

PCASSG1601B



## Product Lineup

•1 phase • 3 phase

Product		Series	50	60	71	100	125	140
ROUND FLOW	CEILING MOUNTED CASSETTE TYPE	Indoor unit	● FCQ50LUV1	FCQ60LUV1	FCQ71LUV1	FCQ100KAVEA	► FCQ125KAVEA	NEW ● FCQ140KAVEA
	Page 10	Outdoor unit	RZR50LVVM	RZR60LVVM	RZR71LVVMG	NEW NEW RZR100MVMG RZR100MYM	NEW RZR125MVMG RZR125MYM	<b>NEW</b> RZR140MYM
	DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE	Indoor unit	NEW ● FBQ50EVE	NEW ● FBQ60EVE	■ FBQ71EVE	► FBQ100EVE	FBQ125EVE	<mark>NEW</mark> ● FBQ140EVE
	Page 12	Outdoor unit	RZR50LVVM	RZR60LVVM	RZR71LVVMG	NEWRZR100MVMGRZR100MVMG	NEW NEW RZR125MVMG RZR125MYM	NEW RZR140MYM
	CEILING SUSPENDED TYPE	Indoor unit	FHQ50BVV1G	● FHQ60BVV1G		■ FHQ100DAVMA	NEW ● FHQ125DAVMA	<b>NEW</b> ● FHQ140DAVMA
	Page 14	Outdoor unit	RZR50LVVM	RZR60LVVM		NEW RZR100MYM	NEW RZR125MYM	NEW RZR140MYM
	WALL MOUNTED TYPE	Indoor unit				FAQ100CVEA		
	Page 16	Outdoor unit				NEW RZR100MYM		

OUTDOOR UNIT								
Outdoor unit	RZR50LVVM	RZR60LVVM	RZR71LWMG	<b>NEW</b> RZR100MVMG	NEW RZR100MYM	NEW RZR125MVMG	NEW RZR125MYM	NEW RZR140MYM
ENERGY SAVING LABEL								

Sky/Air

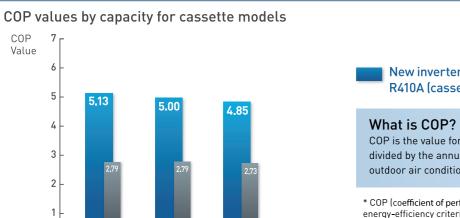


# **Energy** saving



NEW

#### Throughout the cooling season, Daikin's new inverter models reduce energy consumption



New inverter RZR-M series R410A (cassette type)

NEW

COP is the value for the annual total cooling load divided by the annual total power consumption at outdoor air condition specified by ISO standard.

\* COP (coefficient of performance) is a new international energy-efficiency criterion calculated by methods stipulated in ISO 16358-1.

# Compact

**RZR100 MVMG** 

> R36 NUY1

COP Value

2

#### New outdoor units save even more space

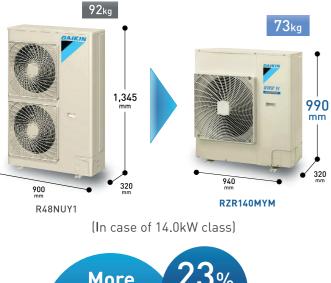
RZR125 MVMG

R42 NUY1

RZR140 MYM

R48

NUY1





Compared to the previous mainstream non-inverter series, outdoor units are much more compact. Easy installation in places with limited space.

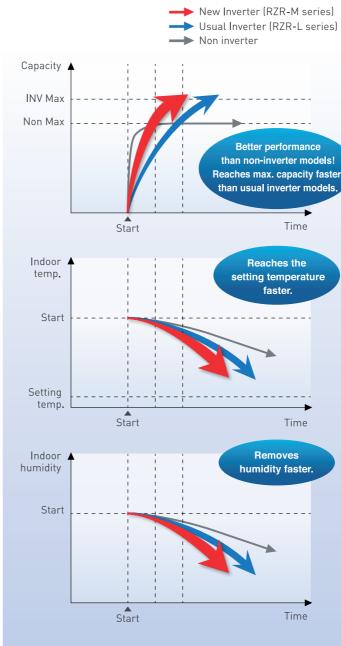


# Comfort

### Faster cooling and dehumidification: New inverter control technology brings quick comfort

#### Quick cooling start function

Quickly and easily make space comfortable before the arrival of office workers or shop customers. As well as quick cooling at max. capacity, new inverter control rapidly removes indoor humidity. More than simple temperature reduction, this twin reduction provides greater comfort (within 30 minutes max.).





- BRC1E62 wired remote controller is used for 'Quick cooling start'.



OPTIONAL





# Durability

Hautomatic protection

against low voltage

In AM and PM peak electricity consumption periods,

supply may fluctuate. Built-in low-voltage protection

is restored, operation will resume as before.

even with limited space

will automatically cut operations. When normal voltage

Outdoor unit installation is possible

## Coated printed circuit boards

Coated circuit boards prevent problems caused by humidity and airborne dust.



## Self-diagnosis functions enable prompt maintenance response

An error message appears on the LCD of the remote controller and an LED lights up on the unit. When the BRC1E62 is installed, the error code appears showing contact information and model name. Contact your Daikin dealer and provide the error code and model name.



## More economy or comfort in special situations

# High sensible cooling enables even greater power savings



In locations such as simple server rooms, dehumidification is not required and greater power savings are possible with 'High sensible cooling' mode.

\*Field setting with remote controller.

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FA2-Q181105 - Daikin SkyAir Catalogue.indd 6-7

#### \*Please refer to Service Manual.

#### High dehumidification cooling provides even greater comfort



where many people gather, 'High dehumidification cooling' mode reduces humidity and creates greater comfort.

n restaurants

and other spaces

#### \*Available with RZR100–140M models. Field setting on outdoor unit.

**Convenient** functions

And more... Advanced Daikin inverter technology brings various benefits to owners and installers.

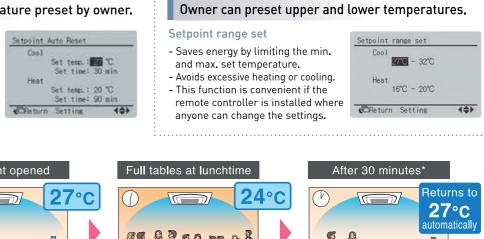
#### Navigation remote controller BRC1E62 includes various convenient functions

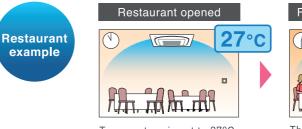
#### Automatic return to temperature preset by owner.

