



AP-FCU-14

## Chilled Water PRODUCT SYSTEM

Wall Mounted

Cassette

Ducted

# Fan Coil Unit Product Catalogue



Products manufactured in an ISO certified facility.  
This document contains the most current product information as of this printing.  
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Printed In Malaysia

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## Wall Mounted Type



## Ceiling Cassette Type



\* With Brushless DC Motor



## Ceiling Concealed Type



## Ducted Blower Type



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	0	5	10	15	20	25	30	35	40
FWMT-CV1	02 / 03 / 04 / 05 / 06								
FWMJCC-A	2 / 4 / 5								
FWMJC-B FWKE-E		5 / 6 / 8 / 9 / 11 / 13							
FWMH-A		2 / 3 / 4 / 6 / 8 / 10 / 12							
FWPMM-A			3 / 4 / 6 / 7 / 9 / 11 / 12 / 14 / 16						
UAHMM-A					20 / 25 / 30 / 40				

Wall Mounted Type



FWMT-C



BRC52A62



BRC51A62

- › Stylish Front Panel

› Quiet Operation

› Uniform Air Distribution

› 5 Selectable Fan Speeds

› Turbo/quiet Function Available

› Light Weight

› Easy Maintenance
- › Microprocessor Control

› Automatic Air Swing

› Able To Communicate With Versatile NIM (Network Interface Module) For Fan Coil Units Networking

› Easy-To-Use Wireless Handset

› Wired Handset Available (Optional)



Specification for Wall Mounted Type

MODEL				FWMT02CV1	FWMT03CV1	FWMT04CV1	FWMT05CV1	FWMT06CV1	
NOMINAL COOLING CAPACITY			Btu/h	8300	9200	11300	15500	18000	
			W	2430	2700	3310	4540	5280	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	6300	6900	9000	11700	14000	
			W	1850	2020	2640	3430	4100	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	11000	12000	15000	20500	25000	
			W	3220	3520	4400	6010	7330	
NOMINAL TOTAL INPUT POWER			W	31	32	42	57	72	
NOMINAL RUNNING CURRENT			A	0.20	0.20	0.21	0.30	0.34	
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50					
REFRIGERANT TYPE				N/A					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		AUTOMATIC LOUVER (UP & DOWN)					
				LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL					
	AIR FLOW	HIGH	CFM	260	280	370	510	620	
		MEDIUM	CFM	230	250	320	450	520	
		LOW	CFM	200	220	260	390	460	
		QUIET	CFM	180	190	240	360	440	
	NOMINAL WATER FLOW RATE		USGPM	1.85	2.03	2.51	3.43	4.01	
			litres/min	7.00	7.68	9.50	13.00	15.18	
	HEAD LOSS (COOLING)		kPa	34.0	24.0	31.0	30.0	36.0	
	HEAD LOSS (HEATING) : 50°C		kPa	29.0	20.0	25.0	27.0	33.0	
	MAX. WORKING PRESSURE		kPa	1608					
	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	
	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	1030	1050	1310	1035	1250	
		MEDIUM	RPM	890	910	1150	920	1070	
		LOW	RPM	760	780	955	825	970	
FAN MOTOR	TYPE		SINGLE PHASE SCR						
	INDEX OF PROTECTION (IP)		IP20			IP44			
	INSULATION GRADE		E						
	RATED INPUT POWER	HIGH	W	31	32	42	57	72	
		MEDIUM	W	29	31	37	50	68	
		LOW	W	25	29	33	43	60	
	RATED RUNNING CURRENT	HIGH	A	0.20	0.20	0.21	0.30	0.34	
		MEDIUM	A	0.19	0.20	0.20	0.29	0.32	
		LOW	A	0.17	0.19	0.19	0.26	0.31	
	STARTING CURRENT		A	0.40	0.40	0.40	0.30	0.43	
MOTOR OUTPUT		W	18	18	18	26	30		
COIL	POLES		4						
	TUBE	MATERIAL		COPPER					
		DIAMETER		7.00					
	FIN	MATERIAL		ALUMINIUM					
		FACE AREA		m²	0.18	0.18	0.18	0.29	0.29
		ROW		2					
WATER VOLUME		litre	0.52	0.58	0.58	0.95	0.95		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER					
QUANTITY		pc	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) 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.



Ceiling Cassette Compact Type (600x600)



FWMJCC-A



BRC52A62



BRC51A62

- › Aesthetically attractive and slim front panel

› 4 Way air discharge for better air distribution

› Compact design

› Easy installation and maintenance
- › Built in high pressure head drain pump

› Washable saranet air filter

› Easy-to-use wireless handset

› Wired handset available (optional)



Specification for Ceiling Cassette Compact Type

MODEL				FWMJCC2BV1	FWMJCC4BV1	FWMJCC5BV1	
NOMINAL COOLING CAPACITY			Btu/h	8500	14000	15500	
			W	2490	4100	4540	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	6500	10000	11500	
			W	1910	2930	3370	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	12000	16000	18000	
			W	3520	4690	5280	
NOMINAL TOTAL INPUT POWER			W	63	64	79	
NOMINAL RUNNING CURRENT			A	0.28	0.28	0.35	
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50			
REFRIGERANT TYPE				N/A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL			
	AIR FLOW	HIGH	CFM	380	400	440	
		MEDIUM	CFM	290	310	330	
		LOW	CFM	230	220	280	
	NOMINAL WATER FLOW RATE		USGPM	2.03	3.43	3.57	
			litres/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			
	SURFACE AIR VELOCITY		m/s	0.75	0.76	0.83	
	SOUND PRESSURE LEVEL (H/M/L)		dBa	42 / 35 / 29	45 / 38 / 30	48 / 40 / 36	
	UNIT DIMENSION - ( ) WITH PANEL		H X W X D	mm	250 X 570 X 570 (295 X 640 X 640)		
	PACKING DIMENSION - ( ) PANEL		H X W X D	mm	316 X 630 X 630 (126 X 700 X 726)		
	UNIT WEIGHT (UNIT + PANEL)		kg	15 + 3	17 + 3	17 + 3	
	CONDENSATE DRAIN SIZE		mm	19.05			
	PIPE CONNECTION		mm	19.05			
	FAN	TYPE			TURBO FAN		
					DIRECT		
		FAN SPEED	HIGH	RPM	725	810	900
MEDIUM			RPM	565	630	700	
LOW			RPM	460	480	610	
FAN MOTOR	TYPE		INDUCTION				
	INDEX OF PROTECTION (IP)		IP20				
	INSULATION GRADE		B				
	RATED INPUT POWER	HIGH	W	63	64	79	
		MEDIUM	W	51	58	73	
		LOW	W	46	52	69	
	RATED RUNNING CURRENT	HIGH	A	0.28	0.28	0.35	
		MEDIUM	A	0.23	0.25	0.32	
		LOW	A	0.21	0.24	0.31	
	STARTING CURRENT		A	0.32	0.30	0.47	
	MOTOR OUTPUT		W	17	23	28	
POLES		6					
COIL	TUBE	MATERIAL		COPPER			
		DIAMETER	mm	7.00			
	FIN	MATERIAL		ALUMINIUM			
		FACE AREA	m²	0.24	0.25	0.25	
		ROW		1	2	2	
	WATER VOLUME		litre	0.43	0.83	0.83	
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER			
		QUANTITY		1			
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 Pipes System) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)

