

Chilled Water
PRODUCT SYSTEM

- Wall Mounted
- Ceiling Cassette
- Ceiling Exposed
- Ducted

Fan Coil Unit Product Catalogue

60Hz



Contents

Wall Mounted Type



02

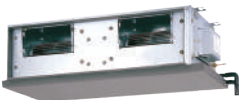
Ceiling Cassette Type

* With Brushless DC Motor



05

Ceiling Concealed Type



11

Ceiling Concealed Type



15


Ducted Blower Type



23

Remark: All unit photos in this catalog are solely for illustration purpose, actual outlook may differ slightly.
All specifications are subjected to change by the manufacturer without prior notice.

Products Overview

Cooling Capacity		kW								
		0	5	10	15	20	25	30	35	40
FWW-L			3 / 4 / 5 / 6							
FWKE-E/ FWKE-EH			5 / 8 / 11							
FWC-C			3 / 4 / 6 / 7 / 9 / 12 / 14 / 16							
FWC-G			3 / 4 / 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20							
FUD-B						20 / 25 / 30				



Wall Mounted Type



FWW-L



Wireless Remote Controller
BRC52A



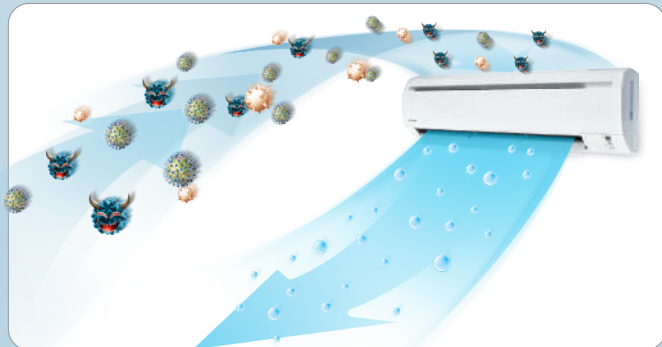
Wired Remote Controller
BRC51A (Option)

- › Comfortable Air Flow & Lower Sound Level
- › Stylish Flat-Panel
- › Indoor Quiet Mode
- › Turbo Mode
- › Uniform Air Distribution
- › Easy Maintenance
- › NIM-Able
- › Sleep Function For Cool And Heat Mode
- › Auto Restart With Last-State-Memory
- › Valve & Valveless Control Options
- › Self Diagnosis Features
- › Compact & Easy To Use Wireless Remote Controller



Comfortble Air Flow & Lower Sound Level

User given more choice on preferable fan speed, quiet mode or automatic setting. With the introduction of SCR indoor fan motor, a step-less change of fan speed results in smooth air flow and unnoticeable sound level change during fan speed change.



Stylish Flat-Panel

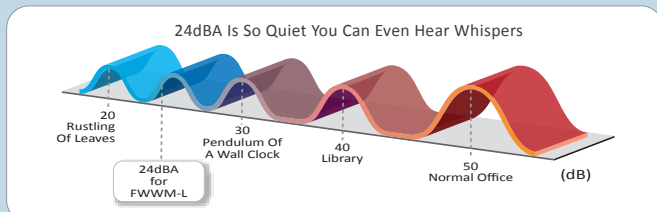
Ideal blend of style and function.

- The front panel is designed for contemporary style without compromising on function.
- Air intake area is designed to ensure smooth air flow profile for better sound quality and optimized volume.

Indoor Quiet Mode

More quiet room environment.

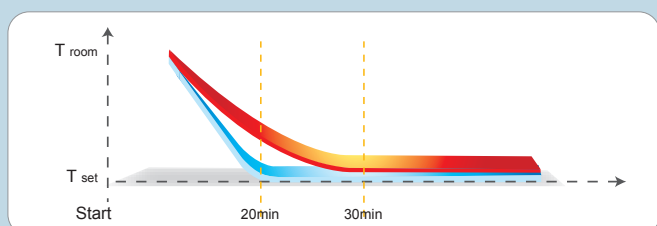
- With up to five selectable fan speeds, users are given more choices. By selecting Quiet mode, the sound pressure level is reduced down to an unobstrusive 24 dBA.
- To quickly cool down the room, Turbo model can be selected for maximum cooling power and highest airflow.



	SL	L	M	H	Turbo
Fan Speed	Low			High	

Turbo Mode

TURBO function is available in COOL and HEAT modes only. Once it is activated, the air-conditioner will run into full power with indoor fan running at MAX speed for 20 minutes. This enables the set temperature to be achieved faster. If TURBO and SLEEP are activated at the same time, the SLEEP mode timer will be reset, it will resume after TURBO function is cleared.



Uniform Air Distribution

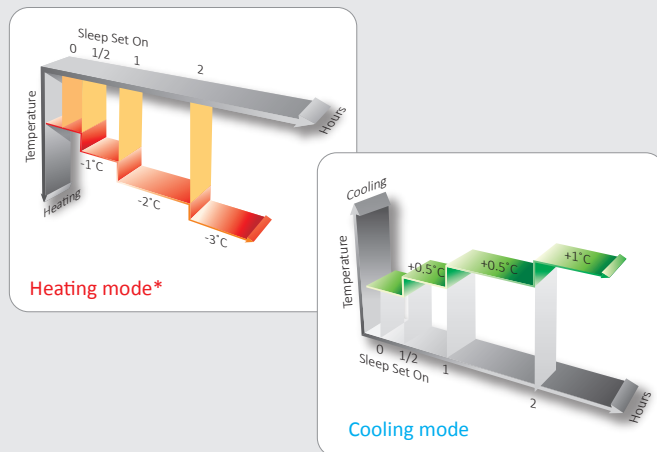
Automated air swing ensures conditioned air distributed evenly.

Easy Maintenance

Air intake grill is easily detachable to be cleaned with water.

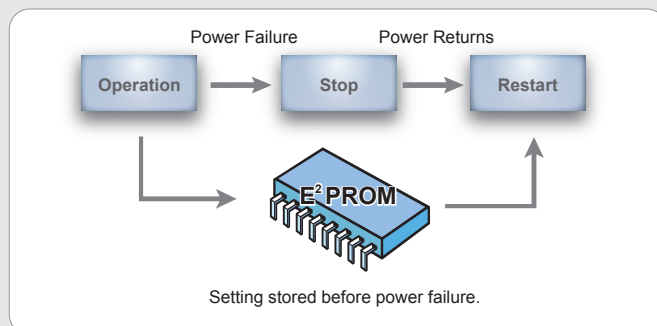
Sleep function for Cool and Heat mode

Once activated, set temperature will be increased / decreased gradually according to normal sleeping temperature patterns to ensure a comfortable sleeping environment.



Auto Restart with Last-State-Memory

In case of sudden power failure during operation, unit restarts automatically & unit will operate based on previous setting when power is resumed.



Compact & Easy To Use Wireless Remote Controller

Compact and user friendly wireless remote controller BRC52A offers:

- Real Time Clock
- "Glow in the dark" ON/OFF Button
- Low, Medium, High fan speed options
- ON Timer Setting



Wireless Remote Controller
BRC52A



Wired Remote Controller
BRC51A (Option)

Self Diagnosis Features

This feature helps to detect any faults or malfunctioning in the system and provide user a warning by blinking of the LED lights.

