

**PERFECTING GENIUS  
SAFE & CLEAN**

**VRV**

**FXFTQ-AVS** ROUND FLOW CASSETTE WITH SENSING AND STREAMER

**FXFRQ-AVS** ROUND FLOW CASSETTE WITH STREAMER

**PERFECT FEATURES**



**Daikin Streamer Technology** Enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by filter for better air quality.



# INTRODUCING STREAMER TECHNOLOGY TO VRV INDOOR UNIT



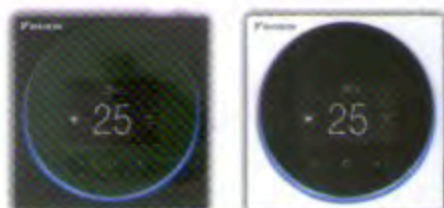
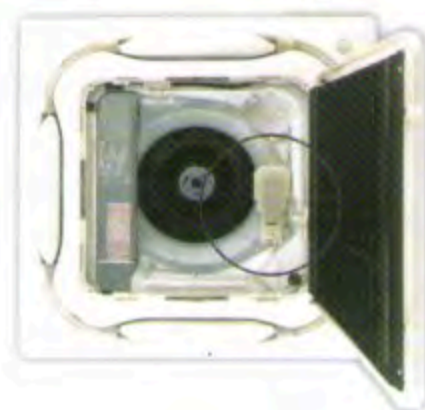
**FXFTQ-AVM**  
**FXFRQ-AVM**

**STREAMER  
TECHNOLOGY**



Irradiate streamers when the fan and air conditioning operation is stopped. The streamer fumigates the cabin and sterilizes the filter.

Streamer function unit is built-in inside the indoor unit for efficient cleaning function.



**Stylish Remote Controller  
BRC1H62W/K**

**Remarks:**

- 1) Only the remote controller BRC1H62W(K) can be connected for ON /OFF operation of the streamer.
- 2) Streamer function operates when the fan stops after the air conditioning operation is stopped. The maximum operation of streamer is 180 minutes per day. [This function is available only when the remote controller BRC1H62W(K) is connected.]

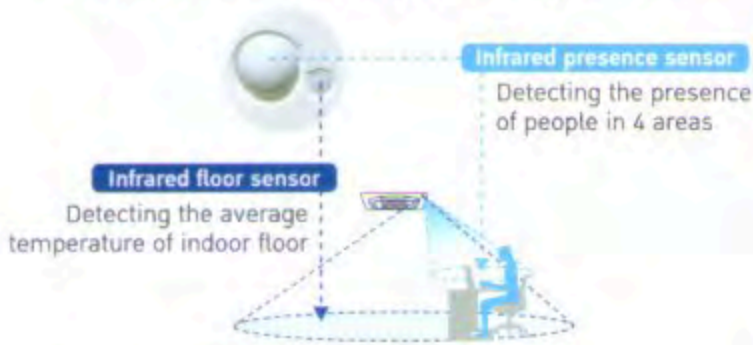
Wired remote controller BRC1H62W/K	Model name	
	FXFTQ-A	FXFRQ-A
Streamer function unit	✓	✓
Dual sensors*	✓	×
Sensing sensor low mode*	✓	×
Sensing sensor stop mode*	✓	×
Individual airflow direction control	✓	✓
Switchable 5 step fan speed	✓	✓
Auto airflow function (Draft prevention)*	✓	×
Auto swing	✓	✓
Swing pattern selection	✓	✓
High ceiling application	✓	✓

Note : \*Applicable when sensing panel is installed.

# Daikin advanced sensing technology

## Dual Sensors

Comfort and energy saving by sensing functions

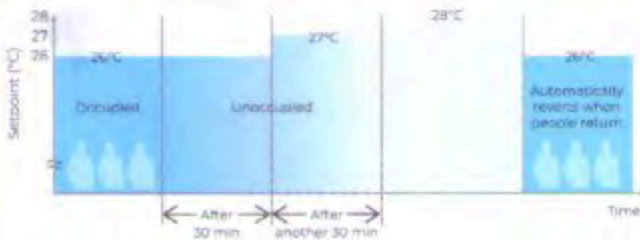


## Sensing sensor mode **Energy saving**

### Sensing sensor low mode (default: OFF)

When there are no people in a room, the set temperature is shifted automatically.

