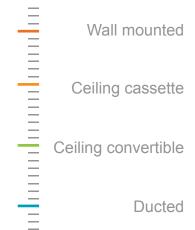
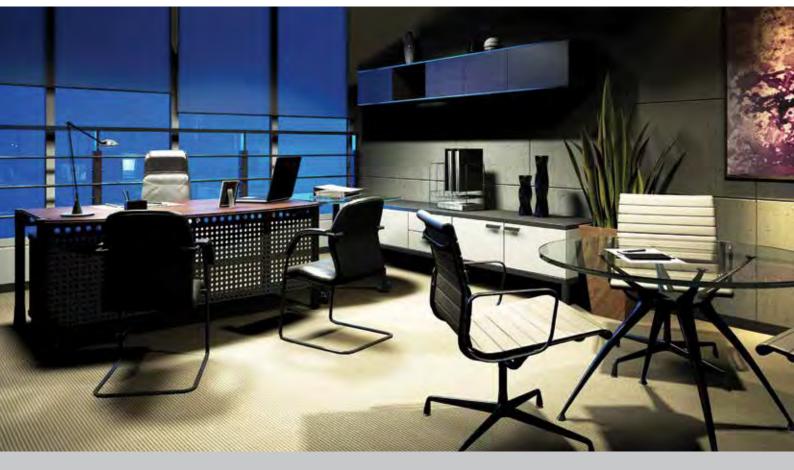


#### PCXCMT1601A



# Chilled Water Fan Coil Unit Product Catalogue



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## Wall Mounted



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## **Ceiling Cassette**









\*with brushless DC motor

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## **Ceiling Convertible**









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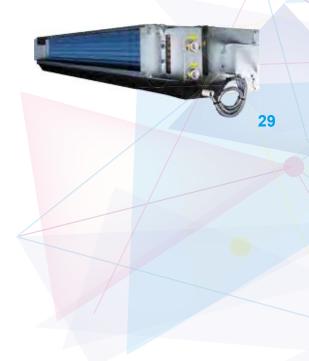
## **Ceiling Concealed**



25

## **Ducted Blower**





# **PRODUCTS OVERVIEW**

Cooling Co	nacity	kW								
Cooling Ca	распу	0	5	10	15	20	25	30	35	40
FWW-L		2/3/4	/5/6							
FWF-C		2/4/	5							
FWK-E/ FWKE-E/ FWKE-EH			5/6/8/9	(11/13						
FWE-E			5/6/7/8/1	0/12						
FWE-D			7/	9/13						
FWC-C		3/4	4/6/7/9/1	1/12/14/	16					
FWC-FD		2/2.5 /4/5/	5/3.5 /7/8							
FUD-B							20/2	5/30/4	0	



## Wall Mounted (50Hz)



FWW-L





Wireless controller BRC52A

Wired controller BRC51A (optional)

- · Comfortable air flow and lower sound level
- Uniform air distribution
- •
- •
- Stylish flat-panel, easy maintenance Quiet mode, turbo mode Sleep function in cool and heat modes Auto restart with last-state-memory Valve or valveless control options Self-diagnosis features •
- •
- •
- •
- Compact and easy-to-use wireless controller NIM-abled ٠
- •



#### Comfortable air flow and 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 airflow and unnoticeable sound level change during fan speed change.



#### Stylish Flat-Panel

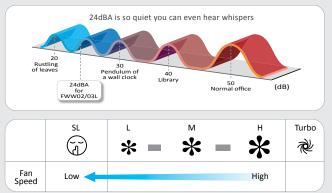
Ideal blend of style and functionality.

- 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

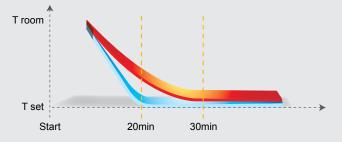
More quiet room environment.

- 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 unobtrusive 24 dBA.
- To quickly cool down the room, Turbo mode can be selected for maximum cooling power and highest airflow.



#### Turbo Mode

Turbo function is available in Cool and Heat modes only. Once it is activated, the air-conditioner will run on full power with indoor fan running at maximum 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.



#### Self Diagnosis Features

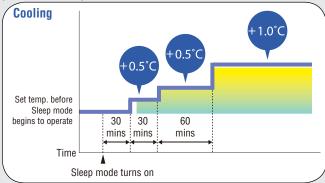
This feature helps to detect any faults or malfunctioning in the system and provide user a warning by blinking of the LED lights.

#### **Easy Maintenance**

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

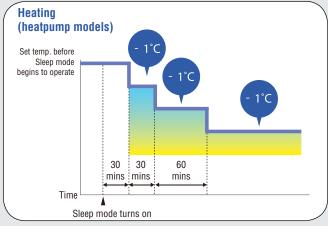
#### **Sleep Mode**

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling/heating for a pleasant sleep.



#### Cooling operation:

After 30 minutes, room temperature is raised by 0.5°C.
 After 60 minutes, room temperature is raised by 0.5°C.
 After 120 minutes, room temperature is raised by 1°C.

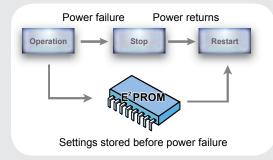


#### Heating operation:

After 30 minutes, room temperature is reduced by 1°C.
 After 60 minutes, room temperature is reduced by 1°C.
 After 120 minutes, room temperature is reduced by 1°C.

#### Auto Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



#### **Uniform Air Distribution**

Automated air swing ensures conditioned air distributed evenly.

**Compact and Easy-to-use Wireless Controller** Wireless controller BRC52A comes as standard.

#### Specification for wall mounted

nd	oor model name			FWW02L	FWW03L	FWW04L	FWW05L	FWW06L					
Nom	inal cooling capacity		Btu/hr	8300	9200	11300	15500	18000					
			W	2430	2700	3310	4540	5280					
lom	inal sensible cooling capacity		Btu/hr	6300	6900	9000	11700	14000					
			W	1850	2020	2640	3430	4100					
	ninal heating capacity		Btu/hr	11000	12000	15000	20500	25000					
ente	ering water temperature: 50°C)		W	3220	3520	4400	6010	7330					
lom	ninal total input power		W	31	32	42	53	72					
om	inal running current		Α	0.19	0.20	0.21	0.29	0.34					
ow	er source		V/Ph/Hz			220-240 / 1 / 50							
	Control	Air discharge			A	utomatic louver (up & dow	/n)						
		Operation			LCD wire	less micro-computer remo	ote control						
	Airflow (H/M/L/Q)		cfm	260 / 230 / 200 / 180	280 / 250 / 220 / 190	370 / 320 / 260 / 240	510 / 450 / 390 / 360	620 / 520 / 460 / 44					
	Nominal water flow rate		USGPM	1.85	2.03	2.51	3.43	4.01					
			liters/min	7.00	7.68	9.50	13.00	15.18					
	Head loss (Cooling)	Head loss (Cooling)		34	24	31	30	36					
	Head loss (Heating): 50°C		kPa	29	20	25	27	33					
	Max. working pressure		kPa			1608	1						
	Surface air velocity		m/s	0.68	0.74	0.97	0.83	1.01					
	Sound pressure level (H/M/L	/Q)	dBA	34 / 29 / 25 / 24	35 / 30 / 25 / 24	42 / 39 / 32 / 29	42 / 38 / 34 / 32	46 / 42 / 39 / 37					
F	Unit dimension (HxWxD)		mm		288 x 800 x 206		310 x 10	065 x 224					
	Packing dimension (HxWxD)		mm		344 x 874 x 274		386 x 11	36 x 314					
	Unit weight	Unit weight			9		1	4					
	Condensate drain size	Condensate drain size				19.05							
	Pipe connection mm				12.7	0 BSP female thread ada	aptor						
	Fan	Туре		Cross flow fan									
		Drive			Direct								
Indoor		Fan speed (H/M/L) rpm		1030 / 890 / 760	1050 / 910 / 780	1310 / 1150 / 955	1035 / 920 / 825	1250 / 1070 / 970					
	Fan motor	Туре		Single phase SCR									
		Index of Protection (IP)			P44								
		Insulation grade				Е							
		Rated input power	W	31 /29 / 25	32 / 31 / 29	42 / 37 / 33	53 / 47 / 42	72 / 68 / 60					
		Rated running current	A	0.19 / 0.18 / 0.17	0.20 / 0.20 / 0.19	0.21 / 0.20 / 0.19	0.29 / 0.26 / 0.25	0.34 / 0.32 / 0.31					
		Starting current	A	0.40	0.40	0.40	0.30	0.43					
		Motor output	W	18	18	18	26	30					
		Poles				4							
	Coil	Tube	Material			Copper							
			Diameter (mm)			7.00							
		Fin	Material			Aluminium							
			Face area (m <sup>2</sup> )		0.18		0.	29					
			Row	2									
		Water volume	liter	0.52	0.58	0.58	0.95	0.95					
	Air quality	Filter type				Washable saranet filter							
		Filter quantity	рс			2							
	Casing					White							

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system)
Leaving water temperature	12°C	





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Wireless controller BRC52A

Wired controller BRC51A

- Compact design
  Fresh air intake
  Stylish and slim panel
  Built-in high head drain pump and water flow switch
  4-way air discharge and air swing
  Sleep function in cool and heat modes
  Branch duct connection
  Auto restart with last-state-memory
  Valve or valveless control options
  Self-diagnosis features
  Choices of wired or wireless controller
  NIM-abled

- NIM-abled



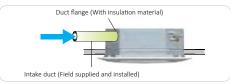
#### **Compact Design**

Ceiling Cassette C Series body dimension is only 570 mm x 570 mm which can easily fits into a 600 mm ceiling grid.



#### Fresh Air Intake

- Knock out hole is available at the unit.
- Installation and accessories such as booster fan is field supplied and installed.
- · Fresh air intake is within 20% of the total air flow.

