Ceiling type

MMC-AP0181H2UL

MMC-AP0241H2UL

MMC-AP0361H2UL

MMC-AP0421H2UL



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1. Specifications



Ceiling type

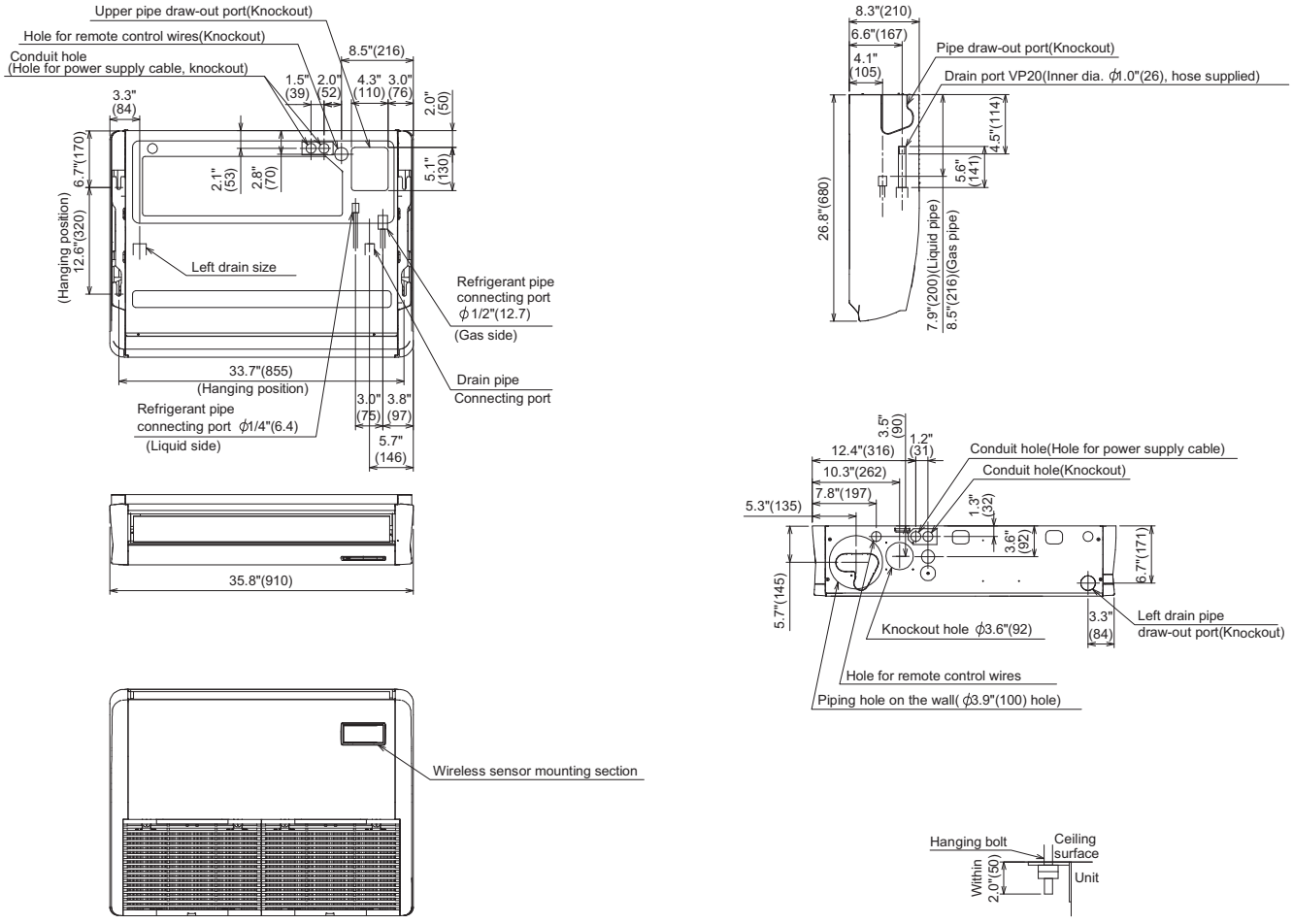
Model name			MMC-	AP0181H2UL	AP0241H2UL	AP0361H2UL	AP0421H2UL
Cooling Capacity			kBtu/h	18	24	36	42
Heating Capacity			kBtu/h	20	27	40	47.5
Electrical characteristics	Power supply			230 V (208/230 V) 1phase 60 Hz			
	Power consumption		kW	0.038	0.05	0.091	0.11
Appearance				White (Munsell 10Y 9.3/0.4)			
Dimension	Unit	Height	In	8.3	8.3	8.3	8.3
		Width	In	35.8	46.5	62.8	62.8
		Depth	In	26.8	26.8	26.8	26.8
	Packing	Height	In	12.4	12.4	12.4	12.4
		Width	In	39.1	50.0	66	66
		Depth	In	32.0	32.0	32.0	32.0
Total weight	Unit		lbs	46	57	75	75
	Packed unit		lbs	62	75	97	97
Heat exchanger				Finned tube			
Fan unit	Fan			Centrifugal fan			
	Standard air flow (High/Mid/Low)		cfm	410/360/320	590/530/470	880/770/680	950/820/730
	Motor		W	60	60	120	120
Air filter				Standard filter (Long life filter)			
Connecting pipe	Gas side		In	1/2"	5/8"	5/8"	5/8"
	Liquid side		In	1/4"	3/8"	3/8"	3/8"
	Drain port (Nominal dia.)		In	VP20(Polyvinyl chloride tube: External Dia.1 Internal Dia.0.79)			
Sound pressure level (High/Mid/Low) (*1)			dB(A)	38.5/35/32.5	40.5/38/35	44/41/37	46/42.5/39.5
Option parts	Drain Pump Kit			TCB-DP22CUL			
	Elbow Piping Kit			TCB-KP12CUL			
				TCB-KP22CUL			