Specification for Wall Mounted Type ~ 60Hz

MODEL				FWW03L	FWW04L	FWW05L	FWW06L	
NOMINAL COOLING CAPACITY			Btu/h	9200	11300	15500	18000	
			W	2700	3310	4540	5280	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	6900	9000	11700	14000	
			W	2020	2640	3430	4100	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	12800	14000	20500	23000	
			W	3750	4100	6010	6740	
NOMINAL TOTAL INPUT POWER			W	31	42	57	70	
NOMINAL RUNNING CURRENT			A	0.18	0.20	0.30	0.33	
POWER SOURCE			V/Ph/Hz	208-230 / 1 / 60				
REFRIGERANT TYPE				N/A				
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)				
		OPERATION		LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL				
	AIR FLOW	HIGH		CFM	280	370	510	620
		MEDIUM		CFM	250	320	450	520
		LOW		CFM	220	260	390	460
		QUIET		CFM	190	240	360	440
	NOMINAL WATER FLOW RATE		USGPM	2.03	2.51	3.43	4.01	
			litres/min	7.68	9.50	13.00	15.18	
	HEAD LOSS (COOLING)		kPa	24.0	31.0	30.0	36.0	
	HEAD LOSS (HEATING) : 50°C		kPa	20.0	25.0	27.0	33.0	
	MAX. WORKING PRESSURE		kPa	1608				
	SURFACE AIR VELOCITY		m/s	0.74	0.97	0.83	1.01	
	SOUND PRESSURE LEVEL (H/M/L/Q)		dBA	35 / 30 / 25 / 24	42 / 39 / 32 / 29	42 / 38 / 34 / 32	46 / 42 / 39 / 37	
	UNIT DIMENSION		H X W X D	mm	288 X 800 X 206		310 X 1065 X 224	
	PACKING DIMENSION		H X W X D	mm	344 x 874 x 274		386 X 1136 X 314	
	UNIT WEIGHT		kg	9		14		
	CONDENSATE DRAIN SIZE		mm	19.05				
	PIPE CONNECTION		mm	12.70				
	FAN	TYPE			CROSS FLOW FAN			
			DRIVE		DIRECT			
		FAN SPEED	HIGH	RPM	1050	1310	1035	1150
			MEDIUM	RPM	910	1150	920	1070
	LOW		RPM	780	955	825	970	
	FAN MOTOR	TYPE		SINGLE PHASE SCR				
		INDEX OF PROTECTION (IP)		IP44				
		INSULATION GRADE		E				
		RATED INPUT POWER	HIGH	W	31	42	57	70
MEDIUM			W	26	34	46	61	
LOW			W	20	26	38	51	
RATED RUNNING CURRENT		HIGH	A	0.18	0.20	0.30	0.33	
		MEDIUM	A	0.16	0.19	0.27	0.31	
		LOW	A	0.15	0.16	0.25	0.29	
STARTING CURRENT		A	0.225	0.225	0.356	0.356		
MOTOR OUTPUT		W	18	18	30	30		
POLES		4						
COIL	TUBE	MATERIAL		COPPER				
		DIAMETER	mm	7.00				
	FIN	MATERIAL		ALUMINIUM				
		FACE AREA	m²	0.18	0.18	0.29	0.29	
		ROW		2				
	WATER VOLUME		litre	0.58	0.58	0.95	0.95	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER				
		QUANTITY		2				
CASING			COLOUR	WHITE				

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

N/A : NON APPLICABLE

Ceiling Cassette Type (900x900) With Brushless DC Motor



FWKE-E



Wireless Remote Controller
BRC52A



Wired Remote Controller
BRC51A

- › Comfortable
- › Energy Saving
- › Low Noise
- › Low Maintenance & No Brush Sparking
- › 4 Pipe System Available*
- › Modulating Fan Speed Control
- › Optimum Air Discharge
- › Multi Comfort - 3 Air Swing Pattern Control

- › Branch Duct Connection
- › Low Height Design
- › Built In High Head Drain Pump & Water Flow Switch
- › Superior Sound Level
- › Fresh Air Intake
- › Low Water Pressure Drop
- › Sleep Function For Cool And Heat Mode
- › Choices Of Wired Or Wireless Remote Controller

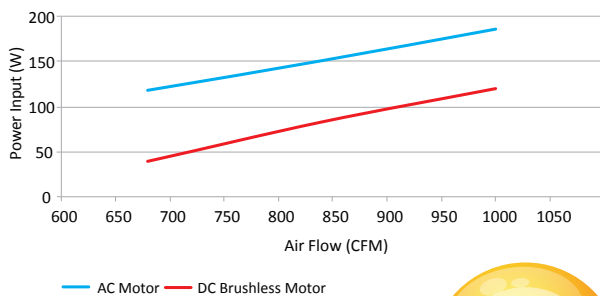


Energy Saving

Compared to the traditional AC motor, DC motor offers the advantages of lower power input, higher efficiency and hence more energy saving.

- Brushless DC motor has less internal resistance and better heat dissipation in the stator coils. As a result, it has higher operating efficiencies since heat can more efficiently dissipate via the stationary motor housing.
- With the green building and development being so welcomed now, this Ceiling Cassette type with Brushless DC motor gives you another excellent option to consider.

Power Consumption Comparison Between AC Motor & DC Motor



Energy Saving Maximum

67%

Recommended Applications

Ceiling Cassette type fan coil with Brushless DC motor provides a green and pleasant environment.



Office

Low Noise

Due to no brushes or a mechanical commutator, it has less shaft friction or inertia and hence less audible noise as low as 16 dBA.



Low Maintenance & No Brush Sparking

Brushless DC motor does not use carbon brushes or a mechanical commutator, thus, it is low maintenance and non-sparking.

4 Pipe System Available*

4 pipe system allows a distribution system that contains both hot water supply with return lines and a chilled water supply with return lines.

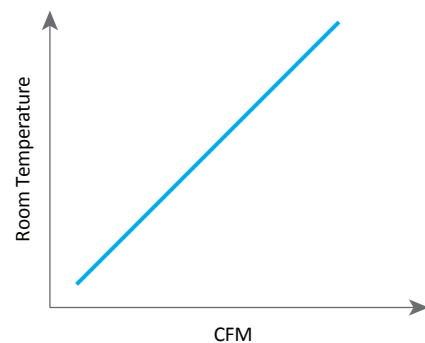
* FWKE-EH model

Modulating Fan Speed Control

Fan speed modulates steplessly based on room temperature to reduce the difference between room temperature and set temperature and hence provides maximum comfort and reduces energy consumption.

* Available in auto fan mode

Room Temperature v.s. CFM



Home



Restaurant

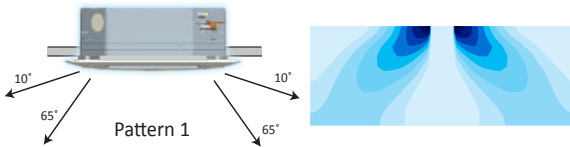
Multi Comfort - 3 Air Swing Pattern Control

To increase the comfort level of the air conditioned area of FWK-E series, the system had been built in with three different type of air flow pattern to suit different requirement.

* The default setting is pattern 1. The air swing pattern can be selected via wireless remonote control.

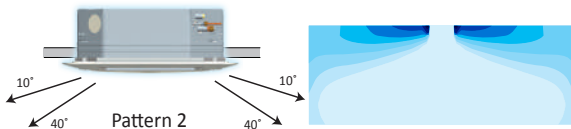
Standard Setting

Louver is set to swing at the maximum angle for gentle drafts.



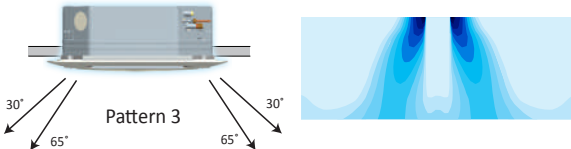
Draft Prevention Setting

With the aid of Coanda effect, direct draft which may lead to discomfort can be avoided.



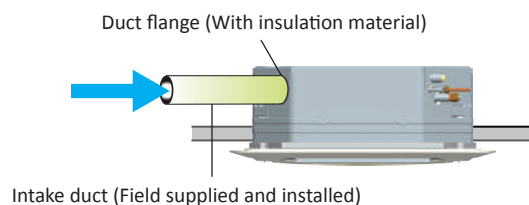
Soil Prevention Setting

Even distribution of cooling whilst ensuring ceiling to be kept spotless.



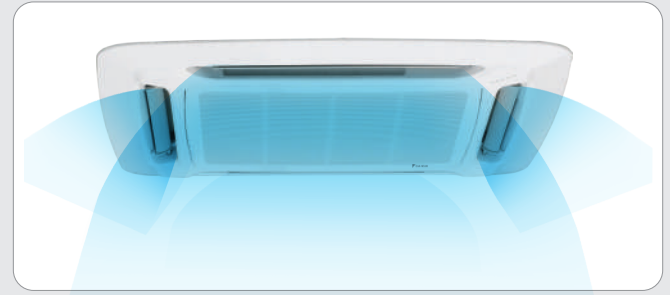
Fresh Air Intake

- Knock out hole is available at the unit.
- Installation & accessories need to be field supplied & installed.
- Keep the introduction of fresh air intake within 20% of the total air flow. Also provide a chamber and use a booster fan.



Optimum Air Discharge

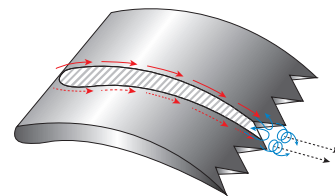
Combining 4 ways air discharge and large discharge area on each side, Ceiling Cassette promote even air distribution. The additional feature of automatic air swing helps to distribute the conditioned air more evenly to every corner of the room.



Superior Sound Level

With the adapted technology from Daikin turbo fan, Ceiling Cassette series is able to achieve exceptional low noise.

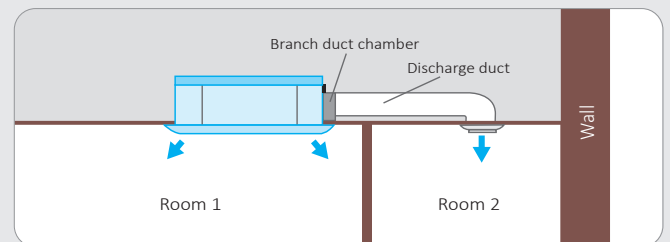
With up to 4 selected fan speeds, users are given more choices. By selecting the Quiet mode, the sound pressure level can be as low as 16dBA.