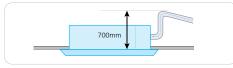


#### Stylish & Slim Panel

The slim panel can be blended easily into decoration and interior design.

#### Built In High Head Drain Pump & Water Flow Switch

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



#### 4-Way Air Discharge and Air Swing

It comes with 4-way air discharge and air swing function to ensure better air distribution and circulation in the room.

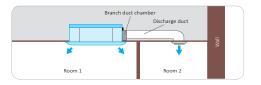


#### Self Diagnosis Features

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

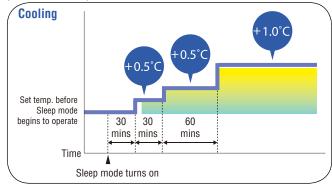
#### **Branch Duct Connection**

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



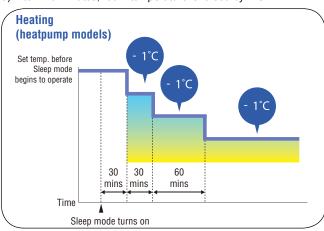
#### **Sleep Mode**

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling/heating for a pleasant sleep.



#### Cooling operation:

After 30 minutes, room temperature is raised by 0.5°C.
 After 60 minutes, room temperature is raised by 0.5°C.
 After 120 minutes, room temperature is raised by 1°C.



Heating operation:

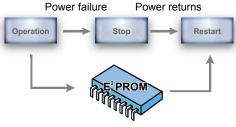
1) After 30 minutes, room temperature is reduced by 1°C.

2) After 60 minutes, room temperature is reduced by 1°C.

3) After 120 minutes, room temperature is reduced by 1°C.

#### Auto Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



Settings stored before power failure

#### Valve or Valveless Control Options

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

Choices of Wired or Wireless Controller Choices of wired BRC51A or wireless BRC52A.

#### Specification for ceiling cassette compact

Inde	oor model name			FWF02C	FWF04C	FWF05C				
Nom	inal cooling capacity		Btu/hr	8500	14000	15500				
			W	2490	4100	4540				
lom	inal sensible cooling capacity		Btu/hr	6500	10000	11500				
			W	1910	2930	3370				
	inal heating capacity		Btu/hr	12000	16000	18000				
ente	ering water temperature: 50°C)		W	3520	4690	5280				
lom	inal total input power		W	63	64	79				
lom	inal running current		A	0.28	0.28 0.28					
owe	er source		V/Ph/Hz		220-240 / 1 / 50					
	Control	Air discharge			4-way automatic louver (up & down)					
		Operation		LC	D wireless micro-computer remote contr	rol				
	Airflow (H/M/L)		cfm	380 / 290 / 230	400 / 310 / 220	440 / 330 / 280				
	Nominal water flow rate		USGPM	2.03	3.43	3.57				
			liters/min	7.68	12.98	13.51				
	Head loss (Cooling)		kPa	19.3	26.9	28.8				
	Head loss (Heating): 50°C		kPa	16.8	23.9	26.5				
	Max. working pressure		kPa		1608					
S U P U	Surface air velocity		m/s	0.74	0.74	0.82				
	Sound pressure level (H/M/L)		dBA	42 / 35 / 29	45 / 38 / 30	48 / 40 / 36				
	Unit dimension (Unit dimension	on with panel) (HxWxD)	mm		250 X 570 X 570 (295 X 640 X 640)					
	Packing dimension (Panel dir	mension) (HxWxD)	mm		316 X 630 X 630 (126 X 700 X 726)					
	Unit weight + panel weight		kg	15 + 3	17 -	+ 3				
	Condensate drain size	Condensate drain size			19.05					
	Pipe connection		mm		19.05 BSP female thread adaptor					
	Fan	Туре		Turbo fan						
5		Drive		Direct						
bb		Fan speed (H/M/L)	rpm	725 / 565 / 460	810 / 630 / 480	900 / 700 / 610				
_	Fan motor	Туре		Permanent split capacitor (Induction)						
Nomina Nomina Nomina Nomina Power		Index of Protection (IP)		IP20						
		Insulation grade			В					
		Rated input power (H/M/L)	W	63 / 51 / 46	64 / 58 / 52	79 / 73 / 69				
		Rated running current (H/M/L)	A	0.28 / 0.23 / 0.21	0.28 / 0.25 / 0.24	0.35 / 0.32 / 0.31				
		Starting current	A	0.32	0.3	0.47				
I I I I I I I I I I I I I I I I I I I		Motor output	W	17	23	28				
		Poles			6					
	Coil	Tube	Material		Copper					
			Diameter (mm)		7.00					
		Fin	Material		Aluminium					
			Face area (m <sup>2</sup> )	0.24	0.2					
			Row	1	2					
		Water volume	liter	0.43	0.6	33				
	Air quality	Filter type			Washable saranet filter					
		Filter quantity	рс	1						
	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-pipe system)
Leaving water temperature	12°C	



FWK-E

- Multi comfort 3 air swing pattern control
  Fresh air intake

- ٠
- •
- •
- Fresh air intake Optimum air discharge Superior sound level Branch duct connection Low height design Built-in high head drain pump and water flow switch Modern and elegant panel Low water pressure drop Sleep function in cool and heat modes Auto restart with last-state-memory Valve or valveless control options Self-diagnosis features Choices of wired or wireless controller •
- •
- ٠
- •
- ٠
- •
- Choices of wired or wireless controller •
- NIM-abled •
- 4-pipe system availability\* •





Wireless controller BRC52A

Wired controller BRC51A



## Ceiling Cassette 3x3 (50Hz)

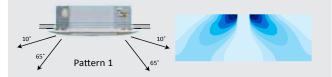
#### Multi Comfort - 3 Air Swing Pattern Control

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

\* The default setting is pattern 1. The air swing pattern can be selected via wireless controller.

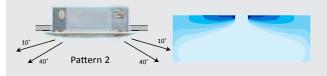
#### Standard Setting

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



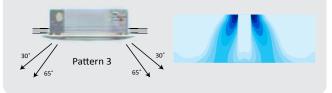
#### **Draft Prevention Setting**

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



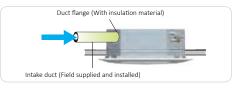
#### Soil Prevention Setting

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



#### Fresh Air Intake

- Knock out hole is available at the unit.
- Installation and accessories such as booster fan is field supplied and installed.
- Fresh air intake is within 20% of the total air flow.



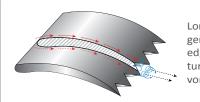
#### **Optimum Air Discharge and Air Swing**

Combining 4-way air discharge and large discharge area on each side, the ceiling cassette promotes uniform air distribution. The additional feature of automatic air swing helps to distribute the conditioned air evenly to every corners of the room.



#### **Superior Sound Level**

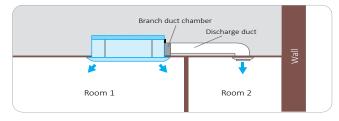
The ceiling cassette series is able to achieve exceptional low noise by adaption of Daikin's turbo fan technology. With 4 selectable fan speeds, users are given more choices. In Quiet mode, the sound pressure level can be as low as 23dBA.



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.



#### Modern & Elegant Panel

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



Built In High Head Drain Pump & Water Flow Switch The unit comes with a 700 mm built-in high head drain pump. A safety float is incorporated in the drain pump to monitor its water level.



#### 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

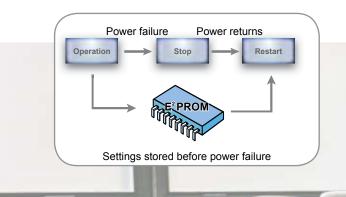
Able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a system of multiple indoor units in a building.

#### Choices of Wired or Wireless Controller

Choices of wired BRC51A or wireless BRC52A.

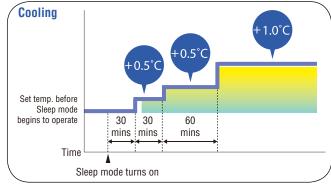
#### Auto Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



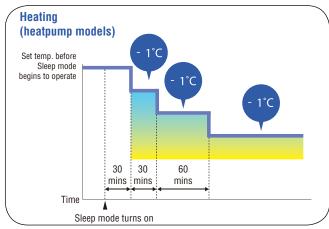
#### Sleep Mode

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling/heating for a pleasant sleep.



#### Cooling operation:

After 30 minutes, room temperature is raised by 0.5°C.
 After 60 minutes, room temperature is raised by 0.5°C.
 After 120 minutes, room temperature is raised by 1°C.



Heating operation:

1) After 30 minutes, room temperature is reduced by 1°C.

2) After 60 minutes, room temperature is reduced by 1°C.

3) After 120 minutes, room temperature is reduced by 1°C.