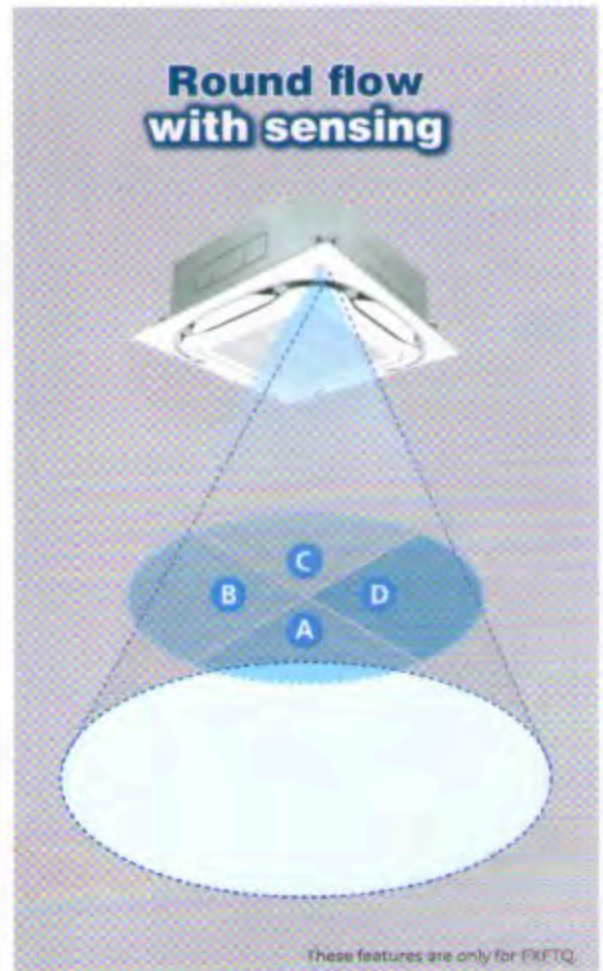
- Example**
- Cooling setpoint: 26°C
  - Shift temperature: 1.8°C
  - Shift time: 30 min
  - Limit cooling temperature: 30°C



### Sensing sensor stop mode (default: OFF)

Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

\*Adjustment is possible for shift time and set temperature by local setting.