Setpoint auto reset - Even if the set temperature is changed, after a preset period new set temperature returns to preset value.

- Period selectable from 30, 60, 90

or 120 minutes.





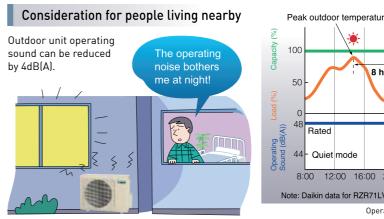
Temperature is set to 27°C

#### 늘 Demand Control Function

By setting limits that restrict power consumption, you can cut electricity bills.

Power consumption is given first priority, and limits maximum power consumption of unit. Maximum power consumption can be set at 40, 60, 70, 80, or 100%.

#### Night quiet operation mode

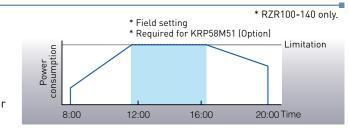


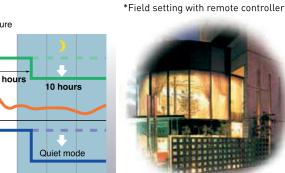


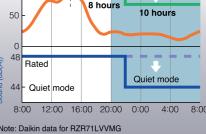
Then is lowered to 24°C for crowded room

#### Automatically returns to preset temperature (27°C) \*Preset-return time can be set

at 30, 60, 90, or 120 min







Operating sound about 4 dB quieter





## Benefit 1 Simplified installation reduces replacement time and cost

When considering air conditioner replacement, do the following things concern you?

- For how long will the business have to close down? While replacement work is going on, how will sales be affected?
- Won't the costs be high and work period longer because scaffolding is necessary for pipe replacement?



\*Strict conditions apply, please check the table on page 52 for acceptable pipe sizing (if pipes are to be reused).

#### Benefit 2 You can increase cooling capacity and achieve higher energy efficiency

#### Upgrade to an air conditioner with the latest technology for greater comfort and energy efficiency.

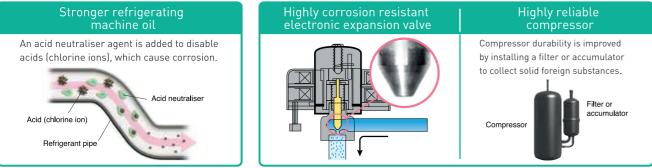




As a result, the greater capacity units ensure better performance to cope with the increasing amount of heat generated by office equipment and occupants.

## 🛨 Technology

Advanced technology including the use of corrosion resistant electronic expansion valves, acid neutralisers and improved compressor reliability enables the re-use of existing piping\* without the need of pipe flushing for a simplified replacement process.



\*Strict conditions apply, please check the table on page 52 for acceptable pipe sizing (if pipes are to be reused).

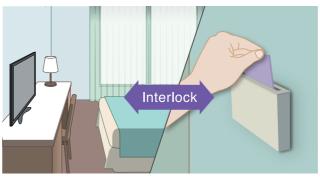


## Possible to force On–Off operation using external command

(Available in duct connection middle static pressure type and wall mounted type)

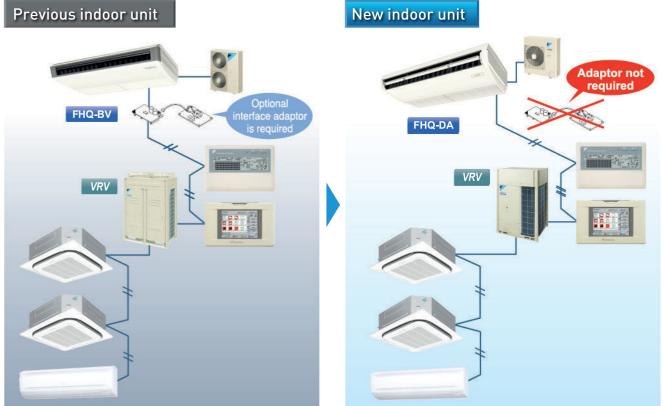
#### Off-operation never overlooked if linked to use of hotel keycard: enables overall power savings.

Duct connection middle static pressure type FBQ-E series



\*Other type of indoor unit is available by using optional adapter.

## All indoor units comply with DIII - Net standards (connected to RZR series units)



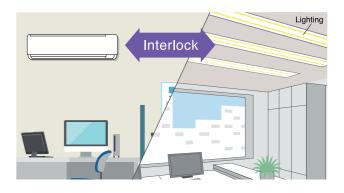
Thanks to easy connection to DIII-NET and long piping length, suitable for projects that include VRV and SkyAir.

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\*Field setting with remote controller

Wall mounted type FAQ-C series



## Cassette Air Conditioner with 360° Uniform Airflow sets The Standard

FCQ50/60/71LUV1 FCQ100/125/140KAVEA



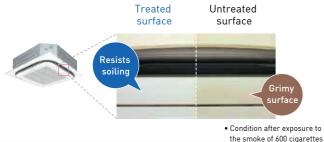


## Quiet Operation at 28\*\* dB(A)

\*\*Selected models only

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are some what higher owing to ambient conditions

## **H** Easy Cleaning with Coated **External Panels.**



• Silver ion anti-bacterial drain pan in 1 m<sup>3</sup> enclosed space.

Non-flocking flaps

• Filter has anti-mould and antibacterial treatment

## Comfort Enhanced by Round Flow!

• 360° airflow With uniform temperature distribution

• Air movement is gentle with Round Flow Enhanced Comfort



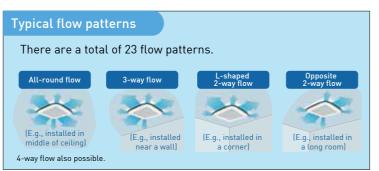


If you raise the set temperature by 1 to 1.5°C,and velocity is decreased by 25%, you still obtain the , same feeling temperature and comfort

## Here Adapts Easily to The Installation

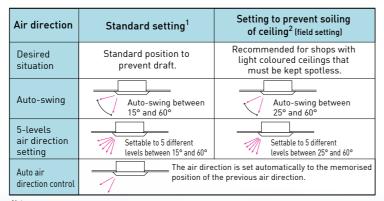
#### Space.

