HxWxD)			mm	256x840x840					298x840x840			
Machine weight			kg	19		23			26			
Piping connections		Liquid (Flare)	mm	ϕ 6.4				ϕ 9.5				
		Gas (Flare)		ϕ 12.7				ϕ 15.9				
		Drain										
			VP25 (External Dia, 32/Internal Dia, 25)									
Panel (Option)	Standard panel with sensing	Model	BYCQ125EEF(Fresh White)/BYCQ125EEK(Black)									
		Dimensions(HxWxD)	mm	50x950x950								
		Weight	kg	5.5								

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, Level difference: 0 m.
•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level 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.

Option List

No.	Item			Type	FXFSQ25AVM FXFSQ32AVM FXFSQ40AVM		FXFSQ50AVM FXFSQ63AVM FXFSQ80AVM		FXFSQ100AVM FXFSQ125AVM FXFSQ140AVM		
1	Decoration panel	Standard panel with sensing	Fresh white		BYCQ125EEF						
			Black		BYCQ125EEK						
			1 Outlet		KDBH551C160						
2	Sealing material of air discharge outlet ¹		2 Outlet		KDBH552C160						
					KDBP55H160FA						
3	Panel spacer										
4	Fresh air intake kit		Chamber type ^{2,3}	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) ⁵						
				With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) ⁵						
5	High-efficiency filter unit (Including filter chamber)		Direct installation type ⁴		KDDP55X160A						
			(Colorimetric method 65%)		KAFP556C80				KAFP556C160		
			(Colorimetric method 90%)		KAFP557C80				KAFP557C160		
6	Replacement high-efficiency filter ⁶		(Colorimetric method 65%)		KAFP552B80				KAFP552B160		
			(Colorimetric method 90%)		KAFP553B80				KAFP553B160		
7	Filter chamber			KDDFP55C160							
8	Replacement long-life filter			KAFP551K160							
9	Ultra long-life filter unit (Including filter chamber)			KAFP55C160							
10	Replacement ultra long-life filter ⁶			KAFP55H160H							
11	Branch duct chamber ¹			KDJP55C80				KDJP55C160			
12	Insulation kit for high humidity ⁷			KDTP55K80				KDTP55K160			
13	Remote controller		Wireless type	Cooling only	BRC7M635F (Fresh White) / BRC7M635K (Black)						
				Heat pump	BRC7M634F (Fresh White) / BRC7M634K (Black)						
			Wired type		BRC1E63						
14	Adaptor for wiring ⁸			KRP1C11A							
15	Wiring adaptor for electrical appendices ⁸			KRP4AA53							
16	Installation box for adaptor PCB			KRP1H98A							
17	Remote sensor (for indoor temperature)			KRCS01-5B							

Note: 1.Circulation airflow is not available with this option.
2.When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
3.It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
4.The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
5.Please order using the names of both components instead of set name.
6.Filter chamber is required.
7.Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
8.Installation box for adaptor PCB(KRP1H98A) is necessary.



Warning



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.