

5 Tick Multi

R-32

- MKM50ZVMG
- MKM75ZVMG
- MKM85ZVMG
- MKM100ZVMG



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Product Concepts

1 Rated 5 ticks

2 Streamer technology

3 Built-in Wifi



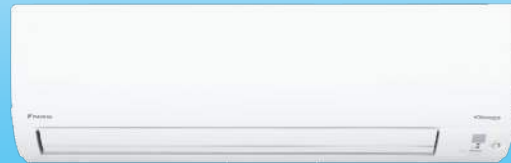
Standard System

MKM-V → MKM-Z

No casing change



CTKM-V → CTKM-Z



New

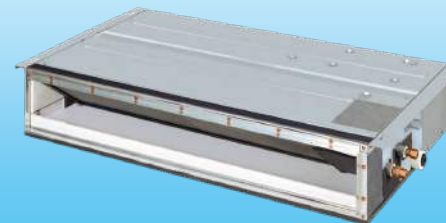
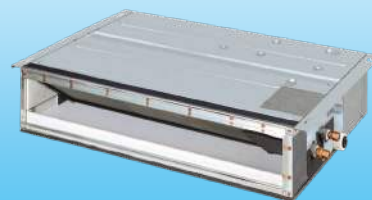


Streamler Technology



Wireless LAN

CDKM-V Continued model

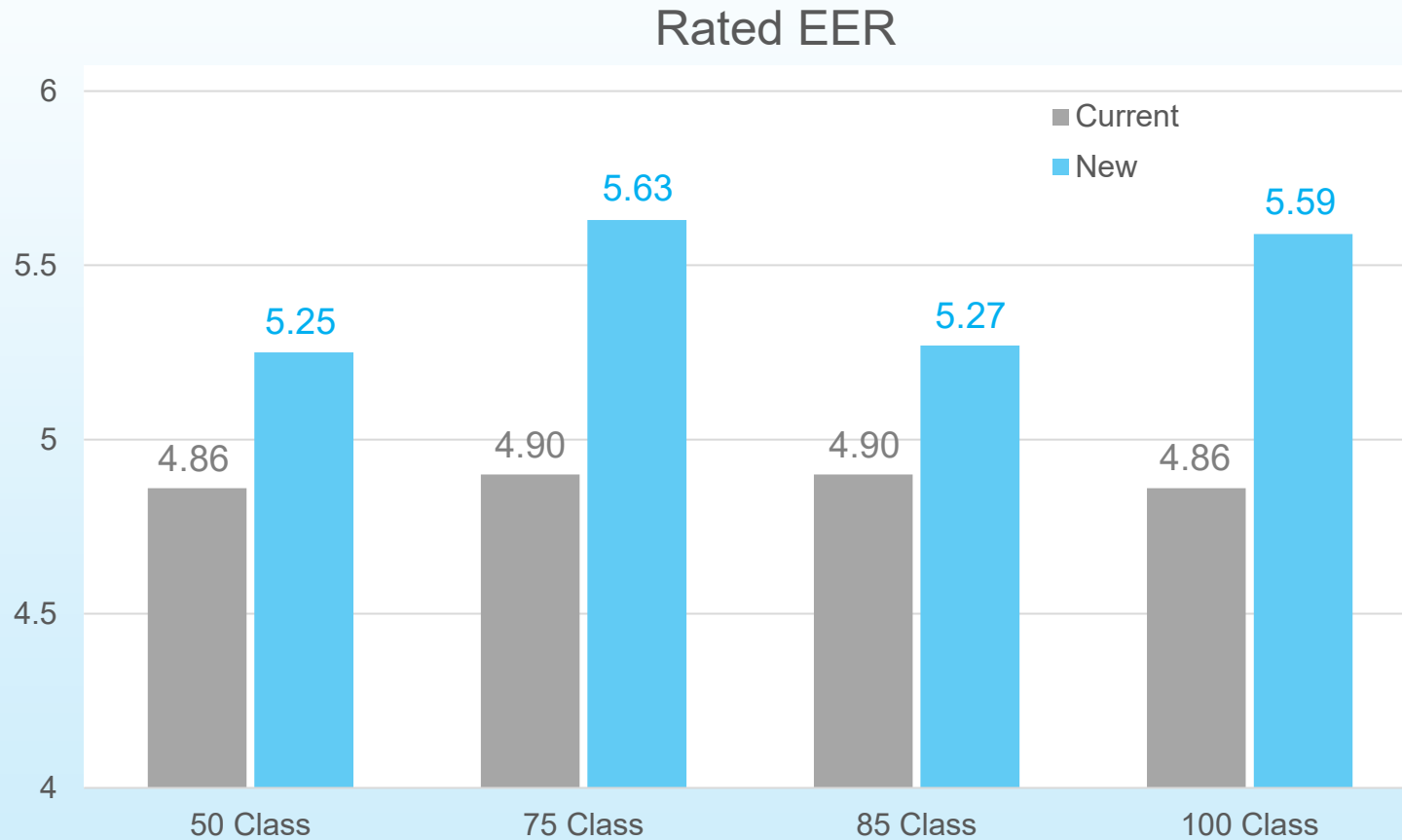


FDMF-V Continued model



Perfecting the Air

5 Ticks Energy Efficiency Ratio



Streamer Technology

New structure, Filter + Streamer on the front



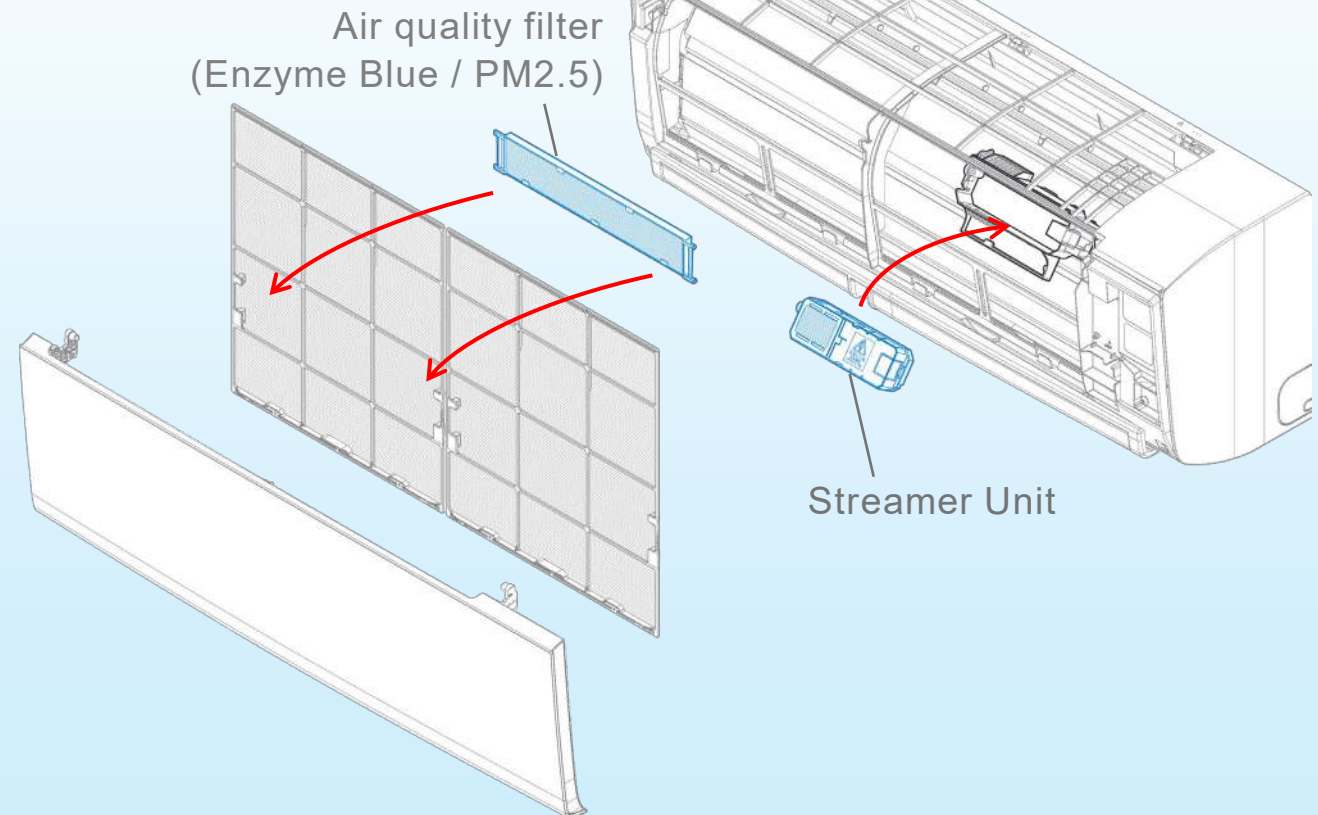
Air quality filter (Enzyme Blue / PM2.5)