Because air flows out from corner outlets, comfort spreads more widely.



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. Operation sound increases when using 2-way or 3-way flow.

## Optimal Comfort and Convenience Assured by 2 Air Discharge Modes



1 Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller

2 Closing of the corner discharge outlets is recomme

## **H** Compact Body for Quick & Easy Installation in Tight Ceiling (50LU-71LU)



\*1 298 mm high with 100–140 KA/LU \*2 308 mm high with 100–140 KA/LU

## Easy Maintenance

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



• With Ultra long-life filters (option), maintenance is not required in normal shops or offices for up to four years.

#### **SPECIFICATIONS**

				50	60	71	100	125	100	125	140			
Мо	del	Indoor unit		FCQ50LUV1	FCQ60LUV1	FCQ71LUV1	FCQ100KAVEA	FCQ125KAVEA	FCQ100KAVEA	FCQ125KAVEA	FCQ140KAVEA			
Nar	ne	Outdoor unit		RZR50LVVM	RZR60LVVM	RZR71LVVMG	RZR100MVMG	RZR125MVMG	RZR100MYM	RZR125MYM	RZR140MYM			
Power su	vlaai	Outdoor unit			1 Phase, 220–240 V, 50 Hz 3 Phase, 380–415 V, 50 Hz									
Cooling o	apacity <sup>1,2</sup> in Max.)		kW	5.0 (2.3-5.6) 6.0 (2.6-6.3) 7.1 (3.2-8.0)			9.5 (4.5-11.2)	10.8 (5.4-14.0)	10.0 (5.0-11.2)	10.0 (5.0-11.2) 12.5 (5.7-14.0) 14.0 (6.2-15.				
	-		Btu/h kW	17,100 (7,900-19,100)	20,500 (8,900-21,500)	24,200 (10,900-27,300)	32,400 (15,400-38,200)	36,900 (18,400-47,800)		42,700 (19,500-47,800)	47,800 (21,200-52,600)			
	onsumption	Cooling <sup>1</sup>	W/W	1.03	1.40	1.80	2.51	3.22	2.78	4.31	5.62			
Indoor	COP ndoor Colour Decoration panel		VV/VV	4.00	4.27	3.70		h white	3.60	2.70	2.47			
unit	Airflow rate (F	·	m³/min		21/-/13.5		32/26/20	33/28/22.5	32/26/20	33/	28/22.5			
	Sound level (		dB(A)		[-/35/-/28]		[43/37.5/-/32]	[44/39/-/34]	(-/43/37.5/32	[-/44/39/34]	[-/44/40/36]			
	Dimensions	Unit	mm		256x840x840		(40/07.0/ 702)	(44/07/ 704)	298×840×840	(744/07/04)	(744/40/00)			
	(H×W×D)	Decoration panel	mm		230X040X040 270X040X040 50X950X950									
	Machine	Unit	kg		21		24							
	weight	Decoration panel	kg		5.5									
	Certified Operation	range Cooling	°CWB				14 t	o 25						
Outdoor	Colour			lvory white										
unit	Compressor	ressor Type			Herm	etically sealed swin	g type		He	rmetically sealed sv	ving type			
		Motor output	kW	1.12	1.35	1.76	2.03	2.03	1.92	1.9	2			
	Refrigerant cl	harge (R-410A)	kg	1.6 (Charged for 30 m)			1.9 (Charged for 30 m)	1.9 (Charged for 30 m)		1.9 (Charged for 30 m)				
	Sound level <sup>3</sup>	Cooling	dB(A)		48		49	52	49	52	54			
		Night quiet mode	dB(A)		44		4	15		45				
	Dimensions (I	H×W×D)	mm		595×845×300		990×94			990×940×320				
	Machine weig		kg		43		65			73				
	Certified Operation	° .	°CDB					o 46						
Piping connecti	Liquid		mm					9.5						
connecti	045 (11		mm				ø 15.9							
	Drain	Indoor unit	mm				VP25 (I.D Ø 25×0.D Ø 32)							
Max inte	Max. interunit piping length m		mm m	¢ 26.0 (Hole) 50 (Equivalent length 70)										
	tallation level d	2	m	30 (Equivalent (engin 70)										
Heat ins		merenee						nd gas piping						
neat ma	atation			1			Sour aquia a	na gao piping						

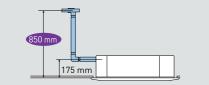
<sup>1</sup>Rated cooling capacities are based on the following conditions: Suction temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal) <sup>2</sup>Capacities are net, including a deduction for cooling for indoor fan motor heat. <sup>3</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

#### **OPTIONS**

News		Dem	a als	Kit n	ame				
Name	e of option	Rem	агк	FCQ50/60/71LUV1	FCQ100/125/140KAVEA				
Decoration panel	l			BYCP125K-W1					
Sealing material	of air discharge outle	t		KDBH5	5K160F				
Panel spacer				KDBP55	iH160FA				
Fresh air	Chamber	Without T-joint pipe and fan		KDDPS	55B160				
intake kit	type	With T-joint pipe, v	vithout fan	KDDP5	5B160K				
	Direct installation	type		KDDP55X160					
Filter chamber				KDDFP55B160					
Replacement lon	ng-life filter			KAFP551K160					
Ultra long-life fil	ter unit (including filte	er chamber)		KAFP55B160					
Replacement ult	ra long-life filter			KAFP55H160H					
Chamber connec	ction kit <sup>1</sup>			KKSJ5	5KA160				
Remote controlle	er	Wireless type	Cooling only	BRC7F633F	BRC7F635F				
		Wired type <sup>2</sup>		BRC	1C61				
Navigation Remo	ote Controller	Wired type <sup>2</sup>		BRC	1E62				
Wiring adaptor fo	or electrical appendice	es [2] <sup>3</sup>		KRP4AA53					
Installation box f	or adaptor PCB			KRP1H98					

<sup>2</sup>Wiring for wired remote controller to be procured locall <sup>3</sup>Installation box for adaptor PCB (KRP1H98) is necessary

## **H** Drain Pump is Equipped as Standard Accessory with 850 mm Lift.





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## Thinner Design Allows Greater Installation Flexibility

## FBQ50/60/71/100/125/140EVE



#### **H** Easy Maintenance

Position of drain pan inspection opening has been modified for easier inspection work

#### Drain pan maintenance check window

This makes it possible to inspect for drain pan dirt and to confirm drainage during installation without the use of tools.



