DAIKIN
Perfecting the Air

5 Tick Multi

R-32

MKM50ZVMG
MKM75ZVMG
MKM85ZVMG
MKM100ZVMG

SINGAPORE

DAIKIN INDUSTRIES (THAILAND) LTD.

Table of Contents

SINGAPORE

DAIKIN INDUSTRIES *(THAILAND)* **LTD.**

Product Concepts

1 Rated 5 ticks

2 Streamer technology

3 Built-in Wifi

Standard System

New

MKM-V → **MKM-Z**

No casing change

ENERGY EFFICIENCY RATING
Excellent
✓✓✓✓✓

Annual Energy Cost	Annual Energy Consumption
$XX	XXXkWh

XXXXX
XXXXX

XXXXX Air-conditioner
Cooling Capacity: XX.XX kW
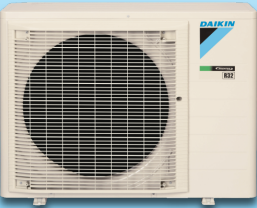
CTKM-V → **CTKM-Z**
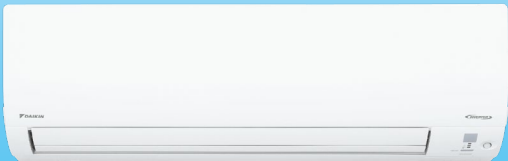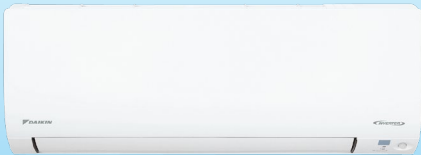
Streamer Technology

Wireless LAN

CDKM-V   Continued model

FDMF-V   Continued model

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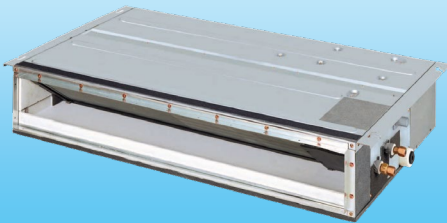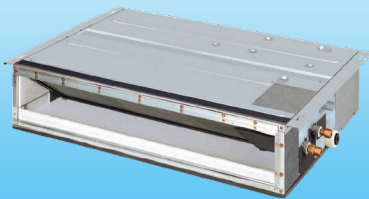
5 Ticks Energy Efficiency Ratio

Rated EER

Legend: Current, New

Class	Current	New
50 Class	4.86	5.25
75 Class	4.90	5.63
85 Class	4.90	5.27
100 Class	4.86	5.59

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Perfecting the Air
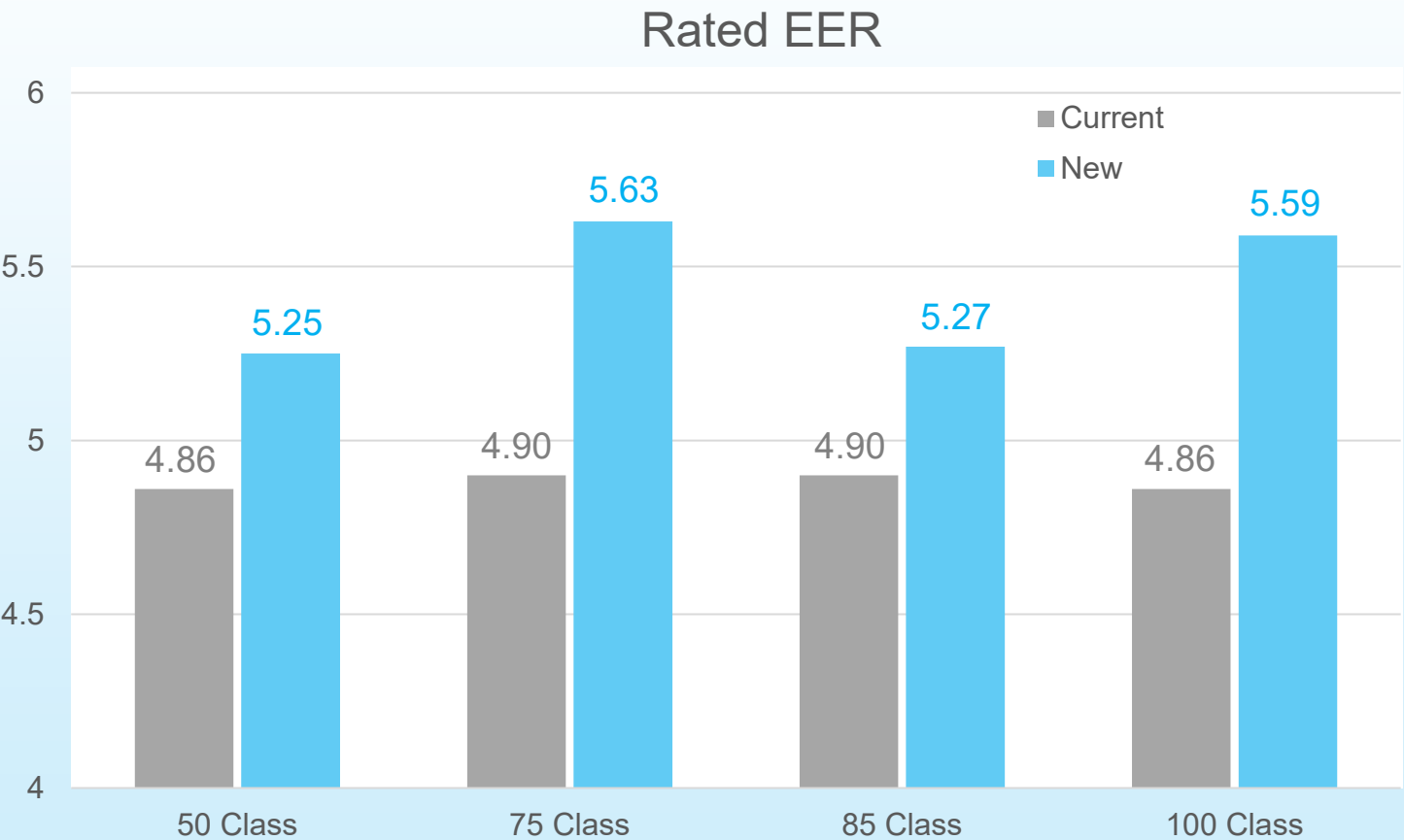
Streamer Technology

New structure, Filter + Streamer on the front

STREAMER

Air quality filter (Enzyme Blue / PM2.5)
Remove odor causing agents, allergens, fungi, bacteria and virus.

