



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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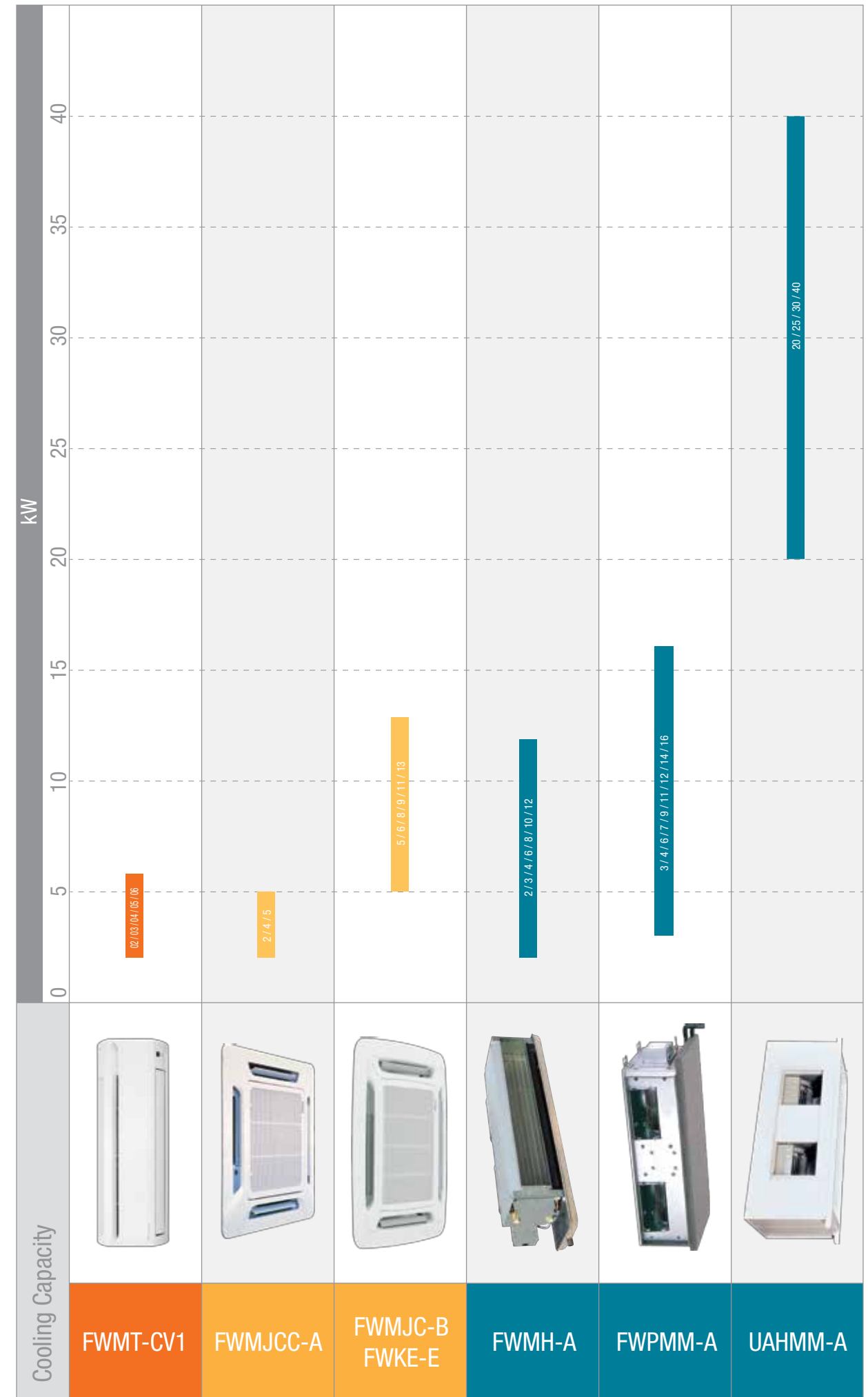
Ducted Blower Type



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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