Inspection opening for drain pan Drain pan maintenance check window

Easy maintenance because the drain pan can be removed



## Design and Installation Flexibility

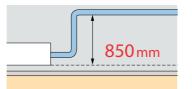
With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces



One of the industry's most compact bodies in the mid-static pressure range.

Indoor unit	71E	100/125/140E			
Height (mm)	24	45			
Width (mm)	1,000	1,400			
Depth (mm)	800				

Higher lift is realized by utilising built-in DC drain pump with standard accessory



## \rm High Efficiency

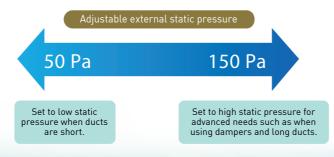
DC Fan motor and DC drain pump are utilised to improve energy efficiency

#### 🗄 Clean

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause smells and clogging.

Using a DC fan motor, the external static pressure can be controlled to within a range of 50 Pa to 150 Pa



Comfort airflow is achieved in accordance with conditions such as duct length.

Airflow rate auto adjustment function

Controls the airflow rate using a remote controller during test run. It is automatically adjusted to approximately  $\pm 10\%$  of the rated H tap airflow.

Interlock control by outside system

Enables control by hotel key card system acting as master  $\mathsf{ON}/\mathsf{OFF}$  for room electricity.

Enables central control of room ventilation and lighting by third-party building management system.

#### SPECIFICATIONS

					50	60	71	100	125			
Model			Indoor unit		FBQ50EVE	FBQ60EVE	FBQ71EVE	FBQ100EVE	FBQ125EVE			
Name	Name Outdoor unit			RZR50LVVM	RZR60LVVM	RZR71LVVMG	RZR100MVMG	RZR125MVMG				
Power supply		Indoor unit Outdoor unit				1 Phase, 220-240 V, 50 Hz						
Cooling capacit Rated (Min M				kW Btu/h	5.0 (2.3-5.6) 17,100 (7,900-19,100)	6.0 (2.6-6.3) 20,500 (8,900-21,500)	7.1 (3.2-8.0) 24,200 (10,900-27,300)	9.5 (4.5-11.2) 32,400 (15,400-38,200)	10.8 (5.4-14.0) 36,900 (18,400-47,800)			
Power consum	ption	Co	oling <sup>1</sup>	kW	1.39	1.69	2.22	2.51	3.22			
COP				W/W	3.60	3.56	3.20	3.79	3.35			
Indoor	Fan	Airflow r	ate (H/M/L)	m³/min	18/1	5/12.5	32/27/22.5	36/30.5/25				
unit		External static pressure <sup>3</sup>		Pa	Rated 50 (50-150)							
	Sound	d pressure le	evel (H/M/L) <sup>4</sup>	dB(A)	35/33/31 38/35/33			38/35.5/33	40/37.5/35			
	Dime	nsions (H×W	(×D)	mm		245×1,000×800	245×1,40	0×800				
	Mach	ine weight (i	ndoor)	kg		37		47				
Outdoor	Sound	pressure	Cooling	dB(A)		48		49	52			
unit	level <sup>4</sup>		Night quiet mode	dB(A)		44			15			
unit	Dime	nsions (H×W	(×D)	mm		595×845×300		990×9	40×320			
	Mach	ine weight (o	outdoor)	kg		43		6	5			
Piping	Liquid	ł		mm			ø 9.5 (Flare)					
connection	Gas			mm			ø 15.9 (Flare)					
	Drain		Indoor unit	mm			VP25 (I.Dø 25×0.Dø 32					
			Outdoor unit	mm			ø 26 (Hole)					
	Max int	terunit pipin	g length	mm	50 (Equivalent length 70m)							
		Heat ins	ulation			Both liquid and gas piping						

					100	125	140					
Model			Indoor unit		FBQ100EVE	FBQ125EVE	FBQ140EVE					
Name	Name Outdoor unit			RZR100MYM	RZR125MYM	RZR140MYM						
Power supply			Indoor unit			1 Phase, 220–240 V, 50 Hz						
			Outdoor unit		3 Phase, 380–415 V, 50 Hz							
Cooling capaci Rated (Min M				kW Btu/h	10.0 (5.0-11.2) 34,100 (17,100-28,200)	12.5 (5.7-14.0) 42,700 (19,500-47,800)	14.0 (6.2-15.4) 47,800 (21,200-52,600)					
Power consum	nption	Co	oling <sup>1</sup>	kW	2.82	4.58	5.85					
COP				W/W	3.55	2.73	2.39					
Indoor	Fan	Airflow r	ate (H/M/L)	m³/min	38/35.5/33 36/30.5/25							
unit		External static pressure <sup>3</sup>		Pa		Rated 50 (50-150)						
	Sound	nd pressure level (H/M/L) <sup>4</sup> dB		dB(A)	40/37.5/35	40/37	.5/35					
	Dimen	sions (H×W	ons (H×W×D) m		245×1,400×800							
	Machir	ne weight (i	ndoor)	kg		47						
Outdoor		oressure	Cooling	dB(A)	49	52	54					
unit	level <sup>4</sup>		Night quiet mode	dB(A)		45						
	Dimen	sions (H×W	/xD]	mm		990×940×320						
	Machir	ne weight (o	outdoor)	kg		73						
Piping	Liquid			mm		ø 9.5 (Flare)						
connection	Gas			mm		ø 15.9 (Flare)						
	Drain		Indoor unit	mm		VP25 (I.Dø 25×0.Dø 32)						
	- Crain		Outdoor unit	mm		ø 26 (Hole)						
	Max ir	nterunit pip		m	50 (Equivalent length 70m)							
		Heat insu	ulation			Both liquid and gas piping						

Note: <sup>1</sup>Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m [horizontal] <sup>2</sup>Capacities are net, including a deduction for cooling for indoor fan motor heat. <sup>3</sup>External static pressure is changeable in 11 stages by remote controller. <sup>4</sup>Anechoic chamber conversion value. measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

<sup>4</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions. <sup>5</sup>Air filter is not standard accessory, but please mount it in the dust system of the suction side. Select its duct collection efficiency[gravity method]50% or more.

