

HRV Heat Reclaim Ventilation



VAM-FA Series

VKM-GM Series

VKM-G Series

R-410A



contents

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Daikin

introduction



Daikin Furone N V

Daikin has a worldwide reputation based on over 70 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.



Environmental Consciousness

Enhancing the present - safeguarding the future

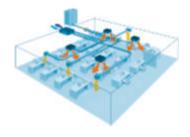
Throughout the last 50 years or so the basic building blocks of life - air, water and the earth - have been systematically subjected to increasing levels of pollution with little regard to their potentially devastating effects on future generations.

Recently however, concern has grown regarding climate changes, acid rain, water and air pollution and the constant degradation of Earth's natural resources. The very technology that created these problems is now being harnessed to halt and reverse them. Depletion of the ozone layer and global warming have been highlighted and are now being addressed. Government legislation prohibiting the use of toxic substances and the generation of pollutants has slowed down the destruction of the environment.

Daikin Europe is proud to have been pro active in this respect, closely following its Japanese parent in implementing policies that have often pre-empted official legislative codes and directives. As a result, a culture of "environmental management" has since 2001, played a key role in the company's day to day activities and development strategies.

Top management commitment is reflected in the establishment of a number of action plans, which are now strictly observed and implemented throughout the Daikin Group.





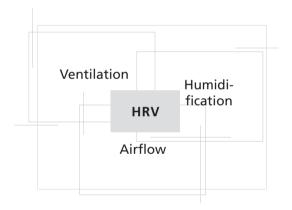
HRV helps create a high quality environment by interlocking with the air conditioning system

The Daikin HRV (Heat Reclaim Ventilation) recovers heat energy lost through ventilation and holds down room temperature changes caused by ventilation, thereby maintaining a comfortable and clean environment. This also reduces the load on the air conditioning system and conserves energy.

In addition, the HRV interlocks with Daikin's VRV system, Sky Air and other air conditioning systems and automatically switches over ventilation mode, further increasing the effects of energy conservation. HRV operation has been centralised on the air conditioner remote control allowing total control over air conditioning and ventilation via a simple configuration.

The current line-up includes models with DX coil and/or humidifier - the DX coil helps prevent the direct impact of cold airflow upon personnel during the heating cycle and vice versa. High static pressure enhances design flexibility.

Components of Indoor Air Quality



New Features VKM unit

- Humidifier
- DX coil
- High static pressure

Line-up



Air flow rate (m³/h)	150	250	350	500	650	800	1000	1500	2000
VAM-FA Ventilation	X	X	X	X	X	X	X	X	X
VKM-GM: Ventilation, DX coil & humidifier				X		X	X		
VKM-G: Ventilation & DX coil				X		X	X		

II. General HRV (VAM+VKM) **Features**

1 ENERGY EFFICIENCY

• Over 30 % Size Reduction

Use of the high efficiency paper (HEP) element and optimized design of the fan and airflow passages have resulted in matchless compactness without detriment to the 28% or so reduction in air conditioning load achieved by previous models. A reduction of up to 40mm in height allows the main unit to fit easily into limited spaces such as ceilings

On average 28 % air conditioning load reduction (maximum 40 %):

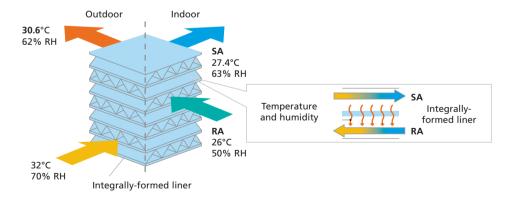
- 20% by operating in total heat exchange mode (in comparison with normal ventilation fans)
- a further 6 % by auto-ventilation mode changeover switching
- a further 2 % by pre-cool, pre-heat control (reduces air conditioning load by not running the HRV while air is still clean soon after the air conditioner is switched on.)

Note: the values mentioned above may vary according to weather and other environmental conditions at the location of the unit's installation

Proprietary Developed HEP Element

The heat exchange element uses a high efficiency paper (HEP) possessing superior moisture absorption and humidifying properties. The heat exchange unit speedily recovers heat contained in latent heat (vapour). The element is made of a material with flame resistant properties and is treated with an anti-moulding agent.

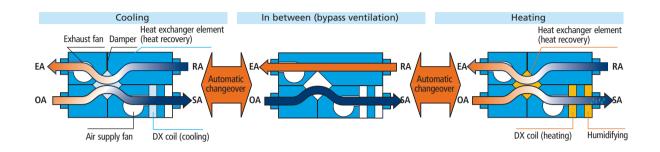
Operation of the heat exchanger element





• Automatic Changeover to Efficient Operation Patterns

Operation automatically switches to the optimum pattern to suit prevailing conditions



2 DESIGN FLEXIBILITY

• Outdoor Operation Temperature down to -15°C

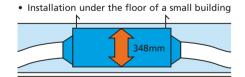
If the outdoor air suction temperature falls below -10°C, the unit switches to intermittent operation to prevent freezing of the heat exchanger element and dew condensation within the unit.

