High Wall type

MMK-AP0073H2UL
MMK-AP0093H2UL
MMK-AP0123H2UL
MMK-AP0153H2UL
MMK-AP0183H2UL
MMK-AP0243H2UL



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1. Specifications



High Wall type

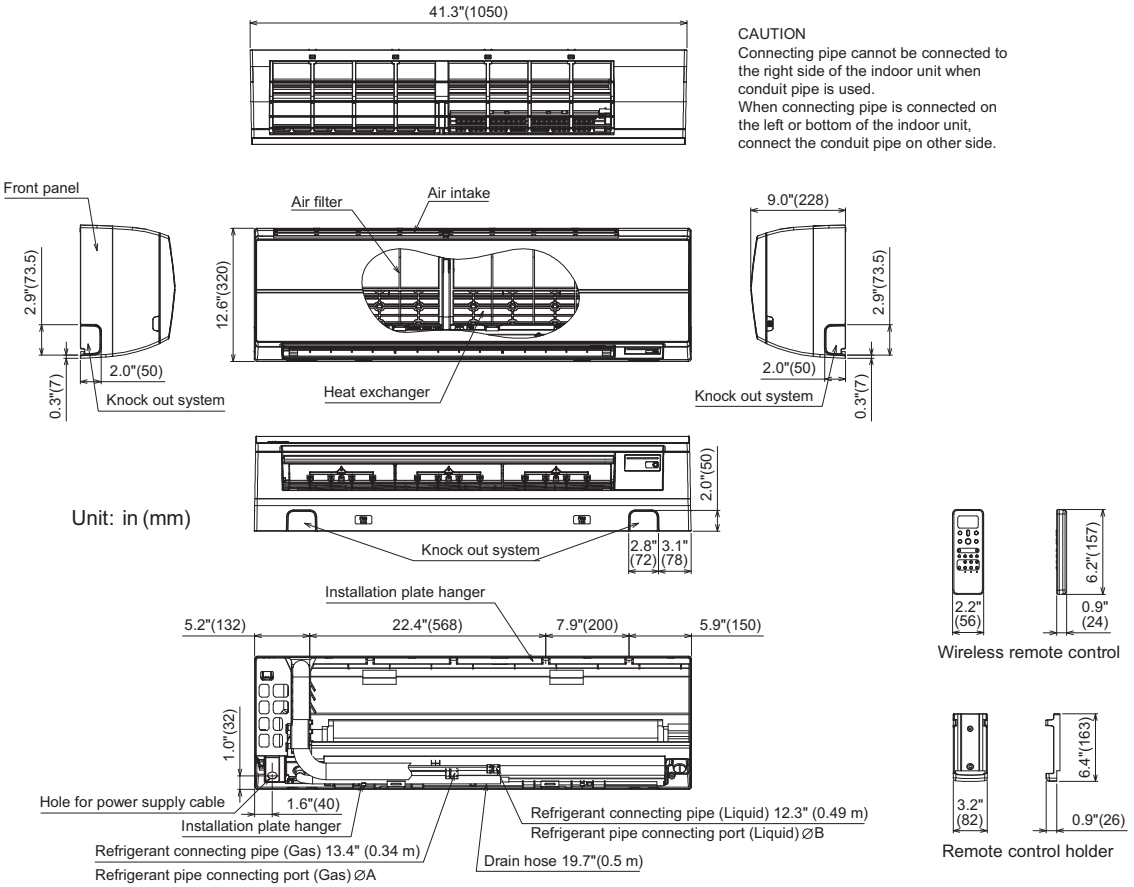
Model name				MMK-	AP0073H2UL	AP0093H2UL	AP0123H2UL	AP0153H2UL	AP0183H2UL	AP0243H2UL
Cooling Capacity				kBtu/h	7.5	9.5	12	15.4	18	24
Heating Capacity				kBtu/h	8.5	10.5	13.5	17	20	27
Electrical characteristics	Power supply				230 V(208/230 V) 1phase 60 Hz					
	Power consumption			kW	0.018	0.021	0.021	0.043	0.043	0.05
Appearance	Air intake grille and side panel				Moon white (Munsell 2.5GY9.0/0.5)					
	Discharge-grille				Moon white (Munsell 2.5GY9.0/0.5)					
	Bottom surface				Moon white (Munsell 2.5GY9.0/0.5)					
Dimension	Unit	Height		In	12.6	12.6	12.6	12.6	12.6	12.6
		Width		In	41.3	41.3	41.3	41.3	41.3	41.3
		Depth		In	9.0	9.0	9.0	9.0	9.0	9.0
	Packing	Height		In	15.7	15.7	15.7	15.7	15.7	15.7
		Width		In	43.9	43.9	43.9	43.9	43.9	43.9
		Depth		In	11.9	11.9	11.9	11.9	11.9	11.9
Total weight	Unit			lbs	33	33	33	33	33	33
	Packed unit			lbs	42	42	42	42	42	42
Heat exchanger					Finned tube					
Fan unit	Fan				Cross-flow fan					
	Standard air flow (High/Mid/Low)			cfm	340/270/230	350/280/230	350/280/230	490/390/320	490/390/320	600/440/340
	Motor			W	30	30	30	30	30	30
Air filter					Standard filter attached					
Connecting pipe	Gas side			In	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"
	Liquid side			In	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"
	Drain port (Nominal dia.)			In	VP16(Polyvinyl chloride tube: External Dia.0.87 Internal Dia.0.63)					
Sound pressure level (High/Mid/Low) (*1)				dB(A)	36/32.5/30	39/34/30	39/34/30	43/38/34.5	43/38/34.5	47.5/40.5/35