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.

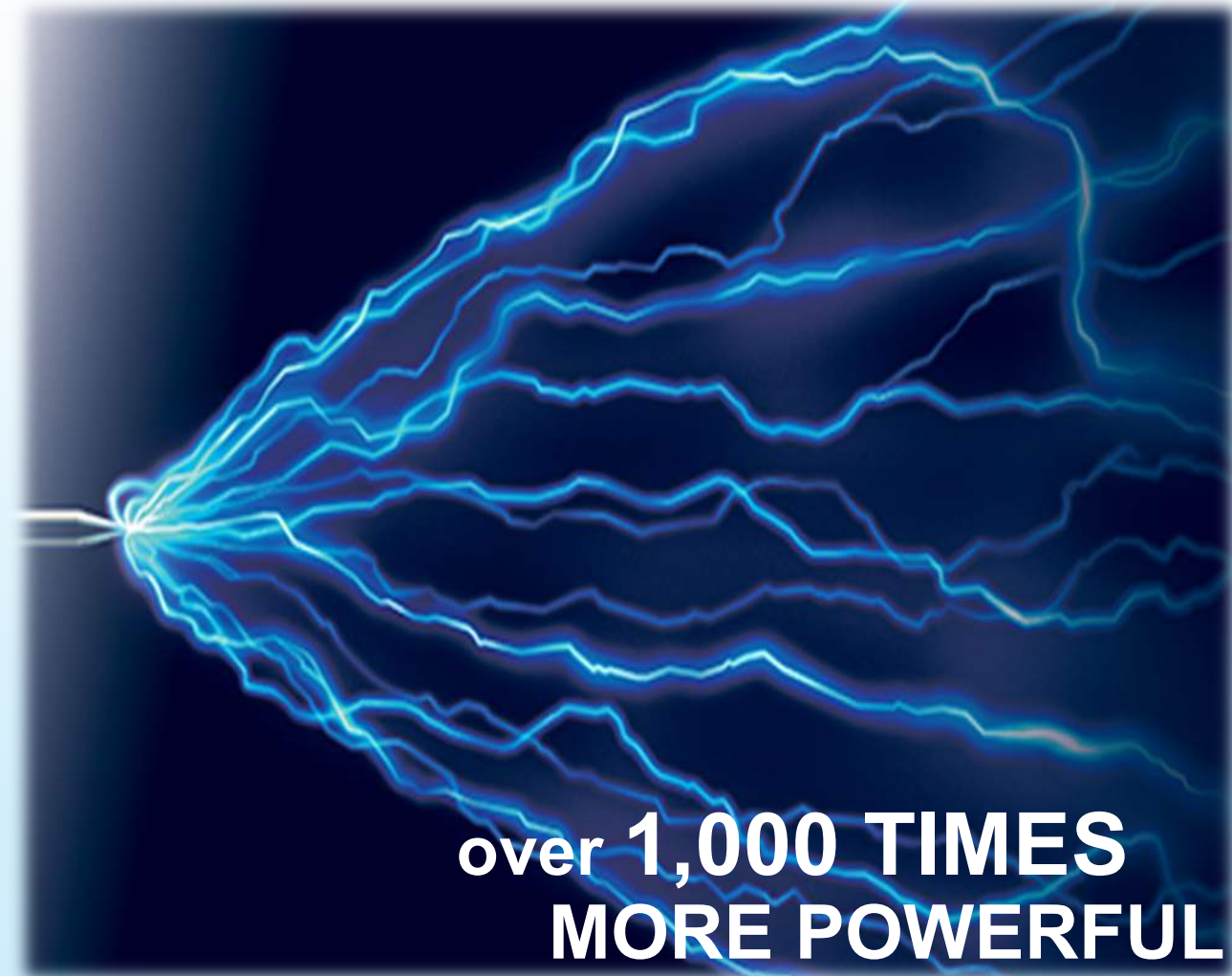


Perfecting the Air

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).

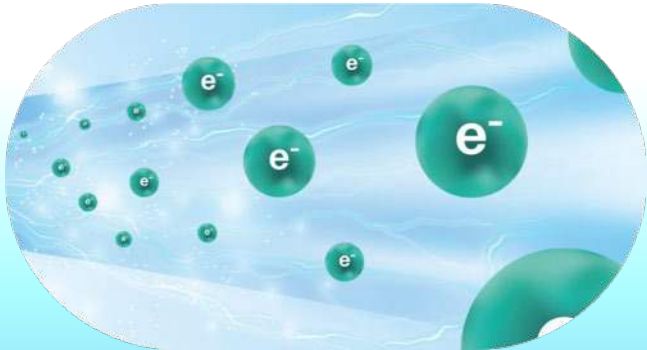


Streamer Technology

Mechanism of decomposition by Streamer

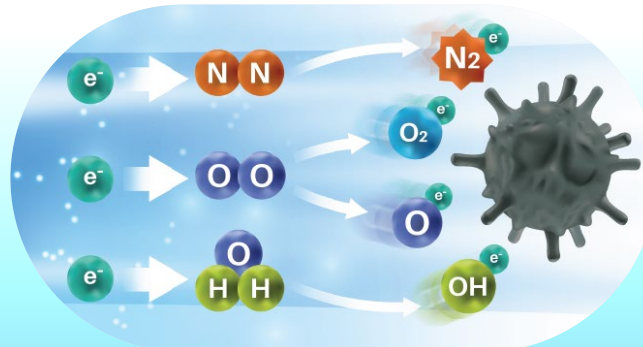
STEP 1 DISCHARGE

The streamer discharge generates high-speed electrons.