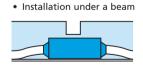
Intermittent operation = a thermistor (standard equipment) within the unit detects the outdoor air temperature. Unit operation varies according to the detected temperature.

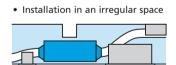
• Slim Design

The slim design of the HRV unit enables it to be mounted in narrow ceiling voids and irregularly shaped spaces.









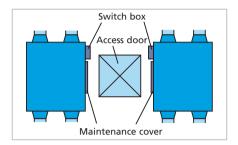


design flexibility

• Simple Design and Construction

The unit can be installed either horizontally or upside down in accordance with the conditions of the location.

A 450mm square inspection hatch enables maintenance and heat exchange element replacement to be performed with ease.

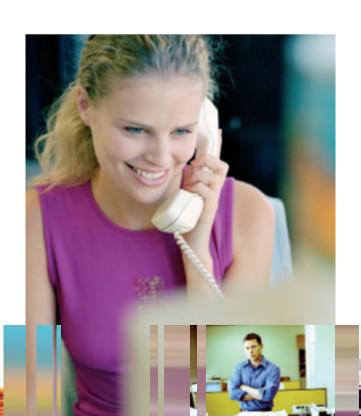


• Quiet Operation

Sound pressure levels are remarkable low at 20.5dBA (VAM150FA)

dB(A)	Perceived loudness	Sound
0	Treshold of hearing	-
20	Extremely soft	Rustling leaves
40	Very soft	Quiet room
60	Moderately loud	Normal conversation
80	Very loud	City traffic noise
100	Extremely loud	Symphonic orchestra
120	Threshold of feeling	Jet taking off

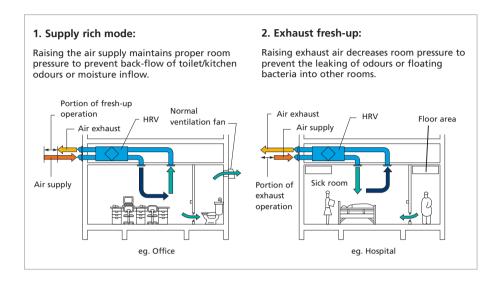
Daikin units



3 CLEAN AIR

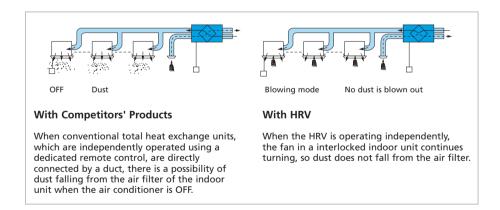
• Fresh-Up Operation

The user can select between 2 fresh-up modes via the remote control



• Dust Prevention

Prevents dust from falling thanks to directly mounted ducts

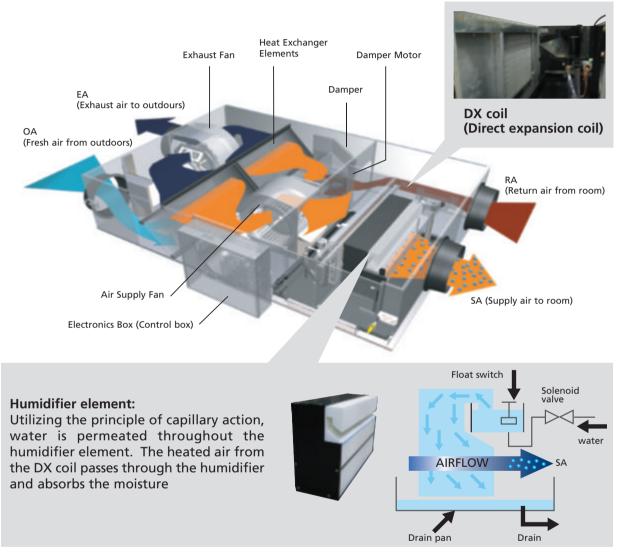


Filter Cleaning

A signal on the remote control indicates when the air filter needs cleaning



III. VKM Features

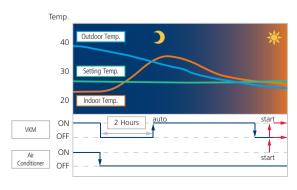


1 ENERGY EFFICIENCY

• Nighttime Free Cooling Operation

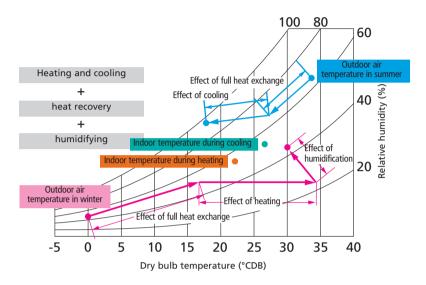
Nighttime free Cooling Operation is an energy conserving function operating at night when the air conditioning is switched off. By ventilating rooms containing office equipment that increases room temperature, night purge reduces the cooling load when air conditioning is switched on in the morning.