#### 4-Pipe System Availability\*

The 4-pipe system features a distribution system that contains both hot water supply (with return lines) and chilled water supply (with return lines). \* FWK-EH model

## Specification for ceiling cassette (2-pipe system)

Inde	oor model name			FWK06E	FWK08E	FWK09E	FWK11E	FWK13E					
Nom	inal cooling capacity		Btu/hr	21000	25000	30000	38000	43000					
			W	6150	7330	8790	11140	12600					
Nom	inal sensible cooling capacity		Btu/hr	16700	19200	22300	27400	31000					
			W	4890	5630	6540	8030	9090					
lom	inal heating capacity		Btu/hr	28000	33600	38300	45500	52000					
ente	ering water temperature: 50°C)	1	W	8210	9850	11230	13340	15240					
lom	inal total input power		W	95	126	167	186	227					
lom	inal running current		А	0.44	0.55	0.74	0.85	1.03					
ow	er source		V/Ph/Hz	220-240 / 1 / 50									
	Control	Air discharge		4-way automatic louver (up & down)									
		Operation			LCD wirel	ess micro-computer rem	ote control						
	Airflow (H/M/L/Q)		cfm	750 / 620 / 480 / 320	860 / 700 / 540 / 380	890 / 720 / 570 / 420	1000 / 840 / 680 / 540	1140 / 1000 / 840 / 7					
	Nominal water flow rate		USGPM	4.71	5.59	6.69	8.45	9.60					
			liters/min	17.83	21.17	25.29	31.94	36.29					
	Head loss (Cooling)		kPa	20	37	22	44	53					
	Head loss (Heating): 50°C		kPa	19	33	19	38	47					
	Max. working pressure		kPa		1	1608		1					
	Surface air velocity		m/s	0.92	1.05	1.13	1.02	1.17					
	Sound pressure level (H/M/L	./Q)	dBA	42 / 38 / 32 / 23	46 / 42 / 35 / 27	48 / 43 / 38 / 30	50 / 47 / 43 / 33	52 / 49 / 45 / 39					
F	Unit dimension (Unit dimens		mm	265 2		K 990)	300 X 820 X 820	(375 X 990 X 990)					
	Packing dimension (Panel d		mm		916 X 916 (125 X 1020 )			(125 X 1020 X 1020)					
	Unit weight + panel weight		kg		+ 4	28 + 4		+ 4					
	Condensate drain size		mm		•	19.05		· ·					
	Pipe connection		mm		19.0	5 BSP female thread ada	aptor						
	Fan	Туре		Turbo fan									
		Drive											
Indoor		Fan speed (H/M/L)	rpm	530 / 450 / 360	600 / 500 / 400	Direct 660 / 550 / 450	710 / 610 / 510	800 / 710 / 610					
Ĕ	Fan motor		ipin		00071107010								
		Index of Protection (IP)				anent split capacitor (Indu IP20							
		Insulation grade		B									
		Rated input power (H/M/L)	W	95 / 79 / 67	126 / 103 / 89	167 / 109 / 86	186 / 151 / 118	227 / 176 / 144					
		Rated running current (H/M/L)	A	0.44 / 0.40 / 0.36	0.55 / 0.45 / 0.39	0.74 / 0.49 / 0.39	0.85 / 0.71 / 0.57	1.03 / 0.82 / 0.69					
		Starting current	A	0.44	0.71	0.89	1.02	1.28					
		Motor output	W	30	45	65	80	110					
		Poles			8			6					
	Coil	Tube	Material		•	Copper		<b>.</b>					
		1000	Diameter (mm)			7.00							
		Fin	Material			Aluminium							
			Face area (m <sup>2</sup> )	٥	39	0.37	٥	46					
			Row		2	0.01	3	10					
		Water volume	liter	1.36	1.34	1.97		35					
	Air quality	Filter type	IILEI	1.36         1.34         1.97         2.35           Washable saranet filter									
		i illei type				vvdshable salahet iller							
		Filter quantity				1							

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system) 70°C (4-pipe system)
Leaving water temperature	12°C	60°C (4-pipe system)

## Specification for ceiling cassette (4-pipe system)

inde	oor model name			FWK06EH	FWK08EH	FWK09EH	FWK11EH	FWK13EH					
lom	ninal cooling capacity		Btu/hr	16400	18500	24600	29600	31300					
			W	4800	5430	7210	8670	9160					
om	ninal sensible cooling capacit	ty	Btu/hr	14487	16108	19922	23991	25790					
			W	4250	4720	5840	7030	7560					
	inal heating capacity		Btu/hr	30300	33400	40500	51100	54900					
ente	ering water temperature: 70°	°C)	W	8870	9800	11880	14990	16100					
om	ninal total input power		W	95	126	167	186	227					
om	ninal running current		Α	0.44	0.55	0.74	0.85	1.03					
ow	er source		V/Ph/Hz			220-240 / 1 / 50							
	Control	Air discharge			4-wa	y automatic louver (up &	down)						
		Operation			LCD wire	less micro-computer rem	ote control						
	Airflow (H/M/L/Q)		cfm	750 / 620 / 480 / 320	860 / 700 / 540 / 380	890 / 720 / 570 / 420	1000 / 840 / 680 / 540	1140 / 1000 / 840 / 7					
	Nominal water flow rate (0	Cooling)	USGPM	3.65	4.14	5.46	6.56	6.96					
			liters/min	13.83	15.67	20.67	24.83	26.33					
	Nominal water flow rate (H	Heating)	USGPM	3.35	3.70	4.49	5.68	6.12					
		0,	liters/min	12.67	14.00	17.00	21.50	23.17					
	Head loss (Cooling)	l loss (Cooling)		25	31	27	31	35					
Hea Hea Sur Sou Uni Pac	Head loss (Heating): 70°C	C	kPa kPa	30	37	38	45	51					
	Max. working pressure					1608							
		Surface air velocity		0.92	1.05	1.13	1.02	1.17					
	Sound pressure level (H/M	M/I (Q)	m/s dBA	42 / 38 / 32 / 23	46 / 42 / 35 / 27	48 / 43 / 38 / 30	50 / 47 / 43 / 33	52 / 49 / 45 / 39					
	\	ension with panel) (HxWxD)	mm		x 820 X 820 (340 X 990			(375 X 990 X 990)					
		Packing dimension (Panel dimension) (HxWxD)			916 X 916 (125 X 1020			125 X 1020 X 1020)					
		Unit weight + panel weight			+ 4	28 + 4		+ 4					
	Condensate drain size	n an	kg mm	20		19.05	52	* 4					
	Pipe connection		mm		10 (	05 BSP female thread add	antor						
	Fan	Туре		Turbo fan									
Indoor	i dii	Drive		Direct									
Ē			ram	530 / 450 / 360	600 / 500 / 400	660 / 550 / 450	710 / 610 / 510	800 / 710 / 610					
	Fan mater	Fan speed (H/M/L)	rpm	55074507500				00077107010					
	Fan motor	Type			Perm	anent split capacitor (Indi	ucuon)						
		Index of Protection (IP)				IP20 B							
		Insulation grade	14/	05 / 70 / 07	400 / 402 / 00	1	400 / 454 / 440	007 / 470 / 444					
		Rated input power (H/M/L)	W	95 / 79 / 67	126 / 103 / 89	167 / 109 / 86	186 / 151 / 118	227 / 176 / 144					
		Rated running current (H/M/L)	A	0.44 / 0.40 / 0.36	0.55 / 0.45 / 0.39	0.74 / 0.49 / 0.39	0.85 / 0.71 / 0.57	1.03 / 0.82 / 0.69					
		Starting current	A	0.44	0.71	0.89	1.02	1.28					
		Motor output	W	30	45	65	80	110					
		Poles			8			6					
	Coil	Tube	Material			Copper							
			Diameter (mm)			7.00							
		Fin	Material		20	Aluminium	-	40					
			Face area (m <sup>2</sup> )		.39	0.37		46					
			Row		2		3	~-					
		Water volume	liter	1.36 1.97 2.35									
	Air quality	Filter type	1			Washable saranet filter							
		Filter quantity	рс			1							
	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-pipe system) 70°C (4-pipe system)
Leaving water temperature	12°C	60°C (4-pipe system)



FWKE-E

- Comfortable, low noise and energy saving Multi comfort 3 air swing pattern control Modulating fan speed control Fresh air intake •
- •
- •
- •
- Optimum air discharge
  Superior sound level

- Branch duct connection
  Low height design
  Built-in high head drain pump and water flow switch
- Low water pressure drop
  Sleep function in cool and heat modes
  Auto restart with last-state-memory
  Self-diagnosis features
  Choices of wired or wireless controller
  A ping gratem gratem gratemines

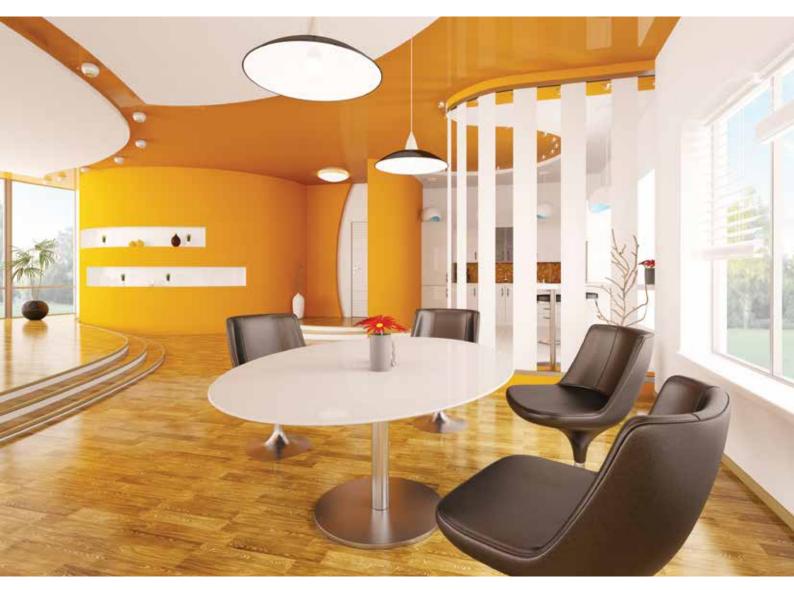
- · 4-pipe system availability\*





Wireless controller BRC52A

Wired controller BRC51A

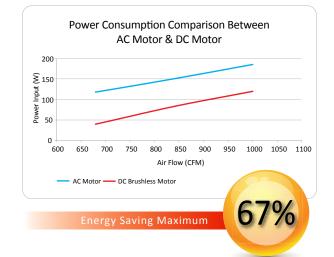


## Ceiling Cassette 3x3 with Brushless DC Motor (50Hz)

#### **Energy Saving**

Comparing to the traditional AC motor, DC motor offers the advantages of lower power input, higher efficiency and more energy savings. • Brushless DC motor has less internal resistance and

- Brushless DC motor has less internal resistance and better heat dissipation in the stator coils. As a result, it has higher operating efficiencies since more heat can be dissipated via the stationary motor housing.
- This line up is an excellent option for green building projects contributing to higher energy efficiency.



