

FTKM-Z Series **R-32**



- RKM25ZVMG
- RKM35ZVMG
- RKM50ZVMG
- RKM60ZVMG
- RKM71ZVMG

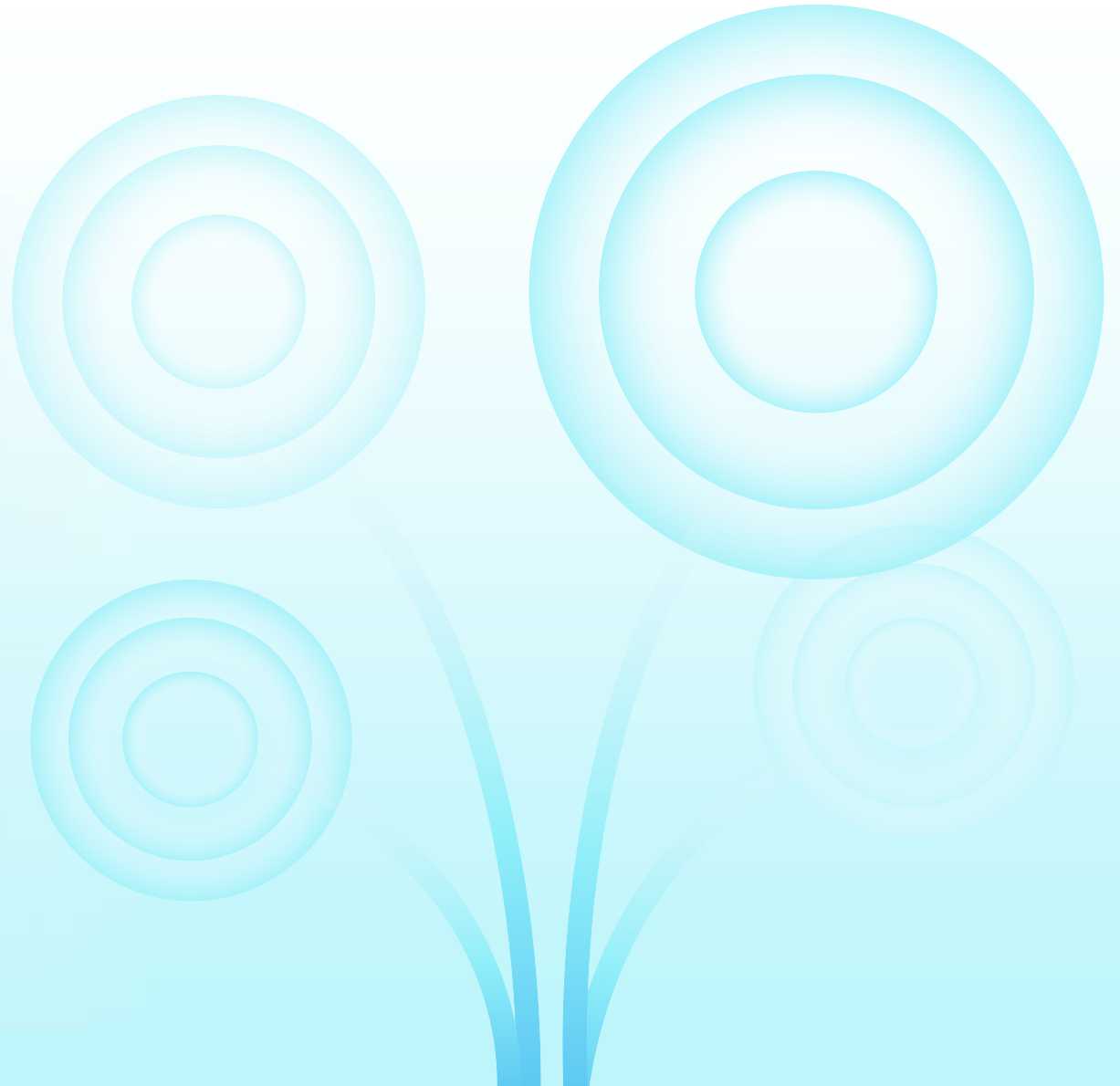
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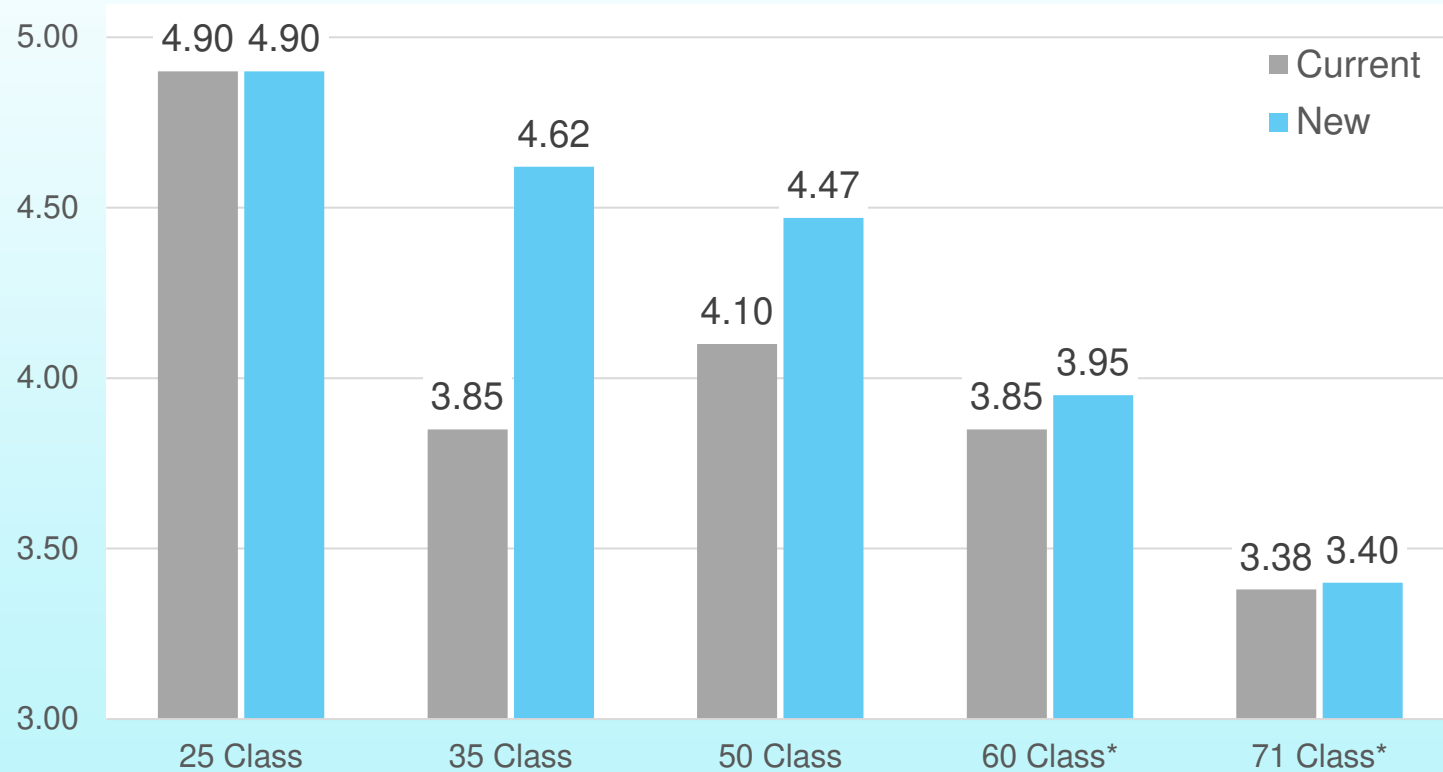
Product Concepts