- Nighttime free cooling operation works only if connected to Multi or VRV systems.
- Nighttime free cooling operation is factory set to "off" but can be activated by your Daikin dealer on request.



• Efficient Outdoor Air Introduction with Heat Exchanger and Cooling/Heating Operation Indoor unit with outdoor air treatment

The temperature can be brought close to room temperature with minimal cooling capacity through the use of outdoor air

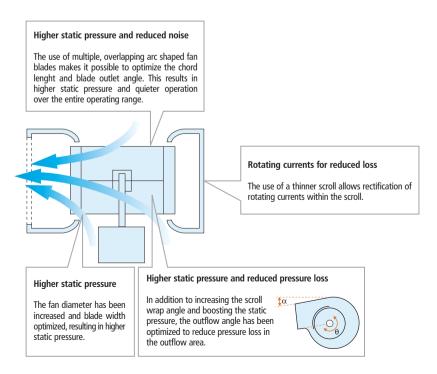


2 DESIGN FLEXIBILITY

• High Static Pressure

Modifications to the fan, including the use of multiple arc blades, a thinner scroll and optimized fan scroll angle, help to boost efficiency.

Dramatically higher static pressure is achieved due to improved fan performance. This reduces limitations on unit location and allows more flexibility in duct design.



• Indoor Unit Connectability

The indoor unit is connectable up to 130% of outdoor unit capacity

IV. Line-up

VAM-FA: ventilation



V A M 1 5 0 F A



V A M 2 5 0 F A



V A M 3 5 0 F A



V A M 5 0 0 F A



V A M 6 5 0 F A



V A M 8 0 0 F A



V A M 1 0 0 0 F A



V A M 1 5 0 0 F A



V A M 2 0 0 0 F A

VKM-GM: ventilation, DX coil and humidifier



V K M 5 0 G M



V K M 8 0 - 1 0 0 G M

VKM-G: ventilation and DX coil



V K M 5 0 G



V K M 8 0 - 1 0 0 G

V. Control Systems

HRV can also be connected to:

DS-net

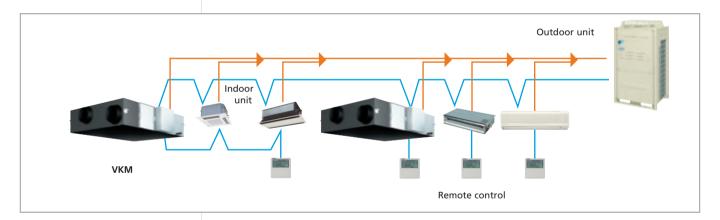
Intelligent Controller

Intelligent Manager

BACnet Gateway

SMS-IF

Operation of the air conditioner using the remote control is interlocked with HRV operation, greatly simplifying overall system control. The same remote control centralizes air conditioning and ventilation operations, obviating any need for HRV remote control installation work. Using a centralized remote control also frees the user to choose from a wide range of control systems that integrate air conditioning and ventilation. By incorporating a variety of centralized control equipment, the user can build a large, high grade centralized control system.



BRC1D52

air conditioner remote control



BRC301B61

VAM remote control



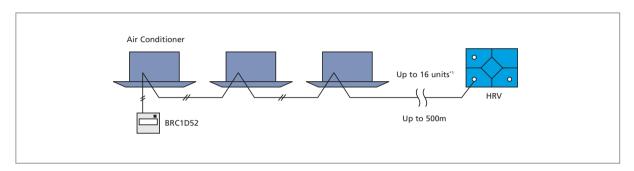
1 Individual Control Systems

- → Simultaneous ON/OFF of HRV and air conditioner (BRC1D52)
- → ON/OFF of HRV (BRC301B61)
- → Independent operation of HRV
- → Airflow rate switching (initial setting)
- → Ventilation mode switching (initial setting)
- → Self diagnostic functions
- → Filter sign display and reset
- → Timer settings, simultaneous control with air conditioner (BRC1D52)
- → Timer settings (BRC301B61)
- → Fresh-up mode switching (Selectable: supply rich mode, exhaust rich mode; initial setting)

→ A variety of control systems can be controlled using only the BRC1D52

• Group Control

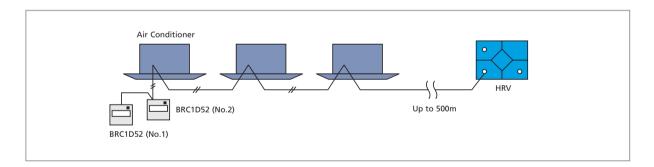
One air conditioner remote control simultaneously controls up to 16 air conditioning and HRV units.