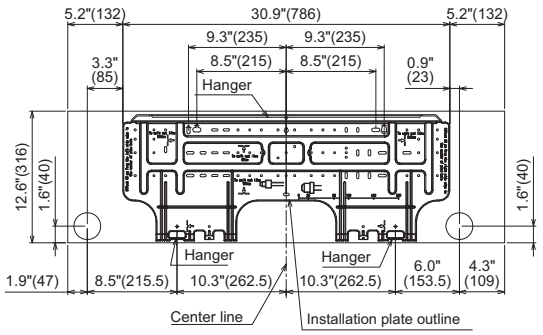
Note

(*1) The actual values in an external operating environment are generally higher than the indicated values due to the contribution from ambient noise.

2. Dimensions

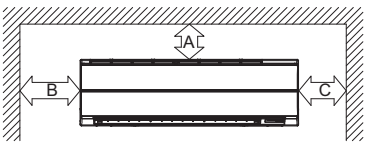
MMK-AP0073H2UL, AP0093H2UL, AP0123H2UL, AP0153H2UL, AP0183H2UL, AP0243H2UL





Installation plate

Space required for installation and servicing



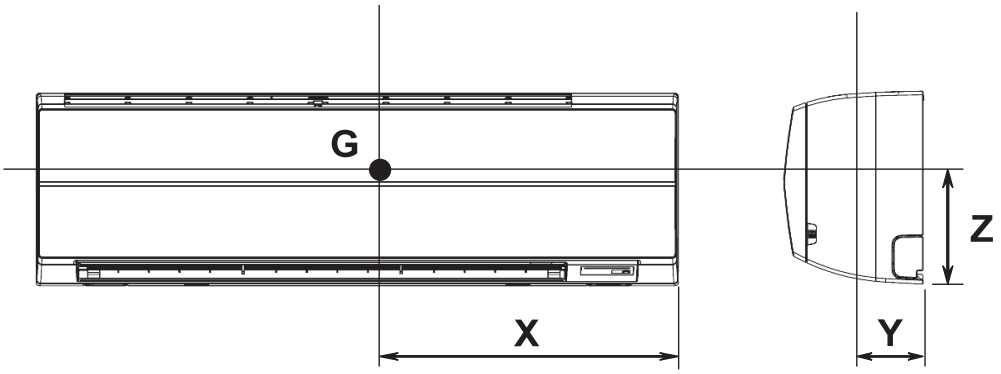
	Distance	Comments
A	2.0"(50) or more	
B	33.5"(850) or more	For exchange of cross flow fan
C	6.7"(170) or more	