+

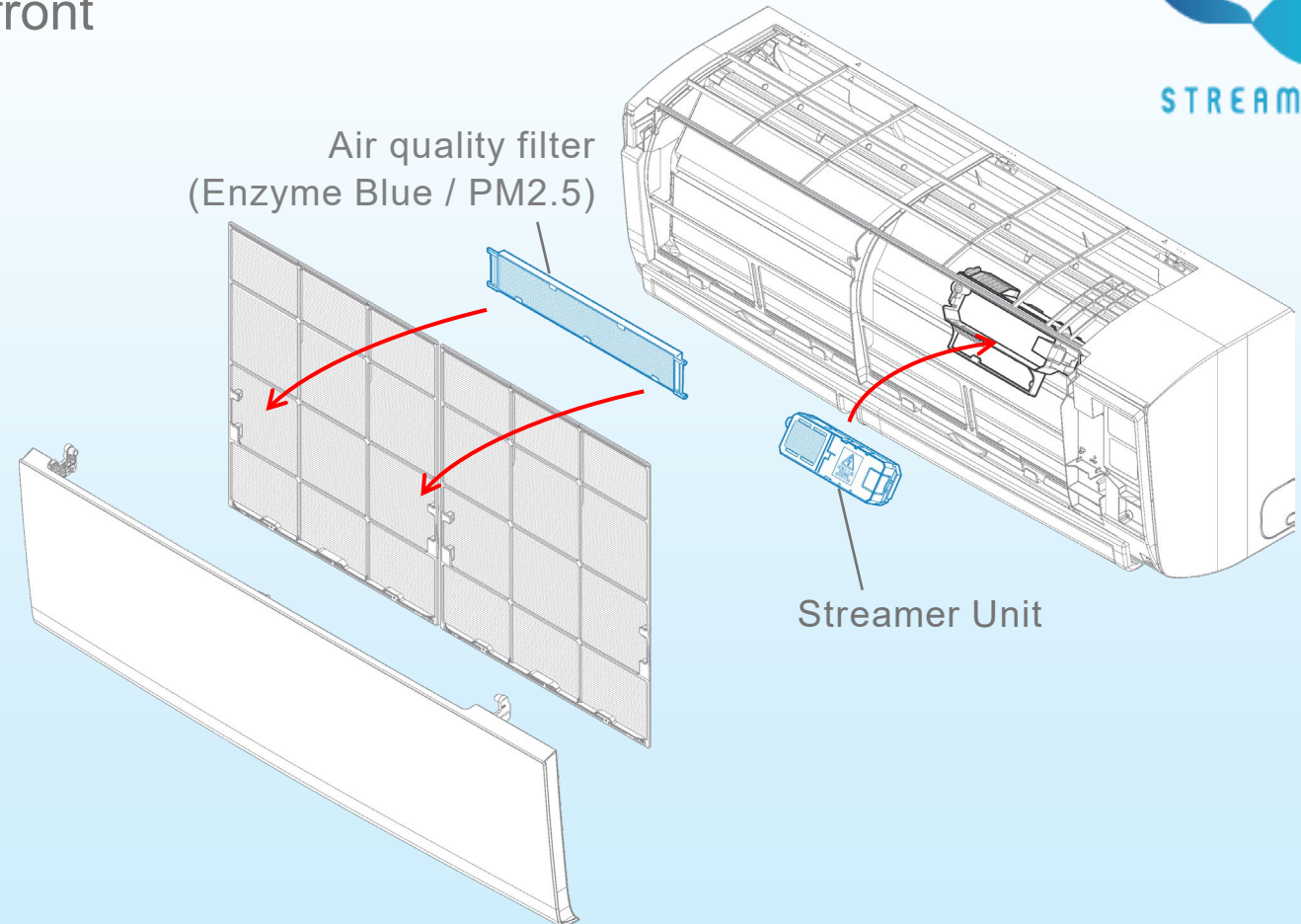## Streamer Unit
High speed electrons are discharged. This enables decomposition and removal allergens such as bacteria, viruses, mold, pollen, dust mites.

Air quality filter
(Enzyme Blue / PM2.5)

Streamer Unit

DAIKIN

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).

