

# MUAHM-Series

■ 10 ~ 50 kW Cooling Capacities ■ 17 ~ 165 CMM Air Flow

## Air Handling Units

- Compact and lightweight, the MUAHM Series Air Handling Units are real space savers designed for easy transport and installation.
- They can be either suspended from or mounted in the ceiling.
- Installation on the floor is also possible by changing the position of the fittings.
- The MUAHM Series comes in six models from 17m<sup>3</sup>/min to 165m<sup>3</sup>/min capacity.
- These models combine easily with Daikin water chillers, boilers and other accessories to fill all your system needs.
- The MUAHM Series is the best way to air-condition houses, offices, shops, etc.



- The air discharge outlet can be directed either horizontally (standard) or upward on the site.
- The variable pitch motor pulley allows you to select the fan speed that is suitable for your air-handling needs.
- The drain pipe can be connected to either side of the unit.
- The operation of the non-lubrication bearings is maintenance-free.
- Options are available for various applications: evaporating pan type humidifier, steam or hot water heater, filter chamber, air filter, vibration isolator, suction grille, canvas-covered suction/discharge duct, and mixing chamber.



# MUAHM-SERIES Standard Specifications

Model	Right Hand Piping	MUAHM90AZY1	MUAHM150AZY1	MUAHM225AZY1	MUAHM300AZY1	MUAHM375AZY1	MUAHM450AZY1
	Left Hand Piping	MUAHM90AY1	MUAHM150AY1	MUAHM225AY1	MUAHM300AY1	MUAHM375AY1	MUAHM450AY1
<b>Cooling capacity *1/Sensible</b>	50 Hz kcal/h	8,600/6,190	14,200/10,660	21,300/15,900	28,700/21,410	35,400/25,915	42,500/30,095
	Btu/h	34,100/24,570	56,400/42,310	84,600/63,125	113,900/84,245	140,500/102,840	168,700/119,425
	kW	10/7.2	17/12.4	25/18.5	33/24.9	41/30.14	49/35
<b>Heating capacity *1</b>	50 Hz kcal/h	13,000	22,000	33,000	44,000	55,000	65,500
	Btu/h	51,600	87,300	131,000	174,000	218,400	260,000
	kW	15	26	38	51	64	76
<b>Chilled (hot) water flow rate</b>	ℓ/min	36	48	75	88	108	144
<b>Casing/color</b>	G.I. sheet/powder coat greyish white						
<b>Fan</b>							
Type	Dual inlet forward curved centrifugal fan						
Model		AT 9-7S	AT 9-7S	AT 10-10S	AT 10-10S	AT 10-10G2L	AT 10-10G2L
RPM		984	1259	1144	1212	1144	1144
Standard air flow rate	50Hz m <sup>3</sup> /hr	1,620	2,700	4,080	5,400	6,780	8,100
	cfm	950	1,590	2,400	3,180	3,990	4,770
External static pressure *2	50Hz mmH2O	19	30	32	30	33	34
Motor output	kW	0.37	0.75	1.5	1.5	2.2	2.2
Starting / Running Current	A	5.2/1.03	10/1.76	20/3.33	20/3.33	30/4.66	30/4.66
Drive	Belt drive (Fixed drive)						
Air flow	m <sup>3</sup> /hr.	1,020~2,160	2,160~3,300	3,240~4,980	4,320~6,600	5,400~8,160	6,480~9,900
	cfm	600~1,270	1,270~1,940	1,910~2,930	2,540~3,880	3,180~4,800	3,810~5,820
<b>Water coil</b>							
Type	Aluminium waffles louvers fins, Ø 9.5 Copper tubes						
Rows X stages X fin pitch		3 x 14 x 2	3 x 16 x 2	3 x 20 x 2	3 x 20 x 2	4 x 18 x 2	4 x 20 x 2
Face velocity	m/s	2.02	2.54	2.50	2.37	2.51	2.56
Face area	m <sup>2</sup>	0.25	0.33	0.50	0.70	0.79	0.88
Insulation material	Closed cell PE foam 13mm thick x 33kg/m <sup>3</sup>						
<b>Pipe Connection</b>							
Water coil inlet/outlet (BSGP) Male		1 ¼ B	1 ¼ B	1 ½ B	1 ½ B	2B	2B
Drain Outlet (BDGP) Female		1B	1B	1B	1B	1B	1B
<b>Dimensions (H X W X D)</b>	mm	520 x 950 x 690	570 x 1,050 x 760	650 x 1,230 x 800	650 x 1,620 x 800	650 x 1,970 x 800	650 x 1,970 x 800
<b>Machine weight</b>	kg	80	95	118	136	210	215
<b>Operating weight</b>	kg	83	99	124	143	221	227
<b>Noise level</b>	dBA	55	56	57.5	58.5	59	59.5

## Notes:

- Nominal capacities (\*1) are based on the following conditions:  
Cooling - Entering chilled water temp. 7°C, leaving chilled water temp. 12.5°C, entering air temp. 27°CDB, 19.5°CWB at standard air flow rate.  
Heating - Entering hot water temp. 60°C, entering air temp. 20°CDB at standard air flow rate.
- External static pressure (\*2) assume the standard setting of variable pitch motor pulley.
- Power supply: 3 phase 380 to 415v 50Hz. (440 to 460V, 3 phase 60Hz on request)
- Water coil operating conditions: 10 kg/cm<sup>2</sup>G, maximum 100°C.
- All models are manufactured in Malaysia in compliance with Daikin (Japan) design and not meant to comply with any overseas standard.
- Specifications are subject to change without prior notice.

## Conversion formula

Btu/h	= kcal/h x 3.97
kW	= kcal/h x 0.00116
Inches	= mm x 0.0394
Pounds	= kg x 2.205
Psi	= kg/cm <sup>2</sup> x 14.22
kPa	= kg/cm <sup>2</sup> x 98.07
cfm	= m <sup>3</sup> /min. x 35.3
US Gallons	= Liter x 0.264
UK Gallons	= Liter x 0.220
Ex. 8,600 kcal/h=	8,600 x 3.97
	= 34,100Btu/h



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