#### Choices of Wired or Wireless Controller Choices of wired BRC51A or wireless BRC52A.

#### **Recommended Applications**

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

#### Low Noise

The brushless DC motor does not have a carbon brush/mechanical commutator. Therefore, it has minimum shaft friction that contributes to a lower sound level (as low as 16dBA). Other than that, the low rpm also produces low sound level.



#### Low Maintenance & No Brush Sparks

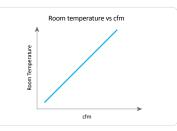
Without a carbon brush/mechanical commutator, the motor is low in maintenance and does not spark.

#### 4-Pipe System Availability\*

The 4-pipe system features a distribution system that contains both hot water supply (with return lines) and chilled water supply (with return lines). \* FWKE-EH model

#### **Modulating Fan Speed Control**

The fan speed modulates steplessly based on room temperature to reduce the difference between room temperature and set temperature, providing maximum comfort and reduction in energy consumption. \* Available in auto fan mode





#### Specification for ceiling cassette (2-pipe system)

ndoor mo	del name			FWK	E05E			FWP	CE08E			FWK	E11E			
			Quiet	Low	Medium	High	Quiet	Low	Medium	High	Quiet	Low	Medium	High		
ominal cooli	ng capacity	Btu/hr	8200	11900	15900	20100	15200	19800	24700	30000	21000	26800	33100	4010		
		W	2400	3500	4650	5900	4550	5800	7250	8800	6150	7850	9700	1175		
ominal sens	ible cooling capacity	Btu/hr	5800	8700	11700	15400	11000	14500	18500	21900	14600	18900	23800	2860		
		W	1710	2540	3440	4510	3220	4260	5410	6430	4270	5540	6970	8370		
	ing capacity	Btu/hr	11300	15200	19800	24200	18400	23900	30400	38200	24100	31600	39100	4670		
entering wat	er temperature: 50°C)	W	3300	4450	5800	7100	0 5400	5400 7000	00 8900	11200	7050	9250	11450	13700		
an input pov	ver	W	7	12	19	37	17	26	50	90	23	39	83	120		
ominal runn	ing current	A	0.11	0.13	0.19	0.26	0.19	0.28	0.43	0.74	0.21	0.35	0.55	0.95		
ower source	•	V/Ph/Hz		220-240 / 1 / 50												
Control	Air discharge			4-way automatic louver (up & down)												
	Operation		LCD wireless micro-computer remote control													
Airflow		cfm	220	350	470	620	420	560	720	890	510	680	870	1060		
Nomin	al 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		
		liters/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 I	oss (Cooling)	kPa	5	10	15	24	7	9	14	20	15	22	30	41		
Head I	oss (Heating): 50°C	kPa	4	8	13	21	5	8	12	18	12	20	26	37		
Max. w	orking pressure	kPa		1608												
Surfac	e air velocity	m/s	0.27	0.43	0.57	0.76	0.54	0.71	0.92	1.13	0.52	0.70	0.89	1.08		
Sound	pressure level	dBA	16	23	31	37	31	37	42	47	34	41	46	51		
	mension imension with panel) D)	mm			265 2	K 820 X 820	(340 X 990 X	990)			300 2	X 820 X 820	(375 X 990 X	990)		
	g dimension dimension) (HxWxD)	mm	341 X 916 X 916 (125 X 1020 X 1020)         376 X 916 X 916 (125 X 1020 X 1020)										1020)			
Unit w	eight + panel weight		26	+ 4			28	3 + 4			32	+ 4				
Conde	nsate drain size	mm	19.05													
Pipe o	onnection	mm	19.05 BSP female thread adaptor													
Fan	Туре		Turbo fan													
	Drive	_						D	irect							
_	Fan speed	rpm	200	280	360	450	350	440	550	660	400	510	630	750		
Fan	Туре							BI	LDC							
motor	Index of Protection (IP)							I	P20							
	Insulation grade				1		1		E							
	Rated running current	A	0.11	0.13	0.19	0.26	0.19	0.28	0.43	0.74	0.21	0.35	0.55	0.95		
	Starting current	A						1	N/A							
	Motor output	W				1	70					1	00			
	Poles								8							
Coil	Tube	Material						Co	pper							
		Diameter (mm)							.00							
	Fin	Material	Aluminium													
		Face area (m <sup>2</sup> )	0.39					0.37				0.46				
		Row			2					3						
	Water volume	liter	1.36					1.97 2.35								
Air	Filter type							Washable	saranet filter							
quality	Filter quantity	рс							1							
Casing		Colour						W	/hite							

Note:

A) Based on Eurovent conditions.
 B) Additional 10W is required for condensate water drain pump.
 C) Sound pressure level is tested as per JIS standard as below:
 FWKE05E - 1.4m below the face centre of air return of the unit
 FWKE08/11E - 1.5m below the face centre 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-pipe system) 70°C (4-pipe system)				
Leaving water temperature	12°C	60°C (4-pipe system)				

#### Specification for ceiling cassette (4-pipe system)

ndoor moo	lei name			FWK	E05EH			FWK	E08EH			FWK	E11EH			
			Quiet	Low	Medium	High	Quiet	Low	Medium	High	Quiet	Low	Medium	High		
ominal coolin	ng capacity	Btu/hr	6800	9600	12300	15000	13300	17100	20800	24600	17700	22200	26400	3070		
		W	2000	2800	3600	4400	3900	5000	6100	7200	5200	6500	7750	9000		
ominal sensil	ble cooling capacity	Btu/hr	5300	7600	10200	13100	9900	13000	16600	19600	13300	16700	20700	2450		
		W	1560	2240	2990	3850	2910	3810	4850	5750	3890	4900	6060	7170		
ominal heatir		Btu/hr	12800	17200	21700	26100	21800	27300	32800	38200	31900	39100	46200	5340		
ntering wate	r temperature: 70°C)	W	3750	5050	6350	7650	6400	8000	9600	11200	9350	11450	13550	1565		
an input powe	er	W	7	12	19	37	17	26	50	90	23	39	83	120		
ominal runnir	ng current	Α	0.11									0.55	0.95			
ower source		V/Ph/Hz						220-24	0 / 1 / 50							
Control	Air discharge		4-way automatic louver (up & down)													
	Operation						LCD wire	less micro-c	omputer remo	te control						
Airflow		cfm	220	350	470	620	420	560	720	890	510	680	870	1060		
	l water flow rate	USGPM	1.53	2.14	2.76	3.37	2.99	3.83	4.67	5.51	3.98	4.98	5.93	6.91		
(Cooling	g)	liters/min	5.80	8.12	10.44	12.75	11.31	14.49	17.68	20.87	15.07	18.84	22.47	26.0		
	l water flow rate	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		
(Heating	g)	liters/min	5.44	7.31	9.20	11.09	9.28	11.58	13.91	16.23	13.55	16.60	19.64	22.6		
Head lo	ss (Cooling)	kPa	5	9	13	18	6	10	15	19	12	19	24	32		
Head lo	ss (Heating): 70°C	kPa	7	10	17	22	13	18	25	32	21	30	39	52		
Max. wo	orking pressure	kPa	1608													
Surface	air velocity	m/s	0.27	0.43	0.57	0.76	0.54	0.71	0.92	1.13	0.52	0.70	0.89	1.08		
Sound p	pressure level	dBA	16	23	31	37	31	37	42	47	34	41	46	51		
Unit dim (Unit dir (HxWxD	mension with panel)	mm			265 2	K 820 X 820	(340 X 990 X	990)			300	X 820 X 820	(375 X 990 X	990)		
	dimension dimension) (HxWxD)	mm			341 X 916 X 916 (125 X 1020 X 1020)							916 X 916 (	125 X 1020 X	1020)		
Unit wei	ight + panel weight	kg	26 + 4 28 + 4 32 + 4													
Conden	isate drain size	mm	19.05													
Pipe co	nnection	mm					19.0	)5 BSP fema	ale thread ada	ptor						
Fan	Туре							Turt	oo fan							
-	Drive							Di	irect							
	Fan speed	rpm	200	280	360	450	350	440	550	400	630	750				
Fan	Туре							BL	DC							
motor	Index of Protection (IP)		IP20													
	Insulation grade								E							
	Rated running current	A	0.11	0.13	0.19	0.26	0.19	0.28	0.43	0.74	0.21	0.35	0.55	0.95		
	Starting current	A						Ν	I/A							
	Motor output	W				7	0					1	00			
	Poles								8							
Coil	Tube	Material						Co	pper							
		Diameter (mm)						7	.00							
	Fin	Material						Alun	ninium							
		Face area (m²)		0.39 0.37								0	.46			
		Row	2 3													
	Water volume	liter		1	.36			1	.97			2	.35			
Air	Filter type							Washable	saranet filter							
quality	Filter quantity	рс							1							
		Colour							/hite							

Note:

A) Based on Eurovent conditions.

B) Additional 10W is required for condensate water drain pump.
 C) Sound pressure level is tested as per JIS standard as below:
 FWKE05EH - 1.4m below the face centre of air return of the unit

FWKE08/11EH - 1.5m below the face centre 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-pipe system) 70°C (4-pipe system)
Leaving water temperature	12°C	60°C (4-pipe system)



FWE-E

- Compact designFar air throw

- Far all throw
  Auto air swing
  Easy serviceability and maintenance
  Versatile installation ceiling or floor installation
  Room temperature sensing
  Sleep function in cool and heat modes
  Auto restart with last-state-memory
  Valve or valveless control options
  Soft diagnosis features

- •
- Self-diagnosis features Choices of wired or wireless controller ٠
- NIM-abled



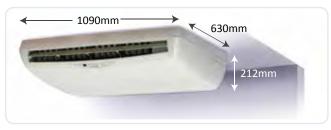


Wireless controller BRC52A

Wired controller BRC51A

#### **Compact Design**

Unit height as low as 212mm for installation at low ceiling space.