over **1,000 TIMES**
MORE POWERFUL
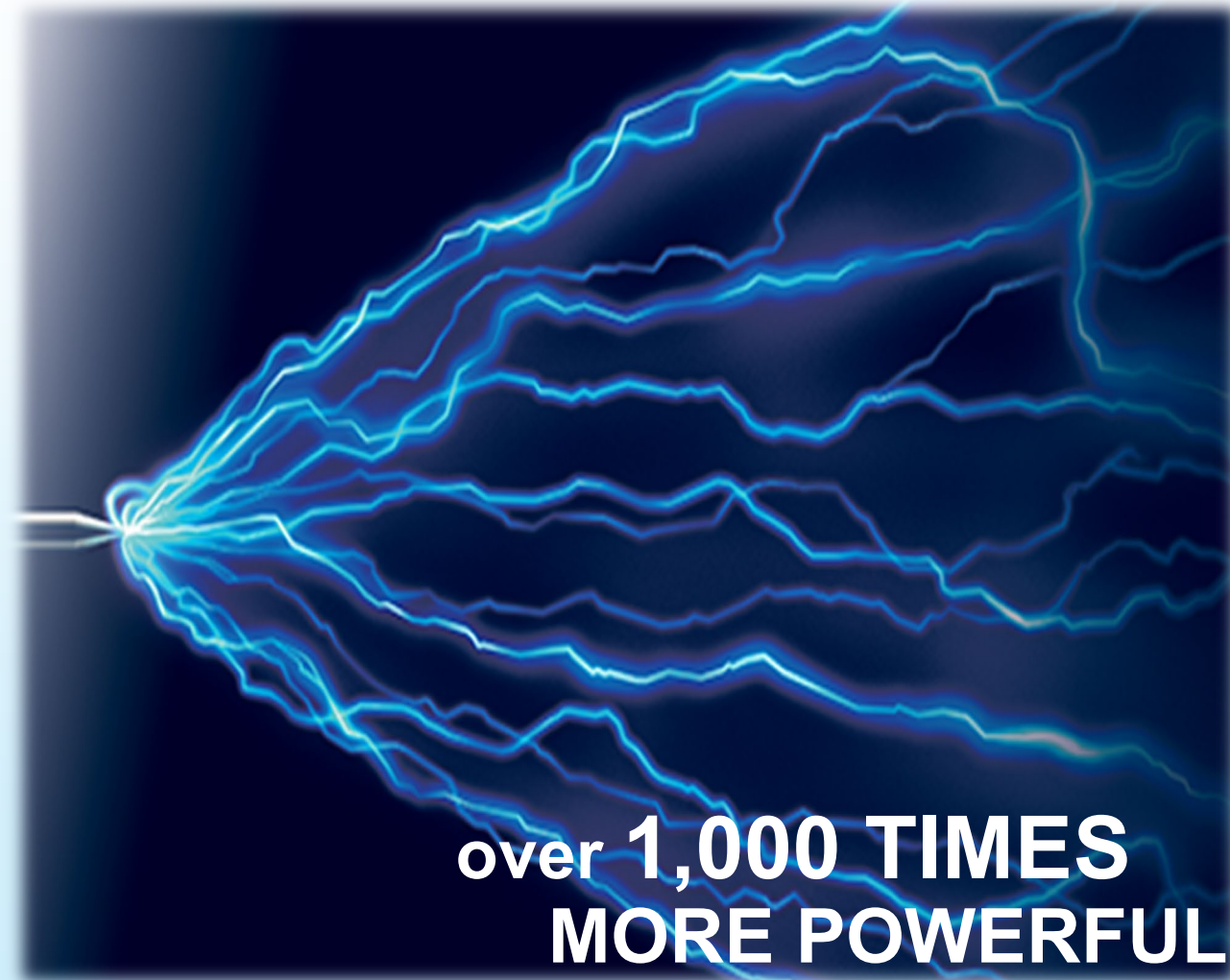
Streamer Technology
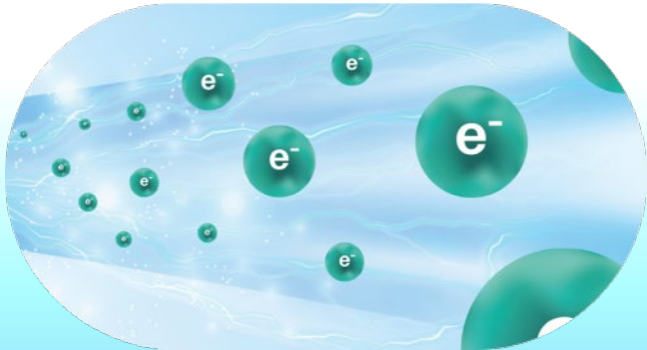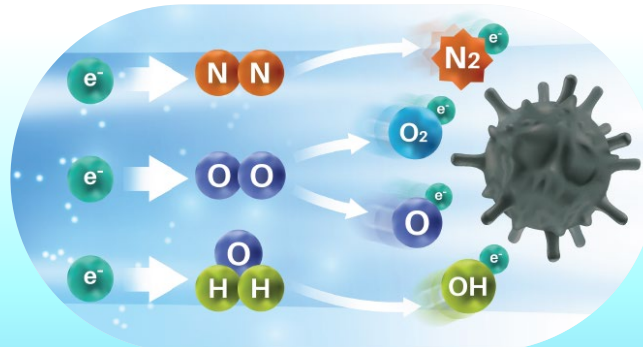
Mechanism of decomposition by Streamer

STEP 1
DISCHARGE

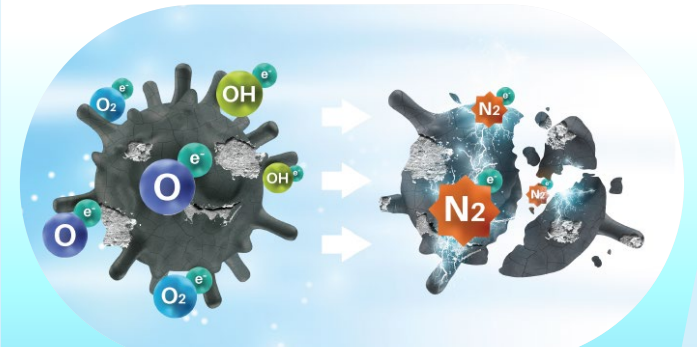The streamer discharge generates high-speed electrons.

STEP 2
COMBINATION

The high-speed electrons hit and combine with nitrogen and oxygen in the air. This generates high-strength decomposition elements.
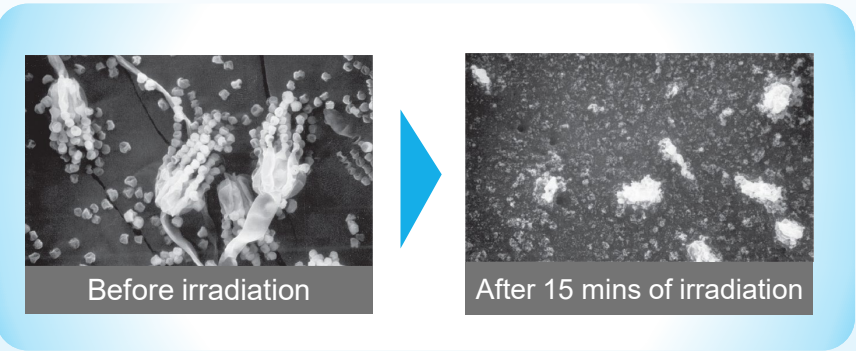
STEP 3
DECOMPOSING

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 device[1].