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Ceiling Cassette Type (900x900)



FWMJC-B



BRC52A62



BRC51A62

- › Modern and elegant panel

› 4 way air discharge for better air distribution

› Wide capacity range

› Multi Comfort - 3 air swing patterns control

› 4 speeds fan motor

› Quiet function available
- › Quiet operation

› Low casing height

› Built in high pressure head drain pump

› Washable saranet air filter

› Easy-to-use wireless handset

› Wired handset available (optional)



Specification for Ceiling Cassette Type

MODEL				FWMJC6BV1	FWMJC8BV1	FWMJC9BV1	FWMJC11BV1	FWMJC13BV1	
NOMINAL COOLING CAPACITY			Btu/h	21000	25000	30000	38000	43000	
			W	6150	7330	8790	11140	12600	
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h	16700	19200	22300	27400	31000	
			W	4890	5630	6540	8030	9090	
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h	28000	33600	38300	45500	52000	
			W	8210	9850	11230	13340	15240	
NOMINAL TOTAL INPUT POWER			W	95	126	167	186	227	
NOMINAL RUNNING CURRENT			A	0.44	0.55	0.74	0.85	1.03	
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50					
REFRIGERANT TYPE				N/A					
CONTROL	AIR DISCHARGE OPERATION			4 WAY AUTOMATIC LOUVER (UP & DOWN)					
				LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL					
AIR FLOW	HIGH		CFM	750	860	890	1000	1140	
	MEDIUM		CFM	620	700	720	840	1000	
	LOW		CFM	480	540	570	680	840	
	QUIET		CFM	320	380	420	540	700	
NOMINAL WATER FLOW RATE			USGPM	4.71	5.59	6.69	8.45	9.60	
			litres/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	1600					
SURFACE AIR VELOCITY			m/s	0.91	1.04	1.14	1.03	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	
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 (UNIT + PANEL)			kg	26 + 4	26 + 4	28 + 4	32 + 4	32 + 4	
CONDENSATE DRAIN SIZE			mm	19.05					
PIPE CONNECTION			mm	19.05					
FAN	TYPE		TURBO FAN						
	DRIVE		DIRECT						
	FAN SPEED	HIGH	RPM	530	600	660	710	800	
		MEDIUM	RPM	450	500	550	610	710	
LOW		RPM	360	400	450	510	610		
FAN MOTOR	TYPE		INDUCTION						
	INDEX OF PROTECTION (IP)		IP20						
	INSULATION GRADE		B						
	RATED INPUT POWER	HIGH	W	95	126	167	186	227	
		MEDIUM	W	79	103	109	151	176	
		LOW	W	67	89	86	118	144	
	RATED RUNNING CURRENT	HIGH	A	0.44	0.55	0.74	0.85	1.03	
		MEDIUM	A	0.40	0.45	0.49	0.71	0.82	
		LOW	A	0.36	0.39	0.39	0.57	0.69	
	STARTING CURRENT		A	0.44	0.71	0.89	1.02	1.28	
MOTOR OUTPUT		W	30	45	65	80	110		
COIL	POLES		8						
	TUBE	MATERIAL		COPPER					
		DIAMETER		mm	7.00				
	FIN	MATERIAL		ALUMINIUM					
		FACE AREA		m²	0.39	0.39	0.37	0.46	0.46
		ROW			2	2	3	3	3
WATER VOLUME		litre	1.36	1.34	1.97	2.35	2.35		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER					
		QUANTITY		pc	1				
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 Pipes System) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)

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# Ceiling Cassette Type (900x900) With Brushless DC Motor



FWKE-E



Wireless Remote Controller  
BRC52A



Wired Remote Controller  
BRC51A

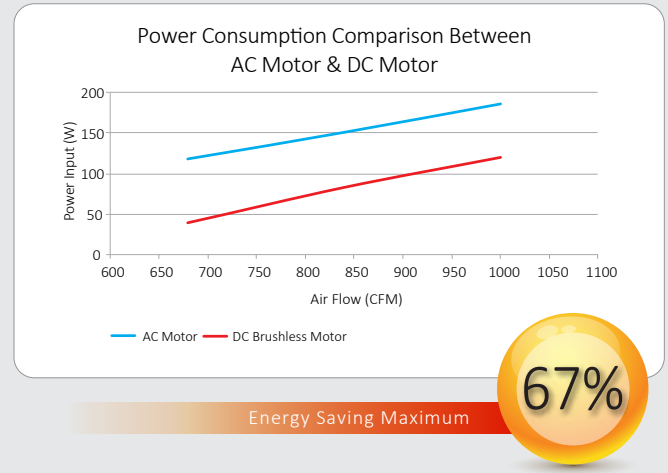
- › Comfortable
- › Energy Saving
- › Low Noise
- › Low Maintenance & No Brush Sparking
- › Modulating Fan Speed Control
- › Optimum Air Discharge
- › Multi Comfort - 3 Air Swing Pattern Control

- › 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 Withless 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 Casstte type with Brushless DC motor gives you another excellent option to consider.