- 1 Rated 5 ticks
- 2 Streamer Technology
- 3 Comfort Airflow
- 4 Built-in Wifi



Improved 5 Ticks Performance

Rated COP



The terms COP (coefficient of performance) and EER (energy efficiency ratio) describe the heating and cooling efficiency of air conditioners. They indicate the ratio of heating or cooling provided by a unit relative to the amount of electrical input required to generate it.

Thus, if an air conditioner generates 5kW of heat from a 1kW electrical input, its COP is said to be 5.0. Similarly, if an air conditioner generates 5kW of cooling from a 1kW electrical input its EER is also said to be 5.0. The higher the COP and EER, the more energy efficient is the equipment.

*Class 60/71 are 4-tick.

Streamer Technology

New structure, Filter + Streamer on the front

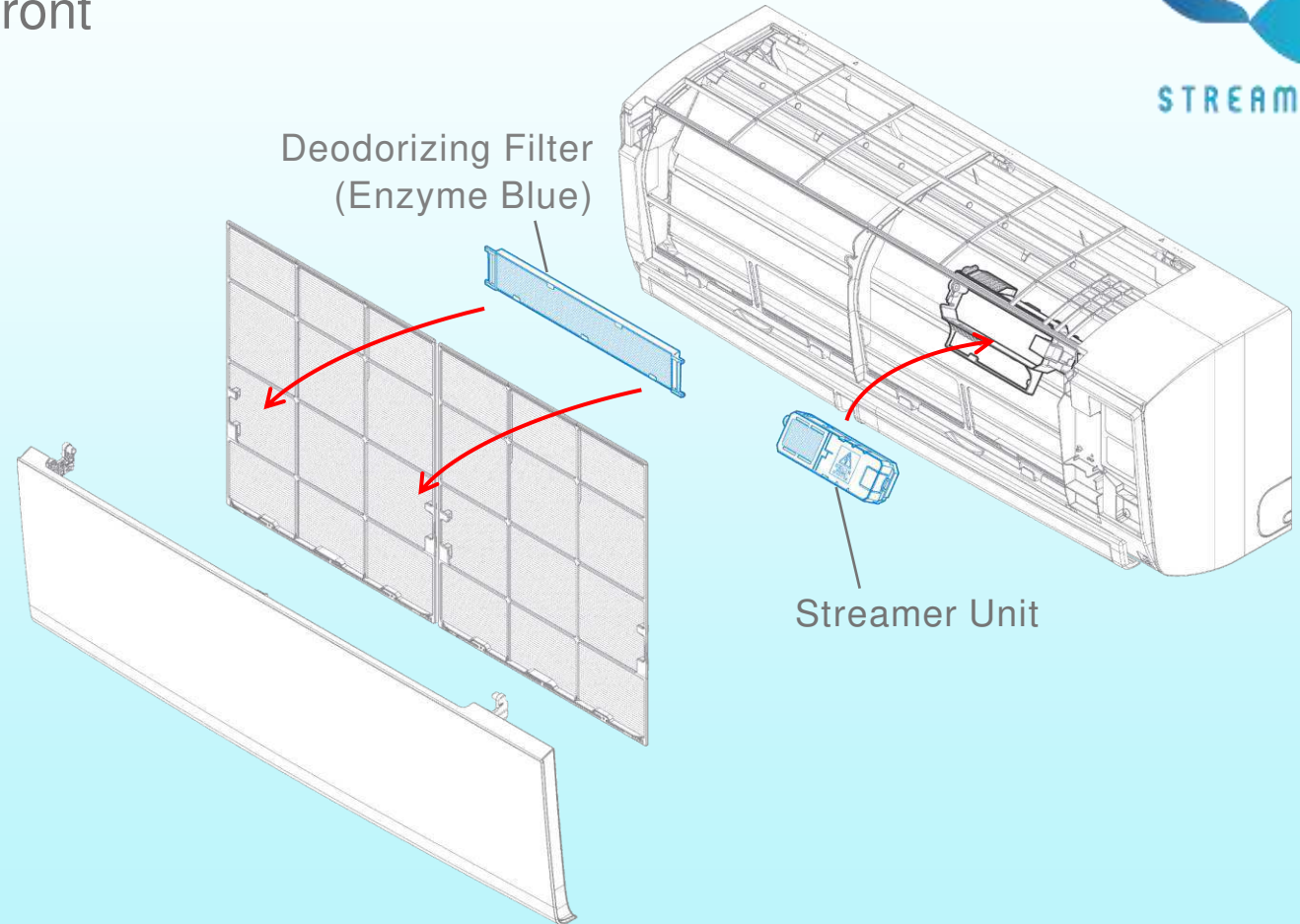
*For 25-60 Class



Deodorizing Filter
Remove odor causing agents, allergens, fungi, bacteria and virus.



Streamer Unit
High speed electrons are discharged. This enables decomposition and removal allergens such as bacteria, viruses, mold, pollen, dust mites.