Unit:in (mm)

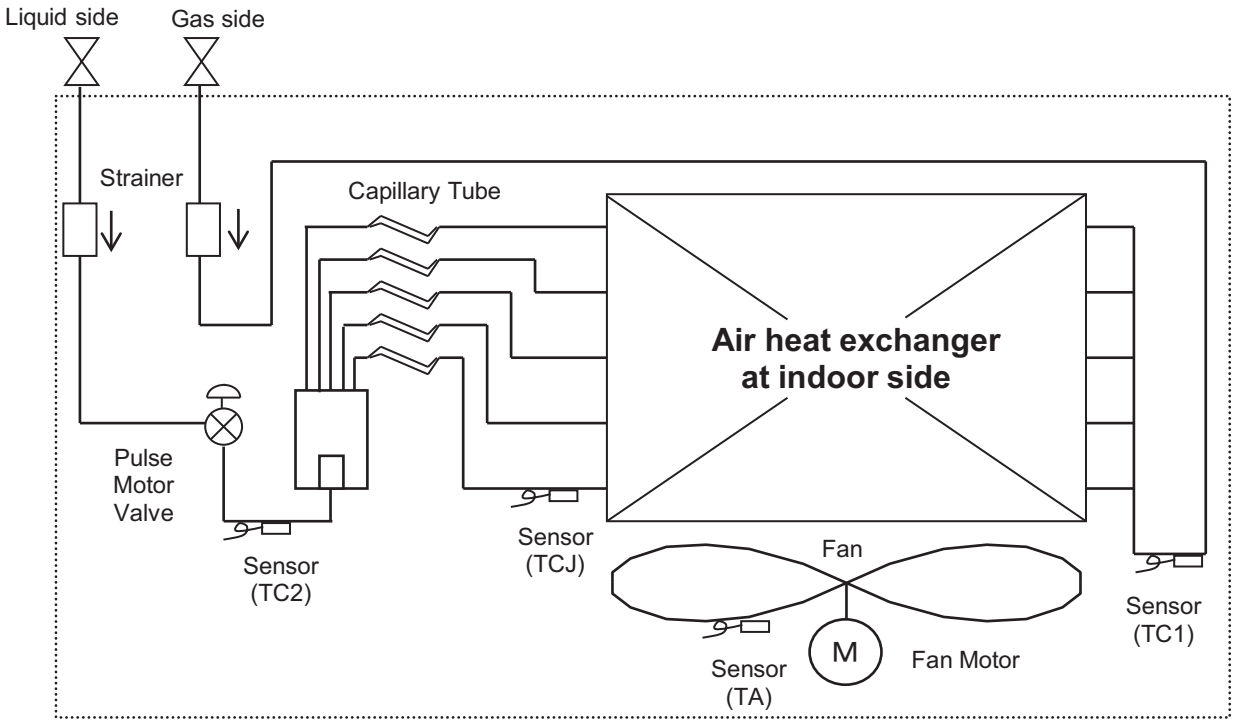
Model MMK-	A	B
AP007, 009, 012 Type	3/8" (9.5)	1/4" (6.4)
AP015, 018 Type	1/2" (12.7)	1/4" (6.4)
AP024 Type	5/8" (15.9)	3/8" (9.5)

3. Center of gravity

Model name	X (In)	Y (In)	Z (In)	Total weight (lbs)
MMK-AP0073H2UL	17.5	4.15	6.7	33
MMK-AP0093H2UL				
MMK-AP0123H2UL				
MMK-AP0153H2UL				
MMK-AP0183H2UL				
MMK-AP0243H2UL				