## Recommended Applications

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



Office



Restaurant



Home

## 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.

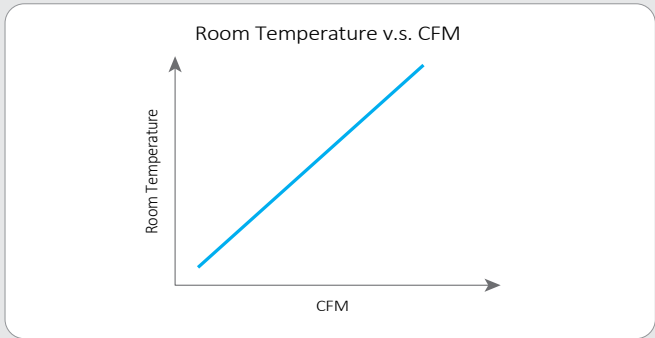
## Low Maintenance & No Brush Sparking

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

## 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



## Specification for Ceiling Cassette Type

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	0.11	0.13	0.19	0.26	0.19	0.28	0.43	0.74	0.21	0.35	0.55	0.95		
POWER SOURCE		V/Ph/Hz	220-240 / 1 / 50													
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		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	0.11	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	1.5				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:

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 SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Ceiling Concealed Type



FWMH-A

- › Wide Capacity Range
- › Multiple Rooms Can Be Cooled By Just 1 Unit Of FWMH
- › Simple Design With Easy Serviceability Feature
- › Extremely Low Height Of Unit - 251mm For Complete Range
- › Water Piping Connection Can Be Easily Converted From One Side To The Other
- › Fan Motor Assembly Is Not Cased, Allowing Free Return Or Back Return Or Bottom Return With Optional Return Plenum
- › Availability Of Optional Extended Drain Pan To Receive The Condensate Water Dripping From The Water Piping Connection
- › Following 2 Types Are Selectable:
  - I. With Intake Plenum
  - Ii. Without Intake Plenum

- › Optional accessory:
    - i. Wired thermostat
    - ii. ChoiceOf External Static Pressure, ESP (0Pa, 30Pa, 60Pa, 80Pa)
    - iii. PTC (Positive Temperature Coefficient) Electric Heater
    - iv. 2 Way & 3 Way Valves
  - › Series Offer:
    - i. FWMH2-12A(N)0(Z)V1\*
    - ii. FWMH2-12A(N)3(Z)V1\*
    - iii. FWMH2-12A(N)6(Z)V1\*
    - iv. FWMH2-12A(N)8(Z)V1\*
- \* With N, the unit without Intake Plenum  
\* Without N, the unit with Intake Plenum  
\* With Z, the unit with the piping taken out from the right viewed from the supply opening  
\* Without Z, the unit with the piping taken out from the left viewed from the supply opening



Specification for Ceiling Concealed Type (ESP = 0Pa)

MODEL		WITH INTAKE PLENUM		FWMH2A0(Z)V1	FWMH3A0(Z)V1	FWMH4A0(Z)V1	FWMH6A0(Z)V1	FWMH8A0(Z)V1	FWMH10A0(Z)V1	FWMH12A0(Z)V1	
		WITHOUT INTAKE PLENUM		FWMH2AN0(Z)V1	FWMH3AN0(Z)V1	FWMH4AN0(Z)V1	FWMH6AN0(Z)V1	FWMH8AN0(Z)V1	FWMH10AN0(Z)V1	FWMH12AN0(Z)V1	
POWER SUPPLY			V/Ph/Hz	220-240/1/50							
COOLING CAPACITY			Btu/h	7,507	10,919	14,979	21,019	26,649	30,129	36,510	
			W	2,200	3,200	4,390	6,160	7,810	8,830	10,700	
SENSIBLE COOLING CAPACITY			Btu/h	5,930	8,049	11,062	15,017	20,609	21,868	26,488	
			W	1,738	2,359	3,242	4,401	6,040	6,409	7,763	
HEATING CAPACITY			Btu/h	11,942	17,402	24,909	33,985	44,631	50,431	65,411	
			W	3,500	5,100	7,300	9,960	13,081	14,780	19,171	
AIR FLOW		HIGH	m³/h / CFM	390 / 230	530 / 312	760 / 447	1,040 / 612	1,420 / 835	1,620 / 953	2,040 / 1,200	
		MEDIUM	m³/h / CFM	260 / 153	370 / 218	490 / 289	780 / 459	1,090 / 641	1,140 / 671	1,500 / 882	
		LOW	m³/h / CFM	190 / 112	240 / 142	340 / 200	500 / 294	740 / 436	830 / 489	1,020 / 600	
EXTERNAL STATIC			Pa / in.wg	0 / 0							
WATER FLOW RATE			m³/h	0.4	0.6	0.8	1.1	1.4	1.6	1.9	
			USgpm	1.8	2.5	3.4	4.8	6.1	6.9	8.5	
HEAD LOSS (COOLING)			kPa / in.wg	14.6 / 58.4	12.0 / 48.0	21.6 / 86.4	38.2 / 152.8	18.4 / 73.6	21.0 / 84.0	32.7 / 130.8	
SOUND PRESSURE LEVEL (H/M/L)			dBA	33 / 29 / 25	37 / 33 / 28	36 / 31 / 26	41 / 39 / 33	40 / 38 / 32	41 / 38 / 33	43 / 40 / 35	
FAN	TYPE		CENTRIFUGAL FAN								
	QUANTITY		1		2		3		4		
	MATERIAL		GALVANIZED STEEL								
	DRIVE		DIRECT								
	DIAMETER X LENGTH	mm / in	160 X 200 / 6.25 X 7.88								
FAN MOTOR	TYPE		SINGLE PHASE CAPACITOR RUNNING								
	QUANTITY		1				2				
	INDEX OF PROTECTION (IP)		20								
	INSULATION GRADE		E								
	COIL	TUBE	MATERIAL	COPPER							
DIAMETER			mm / in	9.52 / 0.375							
THICKNESS			mm / in	0.30 / 0.012							
FIN		MATERIAL	ALUMINIUM								
		THICKNESS	mm / in	0.11 / 0.0043							
		FACE AREA	m² / ft²	0.09 / 0.98	0.13 / 1.35	0.15 / 1.64	0.19 / 2.07	0.24 / 2.62	0.26 / 2.84	0.32 / 3.41	
		ROW	3								
		FIN PER INCH	11								
UNIT DIMENSION	HEIGHT	mm / in	251 / 9.88								
	WIDTH	mm / in	714 / 28.11	884 / 34.80	1,014 / 39.92	1,214 / 47.80	1,464 / 57.64	1,564 / 61.57	1,824 / 71.81		
	DEPTH	mm / in	556 / 21.89								
PACKING DIMENSION	HEIGHT	mm / in	260 / 10.24								
	WIDTH	mm / in	724 / 28.50	894 / 35.20	1,024 / 40.31	1,224 / 48.19	1,474 / 58.03	1,574 / 61.97	1,834 / 72.20		
	DEPTH	mm / in	570 / 22.44								
UNIT WEIGHT (WITHOUT PLENUM)			kg / lb	19.0 / 41.9	20.0 / 44.1	26.0 / 57.3	30.0 / 66.1	41.0 / 90.4	44.0 / 97.0	46.0 / 101.4	
UNIT GROSS WEIGHT (WITHOUT PLENUM)			kg / lb	21.7 / 47.8	24.8 / 54.7	29.5 / 65.0	33.6 / 74.1	44.0 / 97.0	47.8 / 105.4	51.2 / 112.9	
UNIT WEIGHT (WITH PLENUM)			kg / lb	20.0 / 44.1	24.0 / 52.9	28.0 / 61.7	33.0 / 72.8	44.0 / 97.0	47.0 / 103.6	50.0 / 110.2	
UNIT GROSS WEIGHT (WITH PLENUM)			kg / lb	22.7 / 50.0	28.8 / 63.5	31.5 / 69.4	36.6 / 80.7	47.0 / 103.6	50.8 / 112.0	55.2 / 121.7	
CONDENSATE DRAIN PIPE SIZE				R3/4							

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.