#### **Far Air Throw**

Maximum air throw distance up to 16.5m.



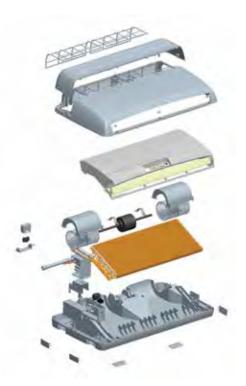
#### Auto Air Swing

The motorized louver enables the air flow to be evenly distributed.



#### Service & Maintenance at Ease

The washable filter can be easily accessed by just pulling down the intake grill. During servicing or repairing, only the bottom panel needs to be removed in order to access the parts like fan motor, blower, wiring connection, control box, piping connection and so on.



#### **Ceiling and Floor Installation Option**

The unit is uniquely designed with the possibility to be installed beneath the ceiling or sitting on the floor to suit any interior design requirements.

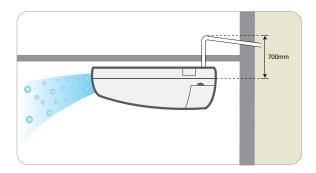
\*Wall bracket is supplied as optional item.



#### Versatile Installation

The unit is designed to work with high pressure head drain pump (optional), offering greater flexibility for installation of condensate drain pipe. The optional drain pump comes with a high head and is incorporated with a float switch as safety protection.

\* Drain pump kit supplied as optional item

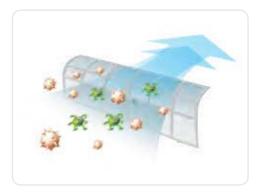


#### **Room Temperature Sensing**

Ability of unit to sense the room temperature for greater room comfort.

#### Saranet Air Filter

The anti-fungus air filter removes air-borne particles from the air.



#### 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

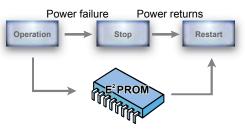
Able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a system of multiple indoor units in a building.

#### **Choices of Wired or Wireless Controller**

Choices of wired BRC51A or wireless BRC52A.

#### Auto Restart with Last-State-Memory

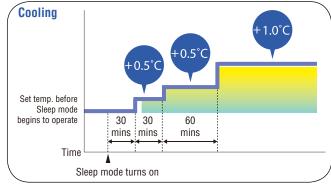
In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



Settings stored before power failure

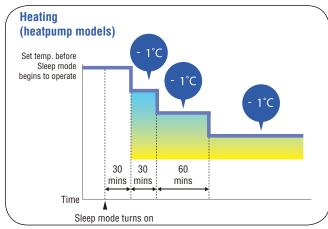
#### Sleep Mode

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling/heating for a pleasant sleep.



#### Cooling operation:

After 30 minutes, room temperature is raised by 0.5°C.
 After 60 minutes, room temperature is raised by 0.5°C.
 After 120 minutes, room temperature is raised by 1°C.



Heating operation:

1) After 30 minutes, room temperature is reduced by 1°C. 2) After 60 minutes, room temperature is reduced by 1°C.

3) After 120 minutes, room temperature is reduced by 1°C.



#### Specification for ceiling convertible

Inde	por model name			FWE05E	FWE06E	FWE07E	FWE08E	FWE10E	FWE12E		
Nom	inal cooling capacity		Btu/hr	15500	20300	21000	25000	34000	47000		
			W	4540	5950	6150	7330	9960	13770		
Nom	inal sensible cooling capacity		Btu/hr	12700	15400	16150	19250	25500	32900		
			W	3720	4510	4730	5640	7470	9640		
Nom	inal heating capacity		Btu/hr	19500	25000	28000	35000	47000	59000		
ente	ering water temperature: 50°C)		W	5720	7330	8210	10260	13770	17290		
Nom	inal total input power		W	86	135	160	148	197	225		
lom	inal running current		A	0.38	0.38 0.67 0.79 0.65 0.87 0.						
ow	er source		V/Ph/Hz	z 220-240 / 1 / 50							
	Control	Air discharge		Automatic louver (up & down)							
		Operation			L	CD wireless micro-co	omputer remote conti	rol			
	Airflow (H/M/L)		cfm	520 / 460 / 406	580 / 530 / 490	640 / 560 / 460	840 / 750 / 660	1120 / 980 / 860	1230 / 1090 / 9		
	Nominal water flow rate	Nominal water flow rate		3.43	4.49	4.67	5.77	7.71	10.17		
			liters/min	13	17	17.68	21.85	29.19	38.53		
	Head loss (Cooling)		kPa	27	48	57	36	50	67		
	Head loss (Heating): 50°C		kPa	24	42	50	32	45	58		
	Max. working pressure		kPa			16	608				
	Surface air velocity		m/s	0.91	1.02	1.12	1.50	1.63	1.50		
	Sound pressure level (H/M/L)	Sound pressure level (H/M/L)		45 / 38 / 36	48 / 43 / 39	49 / 46 / 41	48 / 47 / 44	52 / 47 / 46	52 / 50 / 49		
	Unit dimension (HxWxD)		mm	212 X 1090 X 630 259 X 1320 X 635 259 X 1538 X 635 25							
	Packing dimension (HxWxD)		mm		297 X 1197 X 740		348 X 1393 X 734	348 X 1612 X 734	348 X 1860 X 73		
	Unit weight	Unit weight			27		41	46	53		
	Condensate drain size		mm	19.05							
	Pipe connection	pe connection		12.70 BSP female thread adaptor 19.05 BSP female thread adaptor							
	Fan	Туре		Blower							
_		Drive		Direct							
Indoor		Fan speed (H/M/L)	rpm	1120 / 990 / 890	1300 / 1100 / 930	1400 / 1200 / 1000	1235 / 1120 / 1010	1300 / 1170 / 1090	1310 / 1170 / 10		
-	Fan motor	Туре				Permanent split ca	apacitor (Induction)				
		Index of Protection (IP)				IP	20				
		Insulation grade				В					
		Rated input power (H/M/L)	W	86 / 58 / 51	135 / 97 / 83	160 / 113 / 91	148 / 138 / 126	197 / 169 / 153	225 / 190 / 17		
		Rated running current (H/M/L)	Α	0.38 / 0.26 / 0.23	0.67 / 0.45 / 0.39	0.79 / 0.52 / 0.44	0.65 / 0.61 / 0.55	0.87 / 0.74 / 0.67	0.99 / 0.84 / 0.		
		Starting current	Α	1.10	1.20	1.30	1.15	1.54	1.88		
		Motor output	W	50	65	70	92	118	149		
		Poles					4				
	Coil	Tube	Material			Cop	oper				
			Diameter (mm)			7.	00				
		Fin	Material			Alum	inium				
			Face area (m <sup>2</sup> )		0.27		0.26	0.32	0.38		
			Row			3			4		
		Water volume	liter		1.41		1.23	1.48	2.37		
	Air quality	Filter type				Washable s	saranet filter				
		Filter quantity	рс		2		:	3	4		
	Casing		Colour		White			Light grey			

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system)
Leaving water temperature	12°C	



FWE-D

- 2-way air discharge
  Auto air swing
  Saranet filter

- Saranet filter
  Versatile installation ceiling or floor installation
  Room temperature sensing
  Sleep function in cool and heat modes
  Auto restart with last-state-memory
  Valve or valveless control options
  Self-diagnosis features
  Cheiner of wired or wireless controller

- Choices of wired or wireless controller
- NIM-abled





Wireless controller BRC52A

Wired controller BRC51A



#### 2-Way Air Discharge

Equipped with 2-way air discharge, both at front and bottom discharge for better air distribution.



#### Auto Air Swing

The swing mode enables the air flow to be evenly distributed into the room from the front discharge area.



#### **Ceiling and Floor Installation Option**

The unit is uniquely designed with the possibility to be installed beneath the ceiling or sitting on the floor to suit any interior design requirements.



#### **Room Temperature Sensing**

Ability of unit to sense the room temperature for greater room comfort.

#### Saranet Air Filter

The anti-fungus air filter removes air-borne particles from the air.



#### 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.

#### Choices of Wired or Wireless Controller

Choices of wired BRC51A or wireless BRC52A.

#### Valve or Valveless Control Options

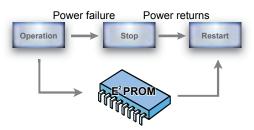
The design is flexible enough to allow for either valve or valveless control installation.

#### 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.

#### Auto Restart with Last-State-Memory

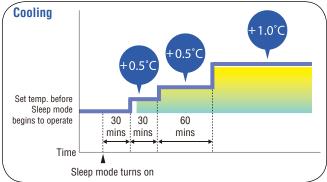
In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



Settings stored before power failure

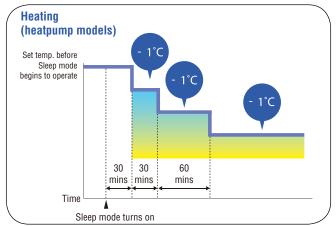
#### Sleep Mode

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling/heating for a pleasant sleep.



Cooling operation:

- 1) After 30 minutes, room temperature is raised by 0.5°C.
- 2) After 60 minutes, room temperature is raised by  $0.5\,^\circ\text{C}.$
- 3) After 120 minutes, room temperature is raised by 1°C.