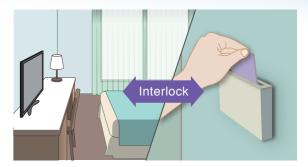
#### **OPTIONS**

Newsofield	Remark		Kit name							
Name of option			FBQ50EVE	FBQ60EVE	FBQ71EVE	FBQ100EVE	FBQ125EVE	FBQ140EVE		
Remote controller	Wireless type	Wireless type Cooling only			BRC	4C66				
	Wired type <sup>1</sup>				BRC	1C61				
Navigation Remote Controller <sup>1</sup>					BRC	1E62				
Adaptor for wiring	KRP1C64 *									
Wiring adaptor for electrical appendices[2]					KRP4	AA51 *				
Remote sensor			KRCS01-4B							
Mounting plate for adaptor PCB. <sup>2,3,4</sup>			KRP4A98							
Central remote controller <sup>5</sup>			DCS302CA61							
Unified ON/OFF controller <sup>5</sup>			DCS301BA61							
Schedule timer <sup>5</sup>	DST301BA61									
intelligent Touch Controller <sup>5</sup>	DCS601C51									

Note: <sup>1</sup>Wiring for wired remote controller to be procured locally. <sup>2</sup>Mounting plate is necessary for each adaptor marked★. <sup>3</sup>Up to 2 adaptors can be fixed for each mounting plate.

<sup>4</sup>Only one mounting plate can be installed for each indoor unit. <sup>5</sup>The indoor unit is equipped standardly with the interface adaptor for SkyAir series. The Interface adaptor for SkyAir series is not necessary for this indoor unit since it is equipped as standard.

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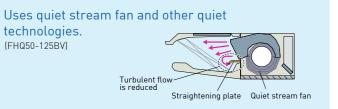
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#### **CEILING SUSPENDED TYPE**

## Comfortable Airflow Travels Throughout The Room



#### Quiet Operation at 32\*\* dB(A) \*\*Selected models only



### H Oil Resistant Grille

• Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar environments.

Note: Intended for use in salons, dining rooms, and ordinary sales floors, this specification is not suitable for kitchens or other harsh environments.



## **H** Benefits of DA series

• The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.

High/Middle/Low : 46/42/38 dB(A)

 Sophisticated design Flap neatly closes when not in use.
 Fresh white colour.



• Installable on ceilings 4.3 m high



- 3 fan speeds: High/Middle/Low
- Connection to a centralised control system is available, without option.

## H Comfortable

• Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room

• Louver manually adjusts for straight or wide angle airflow



• Programme "Dry" Dehumidification is a microprocessor controlled to prevent abrupt and uncomfortable changes in air temperture.

#### Easy Maintenance

- Long-life filter (standard) requires no maintenance for about 1 year\*
- The filter is washable and reused after 1 year. \* For dust concentration of 0.15  $\text{mg/m}^{3}$

Two time settings (2500 hrs and 1250 hrs) are available to match the installation environment. Maintenance time warning is displayed on the remote controller (filter sign).

• Easy-clean, flat surfaces

## Drain pump kit can be easily incorporated

Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria and mould that cause smells and clogging.

# Drain pump kit

### SPECIFICATIONS

				50	60				
Model		Indoor unit		FHQ50BVV1G	FHQ60BVV1G				
Name		Outdoor unit		RZR50LVVM	RZR60LVVM				
Power supply	у	Outdoor unit		1 Phase, 220-	240 V, 50 Hz				
Cooling capac Rated (Min I			kW Btu/h	5.0 (2.3-5.6) 17,100 (7,900-19,100)	6.0 (2.6-6.3) 20,500 (8,900-21,500)				
Power consu	umption	Cooling <sup>1</sup>	kW	1.39	1.69				
COP			W/W	3.60	3.56				
Indoor	Colour			Whi	te				
	Airflow rate	(H/L)	m³/min	17/-,	/14				
	Sound level (	H/L)2	dB(A)	39/-	/35				
	Dimensions (I	ensions (H×W×D)		195×1,160×680					
	Machine weig		kg	27					
	Certified oper	ation range	°CWB	14 to 25					
Outdoor	Colour			lvory white					
unit	Compressor	Туре		Hermetically sealed swing type					
L		Motor output	kW	1.12	1.35				
		harge (R-410A)	kg	1.6 (Charged for 30 m)					
	Sound level <sup>3</sup>		dB(A)	48					
-		Night quiet mode	dB(A)	44					
	Dimensions (I		mm	595X84					
	Machine weig		kg	43					
	Certified oper	~	°CDB	10 to					
Piping	Liquid (Fla		mm	Ø 9.5					
connections			mm	¢ 15.'					
	Drain	Indoor unit	mm	VP20 (I.Dø2					
Max intorun	it piping lengt	Outdoor unit	mm m	¢ 26.0 (Hole)					
	ation level diffe		m	50 (Equivalent length 70) 30					
Heat insulati		erence		30 Both liquid and gas piping					
i leat illSuldli				Dotti tiquiu an	a gas piping				

				100	125	140					
Model		Indoor unit		FHQ100DAVMA	FHQ125DAVMA	FHQ140DAVMA					
Name		Outdoor unit		RZR100MYM	RZR125MYM	RZR140MYM					
Power supp	ly	Outdoor unit			3 Phase, 380–415 V, 50 Hz						
Cooling capa Rated (Min			kW Btu/h	10.0 (5.0-11.2) 34,100 (17,100-38,200)	14.0 (6.2-15.4) 47,800 (21,200-52,600)						
Power cons	umption	Cooling <sup>1</sup>	kW	3.03	4.42	5.55					
COP			W/W	3.3	2.83	2.52					
Indoor	Colour				Light Ivory						
unit	Airflow rate (I	H/M/L)	m³/min	28/24/20	31/27/23	34/29/24					
	Sound level (H	I/M/L] <sup>2</sup>	dB[A]	42/38/34	44/41/37	46/42/38					
	Dimensions (		mm		235×1,590×690						
	Machine weig		kg °CWB	38							
	Certified oper	Certified operation range		14 to 25							
Outdoor	Colour				lvory white						
unit	Compressor	Туре			Hermetically sealed swing type						
		Motor output	kW	1.92							
	Refrigerant c	harge (R-410A)	kg	1.9 (Charged for 30 m)							
	Sound level <sup>3</sup>	Cooling	dB(A)	49	52	54					
	Sound tever	Night quiet mode	dB(A)	1	45	46					
	Dimensions (	H×W×D)	mm		990×940×320						
	Machine weig	Iht	kg		73						
	Certified oper	ration range	°CDB		21 to 46						
Piping	Liquid (Flare)		mm		ø 9.5						
connections			mm		ø 15.9						
	Drain	Indoor unit	mm		VP20 (I.D ø 20×0.D ø 26)						
		Outdoor unit	mm		¢26.0 (Hole)						
	nit piping lengt		m	50 (Equivalent length 70)							
	ation level diffe	erence	m	30							
Heat insulat	ion				Both liquid and gas piping						