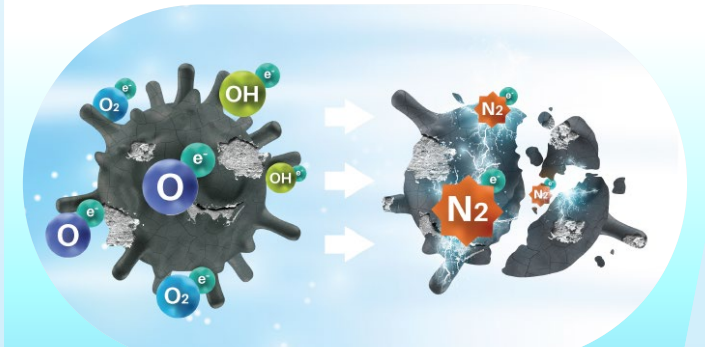
STEP 2 COMBINATION

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



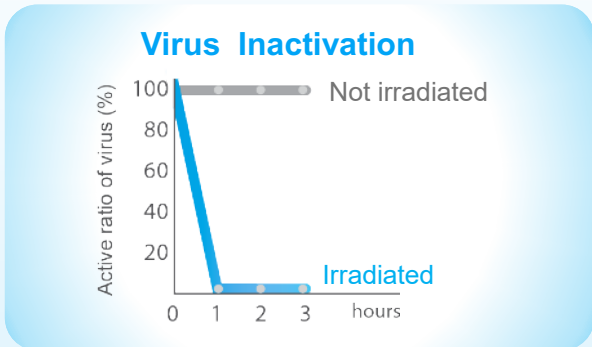
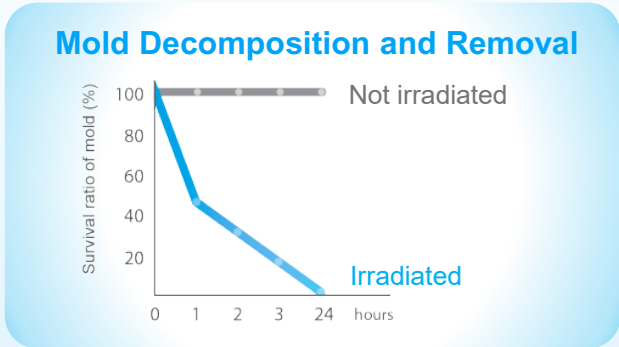
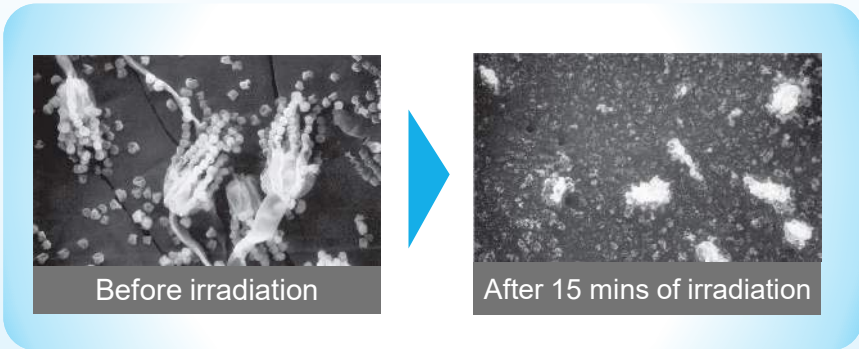
STEP 3 DECOMPOSING

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.

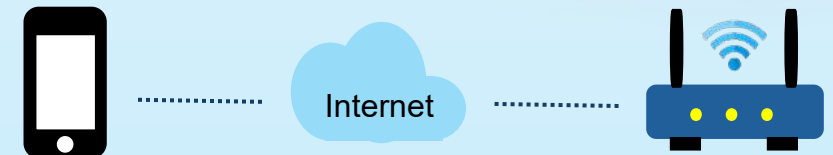