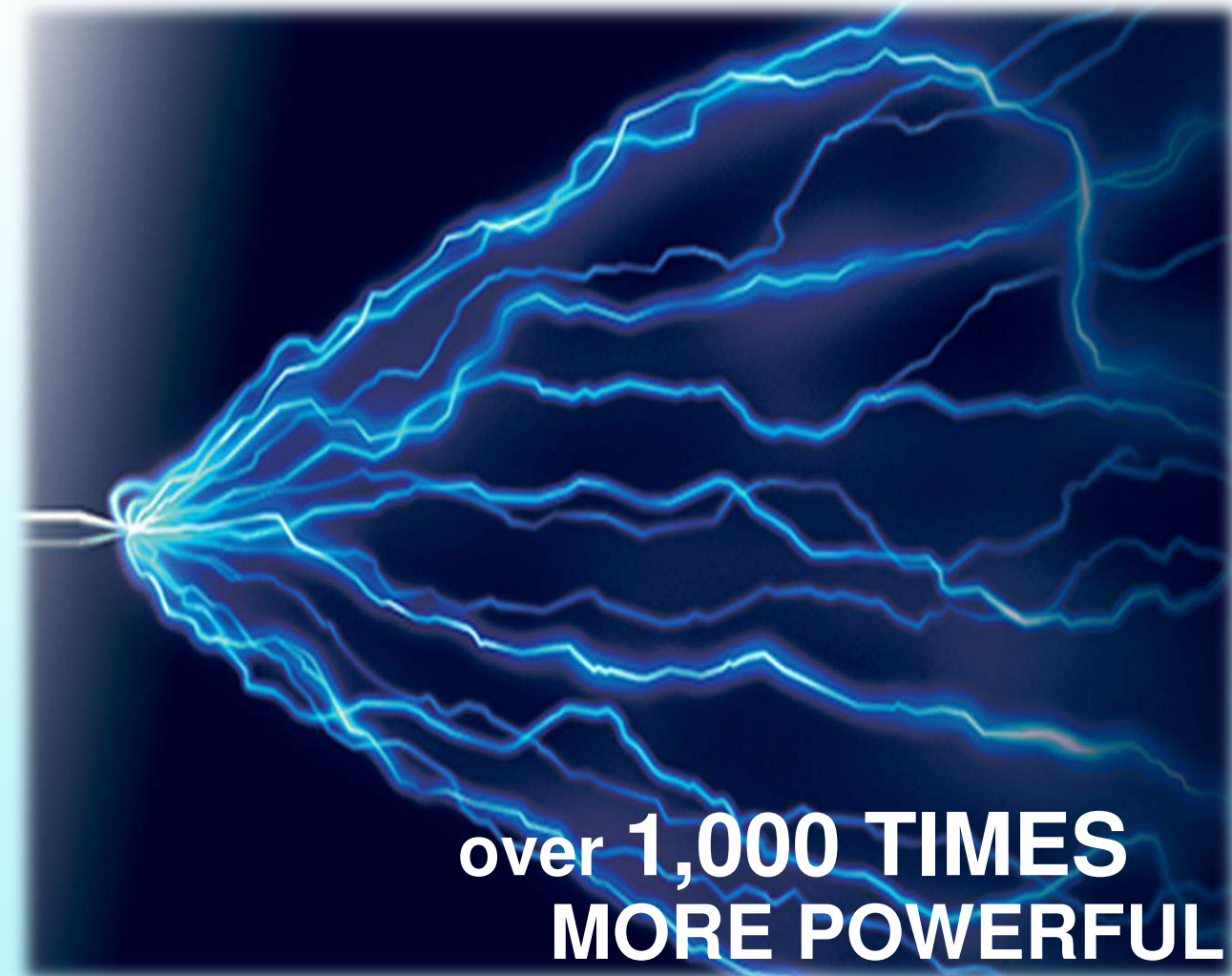


Perfecting the Air

Streamer Technology

Streamer discharge attacks bacteria, mould and virus captured on the filter by irradiating them with an advanced plasma electric discharge.

It has an oxidative decomposition power of 1,000 times or more compared to ordinary electric plasma discharge (glow discharge).

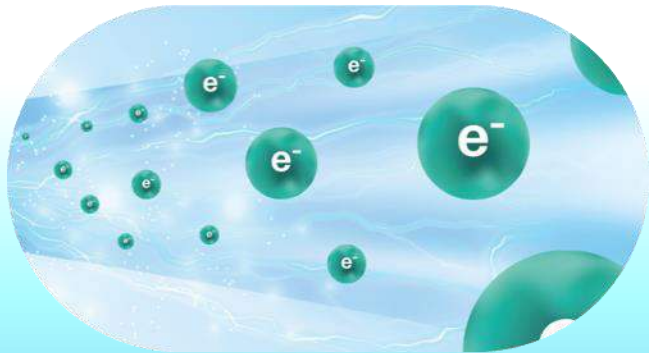


Streamer Technology

Mechanism of decomposition by Streamer

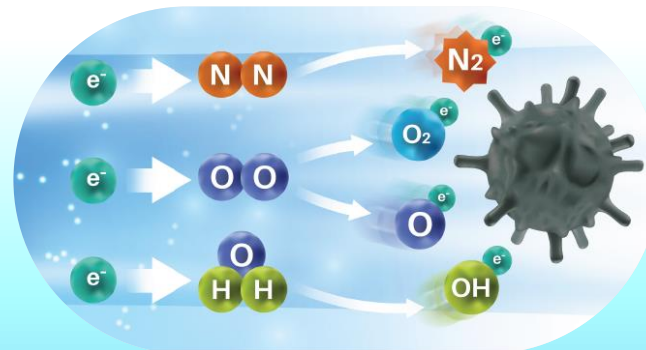
STEP 1 DISCHARGE

The streamer discharge generates high-speed electrons.



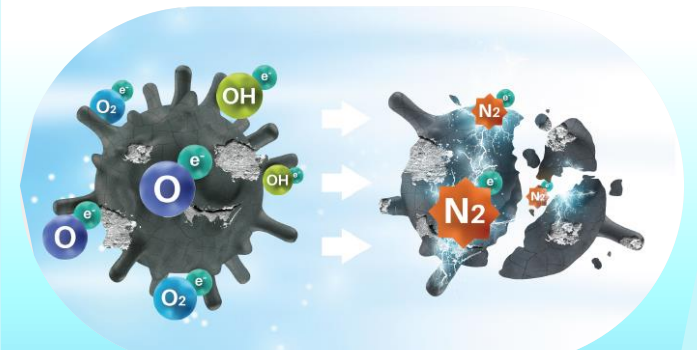
STEP 2 COMBINATION

The high-speed electrons hit and combine with nitrogen and oxygen in the air. This generates high-strength decomposition elements.



