Floor Console Recessed Type

MML-AP0074BH2UL / MML-AP0094BH2UL
MML-AP0124BH2UL / MML-AP0154BH2UL
MML-AP0184BH2UL / MML-AP0244BH2UL



Contents

1. Specifications
2. Dimension
3. Center of gravity
4. Piping diagram
5. Wiring diagram
6. Electrical characteristics
7. Sensible capacity table
8. Sound data

1. Specifications



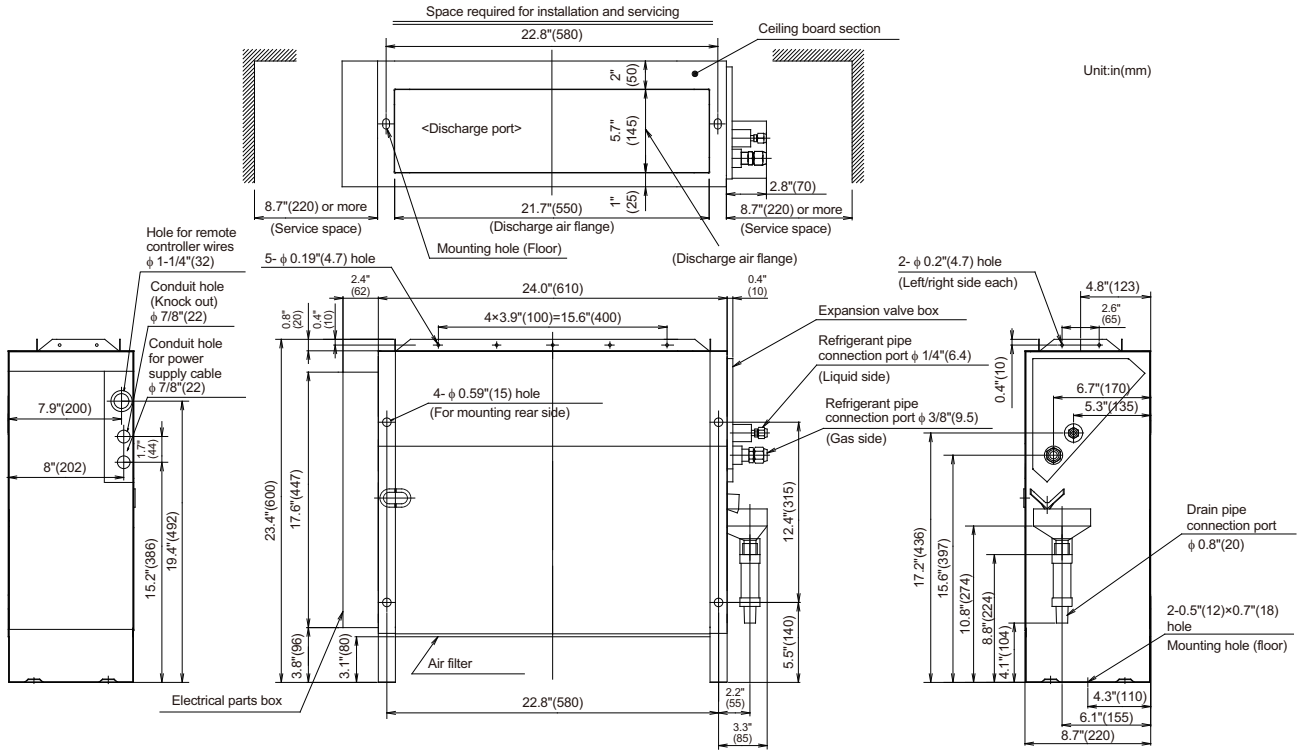
Model name			MML-	AP0074BH2UL	AP0094BH2UL	AP0124BH2UL	AP0154BH2UL	AP0184BH2UL	AP0244BH2UL
Cooling capacity			kBtu/h	7.5	9.5	12.0	15.4	18.0	24.0
Heating capacity			kBtu/h	8.5	10.5	13.5	17.0	20.0	27.0
Electrical characteristics	Power supply			230V (208V/230V) 1 phase 60Hz					
	Power consumption	208V	kW	0.047	0.047	0.047	0.095	0.095	0.104
		230V	kW	0.056	0.056	0.056	0.114	0.114	0.120
Appearance				Zinc hot dipping steel plate					
Dimension	Unit	Height	In	23.6	23.6	23.6	23.6	23.6	23.6
		Width	In	29.3	29.3	29.3	41.1	41.1	41.1
		Depth	In	8.7	8.7	8.7	8.7	8.7	8.7
	Packing	Height	In	26.9	26.9	26.9	26.9	26.9	26.9
		Width	In	31.9	31.9	31.9	43.7	43.7	43.7
		Depth	In	10.8	10.8	10.8	10.8	10.8	10.8
Total weight	Unit		lbs	50.7	50.7	50.7	68.3	68.3	68.3
	Packing		lbs	57.3	57.3	57.3	75.0	75.0	75.0
Heat exchanger				Finned tube					
Fan unit	Fan			Centrifugal fan					
	Standard air flow (High/Mid./Low)		cfm	270 / 240 / 180	270 / 240 / 180	270 / 240 / 180	440 / 350 / 290	440 / 350 / 290	560 / 470 / 380
	Motor		W	19	19	19	70	70	70
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. mm)			20 (Polyvinyl chloride tube)					
Sound pressure level (High/Mid./Low) (*1)		208V	dB(A)	40 / 36 / 33	40 / 36 / 33	40 / 36 / 33	40 / 36 / 33	40 / 36 / 33	47 / 42 / 35
		230V	dB(A)	42 / 39 / 36	42 / 39 / 36	42 / 39 / 36	43 / 39 / 36	43 / 39 / 36	49 / 44 / 37