Longitudinal vortices generated along serration edges accelerate mixing turbulence which reduces vortex shedding noise.

Branch Duct Connection

Improves air flow distribution when there is an obstruction. It allows for air conditioning of two rooms simultaneously.



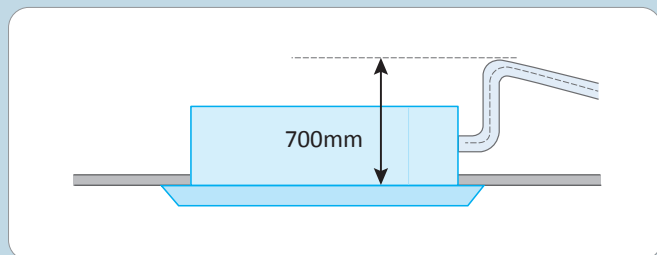
Low Height Design

Unit height as low as 265mm for installation convenience.



Built In High Head Drain Pump & Water Flow Switch

The unit comes with a 700mm built-in high head drain pump. A safety float is incorporated into the drain pump to monitor its water level.



Modern & Elegant Panel

It is designed with unique "round" side contour and new LED light location. The rotateable intake grill promotes uniform installation as well.



Low Water Pressure Drop

Also commonly known as low head loss actually helps to increase the system efficiency.

Self Diagnosis Features

This feature helps to detect any faults or malfunctioning in the system and provide user a warning by blinking of the LED lights.

Valve Or Valveless Control Options

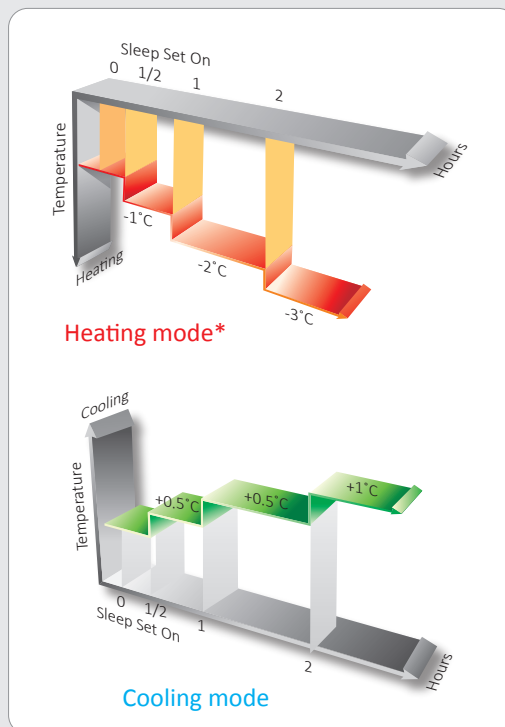
The design is flexible enough to allow for either valve or valveless control installation.

NIM-Able

Able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a system of multiple indoor units in a building.

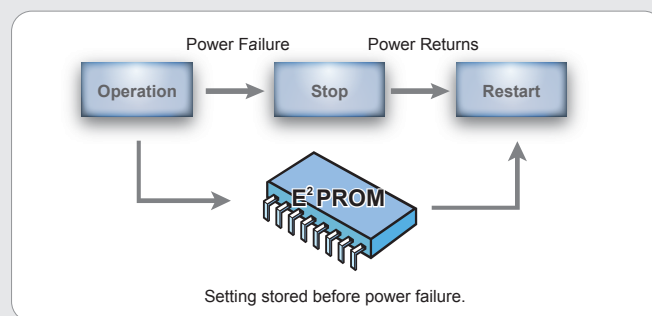
Sleep Function For Cool And Heat Mode

Once activated, set temperature will be increased / decreased gradually according to normal sleeping temperature patterns to ensure a comfortable sleeping environment.



Auto Restart With Last-State-Memory

In case of sudden power failure during operation, unit restarts automatically & unit will operate based on previous setting when power is resumed.



Choices Of Wired Or Wireless Remote Controller

Compact and user friendly wireless BRC52A and wired BRC51A

remote controller offer :

- Real Time Clock
- "Glow in the dark" ON/OFF Button
- Low, Medium, High fan speed options
- ON Timer Setting



Specification for Ceiling Cassette Type ~ 60Hz (2 Pipe System)

MODEL			FWKE05E				FWKE08E				FWKE11E						
			QUIET	LOW	MEDIUM	HIGH	QUIET	LOW	MEDIUM	HIGH	QUIET	LOW	MEDIUM	HIGH			
NOMINAL COOLING CAPACITY		Btu/h	8200	11900	15900	20100	15200	19800	24700	30000	21000	26800	33100	40100			
		W	2400	3500	4650	5900	4550	5800	7250	8800	6150	7850	9700	11750			
NOMINAL SENSIBLE COOLING CAPACITY		Btu/h	5800	8700	11700	15400	11000	14500	18500	21900	14600	18900	23800	28600			
		W	1710	2540	3440	4510	3220	4260	5410	6430	4270	5540	6970	8370			
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)		Btu/h	11300	15200	19800	24200	18400	23900	30400	38200	24100	31600	39100	46700			
		W	3300	4450	5800	7100	5400	7000	8900	11200	7050	9250	11450	13700			
FAN INPUT POWER		W	7	12	19	37	17	26	50	90	23	39	83	120			
NOMINAL RUNNING CURRENT		A	0.14	0.20	0.28	0.47	0.26	0.36	0.61	0.97	0.32	0.49	0.92	1.23			
POWER SOURCE		V/Ph/Hz	208-230 / 1 / 60														
REFRIGERANT TYPE			N/A														
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)													
		OPERATION		LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL													
	AIR FLOW		CFM	220	350	470	620	420	560	720	890	510	680	870	1060		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa	N/A													
	NOMINAL WATER FLOW RATE		USGPM	1.84	2.68	3.56	4.52	3.41	4.44	5.55	6.74	4.71	6.01	7.43	9.00		
			Litres/min	6.96	10.15	13.48	17.10	12.90	16.81	21.02	25.51	17.83	22.76	28.12	34.06		
	HEAD LOSS (COOLING)		kPa	5	10	15	24	7	9	14	20	15	22	30	41		
	HEAD LOSS (HEATING) : 50°C		kPa	4	8	13	21	5	8	12	18	12	20	26	37		
	MAX. WORKING PRESSURE		kPa	1608													
	SURFACE AIR VELOCITY		m/s	0.27	0.42	0.60	0.64	0.43	0.55	0.68	0.81	0.45	0.57	0.71	0.83		
	SOUND PRESSURE LEVEL		dB(A)	16	23	31	37	31	37	42	47	34	41	46	51		
	UNIT DIMENSION - () WITH PANEL		H X W X D	mm	265 X 820 X 820 (340 X 990 X 990)								300 X 820 X 820 (375 X 990 X 990)				
	PACKING DIMENSION - () PANEL		H X W X D	mm	341 X 916 X 916 (125 X 1020 X 1020)								376 X 916 X 916 (125 X 1020 X 1020)				
	UNIT WEIGHT		kg	26 + 4				28 + 4				32 + 4					
	CONDENSATE DRAIN SIZE		mm	19.05													
	PIPE CONNECTION		mm	19.05													
	FAN	TYPE		TURBO FAN													
		DRIVE		DIRECT													
		FAN SPEED		RPM	200	280	360	450	350	440	550	660	400	510	630	750	
	FAN MOTOR	TYPE		BLDC													
		INDEX OF PROTECTION (IP)		IP20				IP20				IP20					
		INSULATION GRADE		E				E				E					
		RATED RUNNING CURRENT		A	0.14	0.20	0.28	0.47	0.26	0.36	0.61	0.97	0.32	0.49	0.92	1.23	
		STARTING CURRENT		A	1.5				2.2				2.2				
		MOTOR OUTPUT		W	70				70				100				
		POLES		8				8				8					
	COIL	TUBE	MATERIAL		COPPER												
			DIAMETER		mm	7.00											
		FIN	MATERIAL		ALUMINUM												
			FACE AREA		m²	0.39				0.37				0.46			
			ROW		2				3				3				
		WATER VOLUME		Litre	1.36				1.97				2.35				
		AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER											
	QUANTITY			pc	1												
CASING		COLOUR	LIGHT GREY														

NOTE:

A) BASED ON EUROVENT CONDITIONS

B) ADDITIONAL 10W IS REQUIRED FOR CONDENSATE DRAIN PUMP

C) SOUND PRESSURE LEVEL IS TESTED AS PER JIS STANDARD AS BELOW:

FWKE05E MODEL - 1.4M BELOW THE FACE CENTER OF AIR RETURN OF THE UNIT

FWKE08/11E MODEL - 1.5M BELOW THE FACE CENTER OF AIR RETURN OF THE UNIT

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Specification for Ceiling Cassette Type ~ 60Hz (4 Pipe System)