Before irradiation

After 15 mins of irradiation

Mold Decomposition and Removal

Not irradiated

Irradiated

Survival ratio of mold (%)

100, 80, 60, 40, 20

0 1 2 3 24 hours

Virus Inactivation

Not irradiated

Irradiated

Active ratio of virus (%)

100, 80, 60, 40, 20

0 1 2 3 hours

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.
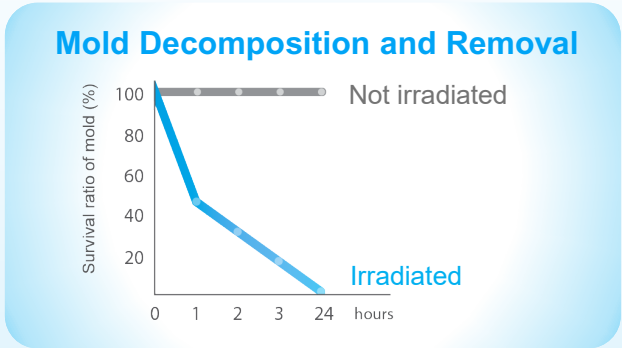
Test mold:	Cladosporium
Test method:	Antibacterial test, mold removal test
Test organization:	Japan Food Research Laboratories
Result certificate:	204041635-001
Results:	The streamer unit removed 99% of the mold in 24 hours. It has an effect on mold captured by the filter.
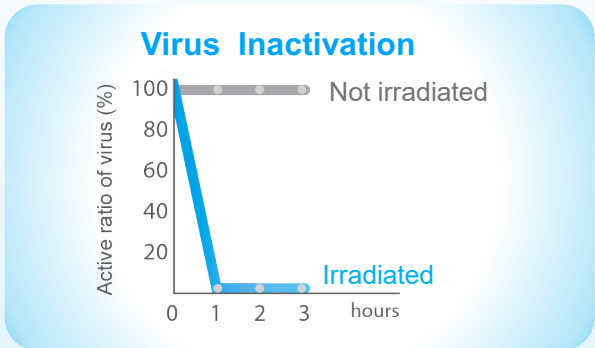
Test virus:	Influenza virus (type A, H1N1)
Test method:	Virus inactivation test
Test organization:	Japan Food Research Laboratories
Result certificate:	10029107001-01
Results:	The streamer unit inactivated 99% of the virus in one hour. A single type of virus was used in the test. It has an effect on 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.

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	
	DAIKIN	Google Assistant	alexa
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	●	—	—

Internet

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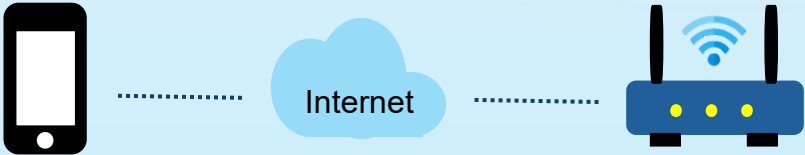
Wireless LAN PCB

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

Conventional model

Optional
Wireless LAN PCB
Outside of indoor unit
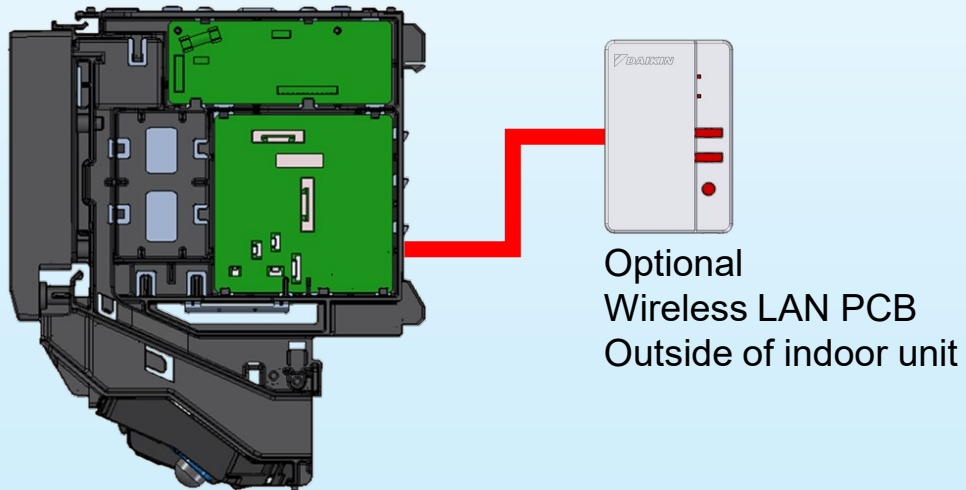
New **New**
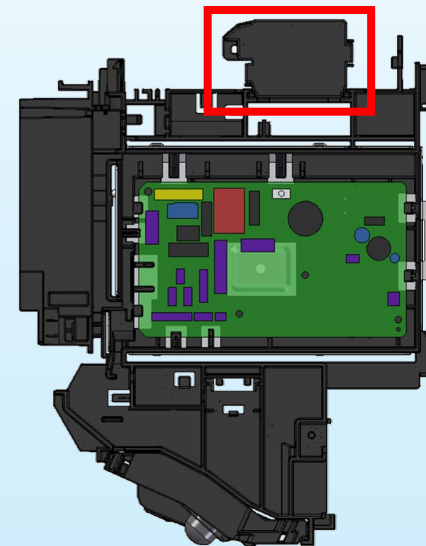
Inside of indoor unit

Lineup | Outdoor unit

Current		New
MKM50**V**VMG		MKM50**Z**VMG
MKM75**V**VMG		MKM75**Z**VMG
MKM85**V**VMG		MKM85**Z**VMG
MKM100**V**VMG		MKM100**Z**VMG

ENERGY EFFICIENCY RATING

Excellent

Annual Energy Cost	Annual Energy Consumption
$XX	XXXkWh

XXXXX
XXXXX

XXXXX Air-conditioner
Cooling Capacity: XX.XX kW

Tested in accordance with XXXXX
Based on 27¢/kWh electricity cost, 8 hours daily usage and 16 hours standby energy
consumption. Actual annual-energy consumption and cost may vary.
For more information and to compare models, visit www.nea.gov.sg
XXXXX-XXXXX-XXXXX

DAIKIN INDUSTRIES (THAILAND) LTD.
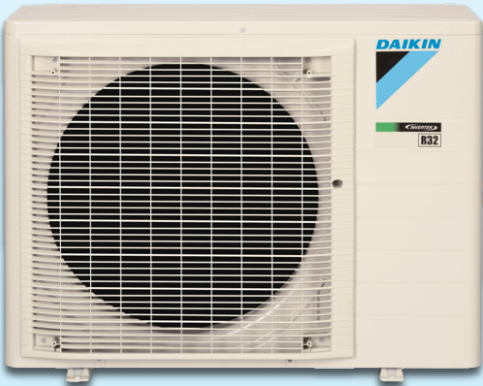
Lineup | Indoor Wall-mounted type