*1: Count VKM unit as two air conditioners. For details, see Table 1 on page 15.

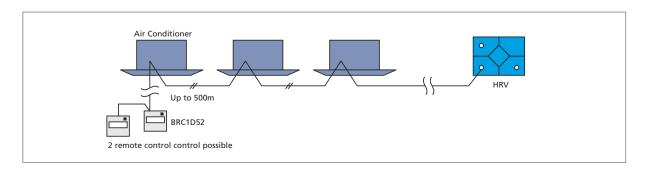
• Control using 2 remote controls

Allows control of air conditioning and HRV units from two locations by connecting two air conditioner remote controls. (group control is possible)



• Long-distance Remote Control

Remote operation control - from a distant control room for example, is possible thanks to wiring of up to 500 m. (2 remote control control possible)



	Sys	tem construction	System characteristics	Necessary accessories
NDENT N SYSTEM	INDEPEN- DENT OPERATION	BRC1D52/BRC301B61	Independent operation of HRV is possible Air conditioner remote control can be used	BRC1D52 BRC301B61
INDEPE	SIMULTA- NEOUS OPERATION OF MULTIPLE	HRV HRV BRC1D52(No. 1)/ BRC301B61 BRC301B61	 Operation is possible using 2 remote controls Multiple HRV units can be simultaneously controlled in batch. (Up to 8 HRV units can be connected) 	BRC1D52 BRC301B61
ERLOCKED CONTROL R) SYSTEM	STANDARD SYSTEM	During group control operation, the VKM unit has a capacity equivalent to 2 standard indoor units. Up to 16 standard indoor units can be connected at the same time. Connectable indoor units: VKM	 Multiple VRV indoor units or HRV units can be connected and controlled in batches, with interlocked operation of HRV and air conditioners by using the air conditioner remote control. The HRV unit can also be operated independently using the remote control for the indoor unit, even if the indoor unit is not in operation 	BRC1D52
AIR CONDITIONING INT	MULTIPLE GROUPS INTERLOCKED OPERATION SYSTEM	Group 1 Indoor unit BRC1D52 BRC1D52 Group 2 Indoor unit Group 2 Indoor unit Group 2 Indoor unit HRV KRP2A61 HRV	Can control interlocked operation of multiple groups of VRV or Sky Air indoor units When one of the multiple groups operates, HRV units are interlocked and operate simultaneously	BRC1D52

2 CENTRALISED CONTROL SYSTEMS

By combining the (optional) centralised control equipment listed below, the user can achieve a wide range of comprehensive centralised control systems for air conditioning and ventilation.

DCS302C51



Centralised remote control - DCS302C51

- → 64 groups (zones) of indoor units can be controlled individually by means of the LCD remote control.
- → Max. 64 groups (128 indoor units) can be controlled
- → Max. 128 groups (128 indoor units) can be controlled via 2 centralised remote controls, in separate locations.
- → Zone control
- → Malfunction code display
- → Max. wiring length 1,000 m (total : 2,000 m)
- → Combination with unified ON/OFF control, schedule timer and BMS system
- → Airflow volume and direction can be controlled individually for indoor units in each group operation.
- → Ventilation volume and mode can be controlled for Heat Reclaim Ventilation (VKM).
- → Up to 4 'operation/stop' pairs can be set per day by connecting a schedule timer.

DCS301B51



Unified ON/OFF control - DCS301B51

- → One unit can turn ON/OFF up to 16 groups (128 units) of HRV and air conditioner units individually or in a batch.
- → Lamps display operation and failure status of the connected HRV and air conditioner units.
- → Up to 8 units can be linked to allow centralized control of up to 128 units.