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. Dimension

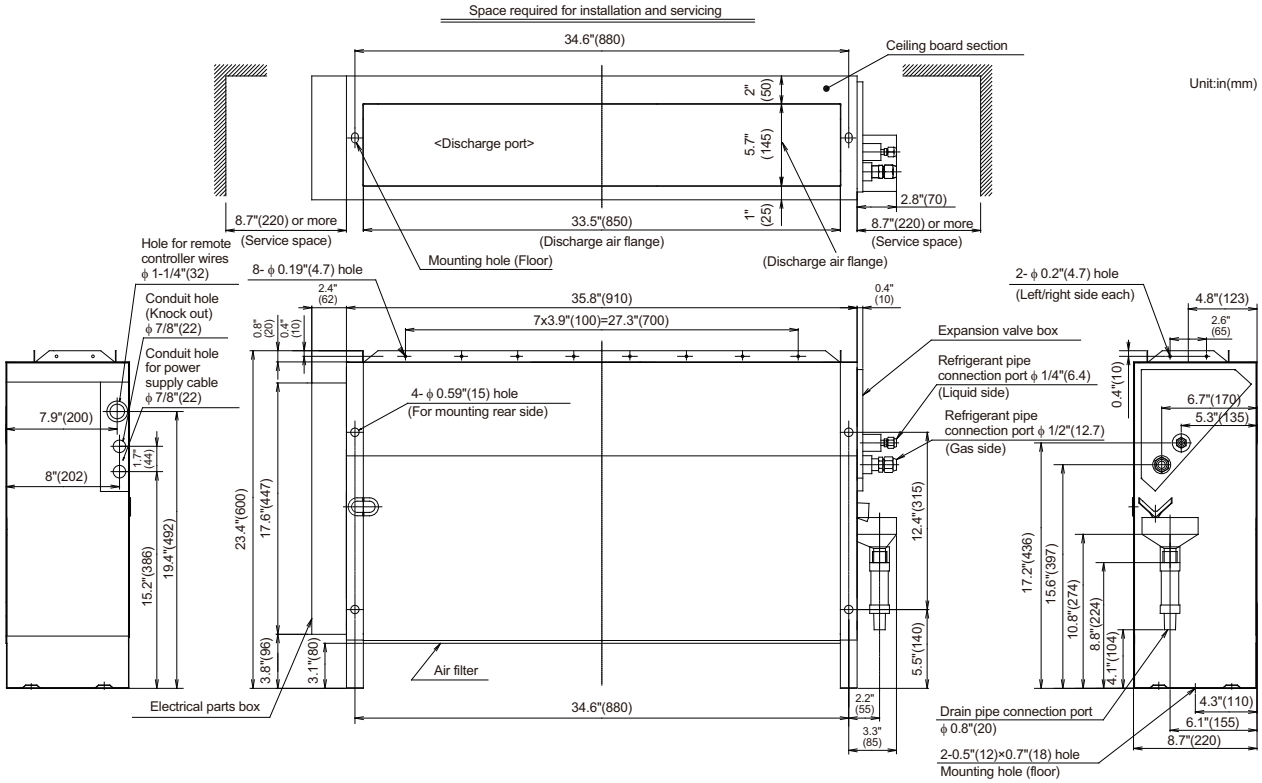
MML-AP0074BH2UL, AP0094BH2UL, AP0124BH2UL



Installation notice

1. Please make sure the return air opening is not blocked.
2. Air filter is provided with the unit. Before starting the unit, please make sure the air filter is cleaned. There is a possibility of dust and dirt accumulation due to construction debris.
3. Provide proper access for filter replacement or filter cleaning.
4. Make sure the service switch is turned off before accessing any internal components of the unit including filter replacement.