Current

CTKM25**V**VMG
CTKM35**V**VMG
CTKM50**V**VMG
CTKM60**V**VMG
CTKM71**V**VMG

New

CTKM25**Z**VMG
CTKM35**Z**VMG
CTKM50**Z**VMG
CTKM60**Z**VMG
CTKM71**Z**VMG
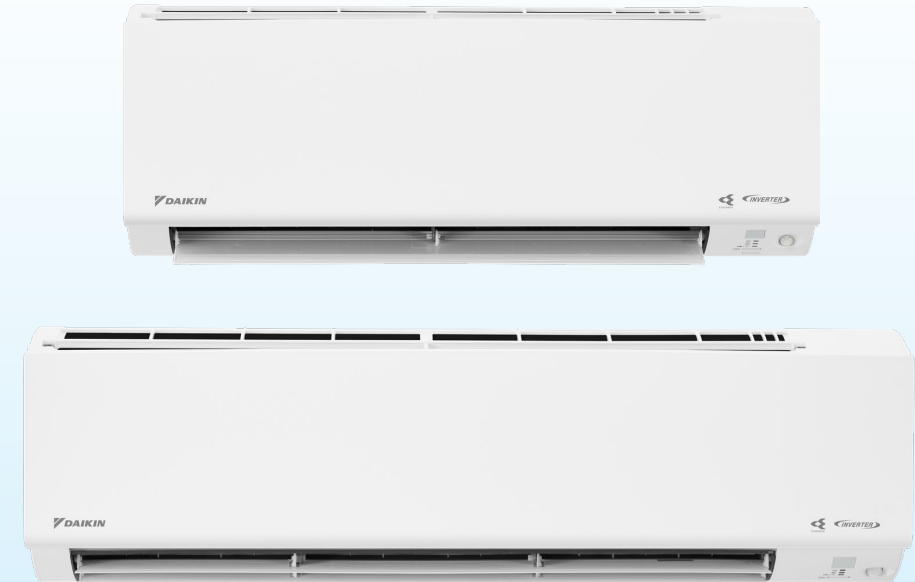
Wireless LAN

Streamer Technology

SINGAPORE

Lineup | Indoor Duct-connected Type

L.S.P. Duct

CDKM25**V**VMG
CDKM35**V**VMG
CDKM50**V**VMG
CDKM60**V**VMG
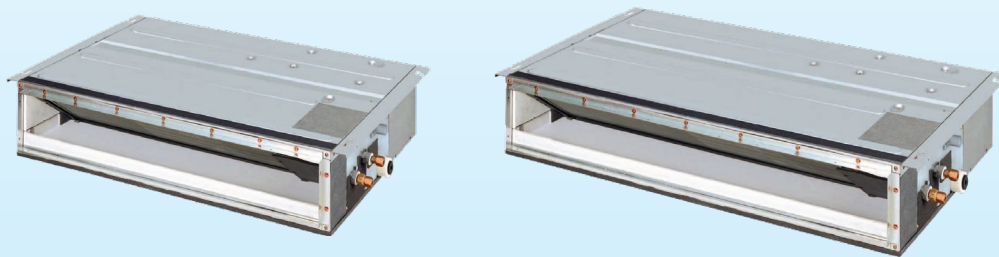
M.S.P. Duct

FDMF50**V**VMG
FDMF60**V**VMG
FDMF71**V**VMG

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Outlook | Outdoor Unit
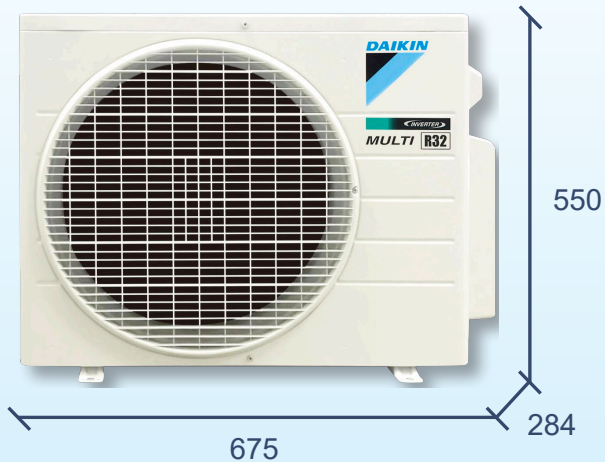
🔴 **New**   **MKM50ZVMG**
(H)550×(W)675×(D)284 mm

550
675
284
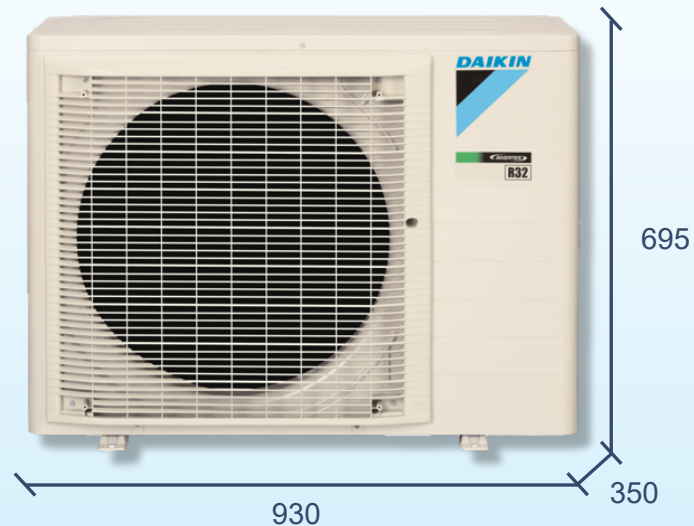
🔴 **New**   **MKM75-85ZVMG**
(H)695×(W)930×(D)350 mm

695
930
350
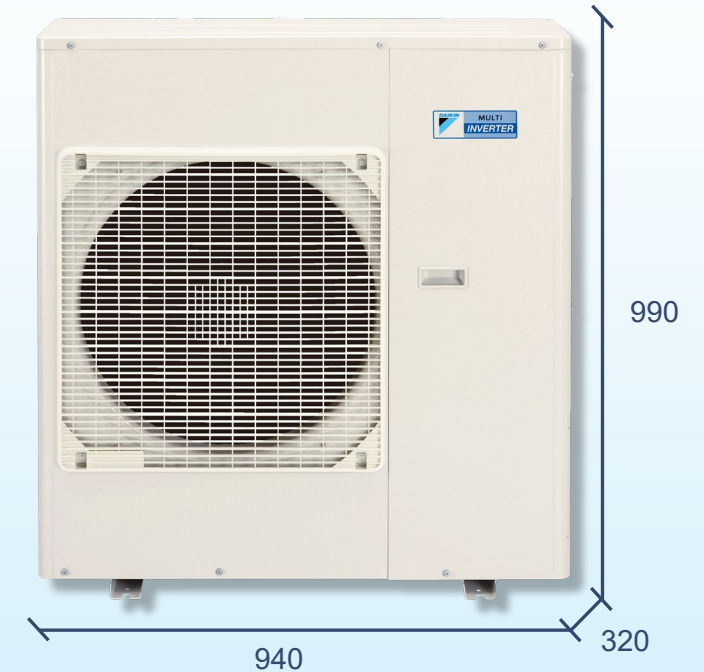
🔴 **New**   **MKM100ZVMG**
(H)990×(W)940×(D)320 mm