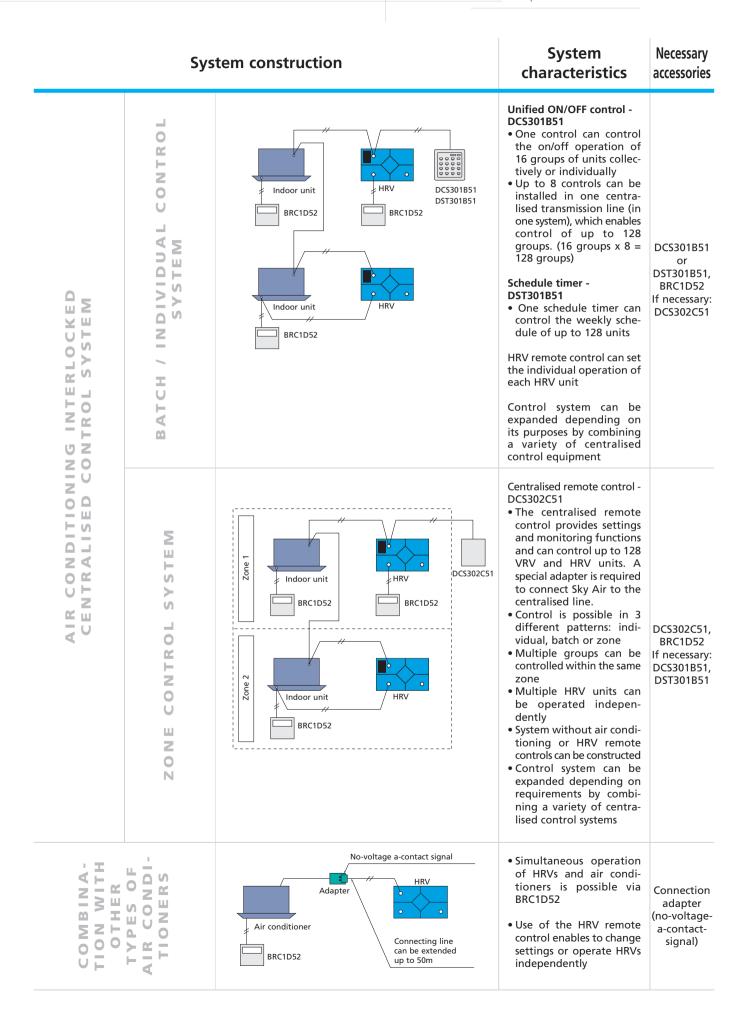
DST301B51



Schedule timer - DST301B51

- → One unit can control the operation of up to 128 HRV and air conditioner units on a weekly schedule.
- → Can set two ON/OFF operations per day for a period of one week.

Number of units that can be connected per system					
Centralised remote control	2 units				
Unified on/off control	8 units				
Schedule timer	1 unit				



VI. Specifications





V A M 8 0 0 F A

Ventilation

VAM-FA	150	250	350	500	650	800	1000	1500	2000		
Temperature exchange efficiency (%)		ultra-high	74	72	75	74	74	74	75	75	75
, , , , , ,		high	74	72	75	74	74	74	75	75	75
		low	79	77	80	77	77	76	76.5	78	78
Enthalpy exchange efficiency (%)	for heating	ultra-high	64	64	65	62	63	65	66	66	66
		high	64	64	65	62	63	65	66	66	66
		low	69	68	70	67	66	67	68	68	70
	for cooling	ultra-high	58	58	61	58	58	60	61	61	61
		high	58	58	61	58	58	60	61	61	61
		low	64	62	67	63	63	62	63	64	66
Power Supply		VE				1 -	~, 220 ~ 240V, 5	OHz			
Sound pressure level dB(A)	Heat exchange mode	ultra-high	27-28.5	28-29	32-34	33-34.5	34.5-35.5	36-37	36-37	39.5-41.5	40-42.5
		high	26-27.5	26-27	31.5-33	31.5-33	33-34	34.5-36	35-36	38-39	38-41
		low	20.5-21.5	21-22	23.5-26	24.5-26.5	27-28	31-32	31-32	34-36	35-37
	Bypass mode	ultra-high	27-28.5	28-29	32-34	33.5-34.5	34.5-35.5	36-37	36-37	40.5-41.5	40-42.5
		high	26.5-27.5	27-28	31-32.5	32.5-33.5	34-35	34.5-36	35.5-36	38-39	38-41
		low	20.5-21.5	21-22	24.5-26.5	25.5-27.5	27-28.5	31-33	31-32	33.5-36	35-37
Casing		-				9	alvanised steel pla	te			
Insulation Material			self-extinguishable urethane foam								
Dimensions	HxWxD	mm		60 x 509		112 x 800		88 x 852		710x1,498x852	
Weight		kg	7	24		33		18	61	132	158
Heat Exchange System					air to a		heat (sensible hea	,	xchange		
Heat Exchange Element Material						1 71	ocessed non-flamn	1 1			
Air Filter						multio	directional fibrous f	eeces			
Fan	Туре						sirroco fan				
	Air Flow Rate (m³/h)	ultra-high	150	250	350	500	650	800	1,000	1,500	2,000
		high	150	250	350	500	650	800	1,000	1,500	2,000
		low	110	155	230	350	500	670	870	1,200	1,400
	External static pressure (Pa)	ultra-high	69	64	98	98	93	137	157	137	137
		high	39	39	70	54	39	98	98	98	78
		low	20	20	25	25	25	49	78	49	59
Motor Output		kW	Ø 100	0 x 2		0 x 2	0.140 x 2		80 x 2		30 x 4
Connection Duct Diameter	Connection Duct Diameter mm			Ø	150		200		250	Ø	350
Unit ambient condition			-15°C ∼ +50°CDB, 80% RH or less								