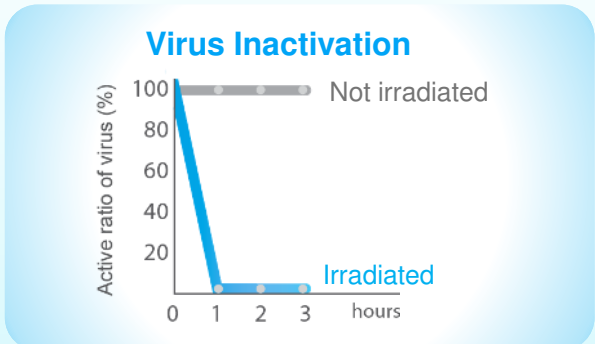
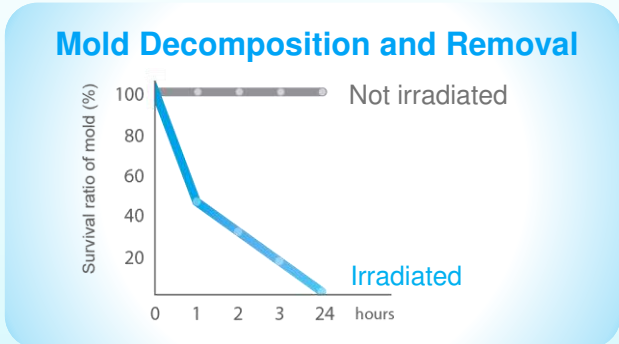
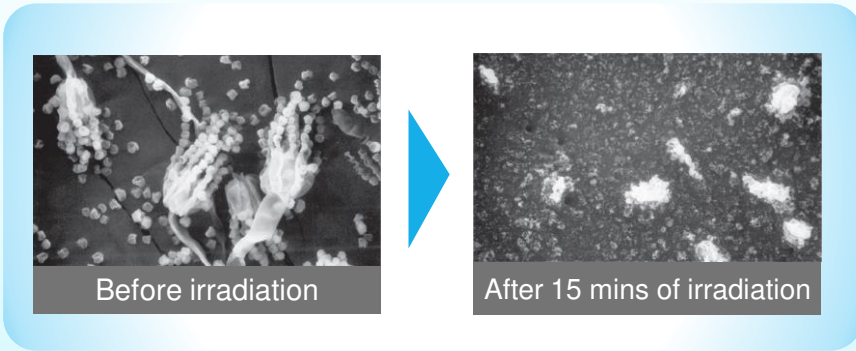
STEP 3 DECOMPOSING

They decompose the surface of harmful proteins, and then destroy the center too.



Streamer Technology

The following are MOLD and VIRUSES removal tests simulations which use Daikin's streamer device¹.



The streamer discharge has a powerful effect on particles captured by the filter.

Cladosporium was placed on an electrode of the streamer discharge unit and a picture was taken using an electron microscope after 15 minutes of discharge.

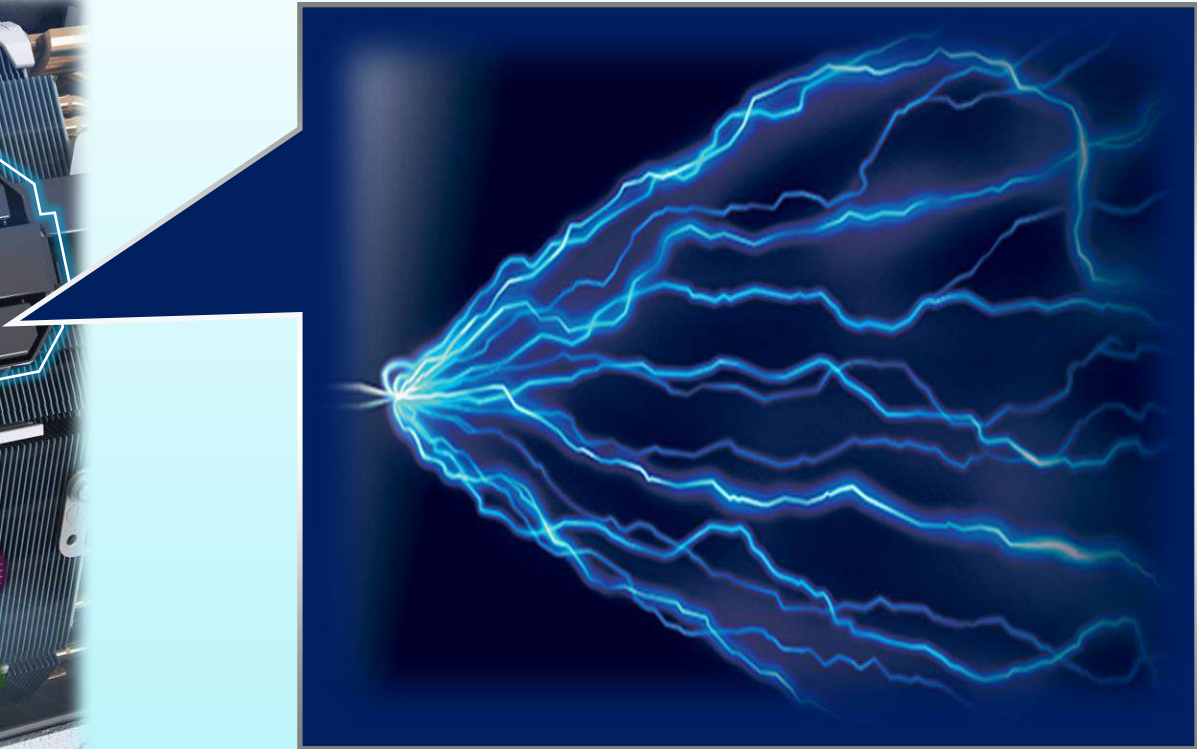
Test mold: Cladosporium
 Test method: Antibacterial test, mold removal test
 Test organization: Japan Food Research Laboratories
 Result certificate: 204041635-001
 Results: The streamer unit removed 99% of the mold in 24 hours. It has an effect on mold captured by the filter.

Test virus: Influenza virus (type A, H1N1)
 Test method: Virus inactivation test
 Test organization: Japan Food Research Laboratories
 Result certificate: 10029107001-01
 Results: The streamer unit inactivated 99% of the virus in one hour. A single type of virus was used in the test. It has an effect on virus captured by the filter.