990
940
320

Outlook | Wall Mounted Indoor Unit

286

770

244

New **CTKM25-50ZVMG**

(H)286×(W)770×(D)244 mm

295

993

281

New **CTKM60-71ZVMG**

(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

Outlook | Duct Connected Type Indoor Unit
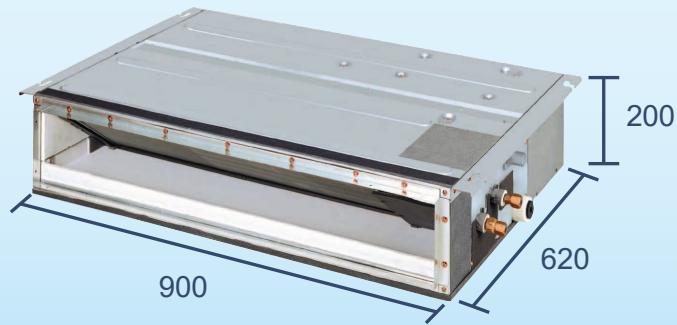
CDKM20-50VVMG

(H)200×(W)900×(D)620 mm

CDKM60VVMG

(H)200×(W)1,100×(D)620 mm

FDMF50-71VVMG

(H)245×(W)1,000×(D)800 mm

Wireless Remote Controller ARC433B76

Wireless Remote Controller BRC086A22

Wired Remote Controller BRC1E63

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Specifications | MKM-Z

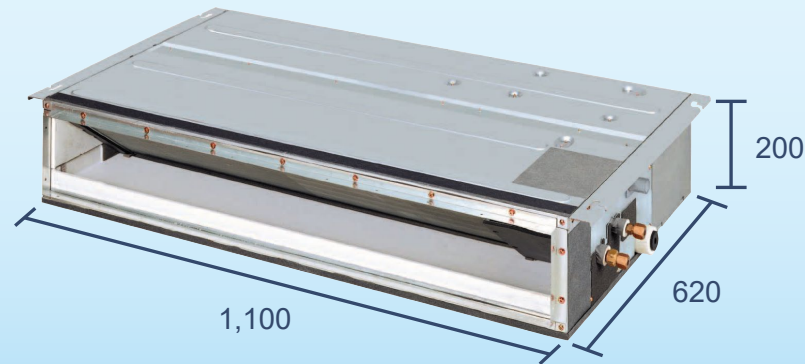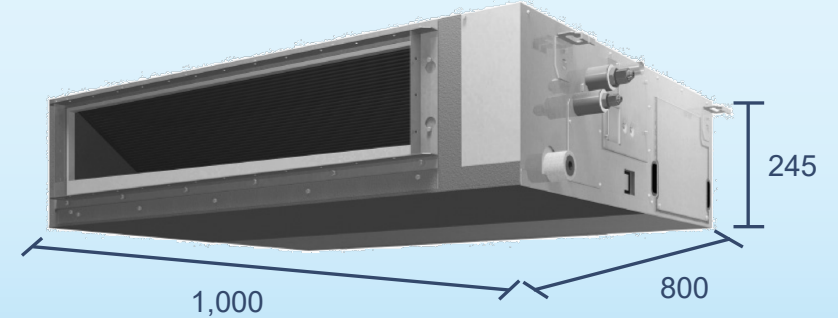| Capacity Class			50	75	85	100
Model name	Outdoor unit		MKM50ZVMG	MKM75ZVMG	MKM85ZVMG	MKM100ZVMG
Refrigerant			R32			
Power supply			1φ 220-240V 50Hz / 220-230V 60Hz			
Rated indoor unit combination			25 + 25 + 25	25 + 25 + 25 + 25	25 + 25 + 35 + 71	25 + 25 + 25 + 25 + 60
Cooling capacity rated (min. ~ max.)		kW	4.2 (1.20 ~ 6.3)	6.0 (1.60 ~ 9.4)	7.4 (1.60 ~ 10.6)	8.61 (2.0 ~ 12.8)
		Btu/h	14,300	20,500	25,200	29,400
Rated EER		W/W	5.25	5.63	5.27	5.59
Weighted EER		W/W	6.18	6.35	6.24	6.09
NEA MELS Tick rank			5 Ticks	5 Ticks	5 Ticks	5 Ticks
Outdoor unit	Dimensions (H × W × D)	mm	550 × 675 × 284	695 × 930 × 350	695 × 930 × 350	990 × 940 × 320
	Weight (Gross weight)	kg	37 (41)	49 (54)	52 (55)	78 (86)
	Sound level (H / SL) — Cooling	dB(A)	49 / 44	53 / 44	54 / 45	54 / 46
	Heat exchanger type		Copper tube	Copper tube	Copper tube	Copper tube
	Compressor — Type		2YC40AXD	2YC40BXD	2YC40BXD	2Y207BKAX1W
	Compressor — Model		Hermetically sealed swing type			
	Compressor — Motor output		1,300	1,300	1,300	1,880
	Number of port		3	4	4	5
	Max. connectable indoor unit capacity		8.5	11	15.6	16
	Number of minimum connectable indoor unit		1*	1	1	1
Breaker size		A	10A	20A	20A	20A
Refrigerant amount		kg	1.10	1.80	1.80	2.65
Chargeless		m	Chargeless			
Max. piping length		m	50 total / 25 each room	60 total / 30 each room	70 total / 30 each room	80 total / 30 each room
Max. height difference		m	15 (IU-OU) / 7.5 (IU-IU)	15 (IU-OU) / 7.5 (IU-IU)	15 (IU-OU) / 7.5 (IU-IU)	15 (IU-OU) / 7.5 (IU-IU)
Piping connection	Gas	mm	φ 9.5 × 3	φ 9.5 × 2, φ 12.7 × 2	φ 9.5 × 1, φ 12.7 × 1, φ 15.9 × 2	φ 9.5 × 2, φ 12.7 × 1, φ 15.9 × 2
	Liquid	mm	φ 6.4 × 3	φ 6.4 × 4	φ 6.4 × 4	φ 6.4 × 5
Operation limit	Cooling	°CDB	10 ~ 46			

■ = Improved

*For 50 class: 1 room connection of FDMF50VVMG is impossible. FDMF50VVMG connection must be connected to at least 2 rooms with max. capacity of 8.5kw.