Notes: $\bullet\,$ Air flow rate can be changed over to low mode or high mode.

- Sound pressure level is measured at 1.5m below the center of the body.
- Sound pressure level is measured in an anechoic chamber.
- Sound pressure levels generally become higher than this value depending on the operating conditions, reflected sound, and peripheral noise.
- The sound pressure level at the air discharge port is about 8dB higher than the unit's sound level.
- Even when the outdoor temperature is below -15°C, the system is operable down to -20°C with the preheater installed at the outdoor air intake side.



00

Ventilation, DX coil & humidifier

V K M 8 0 - 1 0 0 G M

					VKM50GM	VKM80GM	VKM100GM			
DX coil capacity	Cooling			kW	4.71	7.46	9.12			
. ,	Heating			kW	5.58	8.79	10.69			
Casing	Material					Galvanised steel plate				
Dimensions	Height			mm	387	387	387			
	Width			mm	1764	1764	1764			
	Depth			mm	832	1214	1214			
	k				102	120.0	125.0			
an .	Туре	-			Sirocco fan					
	Air flow rate	Heat exchange mode	Ultra-high	m³/h	500	750	950			
			High	m³/h	500	750	950			
			Low	m³/h	440	640	820			
		Bypass mode	Ultra-high	m³/h	500	750	950			
			High	m³/h	500	750	950			
			Low	m³/h	440	640	820			
	External static	pressure	Ultra-high	Pa	160	140	110			
			High	Pa	120	90	70			
			Low	Pa	100	70	60			
	Motor	Output		W	2 x 280	2 x 280	2 x 280			
emperature exchang	ge efficiency		Ultra-high	%	76	78	74			
'	,		High	%	76	78	74			
			Low	%	77.5	79	76.5			
Inthalpy exchange	Cooling		Ultra-high	%	64	66	62			
fficiency			High	%	64	66	62			
		Low		%	67	68	66			
	Heating			%	67	71	65			
			High	96	67	71	65			
			Low	96	69	73	69			
lumidifier	System				03	Natural evaporating type				
amaner	Amount			kg/h	2.7	4.0	5.4			
	Feed water pr	essure		MPa	1	0.02 ~ 0.49 0.02 ~ 0.49				
	N° of elemen			1,,,,,	1	1	0.02 ~ 0.49			
peration range	Around unit				'	0°C ~ 10°C DR 8006 RH or lass				
peration range	Outdoor air				0°C∼40°CDB, 80% RH or less -15°C∼40°CDB, 80% RH or less					
	Return air					0°C~40°CDB, 80% RH or less				
Sound level -	Heat	Sound pressure	Ultra-high	dBA	37.5	39	39.5			
230V	exchange	Journa pressure	High	dBA	35.5	37	37.5			
	mode		Low	dBA	33.3	34	34.5			
		Sound pressure	Ultra-high	dBA	37.5	39	39.5			
	Dypuss mode	Journa pressure	High	dBA	35.5	37	37.5			
			Low	dBA	33.3	34	34.5			
Piping connection	Liquid	Туре	1 2011	1 00/1	flare connection	flare connection	flare connection			
-pig confidence	l adama	Diameter		mm	6.4	6.4	6.4			
	Gas	Туре		1	flare connection	flare connection	flare connection			
	333	Diameter		mm	12.7	12.7	12.7			
	Water supply	S.ameter		mm	6.4	6.4	6.4			
	Drain			1	0.4	PT3/4 external thread	F.U			
nsulation material	Didili					Self-extinguishable urethane foam				
Heat exchange system					Air		nne			
Heat exchange element					Air to air cross flow total heat (sensible + latent heat) exchange					
Air filter	ICIIL				Specially processed non-flammable paper Multidirectional fibrous fleeces					
Connection duct diameter mm										
Power supply	meter			V1	N 200	1~, 50Hz, 220-240V	N ZJU			
ower supply				A 1		i ~, JUIIZ, ZZU-Z4UV				

