



MM Multi Zone Inverter Series



Serie MM de Inverter Multizona



Technical Specifications / Especificaciones Técnicas

Model		MMAHT09S	MMAHT12S	MMAHT18S	MMAHT24S	
Power supply		Ph-V-Hz	208-230~1-60	208-230~1-60	208-230~1-60	208-230~1-60
Indoor fan motor	Model	ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-58-8-1	ZKFN-120-8-2	
	RLA	A	0.25	0.25	0.4	0.45
Indoor air flow (Hi/Mi/Lo)		m3/h	450 / 348 / 240	520 / 360 / 250	950 / 620 / 520	1050 / 800 / 550
Indoor air flow (Hi/Mi/Lo)		CFM	264 / 205 / 141	306 / 212 / 147	559 / 365 / 306	618 / 471 / 324
Indoor noise level (Hi/Mi/Lo)		dB(A)	39 / - / 24.5	39 / - / 25	45.5 / - / 34.5	50 / - / 35.5
Indoor unit	Dimension (W*D*H)	mm	802 x 189 x 297	802 x 189 x 297	1080 x 226 x 335	1080 x 226 x 335
	Dimension (W*D*H)	inch	31.57 x 7.44 x 11.69	31.57 x 7.44 x 11.69	42.52 x 8.90 x 13.19	42.52 x 8.90 x 13.19
	Packing (W*D*H)	mm	875 x 285 x 375	875 x 285 x 375	1155 x 415 x 315	1155 x 415 x 315
	Packing (W*D*H)	inch	34.45 x 11.22 x 14.76	34.45 x 11.22 x 14.76	45.47 x 16.34 x 12.40	45.47 x 16.34 x 12.40
	Net/Gross weight	Kg	8.2 / 10	8.2 / 10	13.2 / 16.8	13.2 / 16.8
	Net/Gross weight	lbs.	18.1 / 22.0	18.1 / 22.0	29.1 / 37.0	29.1 / 37.0
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature	Indoor(cooling/ heating)	°C	17~32 / 0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Indoor(cooling/ heating)	°F	62~90 / 32~86	62~90/32~86	62~90/32~86	62~90/32~86
Application area		m ² / ft ²	12-17.6 / 129-189	16-23.4 / 172-252	23.3-34.2 / 251-368	30.6-44.9 / 330-484

High Wall



Model		MMDHT09S	MMDHT12S	MMDHT18S	MMDHT24S	
Power supply		Ph-V-Hz	208-230~1-60	208-230~1-60	208-230~1-60	208-230~1-60
Indoor fan motor	Model	ZKFN-55-8-1	ZKFN-55-8-1	ZKFN-90-8-1	ZKFN-90-8-1	
	RLA	A	0.9	1	1.5	2
	Speed	r/min	1010 / 890 / 780	1100 / 960 / 830	1090 / 950 / 860	1020 / 840 / 750
Indoor air flow (Hi/Med/Lo) (No duct)		m ³ /h	570 / 493 / 408	629 / 544 / 442	884 / 731 / 612	1394 / 1054 / 884
Indoor air flow (Hi/Med/Lo) (No duct)		CFM	335 / 290 / 240	370 / 320 / 260	520 / 430 / 360	820 / 620 / 520
ESP	Range	Pa	0-45	0-45	0-70	0-100
	Range	In. WG	0-0.18	0-0.18	0-0.28	0-0.40
Indoor noise level (Hi/Med/Lo)		dB(A)	39 / 37 / 33	40 / 38 / 33	36 / 34 / 30	50 / 46 / 45
Indoor unit	Dimension (WxDxH) (body)	mm	700 x 635 x 210	700 x 635 x 210	920 x 635 x 210	920 x 635 x 270
	Dimension (WxDxH) (body)	inch	27.56 x 25 x 8.27	27.56 x 25 x 8.27	36.22 x 25 x 8.27	36.22 x 25 x 10.63
	Packing (WxDxH) (body)	mm	915 x 655 x 290	915 x 655 x 290	1135 x 655 x 290	1135 x 655 x 350
	Packing (WxDxH) (body)	inch	36.02 x 25.79 x 11.42	36.02 x 25.79 x 11.42	44.68 x 25.79 x 11.42	44.68 x 25.79 x 13.78
	Net/Gross weight (body)	kg	18.1 / 22.8	18.1 / 22.8	23 / 29	26 / 31
	Net/Gross weight (body)	lbs.	39.90 / 50.27	39.90 / 50.27	50.7 / 63.93	57.32 / 68.34
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340
Drainage water pipe diameter		mm	ODΦ25	ODΦ25	ODΦ25	ODΦ25
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")
Controller			Wired control	Wired control	Wired control	Wired control
Room temperature	Cooling	°C / °F	17~32 / 62~90	17~32 / 62~90	17~32 / 62~90	17~32 / 62~90
	Heating	°C / °F	0~30 / 32~86	0~30 / 32~86	0~30 / 32~86	0~30 / 32~86
Operation temperature		°C / °F	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86