Note: 1. These results may differ slightly from actual results as they are based on simulations using a testing device equipped with a streamer unit. An actual air conditioner was not used when obtaining these results.

Wireless LAN PCB

Wireless LAN PCB is implemented.

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

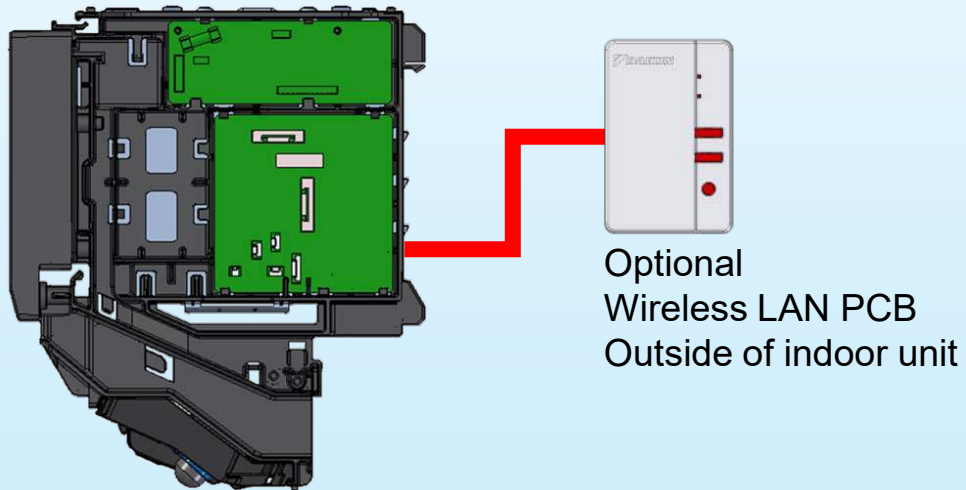
Functions	Smart Phone Control	Voice Control	
			