MODEL			FWKE05EH				FWKE08EH				FWKE11EH							
			QUIET	LOW	MEDIUM	HIGH	QUIET	LOW	MEDIUM	HIGH	QUIET	LOW	MEDIUM	HIGH				
NOMINAL COOLING CAPACITY		Btu/h	6800	9600	12300	15000	13300	17100	20800	24600	17700	22200	26400	30700				
		W	2000	2800	3600	4400	3900	5000	6100	7200	5200	6500	7750	9000				
NOMINAL SENSIBLE COOLING CAPACITY		Btu/h	5300	7600	10200	13100	9900	13000	16600	19600	13300	16700	20700	24500				
		W	1560	2240	2990	3850	2910	3810	4850	5750	3890	4900	6060	7170				
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 70°C)		Btu/h	12800	17200	21700	26100	21800	27300	32800	38200	31900	39100	46200	53400				
		W	3750	5050	6350	7650	6400	8000	9600	11200	9350	11450	13550	15650				
FAN INPUT POWER		W	7	12	19	37	17	26	50	90	23	39	83	120				
NOMINAL RUNNING CURRENT		A	0.14	0.20	0.28	0.47	0.26	0.36	0.61	0.97	0.32	0.49	0.92	1.23				
POWER SOURCE		V/Ph/Hz	208-230 / 1 / 60															
REFRIGERANT TYPE			N/A															
INDOOR UNIT	CONTROL		AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)													
			OPERATION		LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL													
	AIR FLOW		CFM	220	350	470	620	420	560	720	890	510	680	870	1060			
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa	N/A														
	NOMINAL WATER FLOW RATE (COOLING)		USGPM	1.53	2.14	2.76	3.37	2.99	3.83	4.67	5.51	3.98	4.98	5.93	6.89			
			Litres/min	5.80	8.12	10.44	12.75	11.31	14.49	17.68	20.87	15.07	18.84	22.47	26.09			
	NOMINAL WATER FLOW RATE (HEATING)		USGPM	1.44	1.93	2.43	2.93	2.45	3.06	3.68	4.29	3.58	4.38	5.19	5.99			
			Litres/min	5.44	9.20	9.20	11.09	9.28	13.91	13.91	16.23	13.55	16.60	19.64	22.68			
	HEAD LOSS (COOLING)		kPa	5	9	13	18	6	10	15	19	12	19	24	32			
	HEAD LOSS (HEATING) : 70°C		kPa	7	10	17	22	13	18	25	32	21	30	39	52			
	MAX. WORKING PRESSURE		kPa	1608														
	SURFACE AIR VELOCITY		m/s	0.27	0.42	0.60	0.64	0.43	0.55	0.68	0.81	0.45	0.57	0.71	0.83			
	SOUND PRESSURE LEVEL		dBA	16	23	31	37	31	37	42	47	34	41	46	51			
	UNIT DIMENSION - () WITH PANEL		H X W X D	mm	265 X 820 X 820 (340 X 990 X 990)								300 X 820 X 820 (375 X 990 X 990)					
	PACKING DIMENSION - () PANEL		H X W X D	mm	341 X 916 X 916 (125 X 1020 X 1020)								376 X 916 X 916 (125 X 1020 X 1020)					
	UNIT WEIGHT		kg	26 + 4				28 + 4				32 + 4						
	CONDENSATE DRAIN SIZE		mm	19.05														
	PIPE CONNECTION		mm	19.05														
	FAN		TYPE		TURBO FAN													
			DRIVE		DIRECT													
			FAN SPEED		RPM	200	280	360	450	350	440	550	660	400	510	630	750	
	FAN MOTOR		TYPE		BLDC													
			INDEX OF PROTECTION (IP)		IP20				IP20				IP20					
			INSULATION GRADE		E				E				E					
			RATED RUNNING CURRENT		A	0.14	0.20	0.28	0.47	0.26	0.36	0.61	0.97	0.32	0.49	0.92	1.23	
			STARTING CURRENT		A	1.5				2.2				2.2				
			MOTOR OUTPUT		W	70				70				100				
			POLES		8				8				8					
COIL		TUBE		MATERIAL		COPPER												
				DIAMETER		mm	7.00											
		FIN		MATERIAL		ALUMINUM												
				FACE AREA		m²	0.39				0.37				0.46			
				ROW		2				3				3				
		WATER VOLUME		Litre	1.36				1.97				2.35					
AIR QUALITY		FILTER		TYPE		WASHABLE SARANET FILTER												
				QUANTITY		pc	1											
CASING		COLOUR	LIGHY GREY															

NOTE:

A) BASED ON EUROVENT CONDITIONS

B) ADDITIONAL 10W IS REQUIRED FOR CONDENSATE DRAIN PUMP

C) SOUND PRESSURE LEVEL IS TESTED AS PER JIS STANDARD AS BELOW:

FWKE05EH MODEL - 1.4M BELOW THE FACE CENTER OF AIR RETURN OF THE UNIT

FWKE08/11EH MODEL - 1.5M BELOW THE FACE CENTER OF AIR RETURN OF THE UNIT

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Ceiling Concealed Type



FWC-C



Wired Remote Controller
BRC51A

- › Excellent Air Distribution
- › Compact Design
- › High Capacity Range
- › High External Static Pressure Range
- › Double Protection Drainage
- › Easy To Service
- › Left/Right Piping Option
- › 4 Useable Fan Speed
- › Valve Or Valveless Control Options
- › Self Diagnosis Features
- › NIM-Able
- › Auto Restart With Last-State-Memory
- › Choices Of Wired Or Without Wired Controller



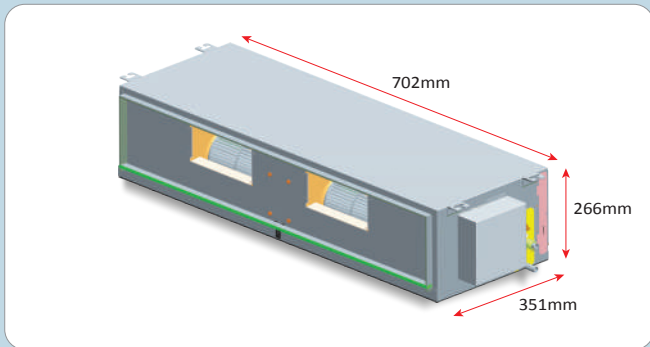
Excellent Air Distribution

The air can be distributed evenly to every corner of the room through ducting. This not only presents a comfortable environment, it also enables the installation of multiple area by using only one fan coil unit.



Compact Design

Unit height as low as 267mm for installation at limited ceiling space.



High Capacity Range

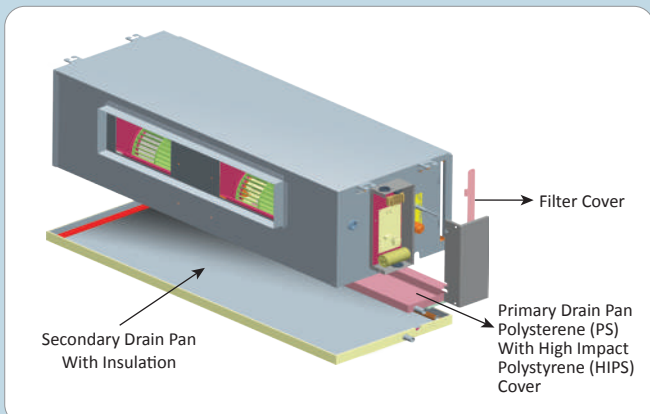
From 3kW to 16kW.

High External Static Pressure Range

Available up to 196Pa for high static application like the ducting application.

Double Protection Drainage System

There are primary and secondary drain pan from the standard model, which provide extra protection against condensed or water leaking possibilities.



Easy To Service

Direct access to control box at side panel and filter is accessible from side panel too.

Left / Right Piping option

For flexible installation and application at site

4 Useable Fan Speed

Each speed offers different external static pressure and air flow which enhances flexibility.

Valve Or Valveless Control Options

The design is flexible enough to allow for either valve or valveless control installation

Self Diagnosis Features

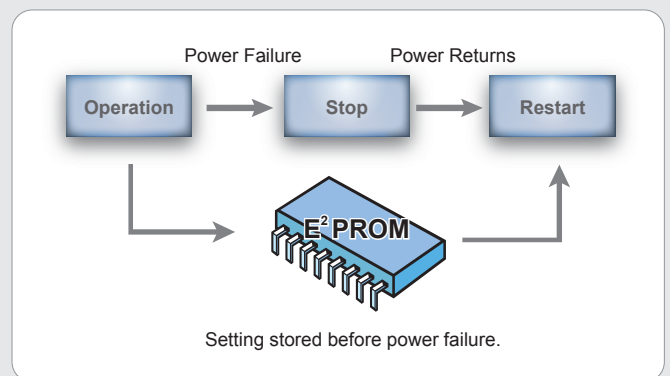
Ability to detect and diagnose faults and display as error code in the wired controller.