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							
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			310 X 1065 X 224				
PACKING DIMENSION	H X W X D	mm			344 x 874 x 274				
UNIT WEIGHT	kg	9			14				
CONDENSATE DRAIN SIZE	mm	19.05							
PIPE CONNECTION	mm	12.70							
FAN	TYPE	CROSS FLOW FAN							
		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	INDUCTION							
		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			
POLES		4							
COIL	TUBE	COPPER							
		DIAMETER	mm	7.00					
	FIN	ALUMINIUM							
		FACE AREA	m ²	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	45°C (2 Pipes System) 60°C (4 Pipes System)

ALL SPECIFICATIONS ARE SUBJECTED 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				
CONTROL	AIR DISCHARGE OPERATION	4 WAY AUTOMATIC LOUVER (UP & DOWN) LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL				
	AIR FLOW					
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				
	DRIVE	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	m ²	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	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	45°C (2 Pipes System) 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	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	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	
POLES		8						
COIL	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	45°C (2 Pipes System) 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

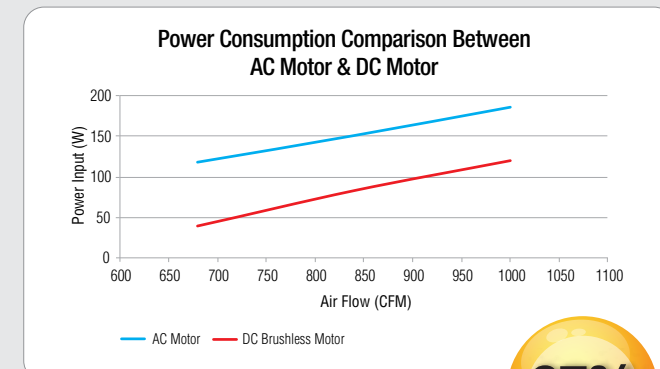
- › Comfortable
- › Energy Saving
- › Low Noise
- › Low Maintenance & No Brush Sparking
- › Modulating Fan Speed Control
- › Optimum Air Discharge
- › Multi Comfort - 3 Air Swing Pattern Control

- › 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 Wireless Remote Controller

Energy Saving

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

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



Energy Saving Maximum

67%

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.

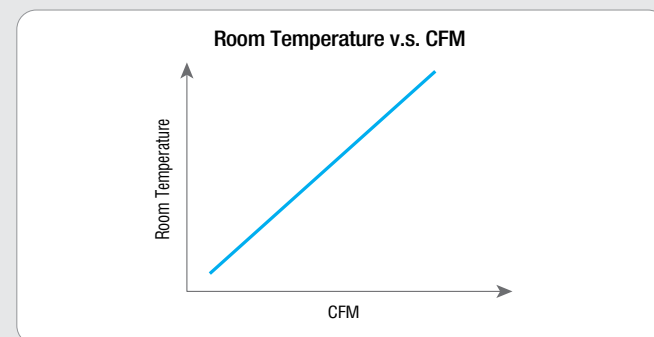


Low Maintenance & No Brush Sparking

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



Recommended Applications

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



Office



Restaurant



Home

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													
CONTROL	AIR DISCHARGE OPERATION	4 WAY AUTOMATIC LOUVER (UP & DOWN)												
		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	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	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												
INDOOR UNIT	FAN	TYPE	TURBO FAN											
		DRIVE	DIRECT											
		FAN SPEED	RPM	200	280	360	450	350	440	550	660	400	510	630
FAN MOTOR	TYPE	BLDC												
	INDEX OF PROTECTION (IP)	IP20				IP20				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	1.5				2.2				2.2			
	MOTOR OUTPUT	W	70				70				100			
COIL	TUBE	MATERIAL	COPPER											
		DIAMETER	mm	7.00										
	FIN	MATERIAL	ALUMINUM											
		FACE AREA	m ²	0.39				0.37				0.46		
	ROW		2				3				3			
WATER VOLUME	Litre	1.36				1.97				2.35				
AIR QUALITY	FILTER	TYPE	WASHABLE SARANET FILTER											
		QUANTITY	pc	1										
CASING	COLOUR	LIGHT GREY												