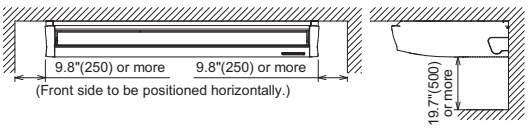
Note

(*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

MMC-AP0181H2UL

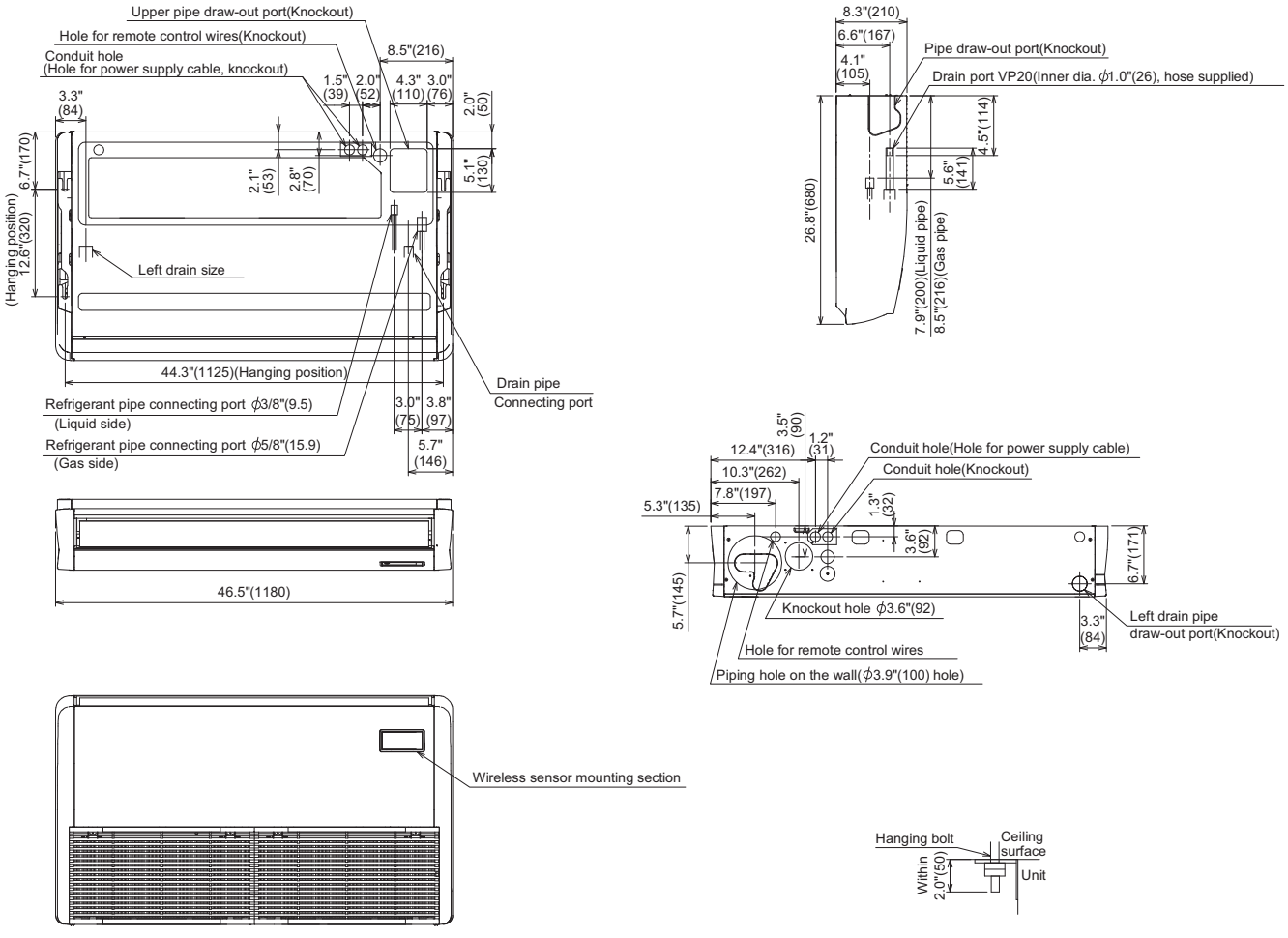


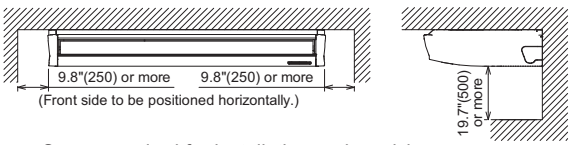


Space required for installation and servicing

Unit:in (mm)