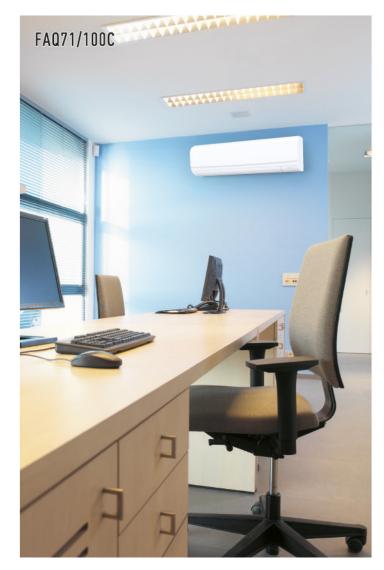
Note : <sup>1</sup>Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal). <sup>2</sup>Capacities are net, including a deduction for cooling for indoor fan motor heat. <sup>3</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

#### **OPTIONS**

Name of option	Derred	Remark		Kit name					
Name of option	Remark		FHQ50/60BVV1G	FHQ100BVV1B	FHQ125BVV1B	FHQ100/125/140DAVMA			
Replacement long-life filter	Resin net		KAF501DA80 KAF501DA112 KAF501DA160			KAFP501A160			
Drain pump kit				KDU50N125VE		KDU50P140VE			
Remote controller	Wireless type	Wireless type Cooling only		BRC7EA66	BRC7GA56				
	Wired type <sup>1</sup>		BRC1C61						
Navigation Remote Controller	Wired type <sup>1</sup>		BRC1E62						
Wiring adaptor for electrical appendice	es <sup>2</sup>		KRP4AA52						
Interface adaptor for SkyAir series			DTA112BA51 N/A						
Installation box for adaptor PCB			KRP1CA93 KRP1D93A						

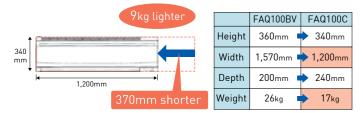
Note: <sup>1</sup>Wiring for wired remote controller to be procured locally. <sup>2</sup>Installation box for adaptor PCB (KRP1D93A) is necessary

## **Compact Design and Easy Installation**



## **H** Compact & Sophisticated Design

• FAQ100



## Easy Cleaning

• Removable and washable grille



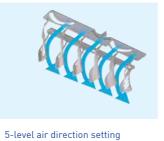
• Flat panel, easy to wipe dust off

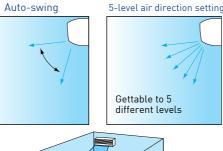


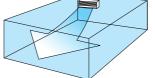
## 🗄 Comfortable

#### • Auto swing

Wide-angle louvers (by hand) Soft material louver bends airflow over a wider area



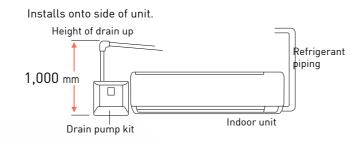




- Switchable fan speed : High / Middle / Low
- Auto airflow rate (When BRC1E62 is used)
- Programme "Dry"

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

## Drain Pump Kit is Available as Option.



Connection to a centralised control system is available without option

#### **SPECIFICATIONS**

				100					
Model		Indoor unit		FAQ100CVEA					
Name		Outdoor unit		RZR100MYM					
Power suppl	y	Outdoor unit		3 Phase, 380–415 V, 50 Hz					
Cooling capacity <sup>1,2</sup> Rated (Min Max.)		kW Btu/h	10.0 (5.0-11.2) 34,100 (17,100-38,200)						
Power consu	umption	Cooling <sup>1</sup>	kW	3.37					
COP			W/W	2.97					
Indoor	Colour			Fresh white					
unit	Airflow rat	e (H/M/L)	m³/min	26/23/19					
umi	Sound leve	L (H/M/L)3	dB(A)	49/45/41					
	Dimension	s (HXWXD)	mm	340×1,200×240					
	Machine w	eight	kg	17					
	Certified C	peration range	°CWB	14 to 25					
Outdoor	Colour			Ivory white					
unit	Compressor Type		_	Hermetically sealed swing type					
unic		Motor output		1.92					
	Refrigerar	t charge (R-410A)	kg	1.9 (Charged for 30 m)					
	Sound leve	l <sup>3</sup> Cooling	dB(A)	49					
		Night quiet mode	dB(A)	45					
	Dimension	s (H×W×D)	mm	900×940×320					
	Machine w	eight	kg	73					
	Certified C	peration range	°CDB	21 to 46					
Piping	Liquid	Flare)	mm	ø 9.5					
connections	Gas (Fl	are)	mm	ø 15.9					
	Drain	Indoor unit	mm	VP13 (I.D¢13×0.D¢18)					
		Outdoor unit	mm	∮ 26.0 [Hole]					
Max. interun	nit piping ler	gth	m	50 (Equivalent length 70m)					
Max. installa	ation level d	fference	m	30					
Heat insulat	ion			Both liquid and gas piping					

Note : <sup>1</sup>Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal). <sup>2</sup>Capacities are net, including a deduction for cooling for indoor fan motor heat. <sup>3</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

#### **OPTIONS**

Name of ention	Remark		Kit name		
Name of option			FAQ100CVEA		
Drain-up kit			K-KDU572EVE		
Remote controller	Wireless type	Cooling only	BRC7EB519		
	Wired type <sup>1</sup>		BRC1C61		
Navigation Remote Controller	Wired type <sup>1</sup>		BRC1E62		
Wiring adaptor for electrical appendices			KRP4AA51		
Installation box for adaptor PCB			KRP4AA93		

Note: <sup>1</sup>Wiring for wired remote controller to be procured locally.