NOTE:

- A) BASED ON EUROVENT CONDITIONS
- B) ADDITIONAL 10W IS REQUIRED FOR CONDENSATE DRAIN PUMP
- C) SOUND PRESSURE LEVEL IS TESTED AS PER JIS STANDARD AS BELOW:
FWKE05E MODEL - 1.4M BELOW THE FACE CENTER OF AIR RETURN OF THE UNIT
FWKE08/11E MODEL - 1.5M BELOW THE FACE CENTER OF AIR RETURN OF THE UNIT

MODE	COOLING	HEATING
ENTERING AIR TEMPERATURE	27°C DB / 19°C WB	20°C DB
ENTERING WATER TEMPERATURE	7°C	50°C (2 Pipes System) 70°C (4 Pipes System)
LEAVING WATER TEMPERATURE	12°C	45°C (2 Pipes System) 60°C (4 Pipes System)

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Ceiling Concealed Type

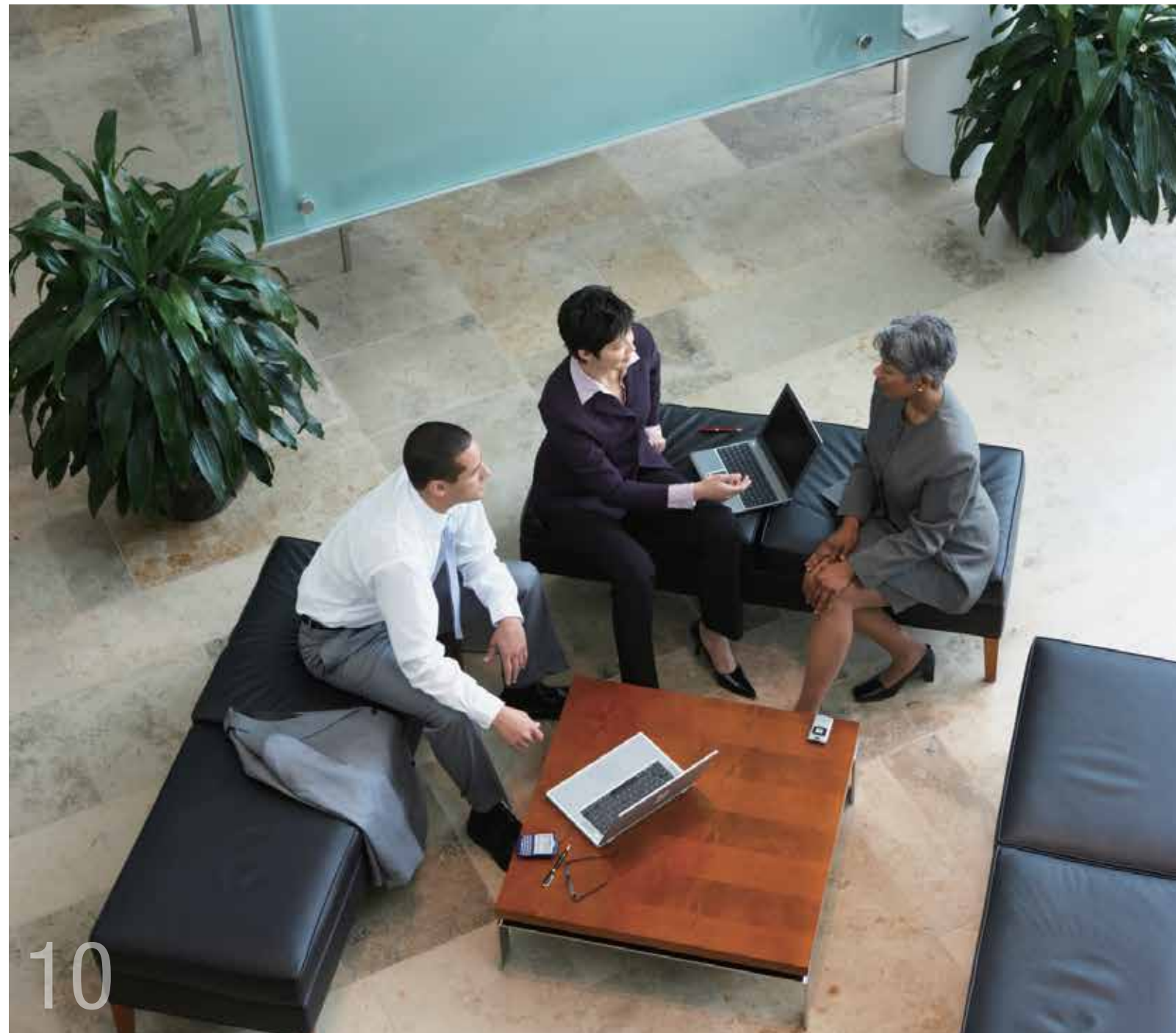


FWMH-A

- › 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. Choice Of 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		FWMH2A0(Z)V1	FWMH3A0(Z)V1	FWMH4A0(Z)V1	FWMH6A0(Z)V1	FWMH8A0(Z)V1	FWMH10A0(Z)V1	FWMH12A0(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	MATERIAL		COPPER							
	DIAMETER		mm / in 9.52 / 0.375							
	THICKNESS		mm / in 0.30 / 0.012							
	MATERIAL		ALUMINIUM							
	THICKNESS		mm / in 0.11 / 0.0043							
	FIN		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
UNIT DIMENSION	HEIGHT		mm / in 251 / 9.88							
	WIDTH		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							
	HEIGHT		mm / in 260 / 10.24							
PACKING DIMENSION	WIDTH		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							
	HEIGHT		mm / in 251 / 9.88							
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	45°C (2 Pipes System) 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	45°C (2 Pipes System) 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	45°C (2 Pipes System) 60°C (4 Pipes System)

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

Specification for Ceiling Concealed Type (ESP =80Pa)

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	65,411		
	W		3,500	5,100	7,300	9,960	13,081	14,780	19,171		
AIR FLOW	HIGH	m ³ /h / CFM	360 / 212	510 / 300	750 / 441	1,010 / 594	1,380 / 812	1,570 / 924	2,000 / 1,180		
	MEDIUM	m ³ /h / CFM	250 / 147	350 / 206	470 / 276	770 / 453	1,070 / 629	1,110 / 653	1,470 / 865		