Note: 1. These results may differ slightly from actual results as they are based on simulations using a testing device equipped with a streamer unit. An actual air conditioner was not used when obtaining these results.

Streamer Technology

Streamer discharge decomposes mould, viruses, allergic substances and odour-causing particles in the air going through the Streamer unit.



Perfecting the Air

Streamer Technology

Q Does the Streamer require maintenance?

A **No maintenance necessary.**
If dust or dirt accumulate around the Streamer, just wipe it away with dry cloth.

Q What are the indicators during Flash Streamer air cleaning operation?

A The Streamer lamp will light up green
The Streamer icon is displayed on the R/C
The unit will make a faint fizzing sound

Q How long can a Streamer unit be used?

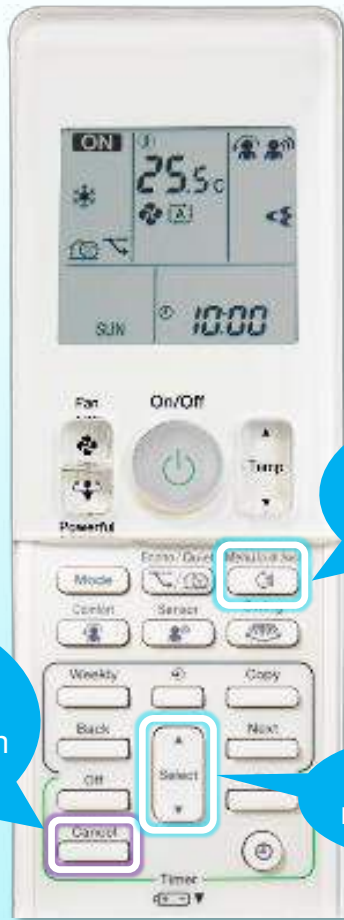
A Maintenance is not necessary as long as there are no issues or malfunctions.

Q Can the air conditioner still be used even if the Streamer is malfunctioning, or detached?

A The air conditioner can still be used even if the Streamer is malfunctioning, or detached.



Streamer Technology

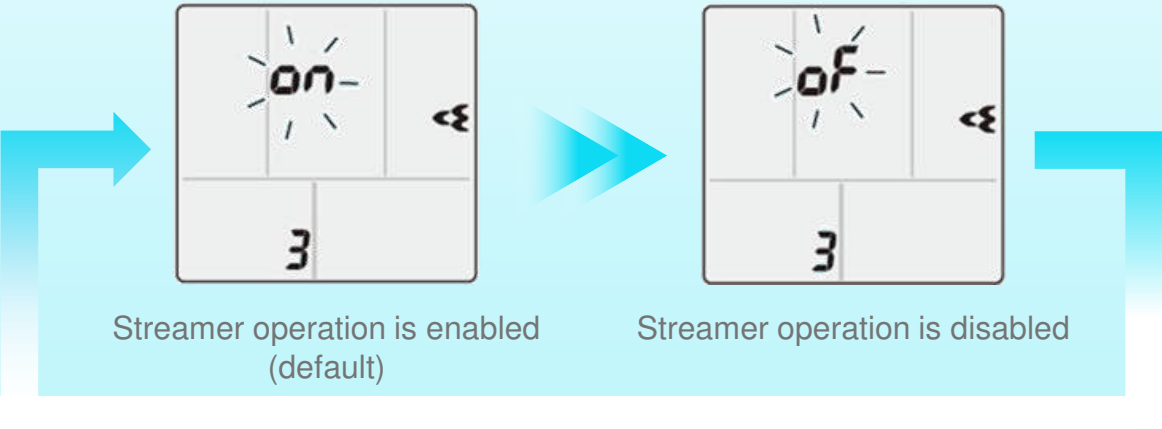


Press and hold for 2 seconds

Can be cancelled With **Cancel** button

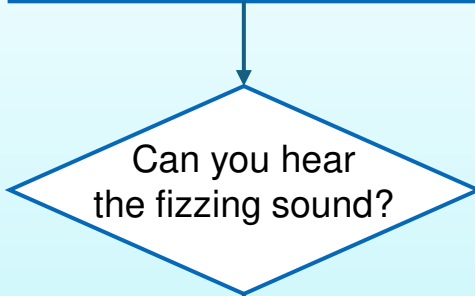
Select menu No.3

Streamer is activated with the **Menu** button, and cancelled with the **Cancel** button.



Streamer Technology

Turn on the Streamer operation with the remote controller.
Confirm that the Streamer icon is displayed.



Yes

No

Streamer unit is not working.
Replace the Streamer unit.

Normal

When Streamer malfunction occurs, the Streamer operation sound will disappear. If the malfunction is confirmed, the Streamer unit can be replaced.



Fizzing sound



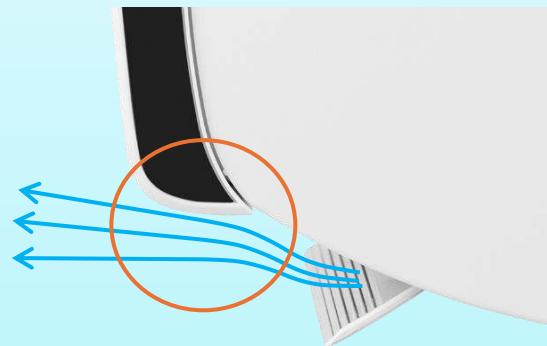
Comfort Airflow

The airflow goes in an upward direction during COOL/DRY operation, providing a comfortable breeze that won't come in direct contact with people.



COANDA Effect

The new shape allows the air to flow along the ceiling, then spread out across the whole room without any uncomfortable drafts, generating a comfortably cooled space with even temperatures.






New Coanda panel design creates a distinctive airflow pattern that assures comfortable cooling for your home.

Wireless LAN PCB

Wireless LAN PCB is implemented.

The application on the smartphone allows user to control air conditioner from anywhere via internet.