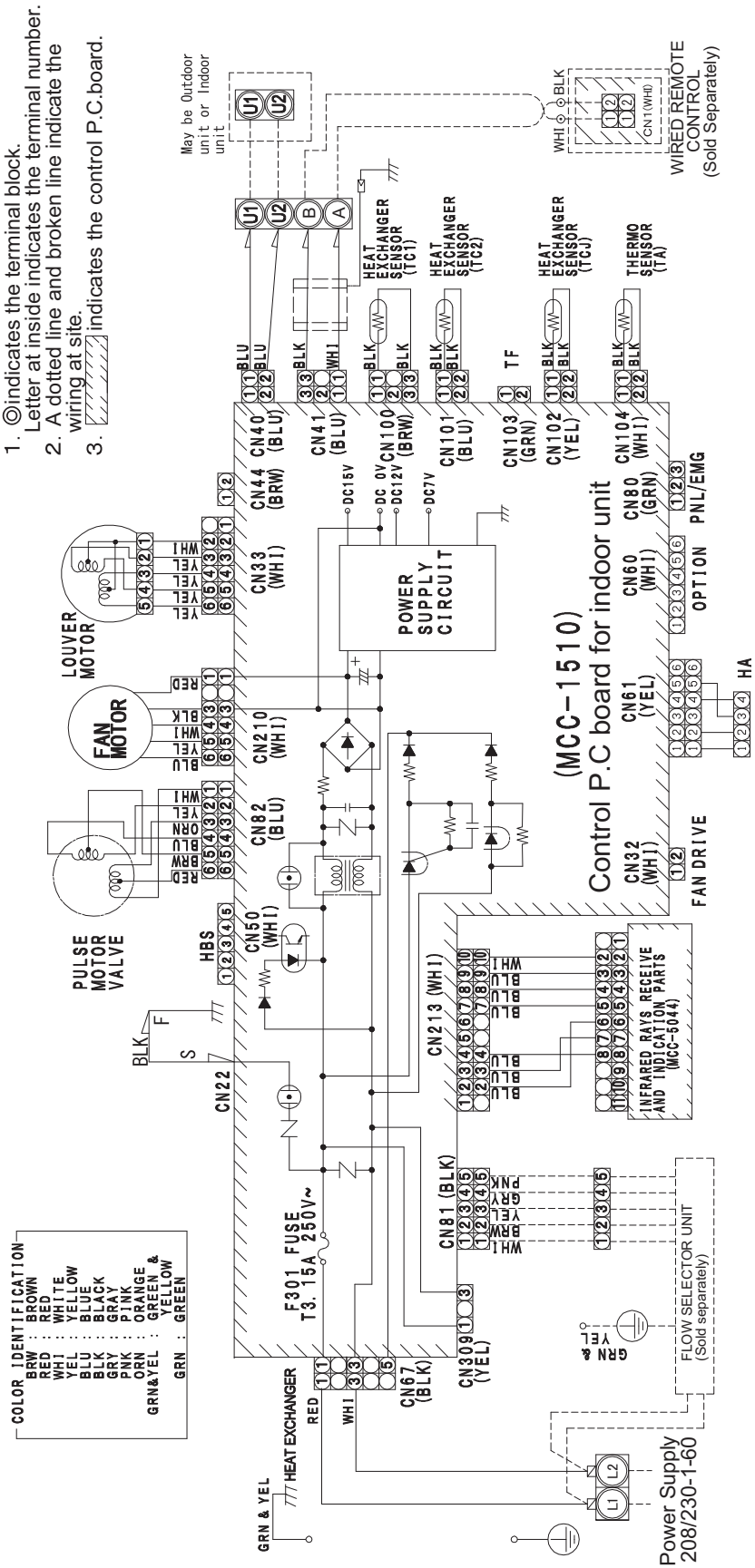


4. Piping diagram



5. Wiring diagram

MMK-AP0073H2UL, AP0093H2UL, AP0123H2UL, AP0153H2UL, AP0183H2UL, AP0243H2UL



6. Electrical current characteristics

Type	Model	Nominal Voltage (V-Ph-Hz)	Voltage Range (V)		Power consumption	FLA	MCA	MOCP
			Min	Max	kW	A	A	A
High Wall type	MMK-AP0073H2UL	208/230-1-60	187	253	0.018	0.2	0.3	15
	MMK-AP0093H2UL	208/230-1-60	187	253	0.021	0.2	0.3	15
	MMK-AP0123H2UL	208/230-1-60	187	253	0.021	0.2	0.3	15
	MMK-AP0153H2UL	208/230-1-60	187	253	0.043	0.4	0.5	15
	MMK-AP0183H2UL	208/230-1-60	187	253	0.043	0.4	0.5	15
	MMK-AP0243H2UL	208/230-1-60	187	253	0.05	0.4	0.5	15