	LOW	m ³ /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	m ³ /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	m ² / ft ²		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	45°C (2 Pipes System) 60°C (4 Pipes System)

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

Ceiling Concealed Type



FWPMM-A



BRC51A62

- › Wide Capacity Range
- › Double Protection Drainage System (Primary And Secondary Drain Pan)
- › Flexible System Design
- › Superior Air Distribution

- › Choices Of With Or Without Wired Handset

- › Series Offer:
 - i. Wired Wired Handset: FWPMM3-16A(Z)V1*
 - ii. Without Wired Handset: FWPMM3-16A(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						
INDOOR UNIT	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	m ²	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	45°C (2 Pipes System) 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							
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							
INDOOR UNIT	FAN	TYPE	BLOWER						
		DRIVE	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	IP20	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			
POLES		4							
COIL	TUBE	MATERIAL	COPPER						
		DIAMETER	mm	9.52					
	FIN	MATERIAL	ALUMINIUM						
		FACE AREA	m ²	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	45°C (2 Pipes System) 60°C (4 Pipes System)

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Ducted Blower Type



* Applicable to UAHMM 30/40A only



UAHMM-A



- › 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)V1	UAHMM25A(Z)V1	UAHMM30A(Z)Y1	UAHMM40A(Z)Y1		
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 OPERATION	DUCTED					
		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		885 x 1540 x 850			
PACKING DIMENSION	H X W X D	mm		762 x 1605 x 880			
UNIT WEIGHT	kg	92	102	176	189		
CONDENSATE DRAIN SIZE	mm	19.05					
PIPE CONNECTION	mm	28.58					
INDOOR UNIT	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					
		IP22					
	INDEX OF PROTECTION (IP)		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	m ²	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					