MMC-AP0241H2UL

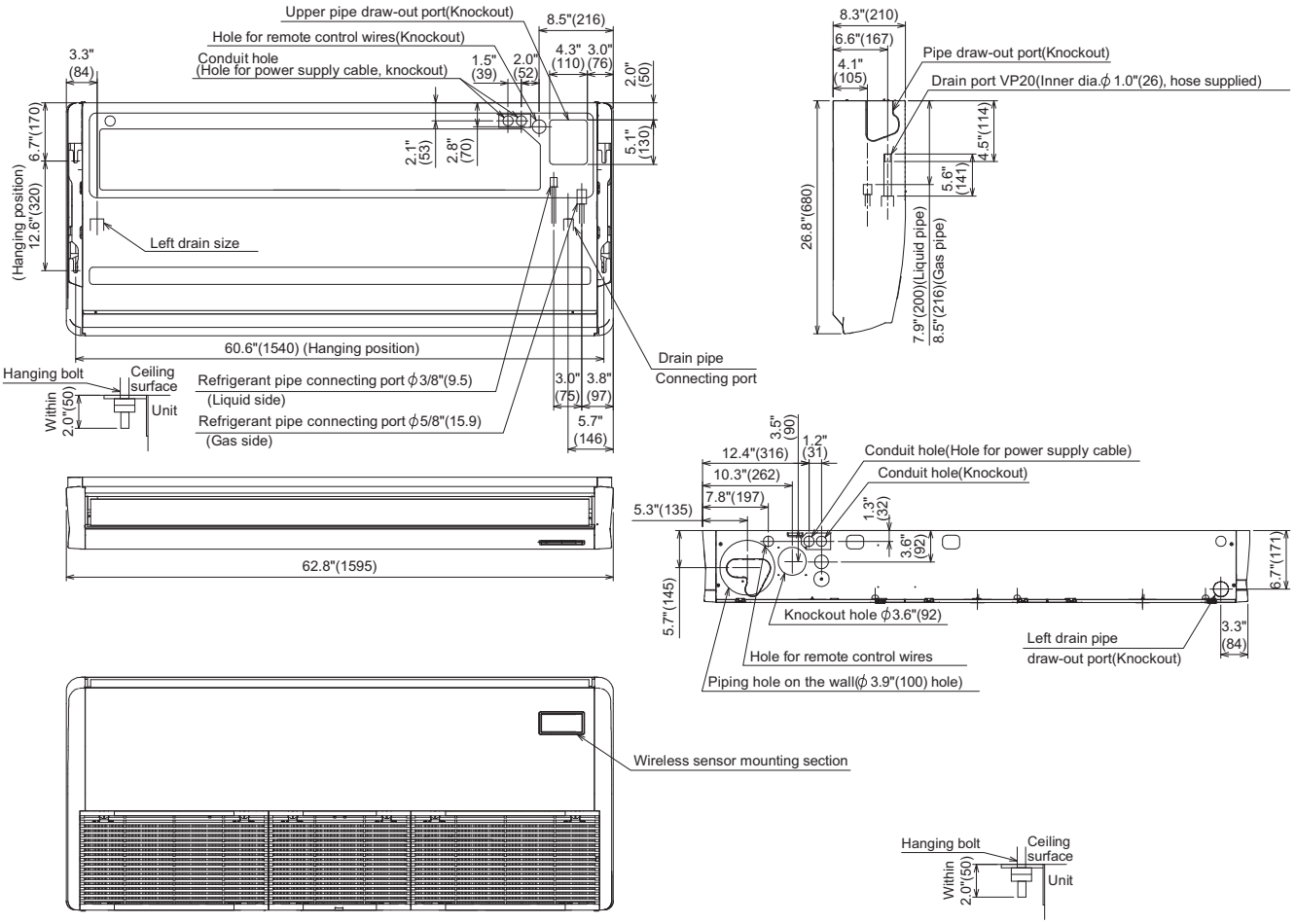


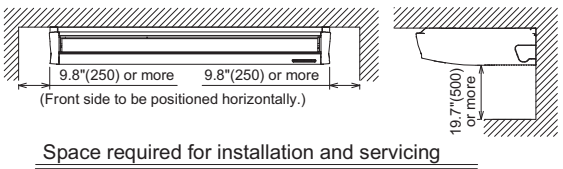


Space required for installation and servicing

Unit:in (mm)