Start / Stop	●	●	●
Set operation mode	●	●	●
Set room temperature	●	●	●
Set fan speed (Auto, Slient, L1-L5)	●	●	●
Set fan swing (Stop, UD, LR, 3D)	●	●	●
Monitor current room temperature	●	●	●
Monitor current outdoor temperature	●	—	—
Monitor current room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



Wireless LAN PCB

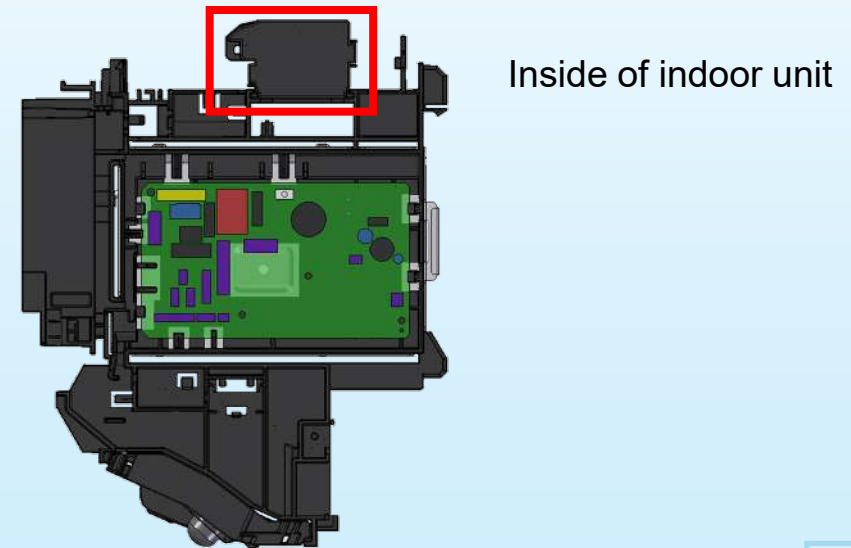
Wireless LAN adapter is installed inside of the e-box.
Directly connected to Control PCB.