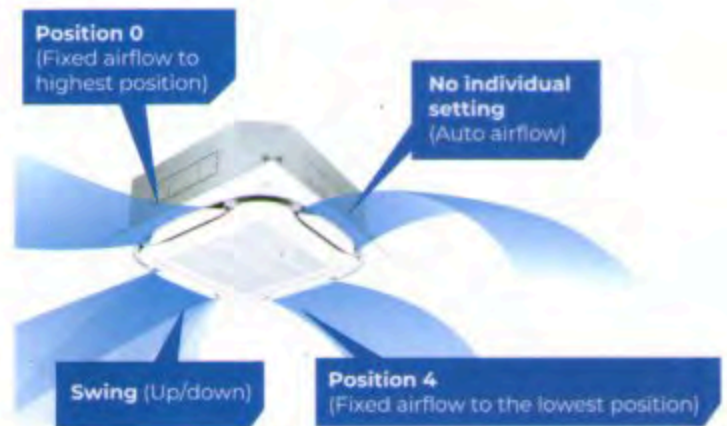


## Individual airflow direction control

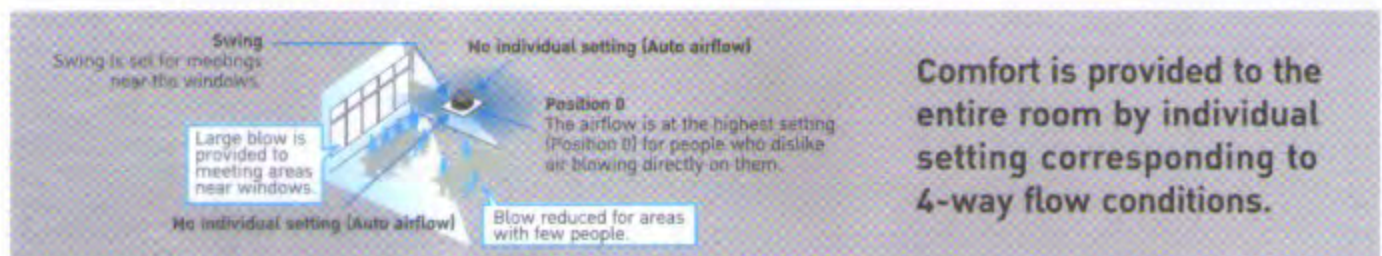
Comfortable air conditioning for all room layouts and conditions

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.





## Streamer Technology

Recognized as clean technology by public bodies

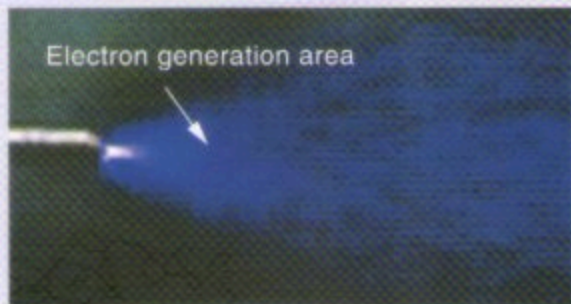
Winner of the  
2005 Progress  
Award, Institute of  
Electrostatics  
Japan

105  
Patents Acquired

Awarded for the development of a domestic air purifier which uses DC streamer discharge.

Patents acquired relating to Streamer technology

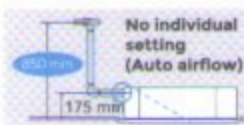
Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.\*



Note: \*Comparison of oxidation decomposition. This does not mean temperature will become high.

## Quick and easy installation

Installable in tight ceiling spaces



No individual setting (Auto airflow)

Min. of 261 mm\* ceiling space when using standard panel.  
\*For FXFTQ/FXFRQ25-80A models.



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

## Cleanliness

Silver ion anti-bacterial drain pan

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

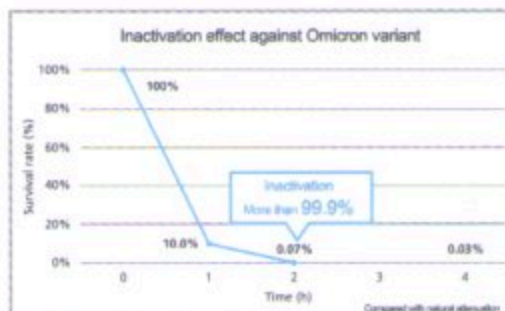


\* Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment

## Experimental Results

Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus [SAR-CoV-2], when compared to without Streamer discharge.



## Evaluation Method

In the verification test, hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 ml of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

## Remarks:

- 1) This description relates to the Streamer Technology devised by Daikin, but not to this indoor unit. Test results from the use of the Streamer Technology are generated according to prescribed test methods conducted by Daikin. Although the Streamer Technology is contained within this indoor unit, this does not mean that precisely the same results will be experienced using this indoor unit. Actual results may differ depending on the conditions of product installation and use of the actual product, etc.
- 2) The test results obtained for the Streamer discharge device were under laboratory conditions. The effect and results of products equipped with Streamer technology may vary under actual conditions.

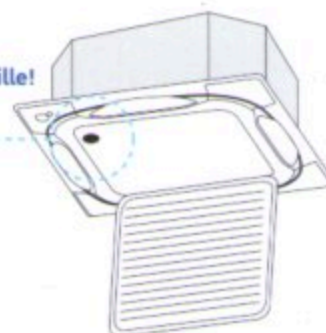
## Easy maintenance

Drain pan and drain water check

The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.

Just open the suction grille!