MMC-AP0361H2UL, AP0421H2UL



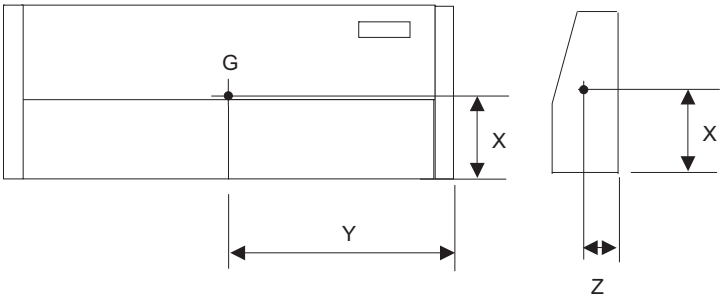


Space required for installation and servicing

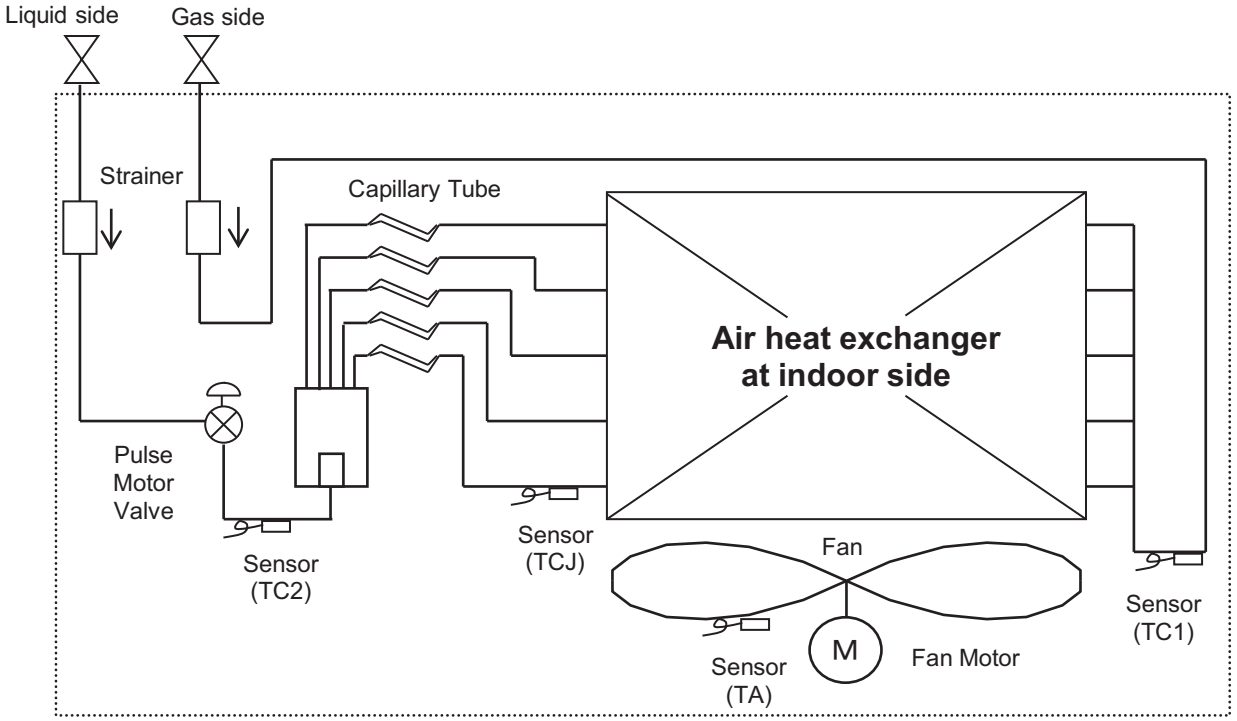
Unit:in(mm)

3. Center of gravity

Model name	X (In)	Y (In)	Z (In)	Total weight (lbs)
MMC-AP0181H2UL	12.6	18.1	3.55	46
MMC-AP0241H2UL		22.4		57
MMC-AP0361H2UL		30.3		75
MMC-AP0421H2UL				