Specification for Ceiling Concealed Type (ESP =30Pa)

MODEL		WITH INTAKE PLENUM		FWMH2A3(Z)V1	FWMH3A3(Z)V1	FWMH4A3(Z)V1	FWMH6A3(Z)V1	FWMH8A3(Z)V1	FWMH10A3(Z)V1	FWMH12A3(Z)V1		
		WITHOUT INTAKE PLENUM		FWMH2AN3(Z)V1	FWMH3AN3(Z)V1	FWMH4AN3(Z)V1	FWMH6AN3(Z)V1	FWMH8AN3(Z)V1	FWMH10AN3(Z)V1	FWMH12AN3(Z)V1		
POWER SUPPLY		V/Ph/Hz		220-240/1/50								
COOLING CAPACITY		Btu/h		7,507	10,919	14,979	21,019	26,649	30,129	36,510		
		W		2,200	3,200	4,390	6,160	7,810	8,830	10,700		
SENSIBLE COOLING CAPACITY		Btu/h		5,930	8,049	11,062	15,017	20,609	21,868	26,488		
		W		1,738	2,359	3,242	4,401	6,040	6,409	7,763		
HEATING CAPACITY		Btu/h		11,942	17,402	24,909	33,985	44,631	50,431	65,411		
		W		3,500	5,100	7,300	9,960	13,081	14,780	19,171		
AIR FLOW		HIGH	m³/h / CFM	390 / 230	530 / 312	760 / 447	1,040 / 612	1,420 / 835	1,620 / 953	2,040 / 1,200		
		MEDIUM	m³/h / CFM	260 / 153	370 / 218	490 / 289	780 / 459	1,090 / 641	1,140 / 671	1,500 / 882		
		LOW	m³/h / CFM	190 / 112	240 / 142	340 / 200	500 / 294	740 / 436	830 / 489	1,020 / 600		
EXTERNAL STATIC		Pa / in.wg		30 / 0.12								
WATER FLOW RATE		m³/h		0.4	0.6	0.8	1.1	1.4	1.6	1.9		
		USgpm		1.8	2.5	3.4	4.8	6.1	6.9	8.5		
HEAD LOSS (COOLING)		kPa / in.wg		14.6 / 58.4	12.0 / 48.0	21.6 / 86.4	38.2 / 152.8	18.4 / 73.6	21.0 / 84.0	32.7 / 130.8		
SOUND PRESSURE LEVEL (H/M/L)		dBA		33 / 31 / 26	37 / 31 / 29	38 / 35 / 33	43 / 39 / 32	41 / 38 / 33	43 / 37 / 34	44 / 39 / 33		
FAN	TYPE		CENTRIFUGAL FAN									
	QUANTITY		1			2		3		4		
	MATERIAL		GALVANIZED STEEL									
	DRIVE		DIRECT									
	DIAMETER X LENGTH		mm / in		160 X 200 / 6.25 X 7.88							
FAN MOTOR	TYPE		SINGLE PHASE CAPACITOR RUNNING									
	QUANTITY		1					2				
	INDEX OF PROTECTION (IP)		20									
	INSULATION GRADE		E									
COIL	TUBE	MATERIAL		COPPER								
		DIAMETER		mm / in		9.52 / 0.375						
		THICKNESS		mm / in		0.30 / 0.012						
	FIN	MATERIAL		ALUMINIUM								
		THICKNESS		mm / in		0.11 / 0.0043						
		FACE AREA		m² / ft²		0.09 / 0.98	0.13 / 1.35	0.15 / 1.64	0.19 / 2.07	0.24 / 2.62	0.26 / 2.84	0.32 / 3.41
		ROW		3								
		FIN PER INCH		11								
UNIT DIMENSION	HEIGHT		mm / in		251 / 9.88							
	WIDTH		mm / in		714 / 28.11	884 / 34.80	1,014 / 39.92	1,214 / 47.80	1,464 / 57.64	1,564 / 61.57	1,824 / 71.81	
	DEPTH		mm / in		556 / 21.89							
PACKING DIMENSION	HEIGHT		mm / in		260 / 10.24							
	WIDTH		mm / in		724 / 28.50	894 / 35.20	1,024 / 40.31	1,224 / 48.19	1,474 / 58.03	1,574 / 61.97	1,834 / 72.20	
	DEPTH		mm / in		570 / 22.44							
UNIT WEIGHT (WITHOUT PLENUM)		kg / lb		19.0 / 41.9	20.0 / 44.1	26.0 / 57.3	30.0 / 66.1	41.0 / 90.4	44.0 / 97.0	46.0 / 101.4		
UNIT GROSS WEIGHT (WITHOUT PLENUM)		kg / lb		21.7 / 47.8	24.8 / 54.7	29.5 / 65.0	33.6 / 74.1	44.0 / 97.0	47.8 / 105.4	51.2 / 112.9		
UNIT WEIGHT (WITH PLENUM)		kg / lb		20.0 / 44.1	24.0 / 52.9	28.0 / 61.7	33.0 / 72.8	44.0 / 97.0	47.0 / 103.6	50.0 / 110.2		
UNIT GROSS WEIGHT (WITH PLENUM)		kg / lb		22.7 / 50.0	28.8 / 63.5	31.5 / 69.4	36.6 / 80.7	47.0 / 103.6	50.8 / 112.0	55.2 / 121.7		
CONDENSATE DRAIN PIPE SIZE				R3/4								

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.