Drain outlet (with rubber plug)

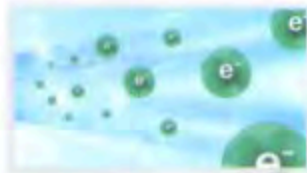




## Why Daikin Streamer?

Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.

### Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing



The decomposing elements provide decomposition power

### Streamer decomposes and eliminates allergens such as pollen, mould, and mites



**15**  
minutes  
after irradiation



Proved with 13 pollen based allergens including cedar pollen and cypress pollen.



**15**  
minutes  
after irradiation

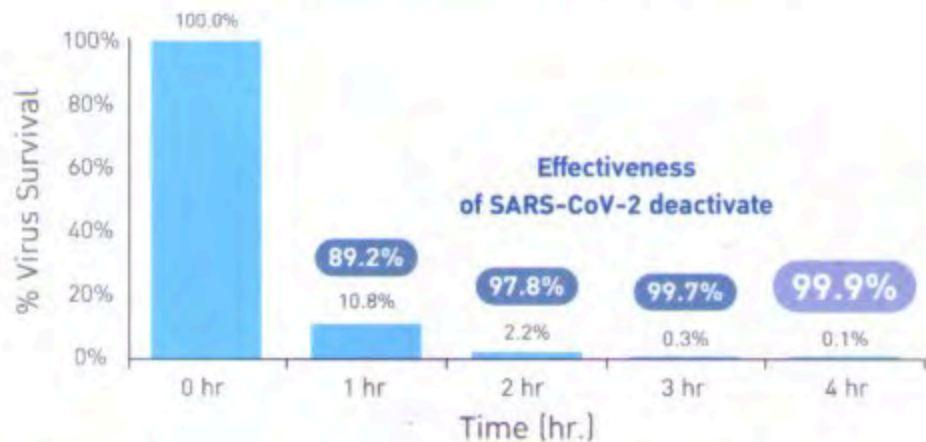


Proved with 6 fungal allergens including Alternaria and Eurotium.

Pollen, mould, and mites (dead mites) were placed on the electrode of the Streamer Discharge unit and then photographed through an electron microscope after being irradiated with Streamer Discharge for 15 minutes.

<A Joint research with Wakayama Medical University.>

### % Deactivate (New) variant of SARS-CoV-2 leftover from Streamer discharge



In June 2021, Daikin Collaborated with Mahidol University to test the efficacy of Streamer technology against SARS-CoV-2. The test confirms that Daikin Streamer can deactivate 99.9% of SARS-CoV-2 within 4 hours.

# Specifications

MODEL NAME		FXFTQ25AVS	FXFTQ32AVS	FXFTQ40AVS	FXFTQ50AVS	FXFTQ63AVS	FXFTQ80AVS	FXFTQ100AVS	FXFTQ125AVS	FXFTQ140AVS
Power supply		VM: 1-phase, 220-240 V/220-230 V, 50/60 Hz or V4VS: 1-phase, 220 V, 50 Hz								
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	Btu/h*	9,600	12,300	15,700	19,500	24,600	30,800	38,600	48,200	55,000
	kW	2.8 / 2.8*	3.6 / 3.6*	4.5 / 4.6*	5.6 / 5.7*	7.1 / 7.2*	9.0 / 9.0*	11.2 / 11.3*	14.0 / 14.1*	16.0 / 16.1*
Power consumption	kW	0.028								
Casing		Galvanised steel plate								
Airflow rate (H/HM/MML/L)	m <sup>3</sup> /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	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	1,183/1,075/953/819/741	1,231/1,121/998/900/812	1,251/1,141/1,018/920/812	1,251/1,141/1,018/920/812
Sound level (H/HM/MML/L)	dB(A)	30/29.5/28.5/28/27								
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			24		22		25	
Piping connections	Liquid (Flare)	ø 6.4								
	Gas (Flare)	ø 12.7								
	Drain	ø 9.5								
		VMV4: VP25 (External Dia. 32/Internal Dia. 25) or VS: External Dia. 34/Internal Dia. 25								