Duct





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Technical Specifications / Especificaciones Técnicas

Model		MMCHT09S	MMCHT12S	MMCHT18S	MMCHT24S	
Power supply	V-Ph-Hz	208-230~1-60	208-230~1-60	208-230~1-60	208-230~1-60	
Indoor air flow (Hi/Med/Low) (No duct)	m ³ /h	600 / 520 / 460	574 / 490 / 422	956/825/746	1400 / 1250 / 1000	
Indoor air flow (Hi/Med/Low) (No duct)	CFM	353 / 306 / 271	338 / 288 / 248	562/485/439	820 / 740 / 590	
Indoor noise level (Hi/Med/Low) (Standard pressure)	dB(A)	41 / 39 / 37	41 / 38 / 35	46/43/41	51 / 47 / 43	
Indoor unit	Dimension (WxDxH) (body)	mm	570 x 570 x 260	570 x 570 x 260	570 x 570 x 260	840 x 840 x 205
	Dimension (WxDxH) (body)	inch	22.44 x 22.44 x 10.24	22.44 x 22.44 x 10.24	22.44 x 22.44 x 10.24	33.07 x 33.07 x 8.07
	Packing (WxDxH) (body)	mm	655 x 655 x 290	655 x 655 x 290	655 x 655 x 290	900 x 900 x 217
	Packing (WxDxH) (body)	inch	25.79 x 25.79 x 11.42	25.79 x 25.79 x 11.42	25.79 x 25.79 x 11.42	35.43 x 35.43 x 8.54
	Dimension (WxDxH) (panel)	mm	647 x 647 x 50	647 x 647 x 50	647 x 647 x 50	950 x 950 x 55
	Dimension (WxDxH) (panel)	inch	25.47 x 25.47 x 1.97	25.47 x 25.47 x 1.97	25.47 x 25.47 x 1.97	37.4 x 37.4 x 2.17
	Packing (WxDxH) (panel)	mm	715 x 715 x 123	715 x 715 x 123	715 x 715 x 123	1035 x 1035 x 90
	Packing (WxDxH) (panel)	inch	28.15 x 28.15 x 4.84	28.15 x 28.15 x 4.84	28.15 x 28.15 x 4.84	40.75 x 40.75 x 3.54
	Net/Gross weight (body)	kg	16 / 19	16 / 19	18 / 21	20.5 / 24
	Net/Gross weight (body)	lbs.	35.27 / 41.88	35.27 / 41.88	39.68 / 46.3	45.19 / 52.91
Net/Gross weight (panel)	kg	2.5 / 4.5	2.5 / 4.5	2.5 / 4.5	5 / 8	
Net/Gross weight (panel)	lbs.	5.51 / 9.92	5.51 / 9.92	5.51 / 9.92	11.02 / 17.64	
Design pressure	PSIG	550 / 340	550 / 340	550 / 340	550 / 340	
Drainage water pipe diameter	mm	ODΦ25	ODΦ25	ODΦ25	ODΦ32	
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")
Controller			Remote control	Remote control	Remote control	Remote control
Room temperature	Cooling	°C / °F	17~32 / 62~90	17~32 / 62~90	17~32 / 62~90	17~32 / 62~90
	Heating	°C / °F	0~30 / 32~86	0~30 / 32~86	0~30 / 32~86	0~30 / 32~86
Operation temperature	°C / °F	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86	