NIM-Able

Able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a system of multiple indoor units in a building

Auto Restart With Last-State-Memory

In case of sudden power failure during operation, unit restarts automatically & unit will operate based on previous setting



Choices Of With Or Without Wired Remote Controller

Compact and user friendly wired BRC51A remote controller offers:

- Real Time Clock
- "Glow in the dark" ON/OFF Button
- Low, Medium, High fan speed options
- ON Timer Setting



Wired Remote Controller
BRC51A

Specification for Ceiling Concealed Type ~ 60Hz

MODEL				FWC03C	FWC04C	FWC06C	FWC07C
NOMINAL COOLING CAPACITY			Btu/h	9900	11600	18000	22500
			W	2900	3400	5280	6590
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	7000	8120	12600	15750
			W	2050	2380	3690	4620
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	11500	15000	23000	29000
			W	3370	4400	6740	8500
NOMINAL TOTAL INPUT POWER			W	77	128	170	215
NOMINAL RUNNING CURRENT			A	0.35	0.58	0.79	0.98
POWER SOURCE			V/Ph/Hz	208-230 / 1 / 60			
REFRIGERANT TYPE				N/A			
CONTROL	AIR DISCHARGE			DUCTED			
	OPERATION			WIRED MICRO-COMPUTER REMOTE CONTROL			
AIR FLOW	HIGH	CFM	300	510	700	730	
	MEDIUM	CFM	265	440	650	640	
	LOW	CFM	220	360	490	550	
EXTERNAL STATIC PRESSURE		Pa	20 / 16 / 11	29 / 22 / 15	39 / 34 / 20	83 / 64 / 47	
NOMINAL WATER FLOW RATE		USGPM	2.20	2.60	4.05	5.06	
		litres/min	8.33	9.84	15.33	19.15	
HEAD LOSS (COOLING)		kPa	10.5	24.0	20.1	32.4	
HEAD LOSS (HEATING) : 50°C		kPa	8.8	20.3	17.0	27.6	
MAX. WORKING PRESSURE		kPa	1608				
SURFACE AIR VELOCITY		m/s	1.29	1.72	1.83	1.72	
SOUND PRESSURE LEVEL (H/M/L)		dBa	36 / 33 / 29	40 / 36 / 31	42 / 41 / 35	41 / 39 / 36	
UNIT DIMENSION	H X W X D	mm	267 x 702 x 351	267 x 842 x 351	267 x 1002 x 351	267 x 1137 x 351	
PACKING DIMENSION	H X W X D	mm	376 x 951 x 541	376 x 1091 x 541	376 x 1251 x 541	376 x 1386 x 541	
UNIT WEIGHT		kg	18	22	24	26	
CONDENSATE DRAIN SIZE		mm	19.05				
PIPE CONNECTION		mm	19.05				
FAN	TYPE		BLOWER				
	DRIVE		DIRECT				
	FAN SPEED	HIGH	RPM	1100	1320	1360	1520
		MEDIUM	RPM	950	1150	1250	1350
		LOW	RPM	800	940	980	1180
FAN MOTOR	TYPE		INDUCTION				
	INDEX OF PROTECTION (IP)		IP20				
	INSULATION GRADE		E				
	RATED INPUT POWER	HIGH	W	77	128	170	215
		MEDIUM	W	62	104	155	166
		LOW	W	44	75	110	138
	RATED RUNNING CURRENT	HIGH	A	0.35	0.58	0.79	0.98
		MEDIUM	A	0.28	0.48	0.72	0.76
		LOW	A	0.20	0.35	0.53	0.64
	STARTING CURRENT		A	0.40	0.81	1.13	1.53
MOTOR OUTPUT		W	30	50	80	100	
POLES		4					
COIL	TUBE	MATERIAL		COPPER			
		DIAMETER	mm	9.52			
	FIN	MATERIAL		ALUMINIUM			
		FACE AREA	m²	0.11	0.14	0.18	0.20
		ROW		3			
	WATER VOLUME		litre	0.94	1.15	1.43	1.63
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER			
		QUANTITY		pc	1		
CASING			COLOUR	N/A			

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
NOTE: ALSO AVAILABLE FOR LEFT/RIGHT PIPING AND WIRED/WITHOUT REMOTE CONTROL OPTION

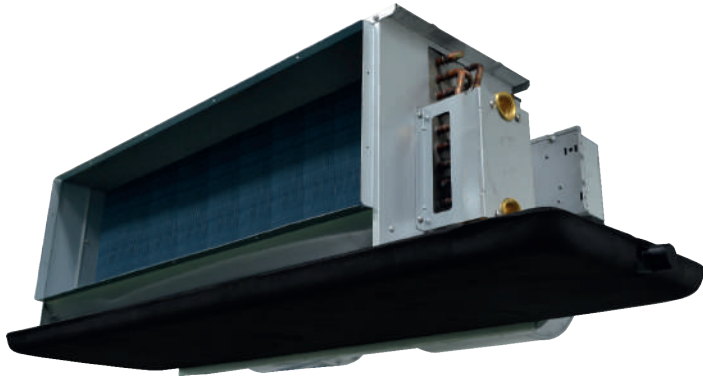
Specification for Ceiling Concealed Type ~ 60Hz

MODEL				FWC09C	FWC12C	FWC14C	FWC16C	
NOMINAL COOLING CAPACITY			Btu/h	24800	37000	44700	51800	
			W	7270	10840	13100	15180	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	19700	29300	35100	40900	
			W	5770	8590	10290	11990	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	32800	48000	54900	65300	
			W	9610	14070	16090	19140	
NOMINAL TOTAL INPUT POWER			W	592	618	684	780	
NOMINAL RUNNING CURRENT			A	2.70	2.80	3.12	3.55	
POWER SOURCE			V/Ph/Hz	208-230 / 1 / 60				
REFRIGERANT TYPE				N/A				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		DUCTED				
				WIRED MICRO-COMPUTER REMOTE CONTROL				
	AIR FLOW	HIGH	CFM	830	1240	1340	1550	
		MEDIUM	CFM	750	1060	1220	1460	
		LOW	CFM	660	930	1100	1340	
	EXTERNAL STATIC PRESSURE		Pa	167 / 137 / 108	152 / 111 / 85	186 / 155 / 126	196 / 174 / 147	
	NOMINAL WATER FLOW RATE		USGPM	5.55	8.28	10.04	11.62	
			litres/min	21.01	31.34	38.00	43.98	
	HEAD LOSS (COOLING)		kPa	14.0	23.0	38.0	51.0	
	HEAD LOSS (HEATING) : 50°C		kPa	11.0	19.0	33.0	48.0	
	MAX. WORKING PRESSURE		kPa	1608				
	SURFACE AIR VELOCITY		m/s	1.40	1.83	1.54	1.52	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	46 / 42 / 35	49 / 44 / 39	52 / 49 / 46	53 / 51 / 48	
	UNIT DIMENSION		H X W X D	mm	384 x 917 x 462	384 x 1003 x 462	384 x 1287 x 462	384 x 1487 x 462
	PACKING DIMENSION		H X W X D	mm	415 x 1126 x 631	415 x 1245 x 631	415 x 1497 x 631	415 x 1701 x 631
	UNIT WEIGHT			kg	42	44	50	56
	CONDENSATE DRAIN SIZE			mm	19.05			
	PIPE CONNECTION			mm	19.05			
	FAN	TYPE			BLOWER			
			DRIVE		DIRECT			
		FAN SPEED	HIGH	RPM	1240	1320	1390	1460
			MEDIUM	RPM	1110	1120	1270	1350
			LOW	RPM	1000	980	1140	1260
	FAN MOTOR	TYPE		INDUCTION				
INDEX OF PROTECTION (IP)		IP20						
INSULATION GRADE		B						
RATED INPUT POWER		HIGH	W	592	618	684	780	
		MEDIUM	W	439	476	563	684	
		LOW	W	350	383	471	595	
RATED RUNNING CURRENT		HIGH	A	2.70	2.80	3.12	3.55	
		MEDIUM	A	2.00	2.18	2.56	3.11	
		LOW	A	1.60	1.78	2.14	2.71	
STARTING CURRENT		A	4.25	3.65	4.12	5.14		
MOTOR OUTPUT		W	100	400	480	600		
POLES		4						
COIL	TUBE	MATERIAL		COPPER				
		DIAMETER	mm	9.52				
	FIN	MATERIAL		ALUMINIUM				
		FACE AREA	m²	0.28	0.32	0.41	0.48	
		ROW		3	3	3	3	
	WATER VOLUME		litre	2.21	2.60	3.33	3.80	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER				
		QUANTITY	pc	2				
CASING			COLOUR	N/A				

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	

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NOTE: ALSO AVAILABLE FOR LEFT/RIGHT PIPING AND WIRED/WITHOUT REMOTE CONTROL OPTION

Ceiling Concealed (60Hz)



FWC-G

- Standard Delta T=5°C Application
- Excellent Air Distribution
- Wide Range (300- 2000CFM)
- 3 Fan Speed (High, Medium, Low)
- Easy Installation & Serviceability
- Medium External Static Pressure (50-75Pa)
- Interchangeable Coil Direction
- Compact Design
 - Low Height
 - Short Length
- FCU Selection Software
- Flexibility & Options



Ceiling Concealed (60Hz)

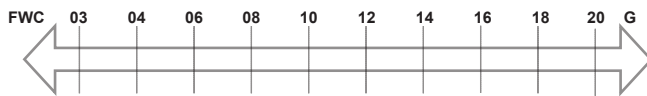
Excellent Air Distribution

The air can be distributed evenly to every corner of the room through ducting, enabling cooling/heating of multiple areas with one fan coil unit.