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	45°C (2 Pipes System) 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



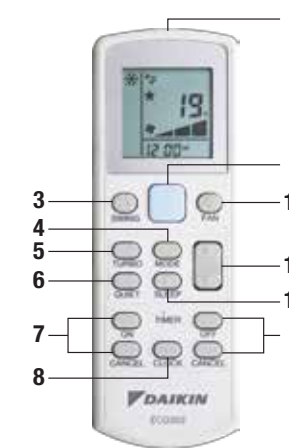
With Wireless Remote Controller



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 respond 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.

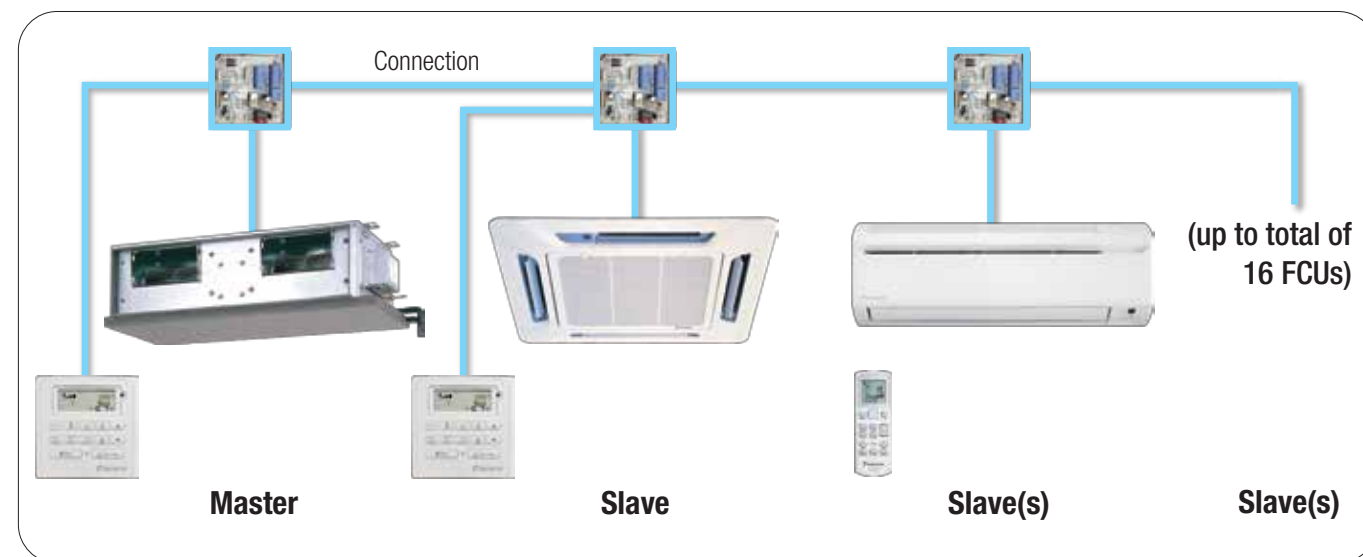


Basic Features

- **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).

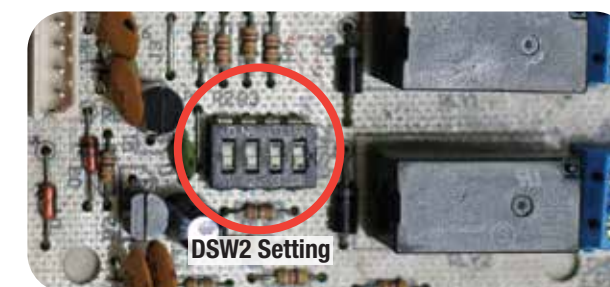
G-Way

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