Conventional model



New

New



System Details





Perfecting the Air

Lineup | Outdoor unit

Current

- MKM50VVMG
- MKM75VVMG
- MKM85VVMG
- MKM100VVMG



New

- MKM50ZVMG
- MKM75ZVMG
- MKM85ZVMG
- MKM100ZVMG



Lineup | Indoor Wall-mounted type

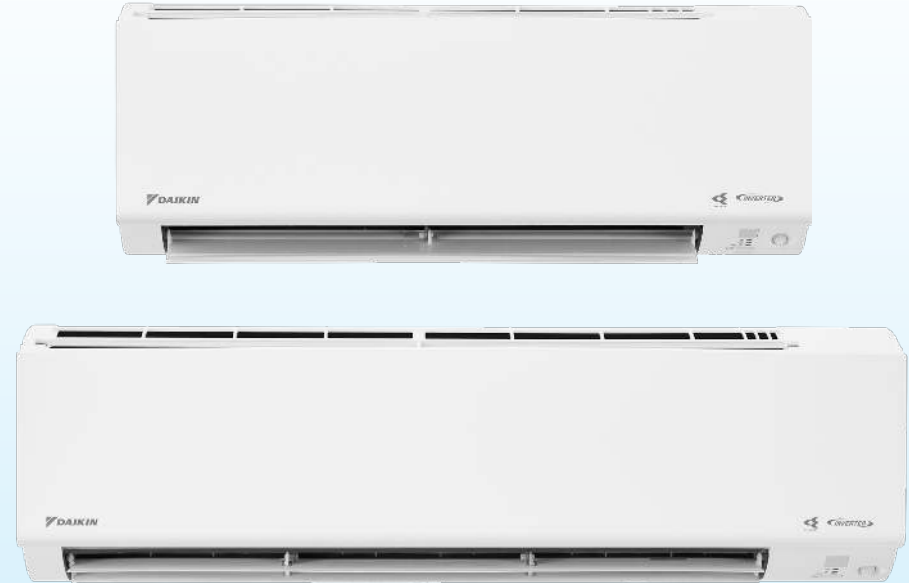
Current

- CTKM25VVMG
- CTKM35VVMG
- CTKM50VVMG
- CTKM60VVMG
- CTKM71VVMG



New

- CTKM25ZVMG
- CTKM35ZVMG
- CTKM50ZVMG
- CTKM60ZVMG
- CTKM71ZVMG



Wireless LAN

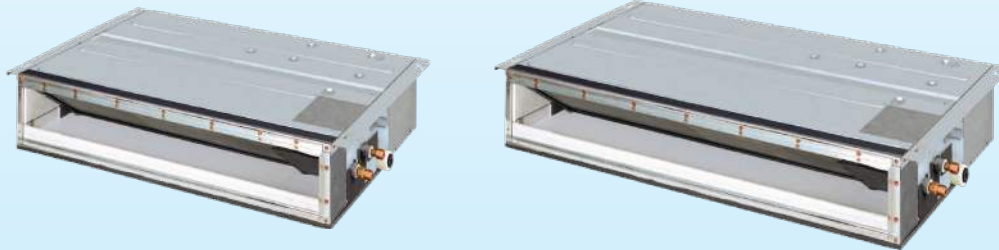


Streamer Technology

Lineup | Indoor Duct-connected Type

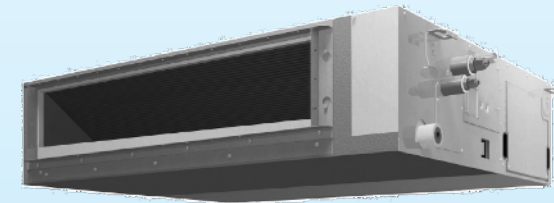
L.S.P. Duct

- CDKM25VVMG
- CDKM35VVMG
- CDKM50VVMG
- CDKM60VVMG

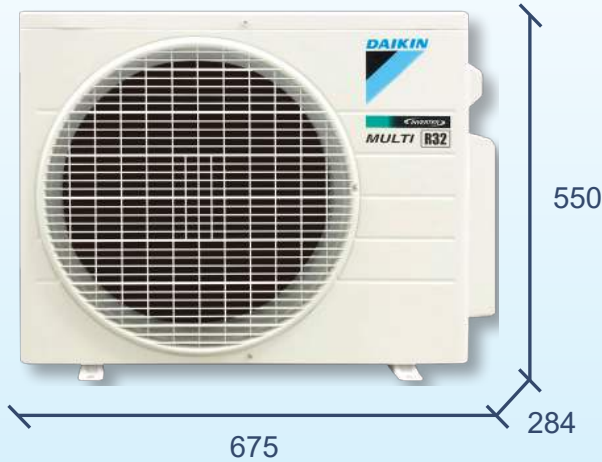


M.S.P. Duct

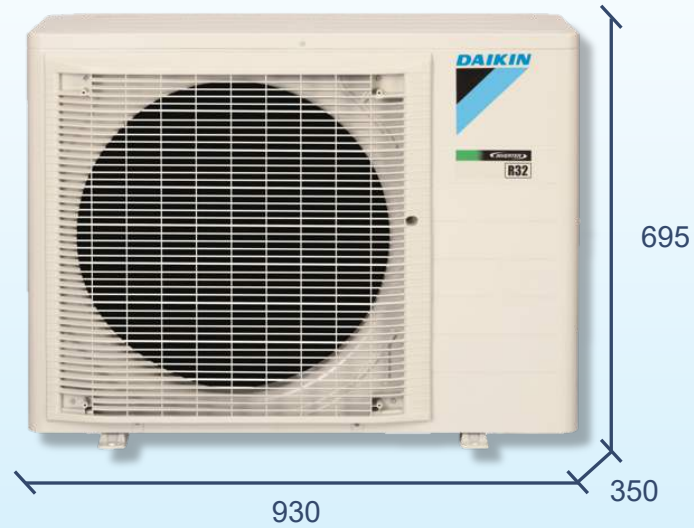
- FDMF50VVMG
- FDMF60VVMG
- FDMF71VVMG



Outlook | Outdoor Unit



New **MKM50ZVMG**
(H)550×(W)675×(D)284 mm



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



New **MKM100ZVMG**
(H)990×(W)940×(D)320 mm

Outlook | Wall Mounted Indoor Unit



New CTKM25-50ZVMG
(H)286×(W)770×(D)244 mm



New CTKM60-71ZVMG
(H)295×(W)993×(D)281 mm

New panel design

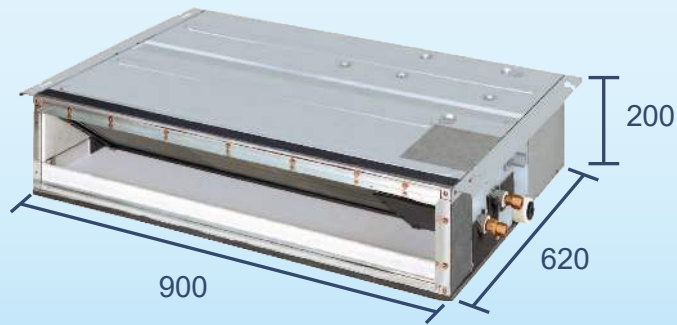
- Minimal
- Modern

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

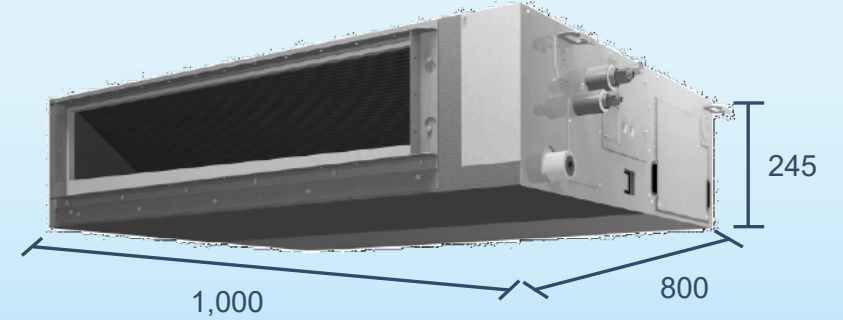


CDKM60VVMG

(H)200×(W)1,100×(D)620 mm

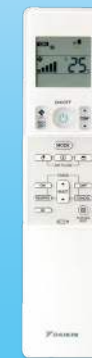


Wireless Remote Controller ARC433B76



FDMF50-71VVMG

(H)245×(W)1,000×(D)800 mm



Wireless Remote Controller BRC086A22



Wired Remote Controller BRC1E63

Specifications | MKM-Z

= Improved

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
		Model		Hermetically sealed swing type			
			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				

*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)	m ³ /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, Horizontal, Downwards					
Air filter			Mould proof air filter / Air quality filter (enzyme blue / PM2.5)					

= Improved

Perfecting the Air

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)		200 × 900 × 620			200 × 1,100 × 620	
	Weight (Gross weight)		25 (29)	25 (29)	27 (31)	30 (35)	
	Airflow rate (H / SL)		m ³ /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)		245 × 1,000 × 800			
	Weight		37	37	37	
	Airflow rate (H / SL)		m ³ /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	

Perfecting the Air

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	•	•	•	•



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	•	•	•	•	•

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)	•	•	•	•	•	•

Perfecting the Air

Options | MKM-Z, CTKM-Z

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		

★ Standard accessory

Perfecting the Air

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	

Perfecting the Air

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