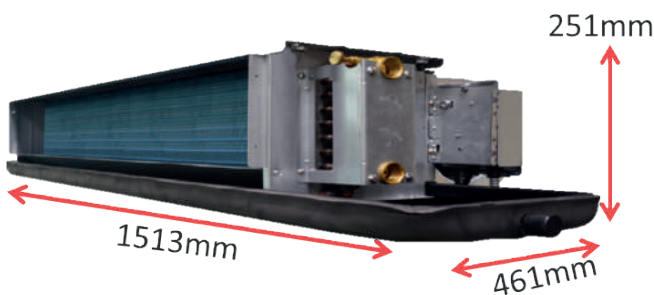
Wide Range (300-2000CFM)

A wide range of sizes provides versatility for FWC-G to spec in for different project requirements



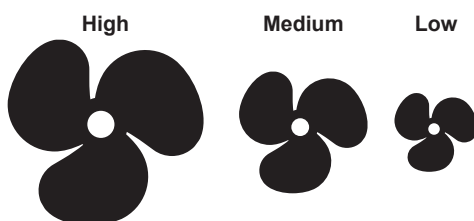
Compact Design 250mm

It provides flexibility for low ceiling height installations.



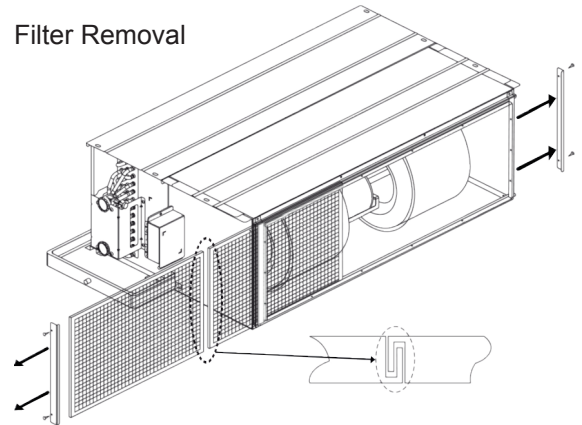
3 Fan Speeds (High, Medium, Low)

Three different fan speeds can be selected from FWC-G according to the external static pressure, airflow and sound level requirements.



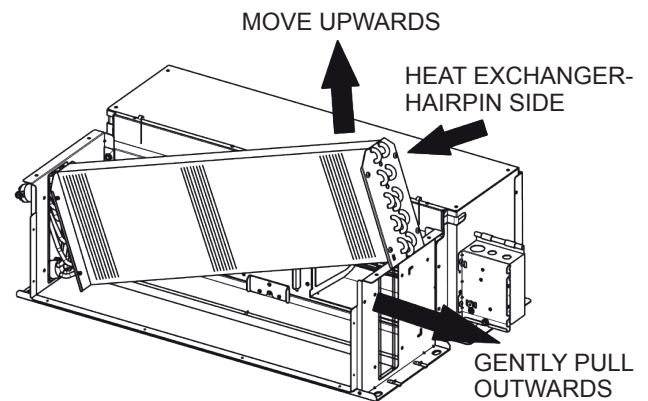
Easy Serviceability

Filter can be removed from sides easily.



Interchangeable Coil Direction

To match water connections on the field.



FCU Selection Software

Selection software allows convenience in obtaining FCU rating at specific design condition.

Flexibility & Options

- Piping: Left, Right
- Filter: Saranet, 8mm AI, 1"(nominal)AI, No filter
- Plenum: Without Rear Return Plenum, With Rear Return Plenum
- Insulation: PE, NBR
- Drain Pan Material: Galvanised Steel, Stainless Steel
- Drain Pan Length: Standard, Extended 100mm

Ceiling Concealed (60Hz)

Specification for ceiling concealed standard delta-T (Medium ESP)

Model			FWC03G	FWC04G	FWC06G	FWC08G	FWC10G		
Nominal cooling capacity			Btu/hr	9000	12000	18000	24000	30000	
			W	2640	3520	5280	7030	8790	
Nominal sensible cooling capacity			Btu/hr	7000	9700	14400	19100	23400	
			W	2050	2840	4220	5600	6860	
Nominal total input power			W	78	98	166	210	272	
Nominal running current			A	0.36	0.45	0.76	0.96	1.25	
Power source			V/Ph/Hz	208-230/1/60					
INDOOR UNIT	Control	Air discharge	Ducted						
		Operation	Without controller						
	Air flow (H/M/L)		CFM	300/220/150	400/305/200	600/500/385	800/650/465	1000/805/600	
	External static pressure (H/M/L)		Pa	50/32/15	50/32/15	50/35/20	50/33/17	50/33/18	
	Nominal water flow rate		USGPM	2.00	2.66	3.99	5.33	6.66	
			litres/min	7.57	10.09	15.13	20.18	25.22	
	Head loss (Cooling)		kPa	20	25	34	38	42	
	Max. working pressure		kPa	1608					
	Surface air velocity		m/s	1.17	1.56	1.99	1.69	2.11	
	Sound pressure level (H/M/L)		dBA	36/30/22	38/32/23	42/38/32	44/38/31	45/41/34	
	Unit dimension	H x W x D	mm	251x774x461	251x774x461	251x874x461	251x1264x461	251x1264x461	
	Packing dimension	H x W x D	mm	595x984x284	595x984x284	595x1084x284	595x1473x284	595x1473x284	
	Unit weight		kg	14.5	15	17.5	26	26	
	Condensate drain size		mm	19.05					
	Pipe connection		mm	19.05 BSPT FEMALE THREAD ADAPTOR					
	Fan	Type	Blower						
		Drive	Direct						
		Quantity	2		2	2	3	3	
		Fan speed (H/M/L)	RPM	1115/900/645	1235/990/715	1350/1170/935	1310/1080/830	1405/1190/930	
		Fan Efficiency (H/M/L)	%	35.9/37.0/38.7	36.3/36.0/37.0	33.5/33.9/35.4	39.0/39.9/40.4	36.0/38.6/39.6	
Fan motor	Type	PERMANENT SPLIT CAPACITOR (INDUCTION)							
	Index of protection (IP)	IP20							
	Insulation grade	B							
	Quantity	1		1	1	2	2		
	Rated input power (H/M/L)	W	78/50/28	98/68/36	166/131/93	210/154/100	272/210/151		
	Rated running current (H/M/L)	A	0.36/0.23/0.12	0.45/0.31/0.16	0.76/0.59/0.42	0.96/0.70/0.45	1.25/0.95/0.68		
	Starting current	A	0.43	0.59	1.12	1.27	1.72		
	Motor output	W	27	43	80	104	140		
	Motor Efficiency (H/M/L)	%	34.2/24.6/15.2	44.4/31.5/19.1	53.8/38.9/25.8	45.2/31.6/21.1	49.3/34.7/23.3		
Coil	Tube	Material	4						
		Diameter (mm)	Copper						
	Fin	Material	7.00						
		Face area (m²)	0.12	0.12	0.14	0.22	0.22		
		Row	Aluminium						
	Water volume	litre	0.45	0.45	0.62	0.90	1.04		
Air quality	Filter	Type	Option (washable saranet filter or aluminium mesh filter)						
	Quantity	pc	2	2	2	3	3		
Casing			Colour	Without paint					

Mode	Cooling (2 Pipe)
Entering air temperature	27°C DB / 19°C WB
Entering water temperature	7°C
Leaving water temperature	12°C

All specifications are subjected to change by the manufacturer without prior notice.