 $Notes: \bullet \ Indoor \ temperature: 27^{\circ}CDB, \ 19^{\circ}CWB, \ outdoor \ temperature: 35^{\circ}CDB Indoor \ temperature: 20^{\circ}CDB, \ outdoor \ temperature: 7^{\circ}CDB, \ 6^{\circ}CWB$

- Humidifying capacity is based on: Indoor temperature: 20°CDB, 15°CWB, outdoor temperature: 7°CDB, 6°CWB
- Operation sound is measured at 1.5m below the center of the body.
- Sound values are measured in an anechoic chamber built in accordance with JIS C 1502 condition. Operating sound level generally becomes higher than this value depending on the operating conditions, reflected sound, and peripheral noise.
- The sound level at the air discharge port is about 8dB higher than the unit's operating sound.
- For operation in a quiet room, it is required to take measures to lower the sound, for example install more than 2m soft duct near the air discharge grill.
- Air flow rate can be changed over to Low mode or High mode.
- Normal amplitude, input, efficiency depend on the other above conditions



Ventilation & DX coil



V K M 8 0 - 1 0 0 G

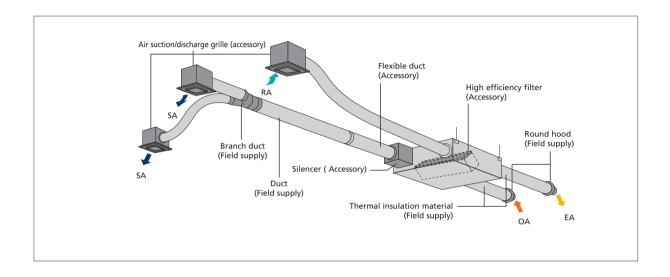
					VKM50G	VKM80G	VKM100G		
DX coil capacity	Cooling			kW	4.71	7.46	9.12		
	Heating			kW	5.58	8.79	10.69		
asing	Material				3.30	Galvanised steel plate	10.03		
imensions	Height			l mm	387	387	387		
	Width			mm	1764	1764	1764		
	Depth		mm	832	1214	1214			
/eight	'			kg	96.0	109.0	114.0		
an .	Туре					Sirocco fan			
	Air flow rate	ow rate Heat exchange mode Ultra-high		w rate Heat exchange mode Ultra-high m³/h 500			750	950	
		_	High	m³/h	500	750	950		
				Low	m³/h	440	640	820	
		Bypass mode	Ultra-high	m³/h	500	750	950		
			High	m³/h	500	750	950		
		Low	m³/h	440	640	820			
	External static	pressure	Ultra-high	Pa	180	170	150		
			High	Pa	150	120	100		
			Low	Pa	110	80	70		
	Motor	Output		W	2 x 280	2 x 280	2 x 280		
emperature exchang	erature exchange efficiency Ultra-high		96	76	78	74			
			High	96	76	78	74		
			Low	96	77.5	79	76.5		
nthalpy exchange	Cooling	Ultra-high		96	64	66	62		
fficiency			High	96	64	66	62		
		Low		96	67	68	66		
	Heating	Ultra-high		96	67	71	65		
			High	96	67	71	65		
			Low	96	69	73	69		
peration range	Around unit				0°C∼40°CDB, 80% RH or less				
	Outdoor air				-15°C∼40°CDB, 80% RH or less				
	Return air					0°C~40°CDB, 80% RH or less			
ound level -	Heat	Sound pressure	Ultra-high	dBA	38.5	41	40.5		
30V	exchange		High	dBA	36.5	38	38.5		
	mode		Low	dBA	34.5	36	36		
	Bypass mode	Sound pressure	Ultra-high	dBA	38.5	41	40.5		
			High	dBA	36.5	38	38.5		
			Low	dBA	34.5	36	36		
iping connection	Liquid	Туре			flare connection	flare connection	flare connection		
		Diameter		mm	6.4	6.4	6.4		
	Gas	Туре			flare connection	flare connection	flare connection		
		Diameter		mm	12.7	12.7	12.7		
	Drain					PT3/4 external thread			
nsulation material						Self-extinguishable urethane foam			
Heat exchange system					A	uir to air cross flow total heat (sensible + latent heat) exchang	2		
Heat exchange element						Specially processed non-flammable paper			
Air filter					Multidirectional fibrous fleeces				
Connection duct diar	meter			mm	Ø 200	Ø 250	Ø 250		
Power supply				V1		1 ~ , 50Hz, 220-240V			