MODEL NAME		FXFRQ25AVS	FXFRQ32AVS	FXFRQ40AVS	FXFRQ50AVS	FXFRQ63AVS	FXFRQ80AVS	FXFRQ100AVS	FXFRQ125AVS	FXFRQ140AVS
Power supply		VM: 1-phase, 220-240 V/220-230 V, 50/60 Hz or V4VS: 1-phase, 220 V, 50 Hz								
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	Btu/h*	9,600	12,300	15,700	19,500	24,600	30,800	38,600	48,200	55,000
	kW	2.8 / 2.8*	3.6 / 3.6*	4.5 / 4.6*	5.6 / 5.7*	7.1 / 7.2*	9.0 / 9.0*	11.2 / 11.3*	14.0 / 14.1*	16.0 / 16.1*
Power consumption	kW	0.029								
Casing		Galvanised steel plate								
Airflow rate (H/HM/MML/L)	m <sup>3</sup> /min	13/12.5/11.5/11/10	17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21	35.5/32.5/29.5/26.5/23	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353	600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,100/1,049/981/900/812	1,165/1,078/988/900/812	1,201/1,114/1,018/920/812	1,201/1,114/1,018/920/812
Sound level (H/HM/MML/L)	dB(A)	30/29.5/28.5/28/27								
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			22		25		26	
Piping connections	Liquid (Flare)	ø 6.4								
	Gas (Flare)	ø 12.7								
	Drain	ø 9.5								
		VMV4: VP25 (External Dia. 32/Internal Dia. 25) or VS: External Dia. 34/Internal Dia. 25								

Notes: Specifications are based on the following conditions:

- Cooling: indoor temp.: 27°CDB, 19°CWB, \*27°CDB, 19.5°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 center.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Option list

Name of option		MODEL NAME	FXFTQ25,32,40,50,63,80AVS	FXFTQ100,125,140AVS	FXFRQ25,32,40,50,63,80AVS	FXFRQ100,125,140AVS
Standard panel with sensing	Fresh white		BYCQ125EEF			
	Black		BYCQ125EEK			
Standard panel	Fresh white		BYCQ125EAF		BYCQ125EAF	
	Black		BYCQ125EAK		BYCQ125EAK	
Panel spacer			KDB55J160F		KDB55J160F	
Fresh air intake kit	Chamber type <sup>1,2,4</sup>	Without T-duct joint	KDDP55C160 [Components: KDDP55C160-1, KDDP55C160-2]		KDDP55C160 [Components: KDDP55C160-1, KDDP55C160-2]	
		With T-duct joint	KDDP55C160K [Components: KDDP55C160-1, KDDP55C160K2]		KDDP55C160K [Components: KDDP55C160-1, KDDP55C160K2]	
	Direct installation type <sup>3</sup>		KDDP55X160A		KDDP55X160A	
Replacement long-life filter			KAF5511D160		KAF5511D160	
Branch duct chamber		KDJP55C80	KDJP55C160		KDJP55C80	KDJP55C160
Insulation kit for high humidity <sup>5</sup>		KDTP55K80A	KDTP55K160A		KDTP55K80A	KDTP55K160A
Stylish remote controller <sup>6</sup>			BRC1H62W/BRC1H62K		BRC1H62W/BRC1H62K	
Adaptor for wiring (operation status output) <sup>7</sup>			BRP11B62		BRP11B62	
Digital input adaptor <sup>7</sup>			BRP7A52		BRP7A52	
Wiring adaptor for electrical appendices <sup>7</sup>			KRP4AA53		KRP4AA53	
Installation box for adaptor PCB			KRP1H98A		KRP1H98A	
Remote sensor			BRC501A-5		BRC501A-5	
External control adaptor for outdoor unit <sup>1</sup>			DTA104A62		DTA104A62	
Multi tenant for indoor unit (24V free type) <sup>2</sup>			BRP114A61		BRP114A61	
Multi tenant for unit booster (24V free type)			BRP114A63		BRP114A63	

- When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
- 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.
- 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.
- Please order using the names of both components instead of set name.
- Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
- Wiring for wired remote controller should be obtained locally.
- Installation box for adaptor PCB (KRP1H98A) is necessary.

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