Ceiling Concealed (60Hz)

Specification for ceiling concealed standard delta-T (Medium ESP)

Model				FWC12G	FWC14G	FWC16G	FWC18G	FWC20G	
Nominal cooling capacity			Btu/hr	36000	42000	48000	54000	60000	
			W	10550	12310	14070	15830	17580	
Nominal sensible cooling capacity			Btu/hr	27900	33900	38200	43900	50000	
			W	8180	9940	11200	12870	14650	
Nominal total input power			W	324	504	694	716	855	
Nominal running current			A	1.49	2.29	3.16	3.24	3.90	
Power source			V/Ph/Hz	208-230/1/60					
INDOOR UNIT	Control	Air discharge		Ducted					
		Operation		Without controller					
	Air flow (H/M/L)		CFM	1200/975/810	1400/1130/825	1600/1300/905	1800/1445/1060	2000/1530/1075	
	External static pressure (H/M/L)		Pa	50/33/23	75/48/24	75/48/24	75/48/25	75/45/22	
	Nominal water flow rate		USGPM	7.99	9.32	10.65	11.98	13.31	
			litres/min	30.26	35.31	40.35	45.40	50.44	
	Head loss (Cooling)		kPa	38	31	27	33	32	
	Max. working pressure		kPa	1608					
	Surface air velocity		m/s	2.05	2.43	2.41	2.71	2.65	
	Sound pressure level (H/M/L)		dBA	45/41/38	48/44/36	49/45/38	50/46/40	51/47/39	
	Unit dimension	H x W x D	mm	251x1514x461	363x1116x660	363x1254x660	363x1254x660	363x1394x660	
	Packing dimension	H x W x D	mm	595x1724x284	760x1331x395	760x1469x395	760x1469x395	760x1609x395	
	Unit weight		kg	30	34	37	38	41	
	Condensate drain size		mm	19.05					
	Pipe connection		mm	19.05 BSPT FEMALE THREAD ADAPTOR	25.4 BSPT FEMALE THREAD ADAPTOR				
	Fan	Type		Blower					
		Drive		Direct					
		Quantity		4	2	2	2	2	
		Fan speed (H/M/L)		RPM	1320/1050/965	1065/875/675	1115/920/690	1210/1000/740	1220/1070/875
		Fan Efficiency (H/M/L)		%	32.9/30.1/33.4	37.6/38.6/42.7	31.7/35.0/41.0	33.6/34.5/36.9	32.4/40.3/46.4
Fan motor	Type		PERMANET SPLIT CAPACITOR (INDUCTION)						
	Index of protection (IP)		IP20						
	Insulation grade		B						
	Quantity		2	1	1	1	1		
	Rated input power (H/M/L)		W	324/252/202	504/366/215	694/474/269	716/532/334	855/567/318	
	Rated running current (H/M/L)		A	1.49/1.15/0.91	2.29/1.66/0.98	3.16/2.16/1.25	3.24/2.43/1.53	3.90/2.60/1.49	
	Starting current		A	1.90	3.00	4.30	4.52	6.43	
	Motor output		W	146	248	342	418	446	
			%	49.1/35.9/28.0	45.0/34.8/24.2	46.3/34.3/23.2	50.1/39.4/27.0	48.6/33.2/20.9	
Coil	Poles		4						
	Tube	Material	Copper						
		Diameter (mm)	7.00	9.52					
	Fin	Material	Aluminium						
		Face area (m²)	0.28	0.22	0.26	0.26	0.29		
	Row		3						
Water volume		litre	1.29	2.00	2.32	2.32	2.63		
Air quality	Filter	Type	OPTION (WASHABLE SARANET FILTER OR ALUMINIUM MESH FILTER)						
		Quantity	pc	4	2	3	3	3	
Casing			Colour	Without paint					

Mode	Cooling (2 Pipe)
Entering air temperature	27°C DB / 19°C WB
Entering water temperature	7°C
Leaving water temperature	12°C

All specifications are subjected to change by the manufacturer without prior notice.

Ducted Blower Type



FUD20/25B



FUD30B

- › Excellent Air Distribution
- › 4 Useable Fan Speed*
- › Easy To Service
- › Fire-Resistant Polysthylene Insulation
- › Left/Right Piping Option

- › Cabinet Construction
- › High External Static Pressure Range
- › Changeable Drive Package*
- › Convertible Air Throw Direction*
- › High CFM Range



Excellent Air Distribution

The air can be distributed evenly to every corner of the room through ducting. This not only presents a comfortable environment, it also enables the installation of multiple area by using only one fan coil unit.



4 Useable Fan Speed*

Each speed offers different external static pressure and air flow which enhances flexibility

*Only available for FUD20/25B

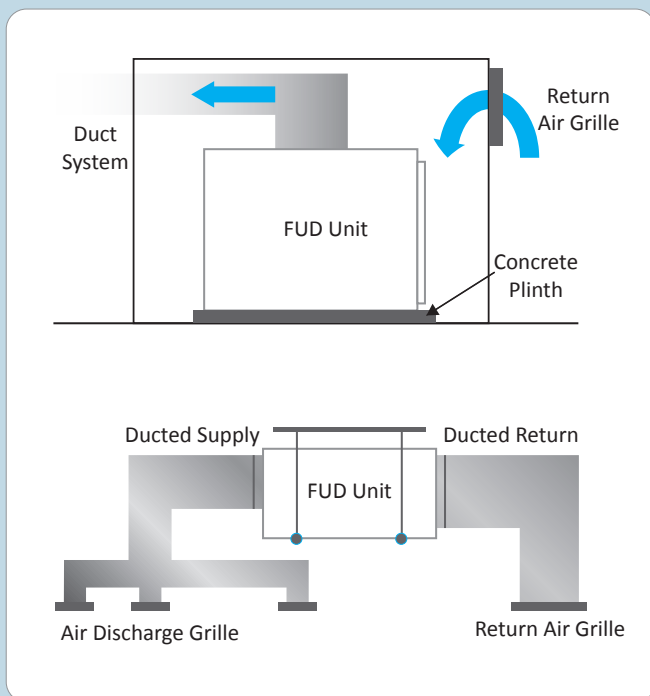
High CFM Range

From 20kW to 30kW and 2500CFM to 4200CFM.

Convertible Air Throw Direction*

Convertible discharge air direction (vertical or horizontal air throw) provides flexibility in installation at site

*Only available for FUD30B



High External Static Pressure Range

Available up to 230Pa for high static application like the ducting application

Cabinet Construction

It is coated with weatherproofed electro galvanized mild steel casing, with an epoxy is coated with an epoxy polyester powder costing for sever external conditions.

Service panel is available at the convenience side as well.

Left / Right Piping option

For flexible installation and application at site.

Fire-Resistant

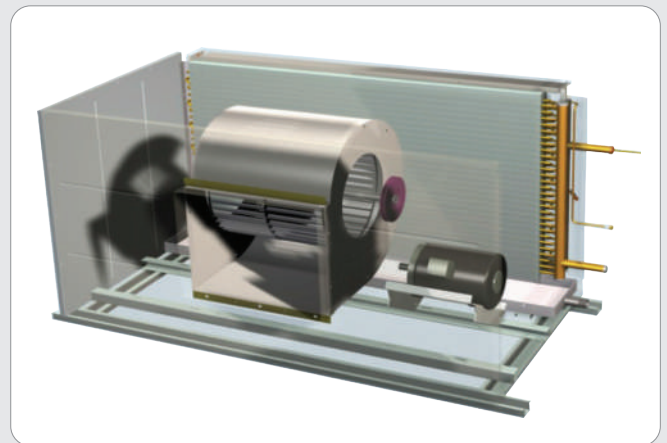
Polyethylene (PE) insulation is used at every possible condensate panel to prevent all forms of water or moisture penetration. Polyethylene, which is also a type of Closed Cell Foam (CCF) insulation has offered the following advantages:

- Durable external surface that resists tough dirt and resilient.
- Higher degree of puncture resistance when compared to fiberglass.
- Easily cleaned surface (if necessary) to further resist microbial growth.