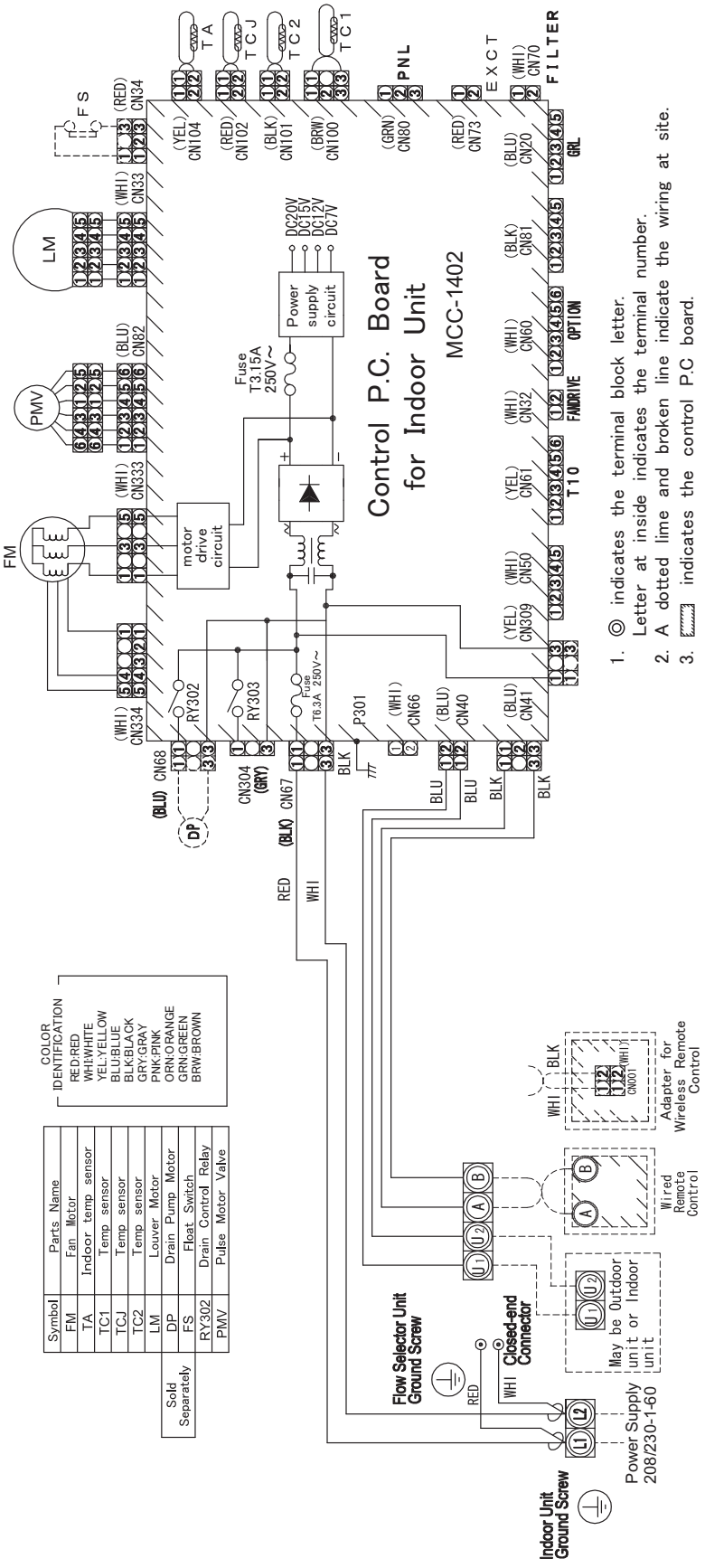


4. Piping diagram



5. Wiring diagram

MMC-AP0181H2UL, AP0241H2UL, AP0361H2UL, AP0421H2UL



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
Ceiling type	MMC-AP0181H2UL	208/230-1-60	187	253	0.038	0.4	0.5	15
	MMC-AP0241H2UL	208/230-1-60	187	253	0.05	0.5	0.7	15
	MMC-AP0361H2UL	208/230-1-60	187	253	0.091	0.8	1.0	15
	MMC-AP0421H2UL	208/230-1-60	187	253	0.11	0.9	1.2	15

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

7. Sensible capacity table

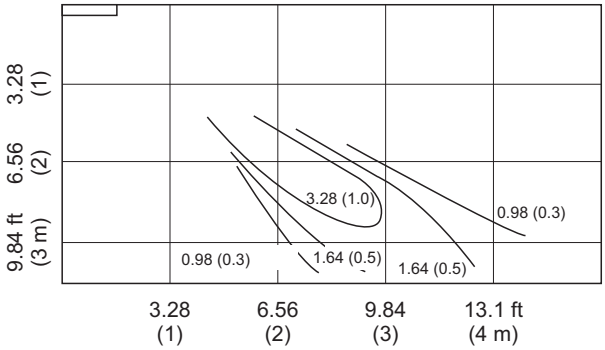
Ceiling type (MMC-AP___1H2UL)