MCA: Minimum Circuit Amps FLA: Full Load Amps
MOCP: Maximum Overcurrent Protection (Amps)

7. Sensible capacity table

High Wall type (MMK-AP___3H2UL)

TC: Total capacity [Btu/h] SHC: Sensible capacity [Btu/h]

unit size	outdoor air temp. °FDB	indoor air temp.													
		59 °FWB		61 °FWB		64 °FWB		67 °FWB		68 °FWB		72 °FWB		75 °FWB	
		71 °FDB		73 °FDB		77 °FDB		80 °FDB		82 °FDB		86 °FDB		90 °FDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	50	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	54	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	57	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	61	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	64	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	68	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	70	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	73	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	77	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	81	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	84	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	88	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	91	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	95	6380	5260	6680	5400	7100	5620	7500	5800	7630	5820	8110	5740	8450	5530
	99	6190	5110	6490	5240	6890	5460	7280	5630	7410	5650	7870	5570	8200	5370
	102	6050	4990	6330	5120	6730	5330	7110	5500	7230	5520	7690	5440	8010	5240
009	50	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	54	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	57	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	61	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	64	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	68	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	70	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	73	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	77	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	81	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	84	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	88	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	91	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	95	8090	6160	8460	6320	9000	6590	9500	6790	9660	6810	10270	6720	10700	6470
	99	7860	5980	8210	6140	8740	6400	9220	6590	9380	6610	9970	6530	10390	6280
	102	7670	5840	8020	5990	8530	6250	9010	6440	9160	6460	9740	6370	10140	6130
012	50	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	54	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	57	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	61	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	64	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	68	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	70	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	73	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	77	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	81	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	84	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	88	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	91	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	95	10210	7550	10690	7760	11360	8070	12000	8330	12210	8360	12980	8250	13510	7940
	99	9910	7330	10380	7530	11030	7840	11650	8090	11860	8120	12600	8010	13120	7710
	102	9680	7160	10130	7360	10770	7650	11380	7900	11580	7930	12310	7820	12810	7530

High Wall type (MMK-AP___3H2UL)

TC: Total capacity [Btu/h] SHC: Sensible capacity [Btu/h]

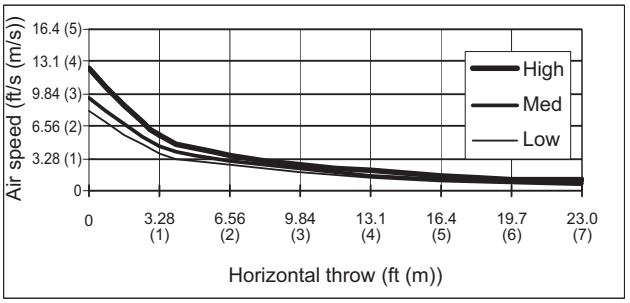
unit size	outdoor air temp. °FDB	indoor air temp.													
		59 °FWB		61 °FWB		64 °FWB		67 °FWB		68 °FWB		72 °FWB		75 °FWB	
		71 °FDB		73 °FDB		77 °FDB		80 °FDB		82 °FDB		86 °FDB		90 °FDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	50	13110	9000	13710	9240	14580	9620	15400	9920	15660	9950	16660	9820	17340	9450
	54	13110	9000	13710	9240	14580	9620	15400	9920	15660	9950	16660	9820	17340	9450
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	73	13110	9000	13710	9240	14580	9620	15400	9920	15660	9950	16660	9820	17340	9450
	77	13110	9000	13710	9240	14580	9620	15400	9920	15660	9950	16660	9820	17340	9450
	81	13110	9000	13710	9240	14580	9620	15400	9920	15660	9950	16660	9820	17340	9450
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	95	13110	9000	13710	9240	14580	9620	15400	9920	15660	9950	16660	9820	17340	9450
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	102	12430	8530	13000	8760	13820	9120	14600	9400	14850	9430	15790	9310	16440	8960
018	50	15320	10490	16030	10780	17040	11210	18000	11570	18310	11600	19470	11460	20270	11030
	54	15320	10490	16030	10780	17040	11210	18000	11570	18310	11600	19470	11460	20270	11030
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	95	15320	10490	16030	10780	17040	11210	18000	11570	18310	11600	19470	11460	20270	11030
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	102	14520	9940	15200	10220	16150	10630	17060	10970	17360	11000	18460	10860	19220	10460
024	50	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
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	70	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
	73	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
	77	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
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	84	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
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	91	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
	95	20430	14410	21370	14800	22730	15410	24000	15890	24410	15930	25960	15730	27020	15140
	99	19840	13990	20750	14370	22070	14960	23300	15430	23700	15470	25210	15270	26240	14700
	102	19370	13660	20260	14030	21550	14610	22750	15060	23140	15100	24610	14910	25610	14350