Specification for Ceiling Concealed Type (ESP =60Pa)

MODEL		WITH INTAKE PLENUM		FWMH2A6(Z)V1	FWMH3A6(Z)V1	FWMH4A6(Z)V1	FWMH6A6(Z)V1	FWMH8A6(Z)V1	FWMH10A6(Z)V1	FWMH12A6(Z)V1	
		WITHOUT INTAKE PLENUM		FWMH2AN6(Z)V1	FWMH3AN6(Z)V1	FWMH4AN6(Z)V1	FWMH6AN6(Z)V1	FWMH8AN6(Z)V1	FWMH10AN6(Z)V1	FWMH12AN6(Z)V1	
POWER SUPPLY			V/Ph/Hz	220-240/1/50							
COOLING CAPACITY			Btu/h	7,507	10,919	14,979	21,019	26,649	30,129	36,510	
			W	2,200	3,200	4,390	6,160	7,810	8,830	10,700	
SENSIBLE COOLING CAPACITY			Btu/h	5,930	8,049	11,062	15,017	20,609	21,868	26,488	
			W	1,738	2,359	3,242	4,401	6,040	6,409	7,763	
HEATING CAPACITY			Btu/h	11,942	17,402	24,909	33,985	44,631	50,431	65,411	
			W	3,500	5,100	7,300	9,960	13,081	14,780	19,171	
AIR FLOW		HIGH	m³/h / CFM	360 / 212	510 / 300	750 / 441	1,010 / 594	1,380 / 812	1,570 / 924	2,000 / 1,176	
		MEDIUM	m³/h / CFM	250 / 147	350 / 206	470 / 276	770 / 453	1,070 / 629	1,110 / 653	1,470 / 865	
		LOW	m³/h / CFM	180 / 106	230 / 135	330 / 194	490 / 288	720 / 424	820 / 482	1,010 / 594	
EXTERNAL STATIC			Pa / in.wg	60 / 0.24							
WATER FLOW RATE (3 ROWS)			m³/h	0.4	0.6	0.8	1.1	1.4	1.6	1.9	
			USGpm	1.8	2.5	3.4	4.8	6.1	6.9	8.5	
WATER FLOW RATE (1 ROW)			m³/h	0.2					0.5		
			USGpm	1.1					2.2		
HEAD LOSS (COOLING) (3 ROWS)			kPa / in.wg	14.6 / 58.4	12.0 / 48.0	21.6 / 86.4	38.2 / 152.8	18.4 / 73.6	21.0 / 84.0	32.7 / 130.8	
SOUND PRESSURE LEVEL (H/M/L)			dBA	37 / 34 / 31	38 / 35 / 31	41 / 36 / 33	47 / 44 / 38	47 / 44 / 39	49 / 46 / 40	49 / 45 / 42	
FAN	TYPE		CENTRIFUGAL FAN								
	QUANTITY		1		2			3		4	
	MATERIAL		GALVANIZED STEEL								
	DRIVE		DIRECT								
	DIAMETER X LENGTH	mm / in	160 X 200 / 6.25 X 7.88								
FAN MOTOR	TYPE		SINGLE PHASE CAPACITOR RUNNING								
	QUANTITY		1					2			
	INDEX OF PROTECTION (IP)		20								
	INSULATION GRADE		E								
COIL	TUBE	MATERIAL	COPPER								
		DIAMETER	mm / in	9.52 / 0.375							
		THICKNESS	mm / in	0.30 / 0.012							
	FIN	MATERIAL	ALUMINIUM								
		THICKNESS	mm / in	0.11 / 0.0043							
		FACE AREA	m² / ft²	0.09 / 0.98	0.13 / 1.35	0.15 / 1.64	0.19 / 2.07	0.24 / 2.62	0.26 / 2.84	0.32 / 3.41	
		ROW	3								
		FIN PER INCH	11								
UNIT DIMENSION	HEIGHT		mm / in	251 / 9.88							
	WIDTH		mm / in	714 / 28.11	884 / 34.80	1,014 / 39.92	1,214 / 47.80	1,464 / 57.64	1,564 / 61.57	1,824 / 71.81	
	DEPTH		mm / in	556 / 21.89							
PACKING DIMENSION	HEIGHT		mm / in	260 / 10.24							
	WIDTH		mm / in	724 / 28.50	894 / 35.20	1,024 / 40.31	1,224 / 48.19	1,474 / 58.03	1,574 / 61.97	1,834 / 72.20	
	DEPTH		mm / in	570 / 22.44							
UNIT WEIGHT (WITHOUT PLENUM)			kg / lb	19.0 / 41.9	20.0 / 44.1	26.0 / 57.3	30.0 / 66.1	41.0 / 90.4	44.0 / 97.0	46.0 / 101.4	
UNIT GROSS WEIGHT (WITHOUT PLENUM)			kg / lb	21.7 / 47.8	24.8 / 54.7	29.5 / 65.0	33.6 / 74.1	44.0 / 97.0	47.8 / 105.4	51.2 / 112.9	
UNIT WEIGHT (WITH PLENUM)			kg / lb	20.0 / 44.1	24.0 / 52.9	28.0 / 61.7	33.0 / 72.8	44.0 / 97.0	47.0 / 103.6	50.0 / 110.2	
UNIT GROSS WEIGHT (WITH PLENUM)			kg / lb	22.7 / 50.0	28.8 / 63.5	31.5 / 69.4	36.6 / 80.7	47.0 / 103.6	50.8 / 112.0	55.2 / 121.7	
CONDENSATE DRAIN PIPE SIZE				R3/4							

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.