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

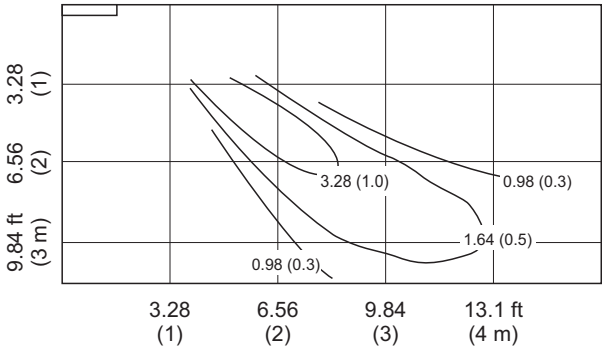
unit size	outdoor air temp. °FDB	indoor air temp.													
		59 °FWB		61 °FWB		64 °FWB		67 °FWB		68 °FWB		72 °FWB		75 °FWB	
		71 °FDB		73 °FDB		77 °FDB		80 °FDB		82 °FDB		86 °FDB		90 °FDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
018	50	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	54	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	57	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	61	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	64	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	68	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	70	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	73	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	77	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	81	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	84	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	88	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	91	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	95	15320	11370	16030	11680	17040	12150	18000	12540	18310	12580	19470	12420	20270	11950
	99	14880	11040	15570	11340	16550	11800	17480	12180	17780	12220	18910	12060	19680	11600
	102	14520	10780	15200	11070	16150	11520	17060	11890	17360	11930	18460	11770	19220	11330
024	50	20430	15630	21370	16060	22730	16720	24000	17240	24410	17290	25960	17070	27020	16430
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	99	19840	15180	20750	15590	22070	16240	23300	16740	23700	16790	25210	16570	26240	15950
	102	19370	14820	20260	15220	21550	15850	22750	16340	23140	16390	24610	16180	25610	15580
036	50	30640	22150	32060	22760	34090	23690	36000	24430	36620	24500	38930	24180	40540	23280
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	95	30640	22150	32060	22760	34090	23690	36000	24430	36620	24500	38930	24180	40540	23280
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	102	29050	21000	30390	21580	32320	22460	34130	23160	34720	23230	36910	22920	38430	22070
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	99	34710	25890	36320	26590	38620	27670	40780	28550	41480	28630	44100	28260	45920	27210
	102	33890	25270	35460	25960	37700	27020	39820	27870	40500	27950	43060	27590	44830	26560

8. Air throw distance chart

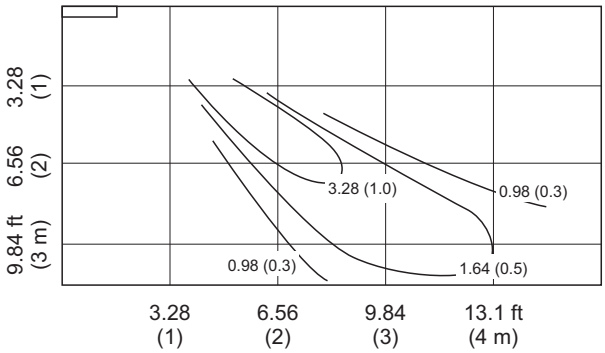
MMC-AP0181H2UL/AP0421H2UL



MMC-AP0361H2UL

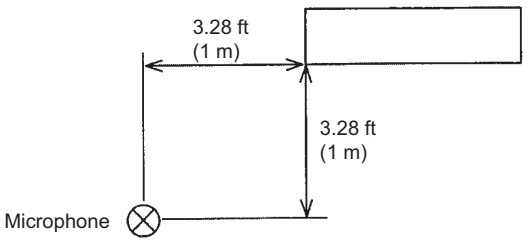


MMC-AP0241H2UL



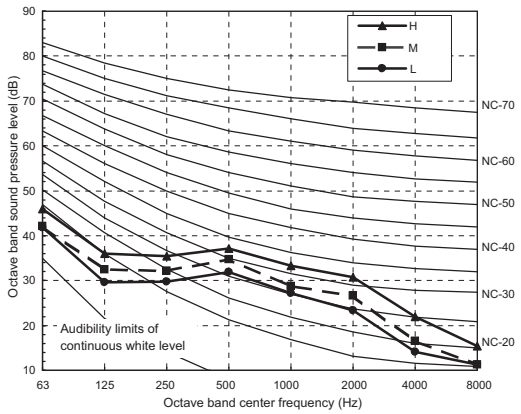
unit : [ft/s (m/s)]