Notes: • Cooling: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB

- Heating: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB
- Operation sound is measured at 1.5m below the center of the body.
- Sound values are measured in an anechoic chamber built in accordance with JIS C 1502 condition. Operating sound level generally becomes higher than this value depending on the operating conditions, reflected sound, and peripheral noise.
- $\bullet\,$ The sound level at the air discharge port is about 8dB higher than the unit's operating sound.
- Air flow rate can be changed over to Low mode or High mode.
- Normal amplitude, input, efficiency depend on the other above conditions

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VII. Options





VAM remote control



Air conditioner remote control



Centralised remote control



Unified ON/OFF control



Schedule timer

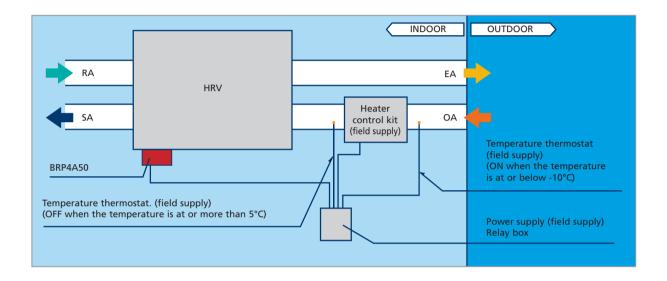
Description					Refe	rence						
VAM remote control		BRC301B61*5										
Air conditioner remote control	Air conditioner remote control						BRC	1D52				
Centralised remote control	Centralised remote control						DCS3	02C51				
Unified on/off control							DCS3	01B51				
Schedule timer	Schedule timer			DST301B51								
PC board adapter	Wiring adapter for electr	rical appendices		KRP2A61								
	For humidifier (running C	ON signal output)		KRP50-2								
	For heater control kit						BRP	4A50				
	For wiring	indoor unit	FXZQ	FXFQ	FXCQ	FXKQ	FXMQ	FXSQ	FXDQ-N	FXHQ	FXAQ	FXLQ/FXNQ
Reference			KRP1B57*	KRP1B59*	KRP1B61*		KRP1D61		KRP1B56	KRP1B3	-	KRP1B61
Installation box for adapter PCB			KRP1B101	KRP1D98	KRP1B96	-	-	KRP4A91	KRP1B101	KRP1C93	KRP4A93	-
			*4/*6	*2/*3	*2/*3			*5	*4/*6	*3	*2/*3	

Notes : 1. Installation box is necessary for each adapter marked with $^{\star}\,$

- 2. Up to 2 adapters can be fixed per installation box
- 3. Only 1 installation box can be installed per indoor unit
- 4. Up to 2 installation boxes can be installed per indoor unit
- 5. Necessary when operating VAM independently. When operating interlocked with other air conditioners, use the remote controls of the air conditioners

1 PC BOARD ADAPTER FOR HEATER CONTROL KIT - BRP4A50

When the installation of an electric heater is required in a cold region, this adapter with an internal timer function eliminates the complicated timer connecting work necessary with conventional heaters.



Notes when installing:

- Examine fully installation location and specification for using the electric heater based on the standards and regulations of each country.
- Supply the electric heater and safety production devices (such as a relay and a thermostat etc) which meet the on site standards and regulations of each country
- Use a non-flammable connecting duct to the electric heater. Be sure to allow 2m or more between the electric heater and HRV for safety.
- For the HRV units, use a different power supply from that of the electric heater and install a circuit breaker for each of them.



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Silencer

Duct adapter

Description	VAM150FA	VAM250FA	VAM350FA
High efficiency filter	YAFM323F15	YAFM323F25	YAFM323F35
Replacement for air filter	YAFF323F15	YAFF323F25	YAFF323F35

Description		VAM500FA	VAM650FA	VAM800FA			
Silencer	Reference	KDDM24A50	KDDM24A100				
	Nom. piping diameter	Ø 200mm	Ø 250mm				
High efficiency filter		YAFM323F50	YAFM323F65				
Replacement for air filter		YAFF323F50	YAFF:	323F65			

Description		VAM1000FA	VAM1500FA	VAM2000FA					
Silencer	Reference	KDDM24A100	KDDM24A100 K-DDM24A100 x 2						
	Nom. piping diameter		Ø 250mm						
High efficiency filter		YAFM323F100	YAFM323F100 x 2						
Replacement for air	filter	YAFF323F100	YAFF323F100 x 2						
Duct adapter	Reference	-	YDFA25A1						
	Nom. piping diameter	-	Ø 250mm						

Description		VKM50G(M)	VKM80G(M)	VKM100G(M)
Silencer	Reference	-	K-DDM24B100	
	Nom. piping diameter	-	Ø 2!	50mm
High efficiency filter		KAF241G80M	KAF241G100M	
Replacement for air filter		KAF242G80IM	KAF242G100M	

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