Heating operation:

- 1) After 30 minutes, room temperature is reduced by 1°C.
- 2) After 60 minutes, room temperature is reduced by 1°C.
- 3) After 120 minutes, room temperature is reduced by 1°C.

#### Specification for ceiling convertible

ndo	oor model name			FWE07D	FWE09D	FWE13D			
lom	inal cooling capacity		Btu/hr	24600	31200	45000			
			W	7210	9140	13190			
lom	inal sensible cooling capacity		Btu/hr	17700	25600	31400			
			W	5190	7500	9200			
	inal heating capacity		Btu/hr	28000	42300	51500			
ente	ering water temperature: 50°C)		W	8210	12400	15090			
lom	inal total input power		W	132	240	240			
lom	inal running current		A	0.57 0.98 1.0					
owe	er source		V/Ph/Hz	220-240 / 1 / 50					
	Control	Air discharge			Automatic louver (up & down)				
		Operation		L	CD wireless micro-computer remote control	bl			
	Airflow (H/M/L)		cfm	697 / 688 / 650	956 / 908 / 889	1059 / 1023 / 956			
	Nominal water flow rate		USGPM	5.46	6.91	9.99			
			liters/min	20.67	26.16	37.82			
	Head loss (Cooling)		kPa	49	24	38			
	Head loss (Heating): 50°C		kPa	43	22	32			
	Max. working pressure		kPa		1608				
	Surface air velocity		m/s	1.38	1.23	1.36			
	Sound pressure level (H/M/L	)	dBA	51 / 50 / 48	54 / 53 / 52	54 / 53 / 52			
	Unit dimension (HxWxD)	Unit dimension (HxWxD)		249 x 1214 x 670	249 x 1714 x 670				
	Packing dimension (HxWxD)		mm	338 x 1360 x 766	338 x 186	0 x 766			
	Unit weight		kg	45	70				
	Condensate drain size		mm	19.05					
	Pipe connection		mm	19.05 BSP female thread adaptor					
	Fan	Туре		Blower					
_		Drive		Direct					
Indoor		Fan speed (H/M/L)	rpm	1400 / 1370 / 1260	1430 / 1390 / 1340	1430 / 1390 / 1340			
-	Fan motor	Туре			Permanent split capacitor (Induction)				
		Index of Protection (IP)		IP20					
		Insulation grade		В					
		Rated input power (H/M/L)	W	132 / 121 / 108	240 / 193 / 169	240 / 193 / 169			
		Rated running current (H/M/L)	A	0.57 / 0.51 / 0.46	0.98 / 0.80 / 0.70	1.03 / 0.83 / 0.73			
		Starting current	A	0.89	1.02	1.28			
		Motor output	W	65	100	120			
		Poles			4				
	Coil	Tube	Material		Copper				
			Diameter (mm)		9.53				
		Fin	Material		Aluminium				
			Face area (m <sup>2</sup> )	0.24	0.3	7			
			Row	3	4				
		Water volume	liter	2.09	4.2	5			
	Air quality	Filter type			Washable saranet filter				
		Filter quantity	рс	2	3				
	Casing		Colour		Light grey				

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system)
Leaving water temperature	12°C	



FWC-C

- Excellent air distribution
  Compact design
  High capacity range
  High external static pressure (ESP) range
  Double drainage protection
  Easy serviceability
  Option of left or right piping
  4 available fan speed
  Auto restart with last-state-memory
  Valve or valveless control options
  Self-diagnosis features
  Wired controller

- Wired controllerNIM-abled



Wired controller BRC51A



#### **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.



#### **Compact Design**

Unit height as low as 266mm for installation at limited ceiling space area.



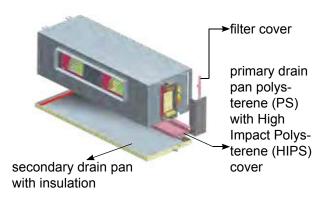
High Capacity Range Wide capacity range from 3kW to 16kW.

#### **Double Drain Pan Protection \***

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage.

The extra secondary drain pan built into the standard unit offers extra protection against possible water leaking problems.

\* Only applicable from FWC09C - FWC16C



High External Static Pressure (ESP) Range

Availability of up to 167Pa ESP for high static application.

#### Left / Right Piping Option

For flexible installation and application at site.

#### Easy Serviceability

Both control box and filter is accessible from the side panel.

#### 4 Available Fan Speed

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

#### **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

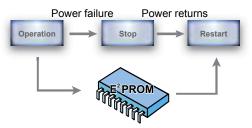
The design is flexible enough to allow for either valve or valveless control installation.

#### 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.

#### Auto Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



Settings stored before power failure

#### Specification for ceiling concealed

loor model name			FWC03C	FWC04C	FWC06C	FWC07C			
minal cooling capacity		Btu/hr	9900	11600	18000	22500			
		W	2900	3400	5280	6590			
minal sensible cooling capa	city	Btu/hr	7000	8120	12600	15750			
		W	2050	2380	3690	4620			
minal heating capacity		Btu/hr	11500	15000	23000	29000			
tering water temperature: 5	0°C)	W	3370	4400	6740	8500			
minal total input power		W	89	140	168	182			
minal running current		A	0.40	0.65	0.77	0.86			
ver source		V/Ph/Hz		220-24	0 / 1 / 50				
Control	Air discharge		Ducted						
	Operation			Wired micro-comp	uter remote control				
Airflow (H/M/L)		cfm	300 / 285 / 260	510 / 490 / 400	700 / 675 / 640	730 / 660 / 580			
External Static Pressure	e (H/M/L)	Pa	49 / 44 / 36	49 / 42 / 28	49 / 45 / 41	49 / 43 / 30			
Nominal water flow rate		USGPM	2.20	2.60	4.05	5.06			
		liters/min	8.33	9.84	15.33	19.15			
Head loss (Cooling)		kPa	10.5	24	20.1	32.4			
Head loss (Heating): 50	°C	kPa	8.8	20.3	17.0	27.6			
Max. working pressure		kPa		16	608				
Surface air velocity		m/s	1.23	1.68	1.88	1.70			
Sound pressure level (H	ł/M/L)	dBA	36 / 35 / 33	40 / 38 / 33	42 / 41 / 40	41 / 40 / 36			
Unit dimension (HxWxD	)	mm	267 x 702 x 351	267 x 842 x 351	267 x 1002 x 351	267 x 1137 x 35			
Packing dimension (Hx)	/ WxD)	mm	376 x 951 x 541	376 x 1091 x 541	376 x 1251 x 541	376 x 1386 x 54			
Unit weight	,	kg	18	22	24	26			
Condensate drain size	Condensate drain size				.05	1			
Pipe connection		mm							
Fan	Туре		Blower						
	Drive		Direct						
	Fan speed (H/M/L)	rpm	1282 / 1221 / 1117	1385 / 1279 / 1078	1369 / 1331 / 1263	1348 / 1270 / 107			
Fan motor	Туре	, r							
	Index of Protection (IP)								
	Insulation grade				3690         3690           0         23000           0         6740           168         0.77           220-24∪ / 1 / 50         0.77           Ducted         0.77           220-24∪ / 1 / 50         0.77           Ducted         0.77           220-24∪ / 1 / 50         0.77           Ducted         0.77           420         15.33           15.33         20.1           17.0         1           160         17.0           160         1.88           33         42 / 41 / 40           x 351         267 x 1002 x 351           x 541         376 x 1251 x 541           24         19.05           25 BSP female thread adaptor         1           Blower         1           01707         1369 / 1331 / 1263           anent split cazecitor (Induction)         1           IP20         1           B         1           / 127         168 / 165 / 163           / 0.59         0.77 / 0.76 / 0.75           8         1         2           80         4           Copper         80				
	Rated input power (H/M/L)	W	89 / 86 / 78	140 / 128 / 127	1	182 / 175 / 163			
	Rated running current (H/M/L)	A	0.40 / 0.39 / 0.35	0.65 / 0.59 / 0.59		0.86 / 0.83 / 0.7			
	Starting current	A	0.73	1.66		1.86			
	Motor output	W	38	72		90			
	Poles			1	1				
Coil	Tube	Material							
		Diameter (mm)							
	Fin	Material							
		Face area (m <sup>2</sup> )	0.11	0.14		0.20			
		Row		1	1	0.20			
	Water volume	liter	0.90	1.20		1.60			
Air quality	Filter type		0.00			1.00			
, quanty	Filter quantity	рс							
	Filler quantity								

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system)
Leaving water temperature	12°C	