Cassette



Model		MMCUT18AS2	MMCUT27AS3	MMCUT36AS4	MMCUT48AS5		
Power supply	V-Ph-Hz	208-230~1-60	208-230~1-60	208-230~1-60	208-230~1-60		
Cooling	Capacity	Btu/h	18000	27000	36000	48000	
	Capacity Range	Btu/h	3995~19476	8500~30400	5630~38510	8860~52000	
Heating (47°F)	Capacity	Btu/h	18500	27000	36000	50000	
	Capacity Range	Btu/h	2539~24249	6290~36200	4960~42660	6480~54050	
MINIMUM CIRCUIT AMPACITY	A	18.0	25.0	30.0	35.0		
MAX.FUSE	A	25.0	35.0	45.0	50.0		
Compressor	Model		ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU	
	Type		ROTARY	ROTARY	ROTARY	TWIN-ROTARY	
	Rated current(RLA)	A	10	20.00	22.00	21.00	
Outdoor air flow	m ³ /h / CFM	2362 / 1390	3619 / 2130	3619 / 2130	7646 / 4500		
Outdoor noise level	dB(A)	62.4	63.4	62.3	64		
Outdoor Unit	Dimension(W*D*H)	mm	845 x 363 x 702	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1333	
	Dimension(W*D*H)	inch	33.27 x 14.29 x 27.64	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89	37.48 x 16.34 x 52.48	
	Packing (W*D*H)	mm	965 x 395 x 755	1090 x 500 x 875	1090 x 500 x 875	1095 x 495 x 1480	
	Packing (W*D*H)	inch	37.99 x 15.55 x 29.72	42.91 x 19.69 x 34.45	42.91 x 19.69 x 34.06	43.11 x 19.49 x 58.27	
	Net/Gross weight	Kg	48 / 52	68 / 73	71 / 76	101.5 / 115.7	
Net/Gross weight	lbs.	105.82 / 114.64	149.91/160.94	156.53 / 167.55	223.77 / 255.07		
Refrigerant type (R-410A)	oz	70.5	98.8	105.8	162.3		
Refrigerant precharge (Total pipe length)	ft	25	25	25	25		
Additional charge for each ft	oz	0.161	0.161	0.161	0.32		
Design pressure	PSIG	550 / 340	550 / 340	550 / 340	550 / 340		
Refrigerant piping	Liquid side/ Gas side	mm (inch)	2 x Φ6.35/Φ9.52 (1/4"/3/8")	3 x Φ6.35/Φ9.52 (1/4"/3/8")	4 x Φ6.35/3x Φ9.52+1xΦ12.7 (4 x 1/4" / 3 x 3/8"+1 x 1/2")	5 x Φ6.35/ 3 x Φ9.52 + 2 x Φ12.7 (5 x 1/4" / 3 x 3/8" + 2 x 1/2")	
	Max. length for all rooms	m / ft	30 / 98	45 / 148	60 / 197	75 / 246	
	Max. length for one indoor unit	m / ft	20 / 66	25 / 82	30 / 98	30 / 98	
	Max. height difference between IDU and ODU	OU higher than IU	m / ft	10 / 33	10 / 33	10 / 33	10 / 33
		OU lower than IU	m / ft	15 / 49	15 / 49	15 / 49	15 / 49
Max. height difference between IDU's	m / ft	10 / 33	10 / 33	10 / 33	10 / 33		
Ambient temperature	Cooling	°C / °F	-25 ~ 50 / -13 ~ 122	-25 ~ 50 / -13 ~ 122	-25 ~ 50 / -13 ~ 122	-25 ~ 50 / -13 ~ 122	
	Heating	°C / °F	-25 ~ 30 / -13 ~ 86	-25 ~ 30 / -13 ~ 86	-25 ~ 30 / -13 ~ 86	-25 ~ 30 / -13 ~ 86	

Condensing Unit