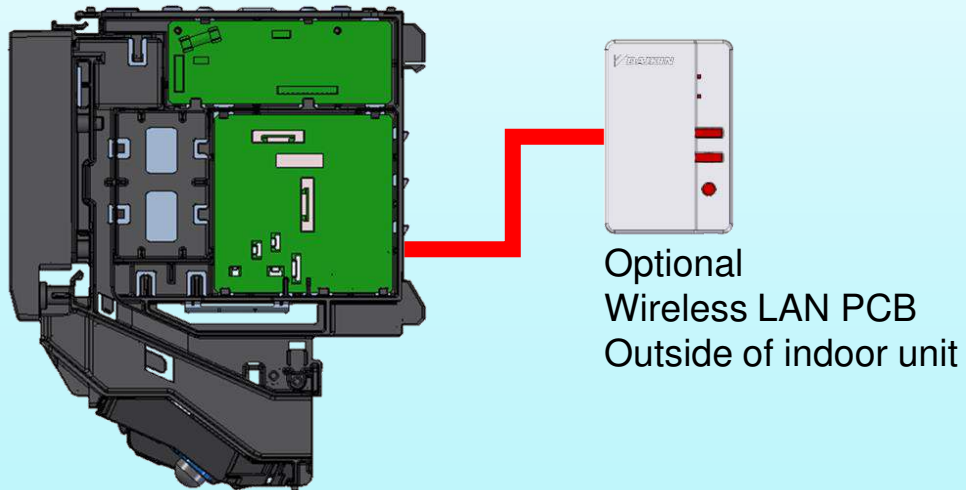
Functions	Smart Phone Control	Voice Control	
			
Start / Stop	●	●	●
Set operation mode	●	●	●
Set room temperature	●	●	●
Set fan speed (Auto, Slient, L1-L5)	●	●	●
Set fan swing (Stop, UD, LR, 3D)	●	●	●
Monitor current room temperature	●	●	●
Monitor current outdoor temperature	●	—	—
Monitor current room humidity	●	●	●
Unit error code indication	●	—	—



Wireless LAN PCB

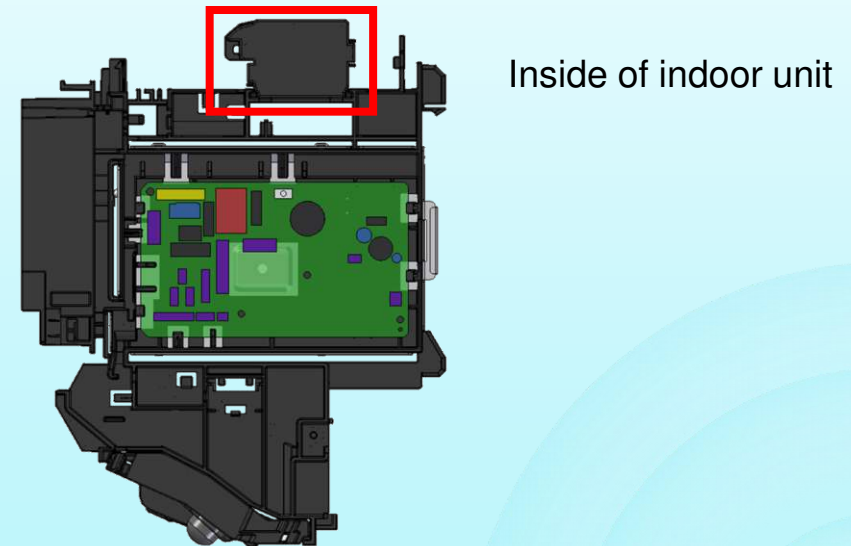
Wireless LAN adapter is installed inside of the e-box.
Directly connected to Control PCB.

Conventional model



New

New



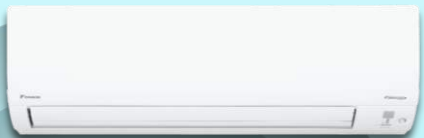
Product Details



Lineup | Indoor unit

Current

FTKM25XVMG
FTKM35XVMG
FTKM50XVMG
FTKM60XVMG
FTKM71XVMG



New

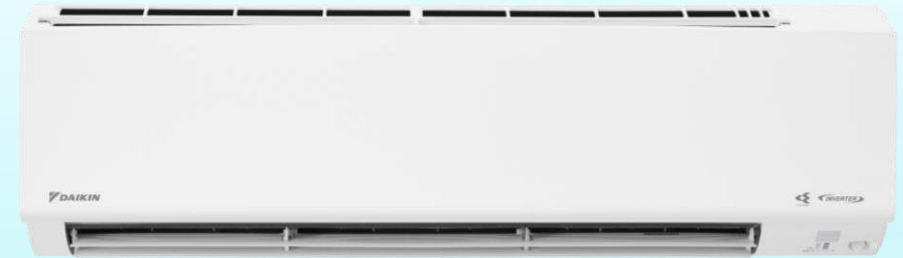
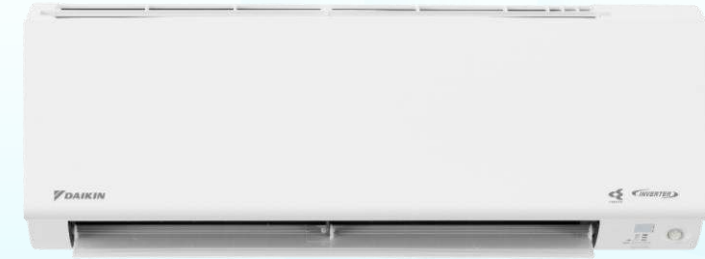
FTKM25ZVMG
FTKM35ZVMG
FTKM50ZVMG
FTKM60ZVMG
FTKM71ZVMG