#### Specification for ceiling concealed

nd	oor model name			FWC09C	FWC11C	FWC12C	FWC14C	FWC16C		
Nom	inal cooling capacity		Btu/hr	24800	38000	37000	44700	51800		
			W	7270	11140	10840	13100	15180		
Nom	inal sensible cooling capacity		Btu/hr	19700	29800	29300	35100	40900		
			W	5770	8730	8590	10290	11990		
	inal heating capacity		Btu/hr	32800	49200	48000	54900	65300		
ente	ering water temperature: 50°C)		W	9610	14420	14070	16090	19140		
lom	inal total input power		W	345	504	442	427	531		
om	inal running current		A	1.50	2.28	1.93	1.86	2.32		
ow	er source		V/Ph/Hz			220-240 / 1 / 50				
	Control	Air discharge				Ducted				
		Operation			Wired	micro-computer remote	control			
	Airflow (H/M/L)		cfm	830 / 760 / 710	1250 / 1130 / 1040	1240 / 1100 / 1020	1340 / 1220 / 1190	1550 / 1400 / 130		
	External Static Pressure (H/	M/L)	Pa	167 / 128 / 88	118 / 108 / 88	128 / 88 / 39	157 / 137 / 108	157 / 137 / 98		
	Nominal water flow rate		USGPM	5.55	8.59	8.28	10.04	11.62		
				21.01	32.51	31.34	38.00	43.98		
	Head loss (Cooling)	Head loss (Cooling)		14	39	23	38	51		
	Head loss (Heating): 50°C		kPa	11	37	19	33	48		
	Max. working pressure	Max. working pressure			1	1608	1			
	Surface air velocity	Surface air velocity		1.41	1.75	1.83	1.54	1.52		
	Sound pressure level (H/M/L	Sound pressure level (H/M/L)		46 / 42 / 38	51 / 48 / 45	49 / 45 / 41	52 / 50 / 47	53 / 50 / 47		
	Unit dimension (HxWxD)		mm	384 x 917 x 462	316 x 1225 x 559	384 x 1003 x 462	384 x 1287 x 462	384 x 1487 x 46		
	. , ,	Packing dimension (HxWxD)		415 x 1126 x 631	355 x 1461 x 727	415 x 1245 x 631	415 x 1497 x 631	415 x 1701 x 63		
		Unit weight		42	47	44	50	56		
		Condensate drain size				19.05				
	Pipe connection		mm	19.05 BSP female thread adaptor						
	Fan	Туре		Blower						
Б		Drive		Direct						
		Fan speed (H/M/L)	rpm	1230 / 1093 / 937	1381 / 1268 / 1169	1260 / 1097 / 913	1284 / 1203 / 1108	1303 / 1215 / 106		
	Fan motor	Туре				inent split capacitor (Ind	1	10007 12107 100		
		Index of Protection (IP)		IP20	IP21	IP22		20		
		Insulation grade		В						
		Rated input power (H/M/L)	W	345 / 304 / 270	504 / 380 / 338	442 / 384 / 342	427 / 388 / 373	531 / 466 / 413		
		Rated running current (H/M/L)	A	1.50 / 1.34 / 1.21	2.28 / 1.72 / 1.53	1.93 / 1.69 / 1.54	1.86 / 1.69 / 1.63	2.32 / 2.02 / 1.8		
		Starting current	A	2.43	2.77	3.18	3.50	4.90		
		Motor output	W	310	470	355	373	500		
		Poles				4				
	Coil	Tube	Material			Copper				
			Diameter (mm)			9.52				
		Fin	Material			Aluminium				
			Face area (m <sup>2</sup> )	0.28	0.34	0.32	0.41	0.48		
			Row	0.20	0.01	3		0.10		
		Water volume	liter	2.20	2.70	2.60	3.30	3.80		
	Air quality	Filter type		2.20	2.10	Washable saranet filter		0.00		
			рс							
		Filter quantity		2						

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system)
Leaving water temperature	12°C	

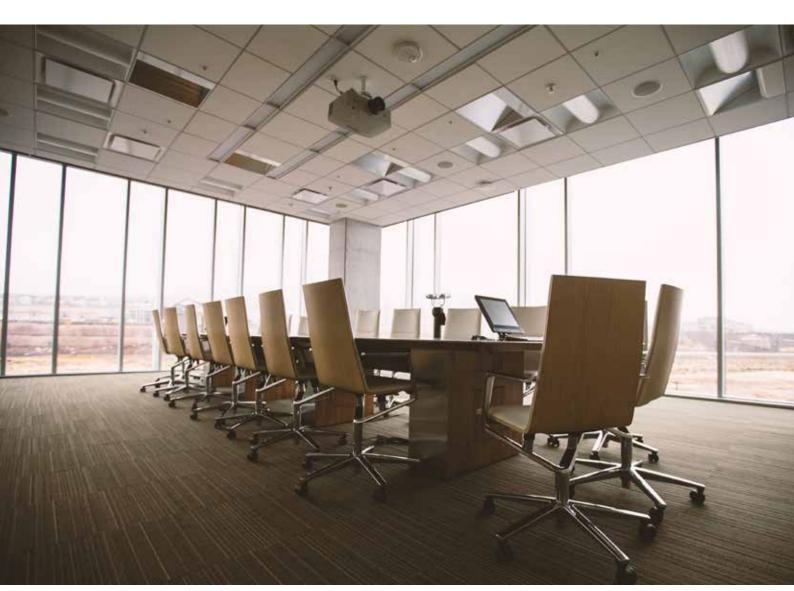
#### FWC-FD





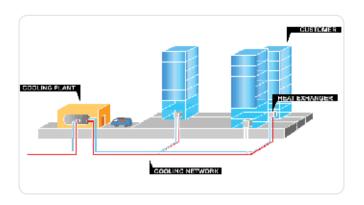
- High delta-T and district cooling application
  Excellent air distribution
  Compact design
  Medium external static pressure (ESP) range
  3 selectable fan speed
  Easy installation and serviceability
  Option of left or right piping
  Various options to meet project requirements
  Metal construction
  FCU selection software

- FCU selection software
- · Eurovent certified and listed



#### Customised for high delta-T application

FWC-FD series caters for applications requiring high water temperature difference (up to 9°C) such as district cooling. At such conditions, FWC-FD performance and capacity can be well maintained.



#### Ease of installation and serviceability

The FWC-FD series are flexible, easy to install and service.



Side removal (both left and right)



Bottom removal

Interconnected air filters: All air filters are interconnected and can easily be removed during servicing.

Bottom accessibility: Removable access panel at bottom for inspection without removing the entire unit from the ceiling.



#### Metal construction

Components and parts of the FWC-FD series such as casing, drain pan and blower are made of metal for its solidness and compliance to fire regulation.

#### FCU Selection Software

In support of FCU sales, the FCU Selection Software is available for the ease of unit selection for projects.

#### Eurovent certified and listed

The FWC-FD series are Eurovent certified. Its performance are tested according to the European and International standards.

7	PERFORMANCE
	www.eurovent-certification.com
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#### Various options to meet project requirements

The FWC-FD series have several options that are readily available from the factory without modification: • Pipe connecting direction: Right piping and left piping

- Pipe connecting direction. Right piping and left piping (facing FCU air discharge).
- Insulation type: Standard with PE insulation, option with NBR insulation (Class 0 Fire Retardant).

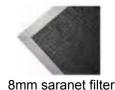




PE insulation

NBR insulation

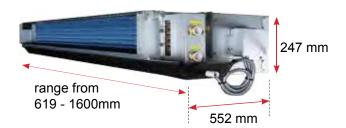
• Filter type: Standard with 8mm saranet filter, option of 1 inch aluminium mesh filter.





Aluminium mesh filter

**Compact design** Considering the installation space, the FWC-FD series features low height for low ceiling space. Throughout the entire series, unit height remains at 247 mm while its unit depth maintains at 552 mm.



#### Specification for ceiling concealed high delta-T

Inde	oor model name			FWC02FD	FWC03FD	FWC04FD	FWC05FD	FWC06FD	FWC08FD	FWC10FD		
Nom	inal cooling capacity		Btu/hr	6600	8700	12100	14000	17000	24500	28500		
			W	1930	2550	3550	4100	4980	7180	8350		
Nom	inal sensible cooling capacity		Btu/hr	5400	6300	9500	9600	11800	17000	20200		
			W	1580	1850	2780	2810	3460	4980	5920		
Nom	inal total input power		W	92	108	131	151	192	265	321		
Nom	inal running current		A	0.42	0.5	0.58	0.66	0.95	1.28	1.57		
Powe	er source		V/Ph/Hz	220-240 / 1 / 50								
	Control	Air discharge					Ducted					
		Operation					Without controller	r				
	Airflow (H/M/L)		cfm	280/270/220	310/300/280	450/430/360	460/450/400	570/560/500	820/800/750	940/920/84		
	External Static Pressure (H/M	/L)	Pa	53/50/34	53/50/44	55/50/40	78/75/60	77/75/61	78/75/66	78/75/67		
	Nominal water flow rate		USGPM	0.84	1.06	1.5	1.72	2.11	3.04	3.52		
			liters/min	3.17	4.00	5.67	6.50	8.00	11.50	13.33		
	Head loss (Cooling)		kPa	24.9	20.8	17.2	31.2	18.7	25.0	19.4		
	Max. working pressure		kPa				1608					
	Surface air velocity		m/s	1.20	1.33	1.25	1.28	1.24	1.29	1.22		
	Sound pressure level (H/M/L)		dBA	40/39/36	40/39/37	41/40/37	42/41/39	45/44/41	47/46/45	48/47/45		
	Unit dimension (HxWxD)		mm	247x5	52x619	247x5	52x870	247x552x1060	247x552x1390	247x552x16		
	Packing dimension (HxWxD)				30x737		30x987	320x630x1177 320x630x1507 320x6				
	Unit weight		mm kg	16	17	23	24	28	38	45		
1	Condensate drain size		mm	19.05								
	Pipe connection		mm	19.05 BSPT female thread adaptor								
	Fan	Туре		Centrifugal								
	Drive		Direct									
		Quantity		1 2 3					3	4		
<u>o</u> r		Fan speed (H/M/L)	rpm				-		1430/1415/1336			
Indoor			ipin	1265/1232/1107	1379/1356/1290	1290/1245/1115	1389/1369/1290	1415/1395/1283	1403/1388/1337	1422/1402/132		
	Fan motor	Туре				Permaner	nt split capacitor (	Induction)				
		Index of Protection (IP)				, on and	IP20	induction				
		Insulation grade					В					
		Quantity				1				2		
		Rated input power (H/M/L)	W	92/86/68	108/100/84	131/124/105	151/131/102	192/178/149	265/242/201	321/297/253		
		Rated running current (H/M/L)	A	0.42/0.38/ 0.30	0.50/0.44/0.37	0.58/0.54/0.46	0.66/0.58/0.49	0.95/0.79/0.65	1.28/1.06/0.88	1.57/1.31/1.		
		Starting current	A	0.68	1.08	1.08	1.41	2.65	2.65/1.08	2.65		
		Motor output	W	36	71	71	1.41	150	150/71	150		
				00	11	11	4	100	100/11	100		
		Poles										
	Coil	Tube	Material	Copper								
	Coil	Tube	Material									
	Coil		Diameter (mm)									
	Coil	Tube Fin	Diameter (mm) Material	0.11	0.11	0.17	Aluminium	0.00	0.3	0.36		
	Coil		Diameter (mm) Material Face area (m <sup>2</sup> )	0.11	0.11	0.17		0.22	0.3	0.36		
	Coil	Fin	Diameter (mm) Material Face area (m²) Row	3	4	3	Aluminium 0.17	۱ ۱	4	1		
		Fin Water volume	Diameter (mm) Material Face area (m <sup>2</sup> )			3 0.72	Aluminium 0.17 0.96	1.22		0.36		
	Coil Air quality	Fin	Diameter (mm) Material Face area (m²) Row	3	4	3 0.72	Aluminium 0.17	1.22	4 1.67	1		