MODEL		WITH INTAKE PLENUM		FWMH2A8(Z)V1	FWMH3A8(Z)V1	FWMH4A8(Z)V1	FWMH6A8(Z)V1	FWMH8A8(Z)V1	FWMH10A8(Z)V1	FWMH12A8(Z)V1	
		WITHOUT INTAKE PLENUM		FWMH2AN8(Z)V1	FWMH3AN8(Z)V1	FWMH4AN8(Z)V1	FWMH6AN8(Z)V1	FWMH8AN8(Z)V1	FWMH10AN8(Z)V1	FWMH12AN8(Z)V1	
POWER SUPPLY		V/Ph/Hz		220-240/1/50							
COOLING CAPACITY		Btu/h		7,507	10,919	14,979	21,019	26,649	30,129	36,510	
		W		2,200	3,200	4,390	6,160	7,810	8,830	10,700	
SENSIBLE COOLING CAPACITY		Btu/h		5,930	8,049	11,062	15,017	20,609	21,868	26,488	
		W		1,738	2,359	3,242	4,401	6,040	6,409	7,763	
HEATING CAPACITY		Btu/h		11,942	17,402	24,909	33,985	44,631	50,431	65,4 11	
		W		3,500	5,100	7,300	9,960	13,081	14,780	19,171	
AIR FLOW		HIGH	m³/h / CFM	360 / 212	510 / 300	750 / 441	1,010 / 594	1,380 / 812	1,570 / 924	2,000 / 1,180	
		MEDIUM	m³/h / CFM	250 / 147	350 / 206	470 / 276	770 / 453	1,070 / 629	1,110 / 653	1,470 / 865	
		LOW	m³/h / CFM	180 / 106	230 / 135	330 / 194	490 / 288	720 / 424	820 / 482	1,010 / 594	
EXTERNAL STATIC		Pa / in.wg		80 / 0.32							
WATER FLOW RATE		m³/h		0.5	0.6	0.9	1.3	1.5	1.8	2.3	
		USgpm		2.0	2.7	4.1	5.5	6.8	8.0	10.1	
HEAD LOSS (COOLING)		kPa / in.wg		14.6 / 58.4	12.0 / 48.0	21.6 / 86.4	38.2 / 152.8	18.4 / 73.6	21.0 / 84.0	32.7 / 130.8	
SOUND PRESSURE LEVEL (H/M/L)		dBA		38 / 35 / 32	39 / 36 / 32	45 / 41 / 35	50 / 46 / 42	49 / 47 / 44	49 / 48 / 45	49 / 48 / 45	
FAN	TYPE		CENTRIFUGAL FAN								
	QUANTITY		1		2			3		4	
	MATERIAL		GALVANIZED STEEL								
	DRIVE		DIRECT								
	DIAMETER X LENGTH		mm / in	160 X 200 / 6.25 X 7.88							
FAN MOTOR	TYPE		SINGLE PHASE CAPACITOR RUNNING								
	QUANTITY		1				2				
	INDEX OF PROTECTION (IP)		20								
	INSULATION GRADE		E								
COIL	TUBE	MATERIAL		COPPER							
		DIAMETER		mm / in	9.52 / 0.375						
		THICKNESS		mm / in	0.30 / 0.012						
	FIN	MATERIAL		ALUMINIUM							
		THICKNESS		mm / in	0.11 / 0.0043						
		FACE AREA		m² / ft²	0.09 / 0.98	0.13 / 1.35	0.15 / 1.64	0.19 / 2.07	0.24 / 2.62	0.26 / 2.84	0.32 / 3.41
		ROW		3							
		FIN PER INCH		11							
UNIT DIMENSION	HEIGHT		mm / in	251 / 9.88							
	WIDTH		mm / in	714 / 28. 11	884 / 34.80	1,014 / 39.92	1,214 / 47.80	1,464 / 57.64	1,564 / 61.57	1,824 / 71.81	
	DEPTH		mm / in	556 / 21.89							
PACKING DIMENSION	HEIGHT		mm / in	260 / 10.24							
	WIDTH		mm / in	724 / 28.50	894 / 35.20	1,024 / 40.31	1,224 / 48.19	1,474 / 58.03	1,574 / 61.97	1,834 / 72.20	
	DEPTH		mm / in	570 / 22.44							
UNIT WEIGHT (WITHOUT PLENUM)		kg / lb		19.0 / 41.9	20.0 / 44.1	26.0 / 57.3	30.0 / 66.1	41.0 / 90.4	44.0 / 97.0	46.0 / 101.4	
UNIT GROSS WEIGHT (WITHOUT PLENUM)		kg / lb		21.7 / 47.8	24.8 / 54.7	29.5 / 65.0	33.6 / 74.1	44.0 / 97.0	47.8 / 105.4	51.2 / 112.9	
UNIT WEIGHT (WITH PLENUM)		kg / lb		20.0 / 44.1	24.0 / 52.9	28.0 / 61.7	33.0 / 72.8	44.0 / 97.0	47.0 / 103.6	50.0 / 110.2	
UNIT GROSS WEIGHT (WITH PLENUM)		kg / lb		22.7 / 50.0	28.8 / 63.5	31.5 / 69.4	36.6 / 80.7	47.0 / 103.6	50.8 / 112.0	55.2 / 121.7	
CONDENSATE DRAIN PIPE SIZE				R3/4							

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



BRC51A62

- › Choices Of With Or Without Wired Handset
  - › Series Offer:
    - i. Wired Wired Handset: FWPM3-16A(Z)V1\*
    - ii. Without Wired Handset: FWPM3-16A(Z)V1-N\*
- \* With Z, the unit with the piping taken out from the right viewed from the supply opening
- \* Without Z, the unit with the piping taken out from the left viewed from the supply opening



Specification for Ceiling Concealed Type

MODEL				FWPMM3A(Z)V1		FWPMM4A(Z)V1		FWPMM6A(Z)V1		FWPMM7A(Z)V1				
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		89		140		168		182		
NOMINAL RUNNING CURRENT				A		0.40		0.65		0.77		0.86		
POWER SOURCE				V/Ph/Hz		220-240 / 1 / 50								
REFRIGERANT TYPE						N/A								
CONTROL		AIR DISCHARGE OPERATION		DUCTED										
				WIRED MICRO-COMPUTER REMOTE CONTROL										
AIR FLOW		HIGH		CFM	300		510		700		730			
		MEDIUM		CFM	285		490		675		660			
		LOW		CFM	260		400		640		580			
EXTERNAL STATIC PRESSURE				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		
				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 / 35 / 33		40 / 38 / 33		42 / 41 / 40		41 / 40 / 36		
UNIT DIMENSION			H X W X D	mm	266 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 BSP FEMALE THREAD ADAPTOR								
FAN		TYPE		BLOWER										
		DRIVE		DIRECT										
		FAN SPEED		HIGH	RPM	1221		1211		1410		1355		
				MEDIUM	RPM	1172		1047		1328		1215		
LOW	RPM			1123		835		1133		937				
FAN MOTOR		TYPE		INDUCTION										
		INDEX OF PROTECTION (IP)		IP20										
		INSULATION GRADE		B										
		RATED INPUT POWER		HIGH	W	89		140		168		182		
				MEDIUM	W	86		128		165		175		
				LOW	W	78		127		163		163		
		RATED RUNNING CURRENT		HIGH	A	0.40		0.65		0.77		0.86		
				MEDIUM	A	0.39		0.59		0.73		0.77		
				LOW	A	0.35		0.59		0.71		0.71		
		STARTING CURRENT		A		0.73		1.66		1.22		1.86		
		MOTOR OUTPUT		W		38		72		80		90		
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		N/A									
			QUANTITY		pc		N/A							
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) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)