Wireless LAN



Streamer
Technology





Perfecting the Air

Lineup | Outdoor unit



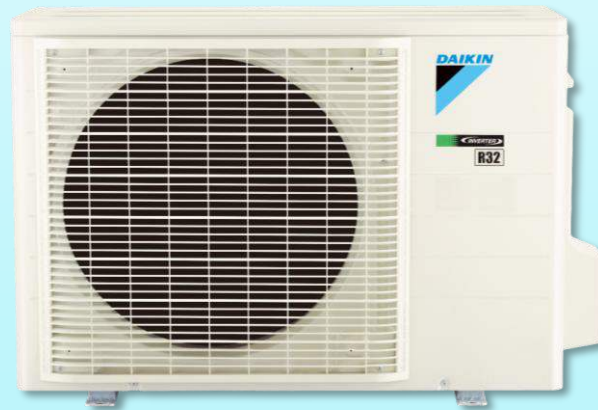
Current

- RKM25XVMG
- RKM35XVMG
- RKM50XVMG
- RKM60XVMG
- RKM71XVMG



New

- RKM25ZVMG
- RKM35ZVMG
- RKM50ZVMG
- RKM60ZVMG
- RKM71ZVMG



Outlook | Indoor Unit



New **FTKM25/35ZVMG**
(H)286×(W)770×(D)244 mm



New **FTKM50/60ZVMG**
(H)295×(W)993×(D)281 mm

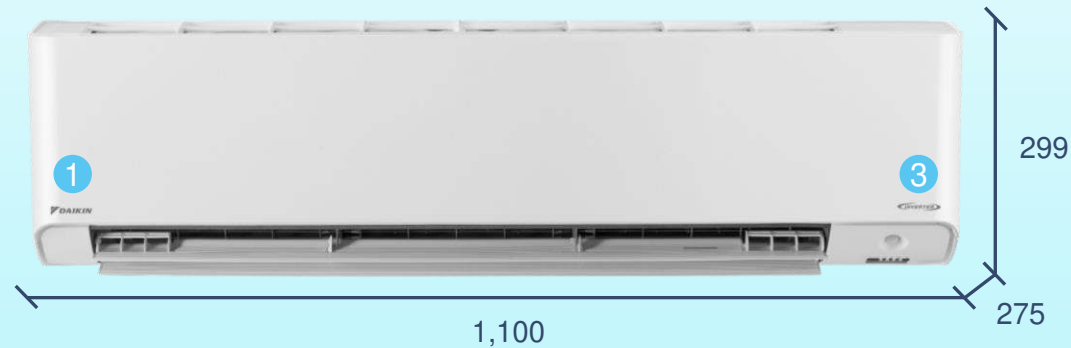
New panel design

- Minimal
- Modern

No.	Logo type	Color
1	Daikin logo	Pantone silver
2	Streamer logo	Pantone cool gray
3	Inverter logo	Pantone cool gray



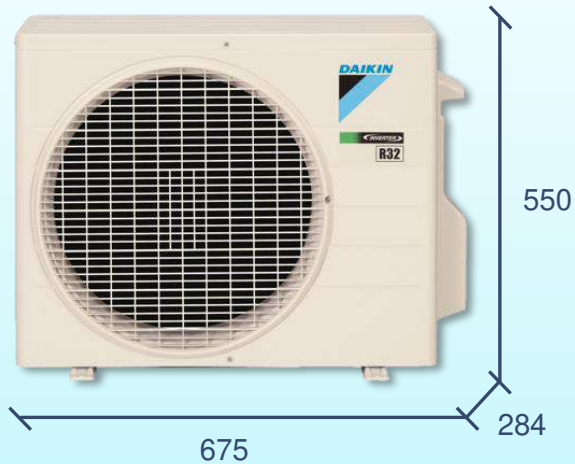
Wireless Remote Controller
ARC466A79



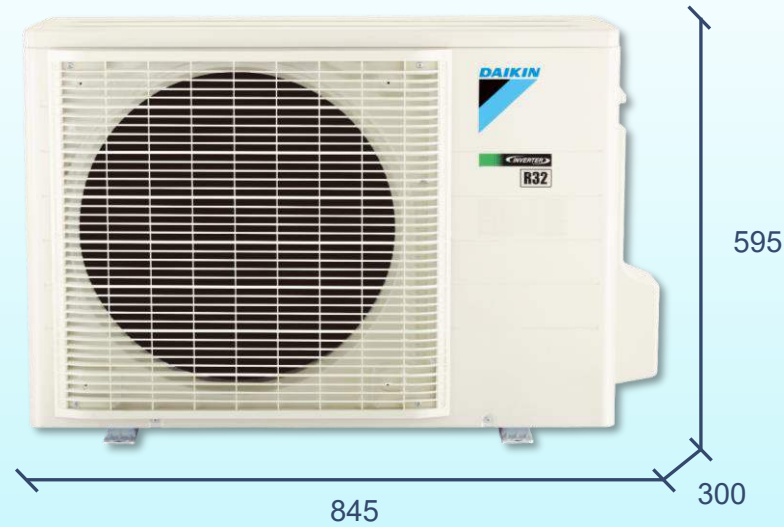
New **FTKM71ZVMG**
(H)299×(W)1,100×(D)275 mm