Mode	Cooling	
Entering air temperature	24°C DB / 18°C WB	
Entering water temperature	5.5°C	
Leaving water temperature	14.5°C	



FUD20/25B

FUD40/50B

- Excellent air distribution
  Cabinet construction
  High cfm range
  High external static pressure (ESP) range
  Fire resistant Polyethylene insulation
  Easy serviceability
  Option of left or right piping
  4 available fan speed\*
  Changeable drive package\*\*
  Convertible air throw direction \*\*



#### **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.



#### 4 Available Fan Speed\*

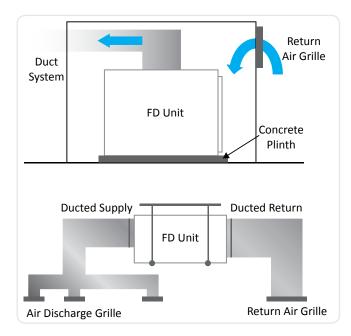
Each speed offers different external static pressure and air flow which enhances flexibility. \*Only available for FUD20/25B

#### **High Airflow Range**

Airflow ranges from 2500cfm to 4600cfm.

#### **Convertible Air Throw Direction\*\***

Convertible discharge air direction (vertical or horizontal air throw) provides flexibility in installation at site. \*Only available for FUD30/40B



#### High External Static Pressure (ESP) Range

Availability of up to 230Pa ESP for high static application (without filter for FUD30/40B).

#### **Cabinet Construction**

The enclosure is made from weather-proofed electro galvanized mild steel and coated with epoxy polyester powder layer for protection against severe conditions. Service panel is also available for ease of servicing.

#### 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 the following advantages:

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

#### Changeable Drive Package\*\*

Non-standard external static pressure and airflow requirements can be sized accordingly at site by changing the factory fitted drive package. \*\*Only available for belt driven FUD30/40B

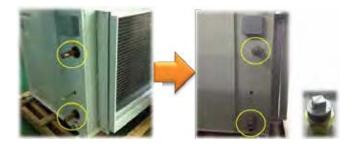


#### Easy to Service

For models FUD20/25B, there is a service way allocated at the bottom for servicing.

#### Female Adaptor (Threaded)

The units come with threaded female adaptor, making installation at site easy by eliminating the brazing process.



#### Specification for ducted blower

Ind	oor model name			FUD20B	FUD25B	FUD30B	FUD40B
Nominal cooling capacity		Btu/hr	75600	95000	125000	150000	
		W	22160	27840	36640	43960	
lom	inal sensible cooling capacity		Btu/hr	53700	69400	90000	106500
			W	15740	20340	26380	31210
lom	inal heating capacity		Btu/hr	78000	97500	138000	170000
ente	ering water temperature: 50°C)		W	22860	28580	40450	49820
lom	inal total input power		W	760	1800	1620	1910
lom	inal running current		А	3.49	7.84	3.33	4.03
Power source		V/Ph/Hz	220-24	0 / 1 / 50	380-415 / 3 / 50		
	Control	Air discharge		Ducted			
		Operation			Without c	ontroller	
	Airflow (H/M/L)		cfm	2500 / 2100 / 1750	3200 / 3000 / 2800	4200 / N/A / N/A	4600 / N/A / N/A
	External Static Pressure (H/M/L)		Pa	100 / 72 / 50	100 / 80 / 60	149* / N/A / N/A	149* / N/A / N/A
	Nominal water flow rate		USGPM	16.9	21.1	27.7	33.3
			liters/min	64	80	105	126
	Head loss (Cooling)		kPa	34.5	42.0	48.8	53.3
	Head loss (Heating): 50°C		kPa	32.9	27.4	31.5	63.2
	Max. working pressure				160		
	Surface air velocity		m/s	2.18	2.79	1.97	2.16
	Sound pressure level (H/M/L	)	dBA	50/46/42	54/52/50	58 / N/	A / N/A
	Unit dimension (HxWxD)			572 x 14	02 x 605	885 x 1540 x 850	
	Packing dimension (HxWxD)			762 x 1605 x 880		1154 x 1787 x 1188	
	Unit weight		kg	92	102	176	189
	Condensate drain size		mm		19.		
	Pipe connection			31.75 BSP female thread adaptor			
	Fan	Туре		Blower			
5		Drive		Direct Belt			elt
		Fan speed (H/M/L)	rpm	835 / 720 / 615	950 / 855 / 805	707 / N/A / N/A	
	Fan motor Type			Permanent split capacitor (Induction) Three phase induct			
		Index of Protection (IP)					
	Insulation grade			в			
	Rated input power (H/M/L) Rated running current (H/M/L) Starting current Motor output Poles	W	760 / 611 / 478	1800 / 1620 / 1320	1620 / N/A / N/A	1910 / N/A / N/A	
			A	3.49 / 2.86 / 2.32	7.84 / 7.06 / 5.82	3.33 / N/A / N/A	4.03 / N/A / N/A
			A	5.20	10.30	3.48	4.21
		-	W	375	500	1500	1500
			6		4		
	Coil Tube		Material	Copper			
		Diameter (mm)	9.52				
	Fin Water volume	Material	Aluminium				
		Face area (m <sup>2</sup> )	0.54 1.01			01	
			Row	3	4	3	4
		Water volume	liter	4.53	6.27	8.14	11.63
	Air quality Filter type			Washable saranet filter Viledon R29			
				2 3			
		Filter quantity	рс		2		3

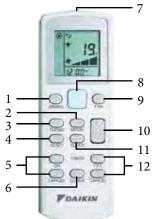
\* The external static pressure for FUD30/40B above is inclusive of R29 filters whereby R29 filters contribute a pressure drop of 81Pa.

Mode	Cooling	Heating
Entering air temperature	27°C DB / 19°C WB	20°C DB
Entering water temperature	7°C	50°C (2-pipe system)
Leaving water temperature	12°C	

#### Controllers

#### BRC52A

BRC52A61 – Heatpump with auto mode BRC52A62 – Cooling only BRC52A63 – Heatpump



Features:

- 1. Vertical automatic air swing
- 2. Selectable mode:
- Auto, Cool, Heat, 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

		——Real time clock and day display
Turbo function	24.	Temperature operate in °C and °F Swing function
Cool, Heat, Auto, Dry, Fan mode Delay timer (1 or 2 hours)		Quiet function
7-days programmable timer——— Low, Med, High, Auto fan speed———	47AN • () CHI/OH	Sleep function     On/Off switch
	PDAINCIN	

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
- mainboard)
- Delay timer (1 or 2 hours)
- Interaction with wireless handset (BRC52A61/62/63)

Network Interface Module (NIM) is a networking system which enables communication among Daikin air conditioners. With the Network interface Module (NIM), all your air conditioning systems can be controlled with just a single controller providing various benefits stated below.

## **Network Controls NIM**

Benefits:

- · More convenience. No more individually controls of air conditioning units.
- Quicker and easier zone control from the master control unit.
- Better control of air conditioning systems operating conditions.

NIM utilizes master-slave type system whereby the master node will issue commands to each of the slave nodes.

Every master unit will have a group address so that every slave can only response to their respective master. Each slave unit must have a unique address so that it can be addressed independently of other nodes.

The master unit will be operating in conjunction with a control panel. Any settings done via the control panel connected to the master will overwrite the settings of its slave units.

Slave unit can be operated with or without control panel. If a slave unit is operating with a control panel, its settings can be changed without following its master.

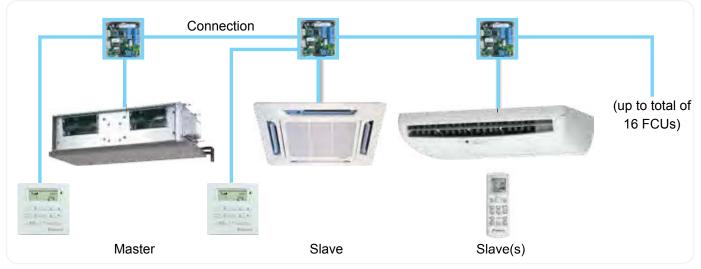
Basic features:

- DIP switch setting for Group & Unit address.
- Master or slave system configuration.
- Automatic detection of control panel existence.
- Error type and unit ID indication through display control panel.
- Maximum point-to-point communication bus up to 1000m.
- A single master unit can control up to 15 slave units in each group.
- Each slave unit will sense their individual local temperature.
- Unit address range from 0 to 15 (0000-1111).

The NIM system consists of:

Main board controller
 Display control panel

• NIM controller • Communications bus



## Main board controllers and display control panel

- NIM must be used in conjunction with:
- Fan coil units
- BRC51A or BRC52A

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 and shielded twisted single core wire with core diameter of 0.5mm to 1.0mm.

#### 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).

	Recommended maximum cable length (m)
First NIM to the furthest connected NIM	1000
NIM to main board	10
NIM to wired controller	10




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.



#### 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 MALAYSIA SDN. BHD.

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