Specifications | CTKM-Z

Capacity Class			25	35	50	60	71
Model name	Indoor unit		CTKM25ZVMG	CTKM35ZVMG	CTKM50ZVMG	CTKM60ZVMG	CTKM71ZVMG
Refrigerant			R32				
Power supply			1φ 220-240V 50Hz / 220-230V 60Hz				
Cooling capacity rated		kW	2.5	3.5	5.0	6.0	7.1
		Btu/h	8,500	11,900	17,100	20,500	24,200
Indoor unit	Dimensions (H × W × D)	mm	286 × 770 × 244			295 × 993 × 281	
	Weight (Gross weight)	kg	9 (12)	9 (12)	9 (12)	14 (18)	14 (18)
	Airflow rate (H / SL)	m³/min	11.8 / 3.7	12.0 / 3.7	13.0 / 6.2	20.8 / 9.6	21.7 / 9.6
	Sound level (H / M / L / SL)	Cooling	dB(A)	43 / 34 / 26 / 19	44 / 36 / 26 / 19	45 / 40 / 35 / 28	48 / 42 / 36 / 29	49 / 45 / 37 / 30
Piping connection	Gas	mm (in)	φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 15.9
	Liquid	mm (in)	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4
Fan speed	Steps		5 Steps, Quiet, Auto				
Air direction control			Right, Left, Horizonal, Downwards				
Air filter			Mould proof air filter / Air quality filter (enzyme blue / PM2.5)				

= Improved

DAIKIN INDUSTRIES *(THAILAND)* **LTD.**

Specifications | CDKM-V, FDMF-V

Capacity Class			25	35	50	60
Model name	Indoor unit		CDKM25VVMG	CDKM35VVMG	CDKM50VVMG	CDKM60VVMG
Refrigerant			R32			
Power supply			1φ 220-240V 50Hz / 220-230V 60Hz			
Cooling capacity rated		kW	2.5	3.5	5.0	6.0
		Btu/h	8,500	11,900	17,100	20,500
Indoor unit	Dimensions (H × W × D)	mm	200 × 900 × 620			200 × 1,100 × 620
	Weight (Gross weight)	kg	25 (29)	25 (29)	27 (31)	30 (35)
	Airflow rate (H / SL)	m³/min	9.5 / 6.7	10.0 / 7.0	12.0 / 8.4	16.0 / 11.2
	Sound level (H / M / L / SL) Cooling	dB(A)	35 / 33 / 31 / 29	35 / 33 / 31 / 29	37 / 35 / 33 / 31	38 / 36 / 34 / 32
External static pressure			40	40	40	40
Piping connection	Gas	mm (in)	φ 9.5	φ 9.5	φ 12.7	φ 12.7
	Liquid	mm (in)	φ 6.4	φ 6.4	φ 6.4	φ 6.4
Fan speed	Steps		5 Steps, Quiet, Auto			

Capacity Class			50	60	71
Model name	Indoor unit		FDMF50VVMG	FDMF60VVMG	FDMF71VVMG
Refrigerant			R32		
Power supply			1φ 220-240V 50Hz / 220-230V 60Hz		
Cooling capacity rated		kW	5.0	6.0	7.1
		Btu/h	17,100	20,500	24,500
Indoor unit	Dimensions (H × W × D)	mm	245 × 1,000 × 800		
	Weight	kg	37	37	37
	Airflow rate (H / SL)	m³/min	18 / –	18 / –	23 / –
	Sound level (H / M / L / SL) Cooling	dB(A)	35 / 33 / 31 / –	35 / 33 / 31 / –	38 / 35 / 33 / –
External static pressure			Rated 50 (50 ~ 150)		
Piping connection	Gas	mm (in)	φ 12.7	φ 12.7	φ 15.9
	Liquid	mm (in)	φ 6.4	φ 6.4	φ 6.4

DAIKIN INDUSTRIES (THAILAND) LTD.

Functions | MKM-Z

Functions	50	75	85	100
Outdoor Unit Quiet Operation	●	●	●	●
Auto-Restart after Power Failure	●	●	●	●
Self-Diagnosis with Remote Controller	●	●	●	●
Anti-Corrosion Treatment of Outdoor Heat Exchanger Fins	●	●	●	●

DAIKIN INDUSTRIES (THAILAND) LTD.

Functions | CTKM-Z

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)	●	●	●	●	●
Indoor Unit Quiet Operation	●	●	●	●	●
Fan operation	●	●	●	●	●
Auto Fan Speed	●	●	●	●	●
Intelligent Eye (Auto Energy Saving)	●	●	●	●	●
Program Dry Function with Humidity Sensor	●	●	●	●	●
Econo Mode	●	●	●	●	●
Powerful Operation	●	●	●	●	●
Indoor Unit On-Off Switch	●	●	●	●	●
Signal Reception Indicator	●	●	●	●	●

Functions	25	35	50	60	71
Wireless Remote Controller (Backlight)	●	●	●	●	●
Wireless Remote Controller (Luminous Button)	●	●	●	●	●
Daikin Mobile Controller (Install inside indoor unit)	–	–	–	–	–
0.5 Step Room Temperature Setting	●	●	●	●	●
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	●	●	●	●	●
Mold-Proof Operation with Streamer	●	●	●	●	●
Flash Streamer	●	●	●	●	●
Odour Removing	●	●	●	●	●
Removable Drain Pan	●	●	●	●	●
Weekly Timer	●	●	●	●	●
24-hour ON/OFF Timer	●	●	●	●	●
Count Up-Down On/Off Timer	●	●	●	●	●
Night Set Mode	●	●	●	●	●
Wireless LAN Connection PCB	●	●	●	●	●

DAIKIN INDUSTRIES (THAILAND) LTD.