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Specification for Ceiling Concealed Type

MODEL				FWPMM9A(Z)V1	FWPMM11A(Z)V1	FWPMM12A(Z)V1	FWPMM14A(Z)V1	FWPMM16A(Z)V1		
NOMINAL COOLING CAPACITY		Btu/h		24800	38000	37000	44700	51800		
		W		7270	11140	10840	13100	15180		
NOMINAL SENSIBLE COOLING CAPACITY		Btu/h		19700	29800	29300	35100	40900		
		W		5770	8730	8590	10290	11990		
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)		Btu/h		32800	49200	48000	54900	65300		
		W		9610	14420	14070	16090	19140		
NOMINAL TOTAL INPUT POWER		W		345	504	442	427	530		
NOMINAL RUNNING CURRENT		A		1.50	2.28	1.93	1.86	2.31		
POWER SOURCE		V/Ph/Hz		220-240 / 1 / 50						
REFRIGERANT TYPE				N/A						
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		DUCTED					
					WIRED MICRO-COMPUTER REMOTE CONTROL					
	AIR FLOW	HIGH	CFM	830	1250	1240	1340	1550		
		MEDIUM	CFM	760	1130	1100	1220	1400		
		LOW	CFM	710	1040	1020	1190	1300		
	EXTERNAL STATIC PRESSURE		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		
			litres/min	21.01	32.51	31.34	38.00	43.98		
	HEAD LOSS (COOLING)		kPa	14.0	39.0	23.0	38.0	51.0		
	HEAD LOSS (HEATING) : 50°C		kPa	11.0	37.0	19.0	33.0	48.0		
	MAX. WORKING PRESSURE		kPa	1608						
	SURFACE AIR VELOCITY		m/s	1.40	1.74	1.83	1.54	1.52		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	46 / 42 / 38	51 / 48 / 45	49 / 45 / 41	52 / 50 / 47	53 / 50 / 47		
	UNIT DIMENSION		H X W X D	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 462	
	PACKING DIMENSION		H X W X D	mm	415 x 1126 x 631	355 x 1461 x 727	415 x 1245 x 631	415 x 1497 x 631	415 x 1701 x 631	
	UNIT WEIGHT		kg		42	47	44	50	56	
	CONDENSATE DRAIN SIZE		mm		19.05					
	PIPE CONNECTION		mm		19.05 BSP FEMALE THREAD ADAPTOR					
	FAN	TYPE DRIVE		BLOWER						
				DIRECT						
		FAN SPEED	HIGH	RPM	1180	1406	1279	1279	1351	
			MEDIUM	RPM	1053	1331	1181	1204	1280	
			LOW	RPM	937	1232	1052	1097	1208	
	FAN MOTOR	TYPE		INDUCTION						
INDEX OF PROTECTION (IP)				IP20	IP21	IP22	IP20	IP20		
INSULATION GRADE				B						
RATED INPUT POWER		HIGH	W	345	504	442	427	530		
		MEDIUM	W	304	380	384	388	457		
		LOW	W	270	338	342	373	405		
RATED RUNNING CURRENT		HIGH	A	1.50	2.28	1.93	1.86	2.31		
		MEDIUM	A	1.34	1.65	1.69	1.69	2.02		
		LOW	A	1.21	1.48	1.54	1.63	1.85		
STARTING CURRENT		A	2.43	2.77	3.18	3.50	4.90			
MOTOR OUTPUT		W	310	470	355	373	500			
COIL	POLES		4							
			TUBE		MATERIAL		COPPER			
	DIAMETER				mm	9.52				
	FIN		MATERIAL		ALUMINIUM					
			FACE AREA		m²	0.28	0.34	0.32	0.41	0.48
			ROW		3		3	3	3	3
WATER VOLUME		litre	2.21	2.66	2.60	3.33	3.80			
AIR QUALITY	FILTER	TYPE		N/A						
		QUANTITY		pc	N/A					
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) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)

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Ducted Blower Type



- › Strong air flow

› High external static pressure

› Easy installation and maintenance

› Multiple choices of air flow speed (applicable for UAHMM30/40A)
- › Convertible air discharge (applicable for UAHMM40A)

› Series offer:

\* With Z, the unit with the piping taken out from the right viewed from the supply opening

\* Without Z, the unit with the piping taken out from the left viewed from the supply opening



Specification for Ducted Blower Type





MODEL				UAHMM20A(Z)V19		UAHMM25A(Z)V19		UAHMM30A(Z)Y19		UAHMM40A(Z)Y19			
NOMINAL COOLING CAPACITY			Btu/h		75600		95000		125000		150000		
			W		22160		27840		36640		43960		
NOMINAL SENSIBLE COOLING CAPACITY			Btu/h		53700		69400		90000		106500		
			W		15740		20340		26380		31210		
NOMINAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)			Btu/h		78000		97500		138000		170000		
			W		22860		28580		40450		49820		
NOMINAL TOTAL INPUT POWER			W		760		1800		1620		1910		
NOMINAL RUNNING CURRENT			A		3.49		7.84		3.33		4.03		
POWER SOURCE			V/Ph/Hz		220-240 / 1 / 50				380-415 / 3 / 50				
REFRIGERANT TYPE				N/A									
CONTROL	AIR DISCHARGE			DUCTED									
	OPERATION			WITHOUT CONTROLLER									
AIR FLOW	HIGH		CFM	2500		3200		4200		4600			
	MEDIUM		CFM	2100		3000		N/A		N/A			
	LOW		CFM	1750		2800		N/A		N/A			
EXTERNAL STATIC PRESSURE			Pa		100 / 72 / 50		100 / 80 / 60		230		230		
NOMINAL WATER FLOW RATE			USGPM		16.90		21.10		27.70		33.30		
			litres/min		64.00		80.00		105.00		126.00		
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			kPa		1608								
SURFACE AIR VELOCITY			m/s		2.19		2.80		1.96		2.15		
SOUND PRESSURE LEVEL			dBA		50/46/42		54/52/50		58		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		189		
CONDENSATE DRAIN SIZE			mm		19.05								
PIPE CONNECTION			mm		31.75 BSP FEMALE THREAD ADAPTOR								
FAN	TYPE			BLOWER									
	DRIVE			DIRECT				BELT					
	FAN SPEED	HIGH		RPM	835		950		707		707		
		MEDIUM		RPM	720		885		N/A		N/A		
		LOW		RPM	615		805		N/A		N/A		
FAN MOTOR	TYPE			INDUCTION									
	INDEX OF PROTECTION (IP)			IP22									
	INSULATION GRADE			B									
	RATED INPUT POWER	HIGH		W	760		1800		1620		1910		
		MEDIUM		W	611		1620		N/A		N/A		
		LOW		W	478		1320		N/A		N/A		
	RATED RUNNING CURRENT	HIGH		A	3.49		7.84		3.33		4.03		
		MEDIUM		A	2.86		7.06		N/A		N/A		
		LOW		A	2.32		5.82		N/A		N/A		
	STARTING CURRENT			A		5.20		10.30		24.00		29.00	
	MOTOR OUTPUT			W		375		500		1500		2200	
POLES					6		4		4		4		
COIL	TUBE	MATERIAL		COPPER									
		DIAMETER		mm		9.53							
	FIN	MATERIAL			ALUMINIUM								
		FACE AREA		m²		0.54		0.54		1.01		1.01	
		ROW			3		4		3		4		
WATER VOLUME			litre		4.53		6.27		8.14		11.63		
AIR QUALITY	FILTER	TYPE		N/A									
		QUANTITY		pc		N/A							
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) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	60°C (4 Pipes System)