Functions overview		CEILING MOUNTED CASSETTE TYPE (Round Flow )		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE	CEILING SUSPENDED TYPE		WALL MOUNTED TYPE
					FHQ50/60BVV1G	NEW	
Cooling only	Indoor unit	FCQ50-71LUV1	FCQ100-140KAVEA	FBQ50-140EVE	11030/0024410	FHQ100-140DAVMA	FAQ100CVEA
	Outdoor unit	RZR50-60LVVM RZR71LVVMG	RZR100-125MVMG, RZR100-140MYM	RZR50-60LVVM,RZR71LVVMG RZR100-125MVMG, RZR100-140MYM	RZR50-60LVVM	RZR100-140MYM	RZR100MYM
	Auto swing				۲		•
Ormeford	Swing pattern selection	•					
	Independent up-and-down airflow						
	DC fan motor (Indoor unit)	•		٩		•	٥
	Switchable fan speed	2step	3step	3step	2step	3step for DA	3step
	Auto airflow rate <sup>*1</sup>			٩			٥
Comfort	High fan speed mode						٢
	Program "Dry"	٢		٢	۲		٢
	High ceiling application	۲			•*6	•*6	
	Two selectable temperature-sensors *2	٢		٢	۲		٢
	Year-round cooling applicable						
	Night quiet operation *3			٢	۲		٢
	Setpoint auto reset *1			٩	٩		٥
	Setpoint range set *1			٢	۲	٩	0
Remote	Weekly schedule timer *1	•		٩	•		٥
Controller	Off timer (programmed) *1	•		٩	٩	٩	٥
	On/Off timer *4				۲		٥
	Anti-bacterial air filter			*8	•		
	Mould-proof air filter						•
Cleanliness	Silver ion anti-bacterial drain pan						
	Mould-proof drain pan						
	Drain pump mechanism				• *8	*8	<b>()</b> *8
	Pre-charged for up to 30 m *3						
	Pre-charged for up to 10 m *3			•	•	<b>•</b>	•
	Long-life filter			*8	•		
Work &	Filter sign				•		•
servicing	Ceiling soiling prevention				•		
	Low gas pressure detection *3				•		9
	Emergency operation	•		•	•		•
	Self-diagnosis function			•	•		•
Control features	Auto-restart						
	Control by 2 remote controllers				•		•
	Group control by 1 remote controller	•		•	•		•
	External command control	• *8	•*8	*8	• *8	<b>*</b> 8	*8
	Central remote control				*8 BV series needs option		•
	Interlock control with Heat Reclaim Ventilator			•			•
	DIII-NET communication standard			•		Only for DA series	•
	High-efficiency filter						
Options	Ultra long-life filter			-			
	Fresh air intake kit					Only for DA series	
Others	Anti corrosion treated heat exchangers *3	٢	• *10	<b>*</b> 10	٩		<b>()</b> *10

Note: \*1 : Applicable when BRC1E62 is used \*2 : Applicable when wired remote controller is used

\*3 : For outdoor units \*4 : Applicable when BRC1C61 is used \*5 : Applicable for FVQ50-100 \*6 : Installable on max. 3.5 m (50-71) and 4.3 cm.(100-140 ) high ceiling

\*7 : Installable on max. 4.3 m high ceiling \*8 : Option

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\*9 : Applicable for 60/71 class indoor unit \*10 : Applicable for RZR50-71M, RZR-LV and RZR-LU

## **Function Directory**

## Comfort

#### Auto-swing

Delivers comfortable air-conditioning to all areas, near to and far from the air-conditioner

The air flow direction can be fixed at your desited angle by the remote controller.

#### Swing pattern selection

You can freely set air discharge setting by remote controller.



#### Independent up-and-down airflow

Independently adjust (manually) the eight horizontal blade louvers in both up and down directions to achieve an airflow that reduces uneven room temperature.

#### Switchable fan speed

High setting provides maximum reach while low setting minimises drafts.

#### Auto airflow rate

Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

#### High fan speed mode

You can increase fan speed approximately 10% higher than the "high" setting.

## **Remote Controller**

#### Setpoint auto reset

Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.

#### Setpoint range set

Saves energy by limiting the minimum and maximum set temperatures. Avoids excessive heating and cooling.

#### Weekly schedule timer

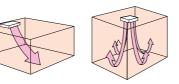
Up to five operation ON/OFF settings can be programmed per day for each day of the week. Not only can the time be set for the operation ON setting, but also the temperature.

#### Programme "Dry"

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature. Useful for reducing uncomfortable humidity without uncomfortable cooling of the room.

#### High-ceiling application

Delivers air-conditioning comfort all the way down to the floor in air-conditioning zones with high ceilinas

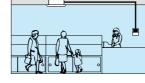


Note: When units are installed on high ceilings, depending on the model, various restrictions concerning maximum height, air discharge direction, and choice of options may apply

#### Two selectable temperature-sensors

Temperature-sensors are included in the indoor unit and optional wired remote controller. Temperature sensing closer to target area is possible to further increase the comfort level

• Use the temperature-sensor in the indoor unit when controlling air conditioning from another room



Note: Wireless remote controllers have no

temperature-sensor

#### Night quiet operation

The Automatic night quiet mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that.

#### Off timer (programmed)

Sets and saves setting for an increment of time that automatically turns off air conditioner after a preset period of time for each time operation starts.

#### On/Off timer

Operation starts when the preset time of the ON timer elapses and stops when the preset time of the OFF timer elapses.

## Cleanliness

#### Anti-bacterial air filter

The Air filter has a anti-bacterial treatment to help prevent the growth of bacteria and mould on it.

#### Mould-proof drain pan

Mould-proof drain pan prevents growth of mould in highly humid conditions

#### Mould-proof air filter

Sanitary filter has mould-resistant treatment.

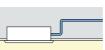
#### Silver ion anti-bacterial drain pan

Mould-proof drain pan includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.

## Work and Servicing

#### Drain pump mechanism

Steeper gradient realises more efficient condensate drainage. High-lift is especially useful for long lengths of drain piping.



#### Pre charged for up to 30 metres

If refrigerant piping length does not exceed 30 m, there is no need for on-site gas charging. \*Applicable to RZR50-140. RXS50EA/60E/71E RKS25A/35A · 10 m

#### Long-life filter

Maintenance is not required for one year\*. The filter is washable and can be reused. \*For dust concentration of 0.15 mg/m<sup>3</sup>

#### Filter sign

The filter sign warns you when it is time to clean the filter.