Functions | CDKM-V

Functions	25	35	50	60
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)	–	–	–	–
Indoor Unit Quiet Operation	●	●	●	●
Fan operation	●	●	●	●
Auto Fan Speed	●	●	●	●
Selectable Fan Speed	●	●	●	●
Program Dry Function with Humidity Sensor	●	●	●	●
Econo Mode	●	●	●	●
Powerful Operation	●	●	●	●
Indoor Unit On-Off Switch	●	●	●	●
Signal Reception Indicator	●	●	●	●

Functions	25	35	50	60
Wireless Remote Controller (Backlight)	●	●	●	●
Wireless Remote Controller (Luminous Button)	–	–	–	–
HA and DⅢ-NET application	OP	OP	OP	OP
0.5 Step Room Temperature Setting	●	●	●	●
Air Quality Filter (Enzyme Blue / PM2.5)	–	–	–	–
Deodorizing Filter (Enzyme Blue)	–	–	–	–
Titanium Apatite Deodorizing Filter	–	–	–	–
Dust Collection Filter (PM2.5)	–	–	–	–
Mold-Proof Air Filter	●	●	●	●
Mold-Proof Operation with Streamer	–	–	–	–
Flash Streamer	–	–	–	–
Odour Removing	–	–	–	–
Removable Drain Pan	–	–	–	–
Weekly Timer	–	–	–	–
24-hour ON/OFF Timer	●	●	●	●
Count Up-Down On/Off Timer	●	●	●	●
Night Set Mode	●	●	●	●
Wireless LAN Connection PCB	–	–	–	–

Functions | FDMF-V

Functions	Wireless remote control			Wired remote control		
	50	60	71	50	60	71
Switchable Fan Speed (3 Steps)	●	●	●	●	●	●
Indoor Unit Quiet Operation	–	–	–	–	–	–
Auto Fan Speed	●	●	●	●	●	●
Program Dry Function	●	●	●	●	●	●
Two Selectable Temperature Sensors	–	–	–	●	●	●
Econo Mode	–	–	–	–	–	–
Powerful Operation	–	–	–	–	–	–
Indoor Unit On-Off Switch	●	●	●	–	–	–
Signal Reception Indicator	●	●	●	–	–	–
Wireless Remote Controller (Backlight)	●	●	●	●	●	●
Wireless Remote Controller (Luminous Button)	–	–	–	–	–	–
HA and DⅢ-NET application	OP	OP	OP	OP	OP	OP
0.5 Step Room Temperature Setting	–	–	–	–	–	–
Silver Ion Anti-Bacterial Drain Pan	●	●	●	●	●	●
Longlife Filter	OP	OP	OP	OP	OP	OP
Filter Sign	●	●	●	●	●	●
Odour Removing	–	–	–	–	–	–
Drain Pump Mechanism	●	●	●	●	●	●
Setpoint Auto Reset	●	●	●	●	●	●
Setpoint Range Set	●	●	●	●	●	●
Weekly Schedule Timer	–	–	–	●	●	●
24-hour ON/OFF Timer	–	–	–	●	●	●
72-hour ON/OFF Timer	●	●	●	–	–	–
Count Up-Down On/Off Timer	●	●	●	–	–	–
Off timer (Programmed)	●	●	●	●	●	●

DAIKIN INDUSTRIES (THAILAND) LTD.

Options | MKM-Z, CTKM-Z

★ **Standard accessory**

Outdoor unit	MKM-ZVMG		
	Class 50	Class 75/85	Class 100
Air direction adjustment grille	KPW937F4	KPW5G112	
Drain plug ★	KKP937A4		KKP945A4

Indoor unit	CTKM-ZVMG
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
Dust collection filter (PM2.5 Filter) (without frame)	BAFP046A45
Deodorizing filter (Enzyme Blue) (without frame)	BAFP094A50
Air Quality filter (Enzyme Blue / PM2.5) (without frame) ★	BAFP094A49
Remote controller loss prevention with the chain	KKF910A4

Options | CDKM-V

Indoor unit	CDKM-VVMG	
	Class 25/35/50	Class 60
Wireless remote controller	BRC086A12	
Adaptor PCB (normal open pulse contact / normal open contact)	KRP413BB1S	
Interface adaptor for DIII-NET	KRP928BB2S	
Central remote controller	DCS302CA61 (Need KRP928BB2S)	
Unified ON/OFF controller	DCS301BA61 (Need KRP928BB2S)	
Schedule timer	DST301BA61 (Need KRP928BB2S)	
Insulation kit for high humidity	KDT25N50	KDT25N63
Remote controller loss prevention with the chain	KKF910A4	

DAIKIN INDUSTRIES (THAILAND) **LTD.**

Options | FDMF-V

Indoor unit		FDMF-VVMG
Remote controller (required)	Wired type	BRC1E63
	Wireless type	BRC086A22
Wireless receiver kit		BRC086A2R1
High efficiency filter	65%	KAF632C80
	90%	KAF633C80
Longlife filter		KAF631C80
Filter chamber		KDDFP63B80
Central remote controller		DCS302CA61
Unified ON/OFF controller		DCS301BA61
Schedule timer		DST301BA61
Service panel	Fresh white	KTBJ25K80F
Air discharge adaptor		KDAP25A71A
Shield plate for side plate		KDBD63A160
Remote sensor		BRCS01A-4
Remote controller loss prevention with chain		KKF910A4

Combinations

Wall Mounted Type

New MKM-ZVMG

		kW class	50	75	85	100
R-32	CTKM-ZVMG **New**	25	●	●	●	●
		35	●	●	●	●
		50	●	●	●	●
		60	—	●	●	●
		71	—	—	●	●
R-32	CTKM-VVMG **Current**	25	●	●	●	●
		35	●	●	●	●
		50	●	●	●	●
		60	—	●	●	●
		71	—	—	●	●

L.S.P Duct Type

New MKM-ZVMG

		kW class	50	75	85	100
R-32	CDKM-VVMG **Continued**	25	●	●	●	●
		35	●	●	●	●
		50	●	●	●	●
		60	—	●	●	●

M.S.P Duct Type

New MKM-ZVMG

		kW class	50	75	85	100
R-32	FDMF-VVMG **Continued**	50	●*	●	●	●
		60	—	●	●	●
		71	—	—	●	●

● : Official Combination
* Single connection is not available.
   FDMF50VVMG must be connected at least 2 rooms with max. capacity 8.5kW