9. Sound data



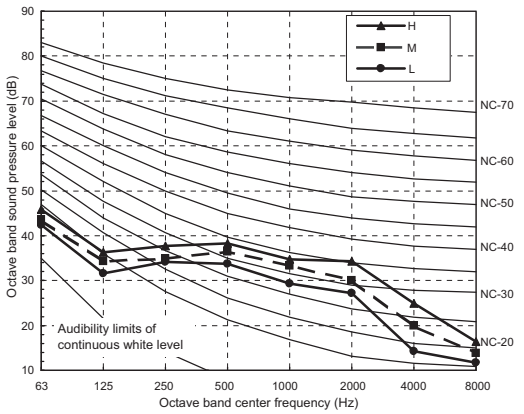
MMC-AP0181H2UL

Sound pressure level (dB (A))	H - M - L
	38.5-35-32.5



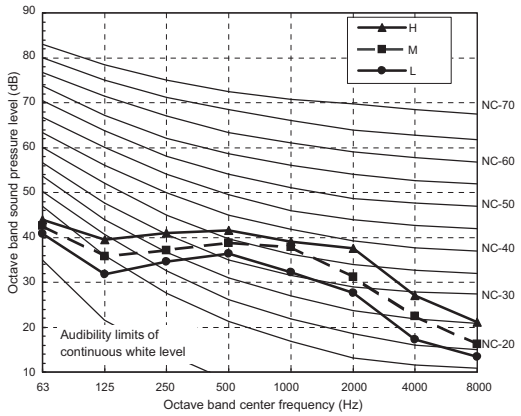
MMC-AP0241H2UL

Sound pressure level (dB (A))	H - M - L
	40.5-38-35



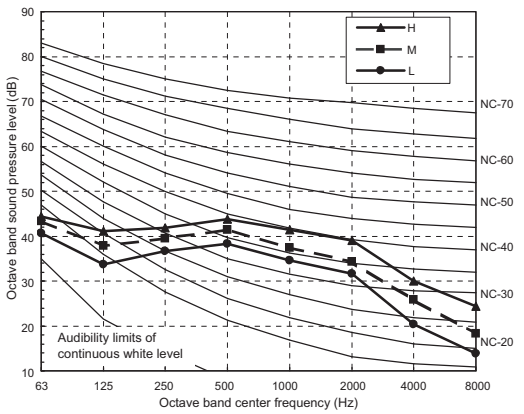
MMC-AP0361H2UL

Sound pressure level (dB (A))	H - M - L
	44-41-37

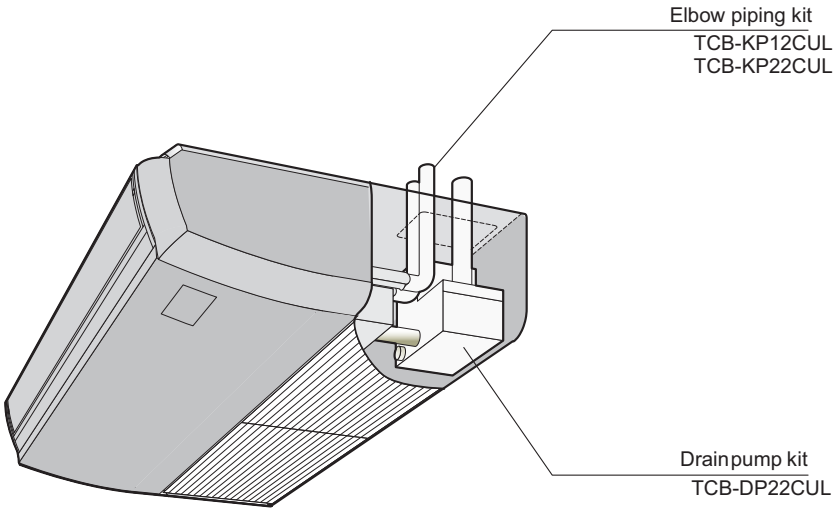


MMC-AP0421H2UL

Sound pressure level (dB (A))	H - M - L
	46-42.5-39.5



10. Accessories



Parts Name	Model name	Applied Model	Notes	Remarks
Drain pump kit	TCB-DP22CUL	MMC-AP___1H2UL	Stand-up 600 or less (from bottom face of ceiling)	Use with TCB-KP12CUL and TCB-KP22CUL
Elbow piping kit	TCB-KP12CUL	MMC-AP0181H2UL	Needed when drain pump kit is used	
	TCB-KP22CUL	MMC-AP0241H2UL to 0421H2UL		

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Ceiling type Engineering Data Book

Model name:

MMC-AP___1H2UL

March, 2016 First Edition

TOSHIBA CARRIER CORPORATION