\*When using a wired remote controller the sign is displayed in the LCD. When using a wireless remote controller the filter sign lamp illuminates or the signal receiver unit.

## **Control features**

#### Auto-restart

If there is a power outage while the equipment is operating, operations will restart in the same mode as before the power cut when electricity is restored.

#### Control by 2 remote controllers

Using 2 remote controllers you can operate the equipment locally or from a remote location. Note: It is not possible to use two wireless remote controllers.

#### Group control by 1 remote controller

You can turn up to 16 indoor units on/off with a single remote controller. (When using connected indoor units, the settings must all be the same and on/off will be simultaneous.)

## **Options**

#### High-efficiency filter unit

Two types are available: 65% and 90% colorimetry.

#### Ultra long-life filter

Requires no maintenance for about 4 years\* (10,000h) in stores and offices. \*For dust concentration of 0.15 mg/m<sup>2</sup>

#### Others

#### Anti corrosion treated heat exchangers

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, coated Anti corrosion treated heat exchangers (with special acryl pretreatment) are used for the heat exchanger of the outdoor unit. In high corrosive areas, regular maintenance needs to be carried out.

#### Ceiling soiling prevention function

Daikin's innovative air discharge mechanism keeps airflow away from the ceiling. Ceiling cleaning is less frequently required.

#### Low gas pressure detection

Insufficient gas charging is normally hard to detect. During post-installation trials and regular inspection procedures, the refrigerant level is monitored by microprocessor to maintain proper gas pressure. Reliability is assured and maintenance and inspection can be carried out more quickly.

Emergency operation

If there is a malfunction elsewhere in the system, the fan or compressor can still be operated.

#### Self diagnosis function

The operating parameters of indoor and outdoor units, and sensor data at critical locations throughout the system, are constantly monitored using a microcomputer. To facilitate quick response in the event of a malfunction, a message appears on the LCD of the remote controller and an LED on the unit illuminates.

#### External command control

Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room. \*An option is required.

#### Central remote control

Optional central remote controller enables centralised control of up to 1024 indoor units (64 groups) from up to 1 kilometer away.

#### Interlock control

Enables interlocking control with external equipment such as Heat Reclaim Ventilator

#### DIII-NET communication standard

Standardly equipped interface enables connection to centralised control system without need of an adaptor.

#### Fresh-air intake kit

You can provide air-conditioning with fresh air from outside. Convenient for places where a ventilation fan cannot be installed

- \*Connecting ducts, insect nets, fire dampers, air filters, and other parts should, as required, Note:
- \*\*Outside Air fan interlocked with air conditioning unit is necessary. Optional PCB[KRP1C63]is required for interlocking.
   \*\*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 noise and may also influence temperature sending.

#### LCD REMOTE CONTROLLER Optional accessory

Easy-to-read LCD remote controller allows various system and can control multiple indoor units.

### control configurations

Setpoint range set

CReturn Setting

- 32°C

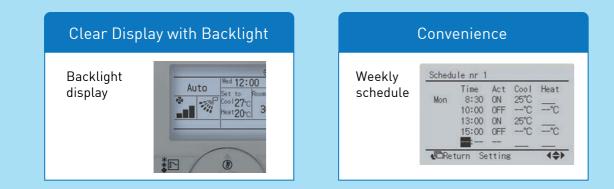
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16°C - 20°C

#### **Navigation Remote Controller** (Wired Remote Controller BRC1E62)



This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.



#### Energy saving

#### Setpoint auto reset

- Even if the set temperature is changed, it returns to the preset temperature after apreset period of time. - Period selectable from 30min/60min/90min/120min.

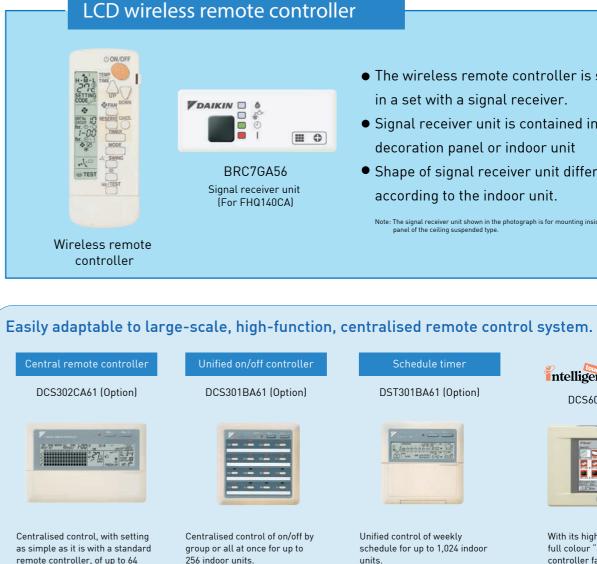


- Sets and saves setting for an increment of time that automatically turns off air
- conditioner after a preset period of time for each time operation starts.
- Period can be preset from 30 to 180 minutes in10-minute increments.

#### Setpoint range set

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive heating or cooling.
- This function is convenient when the remote controller is installed at a place where any number of people may operate it.





#### Interface adaptor for SkyAir series

#### DTA112BA51 (Option)

groups (1,024 indoor units) is

possible

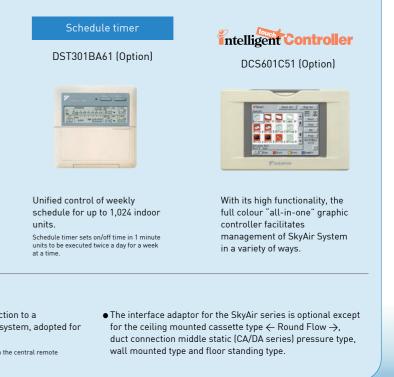
Enables centralised control via connec
igh-speed, DIII-NET communication s
he Daikin VRV system.
lecessary for interface adaptor for SkyAir series with ontrol units shown at above.

#### Easy to read because of large LCD screen.

- The rubber switch and the oil-resistant plastic casing are adopted for durability.
- Only 17 mm thick. Can be installed either recessed or exposed.

- The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit is contained inside decoration panel or indoor unit
- Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of the ceiling suspended type.







- Ask a qualified installer or contractor to install this product. Do not try to install the product by 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.





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