8. Fan characteristics

Discharge Air Speed and Air Throw

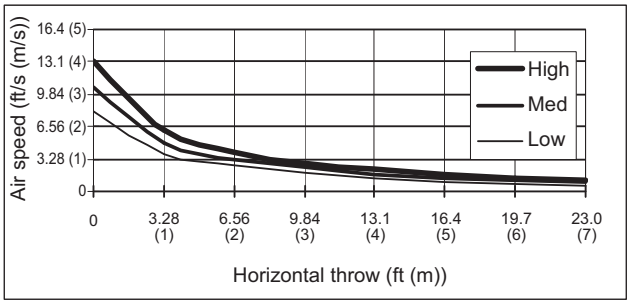
Model: MMK-AP0073H2UL

Horizontal discharge initial speed
High wind : 12.5 ft/s (3.8 m/s)
Med wind : 9.51 ft/s (2.9 m/s)
Low wind : 8.20 ft/s (2.5 m/s)



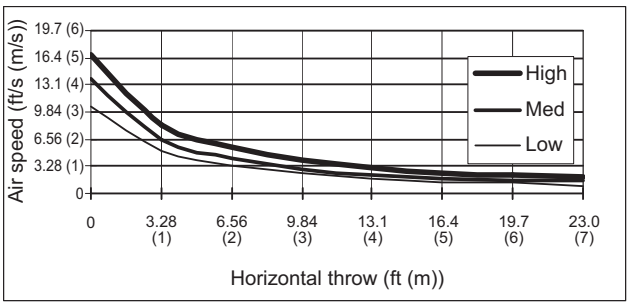
Model: MMK-AP0093H2UL/AP0123H2UL

Horizontal discharge initial speed
High wind : 13.1 ft/s (4.0 m/s)
Med wind : 10.5 ft/s (3.2 m/s)
Low wind : 8.20 ft/s (2.5 m/s)



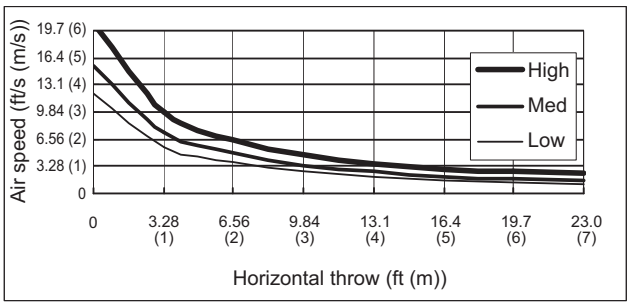
Model: MMK-AP0153H2UL/AP0183H2UL

Horizontal discharge initial speed
High wind : 16.7 ft/s (5.1 m/s)
Med wind : 13.8 ft/s (4.2 m/s)
Low wind : 10.5 ft/s (3.2 m/s)

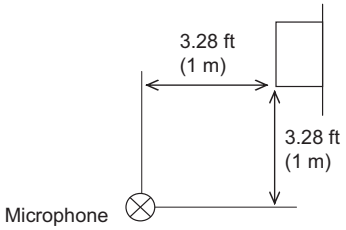


Model: MMK-AP0243H2UL

Horizontal discharge initial speed
High wind : 20.3 ft/s (6.2 m/s)
Med wind : 15.4 ft/s (4.7 m/s)
Low wind : 12.1 ft/s (3.7 m/s)