Changable Drive Package*

Changeable belt driven package offers flexibility in customizing project based according to application

*Only available for FUD30B



Easy To Service

There is a service way allocated at the bottom for servicing available for FUD20/25B

Specification for Ducted Blower Type ~ 60Hz

MODEL				FUD20B	FUD25B	FUD30B
NOMINAL COOLING CAPACITY			Btu/h	75600	95000	125000
			W	22160	27840	36640
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	53700	69400	90000
			W	15740	20340	26380
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	78000	97500	138000
			W	22860	28580	40450
NOMINAL TOTAL INPUT POWER			W	1098	1396	1063
NOMINAL RUNNING CURRENT			A	5.16	7.04	4.90
POWER SOURCE			V/Ph/Hz	208-230 / 1 / 60		208-230 / 3 / 60
REFRIGERANT TYPE				N/A		
CONTROL	AIR DISCHARGE			DUCTED		
	OPERATION			WITHOUT CONTROLLER		
AIR FLOW	HIGH	CFM	2500	3200	4200	
	MEDIUM	CFM	2100	3000	N/A	
	LOW	CFM	1750	2800	N/A	
EXTERNAL STATIC PRESSURE		Pa	100 / 72 / 50	100 / 80 / 60	230	
NOMINAL WATER FLOW RATE		USGPM	16.90	21.10	27.70	
		litres/min	64.00	80.00	105.00	
HEAD LOSS (COOLING)		kPa	34.5	42.0	48.8	
HEAD LOSS (HEATING) : 50°C		kPa	32.9	27.4	31.5	
MAX. WORKING PRESSURE		kPa	1608			
SURFACE AIR VELOCITY		m/s	2.19	2.80	1.96	
SOUND PRESSURE LEVEL		dBA	50/46/42	54/52/50	58	
UNIT DIMENSION	H X W X D	mm	572 x 1402 x 605		885 x 1540 x 850	
PACKING DIMENSION	H X W X D	mm	762 x 1605 x 880		1154 x 1787 x 1188	
UNIT WEIGHT		kg	92	102	176	
CONDENSATE DRAIN SIZE		mm	19.05			
PIPE CONNECTION		mm	28.58			
FAN	TYPE		BLOWER			
	DRIVE		DIRECT		BELT	
	FAN SPEED	HIGH	RPM	835	950	707
		MEDIUM	RPM	720	885	N/A
		LOW	RPM	615	805	N/A
FAN MOTOR	TYPE		INDUCTION			
	INDEX OF PROTECTION (IP)		IP20		IP55	
	INSULATION GRADE		F	B	F	
	RATED INPUT POWER	HIGH	W	1060	1351	1707
		MEDIUM	W	810	1082	N/A
		LOW	W	643	964	N/A
	RATED RUNNING CURRENT	HIGH	A	4.80	6.16	6.25
		MEDIUM	A	3.77	5.02	N/A
		LOW	A	3.05	4.54	N/A
	STARTING CURRENT		A	3.23	5.10	7 - 56.28
MOTOR OUTPUT		W	375	500	2200	
POLES			6	6	4	
COIL	TUBE	MATERIAL		COPPER		
		DIAMETER	mm	9.53		
	FIN	MATERIAL		ALUMINIUM		
		FACE AREA	m²	0.54	0.54	1.01
		ROW		3	4	3
	WATER VOLUME		litre	4.53	6.27	8.14
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		AAF R29
		QUANTITY	pc	2		3
CASING			COLOUR	IVORY WHITE		

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System)
LEAVING WATER TEMPERATURE	12°C	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
NOTE: ALSO AVAILABLE FOR LEFT/RIGHT PIPING.

Standard Features

COMFORT.....



Turbo Mode- Rapid cooling/heating with highest fan speed for immediate comfort



Quiet Mode- Effective cooling with lower noise level



Dry Mode- Keeping the room dehumidified, while maintaining room temperature



Auto Mode- Auto switching between cooling and heating mode depending on room and set temperature



Sleep Mode

AIR FLOW.....



Selectable Fan Speed- Different fan speed is available for comfort selection



Belt Driven Evaporator Motor



Variable Pitch Pulley Drive Package



Automatic Vertical Swing- Automatic movement of air discharge louver for uniform air distribution



Manual Horizontal Air Flow- Adjustable horizontal discharge grille for desired air flow direction



4 Way Air Discharge

IAQ.....



Washable Saranet Filter- Removal of airborne dust particles through saranet filter ensures cleaner air supply



Titanium Apatite Photocatalytic Air-Purifying Filter



Bio Antibody Filter



Ionizer

FIN TYPE.....



Bare Aluminium Fin



Anti Corrosion Hydrophilic Gold Fin

The outdoor models in the catalog comes with bare / blue fin condenser. For gold fin outdoor models, specification remains the same with the below model name change : eg :

RYN25CXV1 to RYN25CGXV1 "G" comes after the series name of the outdoor.

CONTROLLER.....



With Wireless Remote Controller



With Wired Remote Controller

POWER SUPPLY.....



Power from Indoor



Power from Outdoor

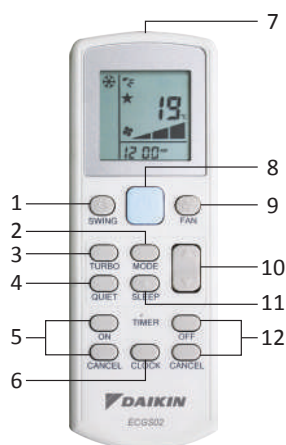
Controller

BRC52A

BRC52A61 – Heatpump with auto mode

BRC52A62 – Cooling only

BRC52A63 - Heatpump



1. Vertical Automatic Air Swing
2. Selectable Mode:
Auto Mode, Cooling , Heating, Dry, Fan
3. Turbo Function
4. Quiet Function
5. ON Timer Setting
6. Real Time Clock
7. Transmission Source
8. "Glow in the dark" ON/OFF Button
9. Fan Speed Selection: Low, Med, High, Auto
10. Temperature Setting: Up & Down
11. Sleep Mode Function
12. OFF Timer Setting

BRC51A

BRC51A61 – Heatpump with auto mode




BRC51A62 – Cooling only



Features:

- Cool/Heat/Fan/Dry/Auto mode
- Auto/High/Med/Low fan speed
- Temperature operate in °C and °F
- Turbo and Quiet Function
- Sleep function
- Swing function
- Real time clock and day display
- 7-days programmable timer
- Error indicator
- Key lock and fan lock features
- Batteries backup and retain setting during power failure
- Last state memory (Memory backup setting from main board)
- Delay Timer (1 or 2 hours)
- Interaction with Wireless Handset (BRC52A61/BRC52A62)

Supported Configuration

	Master	Slave
BRC51A		
BRC52A	—	

Communication Bus

A 2-way twisted pair cable is used as the communication bus. Recommended cable for communication bus is a pair of screened & shielded, twisted single core wire with core diameter of 0.5mm to 1.0mm.

Connection	Recommended Maximum Cable Length (m)
First NIM to the furthest connected NIM	1000
NIM to Main Board	10
NIM to Wired Controller	10

Connection

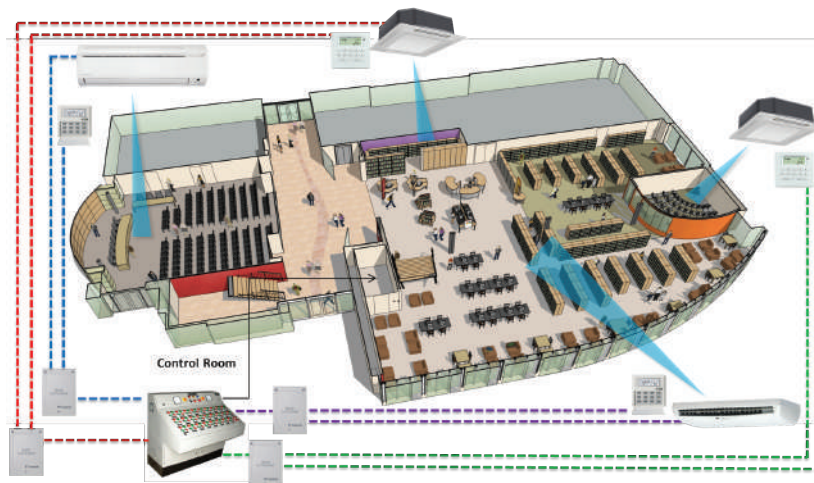
The communication bus must be connected serially to the adjacent NIM. (Daisy chain connection). The same polarity has to be connected between the NIMs (A to A, B to B).

BMS Gateway(BAG)

BAG provides a cost-effective way to control and monitor Daikin Malaysia Units through long distance Building Management System (BMS)

Advantages

- Short installation time
- Simple setup and convenient operation
- Do not require highly trained installer operator
- Eliminate nuisance of handset setting being change by the public



	BMS Control Funtions	Inputs Controls	Applications
Inputs	Force OFF*	Off / Unchanged	Smoke alarm system
	On / Off	On / Off	On / Off units from long disntance control room
	Mode	Heat / Cool	Mode control from long distance control room
	Fan Speed**	High / Low	Fan speed control from long distance control room
Resistance Inputs	Set Temperature	16°C to 30°C	Temperature setting from long distance control room
Resistance Inputs	On / Off Indication	On / Off	To indicate and monitor unit operation status and functionality from long distance control room
	Fault Indication	Alarm / Normal	
	Heat / Cool Indication	Heat, or Cool / Fan Dry	

* Normally-Closed type Contact.

** Fan Speed Control is only applicable for units with multiple fan speed.

Warning

- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product 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.

Caution**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.

Dealer**DAIKIN REFRIGERATION MALAYSIA SDN. BHD.**
(formerly known as J & E Hall Refrigeration Sdn. Bhd.)

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