Perfecting the Air

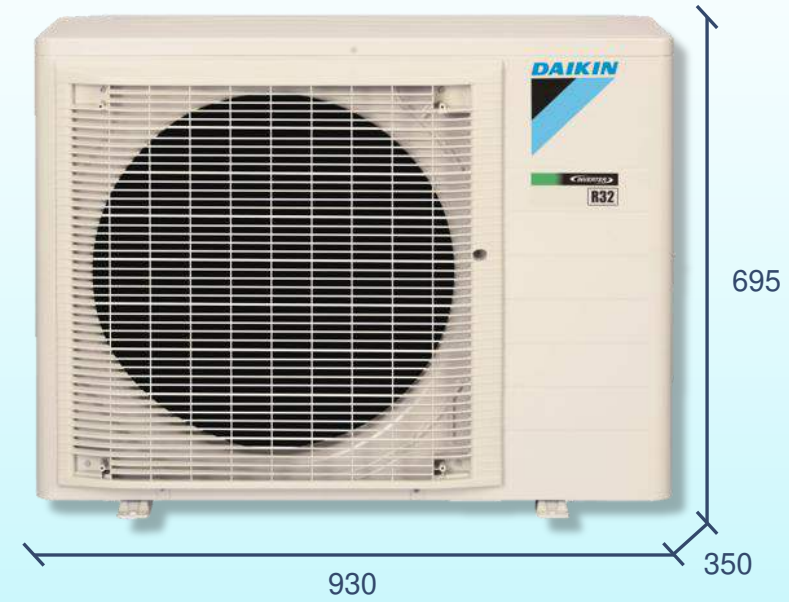
Outlook | Outdoor Unit



New **RKM25ZVMG**
(H)550×(W)675×(D)284 mm



New **RKM35ZVMG**
(H)595×(W)845×(D)300 mm



New **RKM50/60/71ZVMG**
(H)695×(W)930×(D)350 mm

Perfecting the Air

Specifications

= Improved

Capacity Class			25	35	50	60	71	
Model name	Indoor unit		FTKM25ZVMG	FTKM35ZVMG	FTKM50ZVMG	FTKM60ZVMG	FTKM71ZVMG	
	Outdoor unit		RKM25ZVMG	RKM35ZVMG	RKM50ZVMG	RKM60ZVMG	RKM71ZVMG	
Refrigerant			R32					
Power supply			1φ 50Hz, 220-240V / 60Hz, 220-230V					
Cooling capacity rated (Min ~ Max)	kW		2.50 (1.2 ~ 3.4)	3.20 (1.3 ~ 4.0)	4.60 (1.4 ~ 6.0)	6.00 (1.9 ~ 7.0)	7.10 (2.1 ~ 7.5)	
Power consumption	W		510	693	1,030	1,520	2,090	
COP	W/W		4.90	4.62	4.47	3.95	3.40	
Weight COP	kWh/kWh		5.71 / 5 ticks	5.50 / 5 ticks	5.50 / 5 ticks	5.07 / 4 ticks	4.86 / 4 ticks	
Operation limit		°CDB	19.4 ~ 46					
Piping connection	Liquid	mm	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4	
	Gas	mm	φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 12.7	
Indoor unit	Dimensions (H × W × D)	mm	286 × 770 × 244		295 × 993 × 281		299 × 1,100 × 275	
	Weight (Gross weight)	kg	9 (12)		14 (18)		15 (22)	
	Airflow rate (H / SL)	m ³ /min	12.2 / 3.6	14.1 / 4.7	20.7 / 9.2	20.7 / 10.0	21.4 / 9.2	
	Sound level (H / M / L / SL)	dB(A)	46 / 36 / 26 / 19	47 / 37 / 27 / 20	48 / 39 / 34 / 27	48 / 40 / 35 / 29	50 / 42 / 37 / 32	
Fan speed	Steps		5 Steps, Quiet, Auto					
Air direction control			Right, Left, Horizontal, Downwards					
Air filter			Mould proof air filter / Air quality filter (Enzyme blue / PM2.5)					
Outdoor unit	Dimensions (H × W × D)	mm	550 × 675 × 284	595 × 845 × 300	695 × 930 × 350			
	Weight (Gross weight)	kg	26 (30)	34 (38)	44 (50)	46 (51)		
	Airflow rate (H / SL)	m ³ /min	28.4 / 23.4	35.8 / 29.1	66.8 / 37.7	66.8 / 43.9	66.8 / 43.9	
	Sound level (H / M / L / SL)	dB(A)	48 / 43	48 / 44	52 / 43	52 / 46	52 / 46	
	Heat Exchanger type		Copper tube	PFC				
	Compressor type		1YC20HXD	2Y113BKAX1T		2Y129BKAX1T		
Refrigerant amount	kg		0.70	0.53	0.66			

Perfecting the Air

Functions

Functions	25	35	50	60	71
Power-Airflow Flap	•	•	–	–	–
Power-Airflow Dual Flaps	–	–	•	•	•
Wide-Angle Louvers	•	•	•	•	•
Auto-Swing (Up and Down)	•	•	•	•	•
Auto-Swing (Left and Right)	•	•	•	•	•
3D Airflow	•	•	•	•	•
Comfort Airflow Mode	•	•	•	•	•
Comfort Airflow Mode (Coanda panel: Ceiling)	•	•	•	•	–
Comfort Airflow Mode (Coanda flap: Ceiling)	–	–	–	–	•
Indoor Unit Quiet Operation	•	•	•	•	•
Outdoor Unit Quiet Operation	•	•	•	•	•
Fan Operation	•	•	•	•	•
Auto Fan Speed	•	•	•	•	•
Intelligent Eye (Auto Energy Saving)	•	•	•	•	•
Program Dry Function with Humidity Sensor	•	•	•	•	•
Econo Mode	•	•	•	•	•
Inverter Powerful Operation	•	•	•	•	•
Indoor Unit ON-OFF Switch	•	•	•	•	•
Standby Electricity Saving	•	•	•	•	•
Signal Reception Indicator	•	•	•	•	•

Functions	25	35	50	60	71
Wireless Remote Controller (Backlight)	•	•	•	•	•
Wireless Remote Controller (Luminous Button)	•	•	•	•	•
0.5°C STEP	•	•	•	•	•
Air Quality Filter (Enzyme Blue / PM2.5)	•	•	•	•	•
Deodorizing Filter (Enzyme Blue)	OP	OP	OP	OP	OP
Titanium Apatite Deodorizing Filter	OP	OP	OP	OP	OP
Dust Collection Filter (PM2.5)	OP	OP	OP	OP	OP
Mold-Proof Air Filter (Pre-Filter)	•	•	•	•	•
Mold-Proof Operation with Streamer	•	•	•	•	•
Flash Streamer	•	•	•	•	•
Odour Removing	•	•	•	•	•
Wipe-Clean Panel	•	•	•	•	•
Removable Drain Pan	•	•	•	•	•
Weekly Timer	•	•	•	•	•
24-hour ON/OFF Timer	•	•	•	•	•
Count Up-Down ON/OFF Timer	•	•	•	•	•
Night Set Mode	•	•	•	•	•
Wireless LAN Connection PCB	•	•	•	•	•
Self-Diagnosis with Remote Controller	•	•	•	•	•
Anti-Corrosion Treatment of Outdoor Heat Exchanger Fins	•	•	•	•	•
Auto-Restart after Power Failure	•	•	•	•	•
Protection Net of Outdoor Unit	•	•	•	•	•

Perfecting the Air

Options

 Standard accessory

Indoor unit	Class 25/35	Class 50/60	Class 71
Remote control PC-board set	BRP067A42		
Wiring adaptor for timer clock / remote controller (normal open pulse contact / normal open contact)	KRP413BB1S (Need BRP067A42)		
Interface adaptor for DIII-NET (residential air conditioner)	KRP928BB2S (need BRP067A42)		
Central remote controller	DCS302CA61 (Need KRP928BB2S)		
Unified ON/OFF controller	DCS301BA61 (Need KRP928BB2S)		
Schedule timer	DST301BA61 (Need KRP928BB2S)		
Titanium apatite deodorizing filter (without frame)	KAF970A49 (1 pcs.)	KAF970A46 (2 pcs.)	
Dust collection filter (PM2.5 Filter) (without frame)	BAFP046A45 (1 pcs.)	BAFP046A41 (2 pcs.)	
Deodorizing filter (Enzyme Blue) (without frame)	BAFP094A50 (1 pcs.)	BAFP094A41 (2 pcs.)	
Air Quality filter (Enzyme Blue / PM2.5) (without frame) <input type="checkbox"/>	BAFP094A49 (1 pcs.)	BAFP094A43 (2 pcs.)	
Remote controller loss prevention with chain	KKF910A4		
Outdoor unit	Class 25/35	Class 50/60/71	
Air direction adjustment grille	KPW937F4	KPW5G112	
Drain plug	KKP937A4		



Perfecting the Air