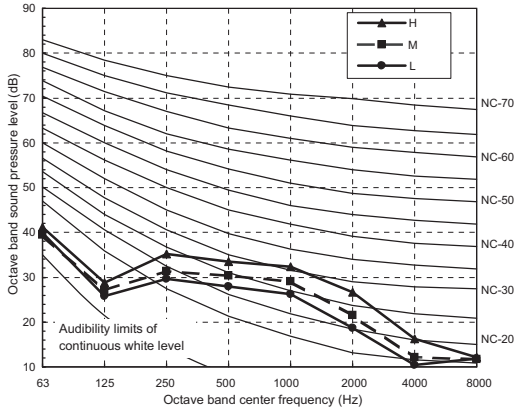


9. Sound data



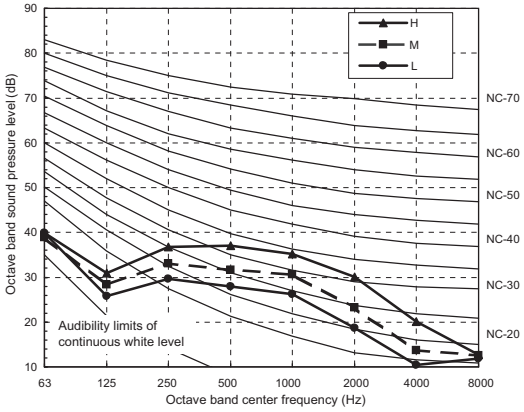
MMK-AP0073H2UL

Sound pressure level (dB (A))	H - M - L
	36-32.5-30



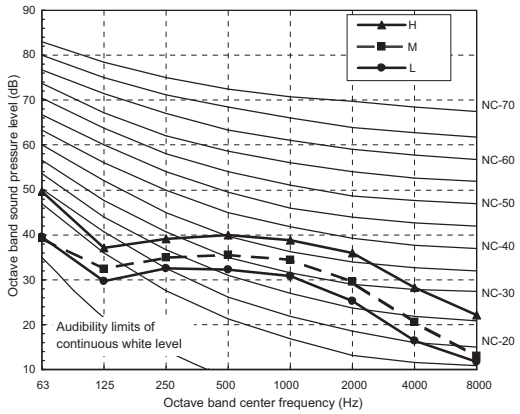
MMK-AP0093H2UL/ AP0123H2UL

Sound pressure level (dB (A))	H - M - L
	39-34-30



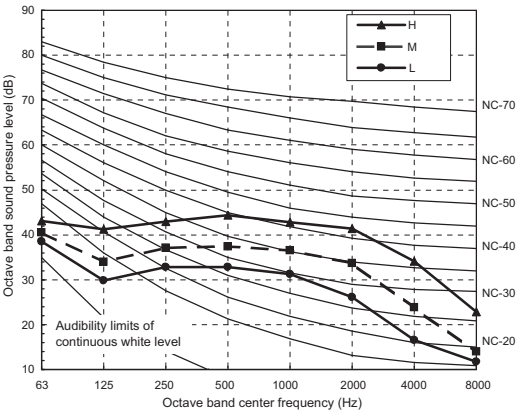
MMK-AP0153H2UL/ AP0183H2UL

Sound pressure level (dB (A))	H - M - L
	43-38-34.5



MMK-AP0243H2UL

Sound pressure level (dB (A))	H - M - L
	47.5-40.5-35



10. Accessories

Remote control

Packed with the indoor unit

Name	Model name	Appearance	Application	Function
Wireless remote control	WH-L15SE			• Start / Stop • Changing mode • Temperature setting • Air flow changing (5 steps) • Louver setting • Clock • Timer function - ON/OFF timer (10 min. step) - Everyday timer - Sleep timer - COMFORT SLEEP timer • High power mode • QUIET mode • One-touch pre-set memory • A/B temperature display switching

High Wall type Engineering Data Book

Model name:

MMK-AP___3H2UL

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TOSHIBA CARRIER CORPORATION