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# 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
-  Sleep Mode


## FIN TYPE

-  Bare Aluminium Fin
-  Anti Corrosion Hydrophilic Blue Fin



## AIR FLOW

-  Selectable Fan Speed- Different fan speed is available for comfort selection
-  Belt Driven Evaporator Motor
-  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

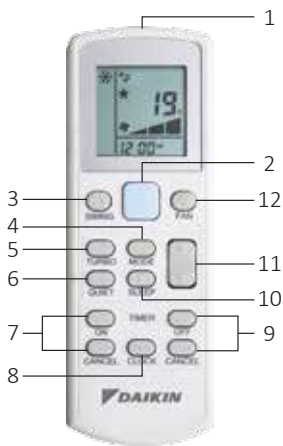
-  Washable Saranet Filter- Removal of airborne dust particles through saranet filter ensures cleaner air supply

## CONTROLLER

-  With Wireless Remote Controller
-  With Wired Remote Controller

# Controller

## Wireless Controller - BRC52A62



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

## Wired Controller - BRC51A62



- Features:
- Cool/Fan/Dry mode
  - Auto/High/Medium/Low fan speed
  - Temperature display in °C and °F
  - Turbo and Quiet function
  - Sleep function
  - Swing function
  - Real time clock and day display
  - 7-days programmable timer (up to 2 sets)
  - Error indicator
  - Key lock and fan lock features
  - Batteries back up 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 (BRC52A62)



# Intelligent Control Series

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 giving you benefits:

## Network Control NIM

### Benefits

- More convenience. No more individually controlling 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.

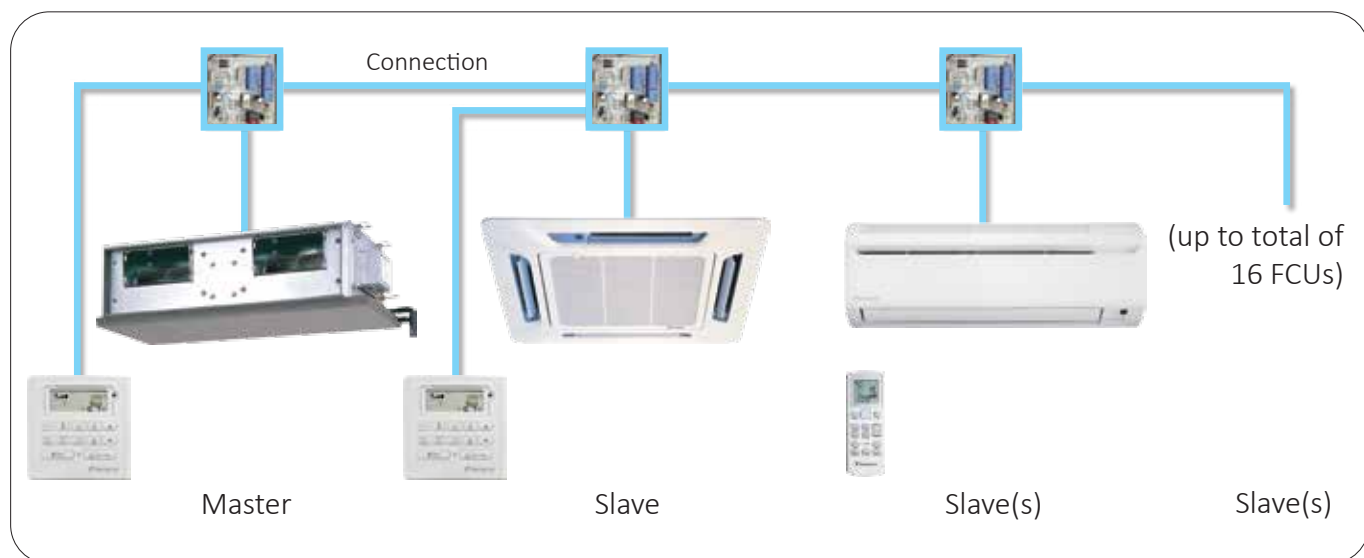
### Basic Features

- 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
- BRC52A62 or BRC51A62

### Supported Configuration

	Master	Slave
BRC51A62	●	●
BRC52A62	—	●

### 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).

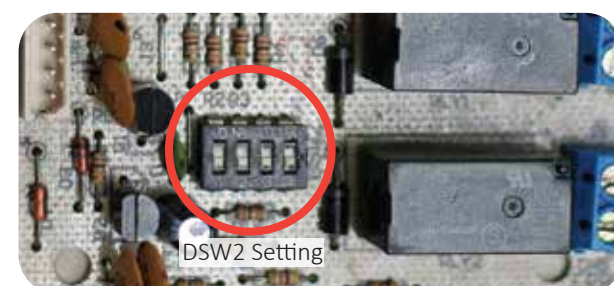
## G-Way

### Function

- Gateway between fan coil unit and basic Building Management System (BMS).

### Note:

- Remote (On/Off) control of air conditioner via BMS.
- Unit error indication via BMS and BRC51A62 controller.
- Unit operation status monitoring via BMS.
- Maximum point to point communication bus between air conditioner and BMS of up to 1000m.
- DIP switch setting for control or monitoring function.



Types of Operation	DSW2 Setting
Control & Monitor (Ext. Switch Closed = ON A/C)	0000
Control & Monitor (Ext. Switch Open = ON A/C)	0010
Monitoring only	0001