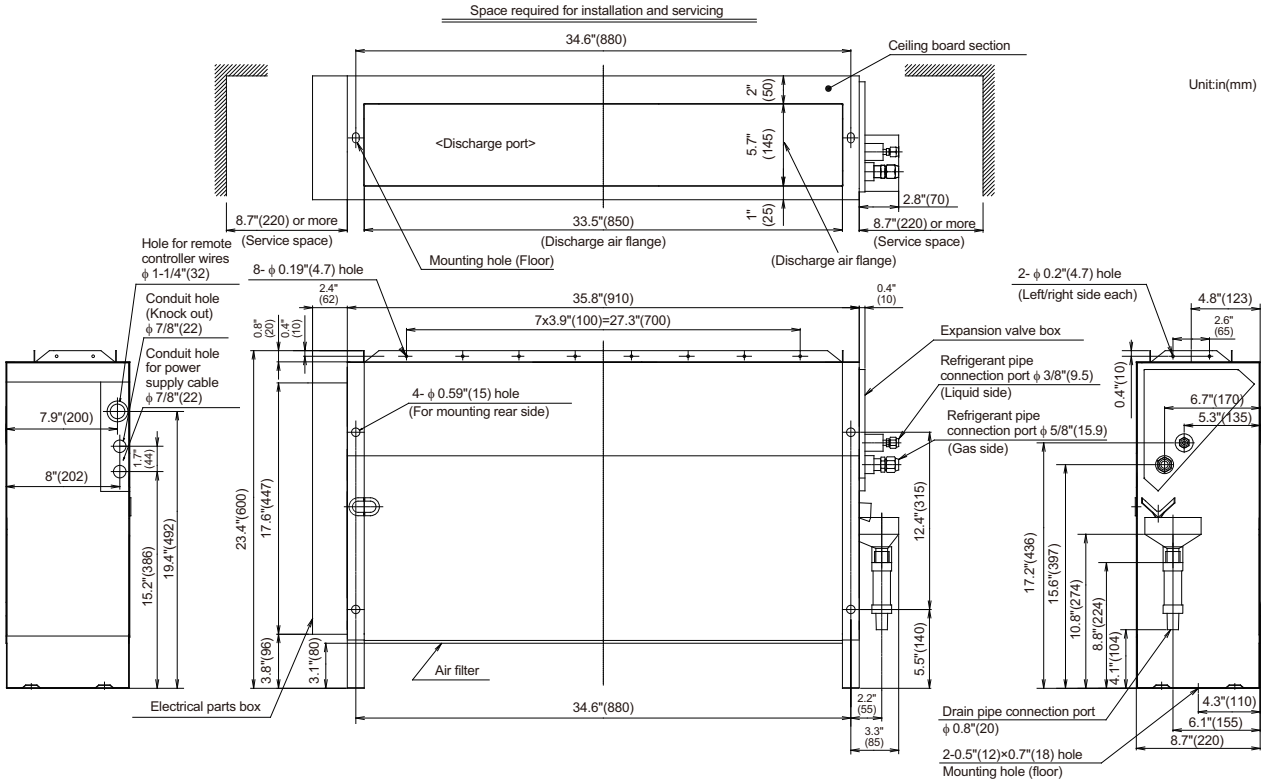
MML-AP0154BH2UL, AP0184BH2UL



Installation notice

1. Please make sure the return air opening is not blocked.
2. Air filter is provided with the unit. Before starting the unit, please make sure the air filter is cleaned. There is a possibility of dust and dirt accumulation due to construction debris.
3. Provide proper access for filter replacement or filter cleaning.
4. Make sure the service switch is turned off before accessing any internal components of the unit including filter replacement.

MML-AP0244BH2UL

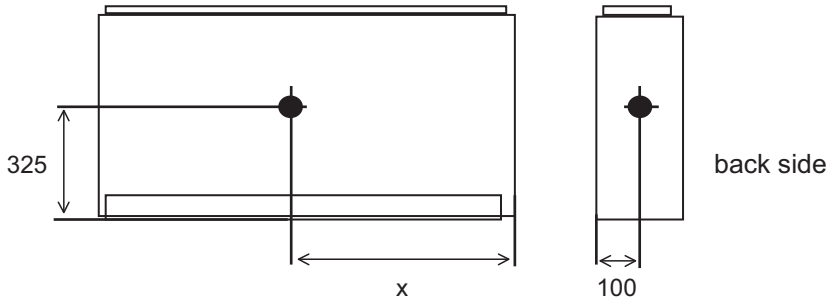


Installation notice

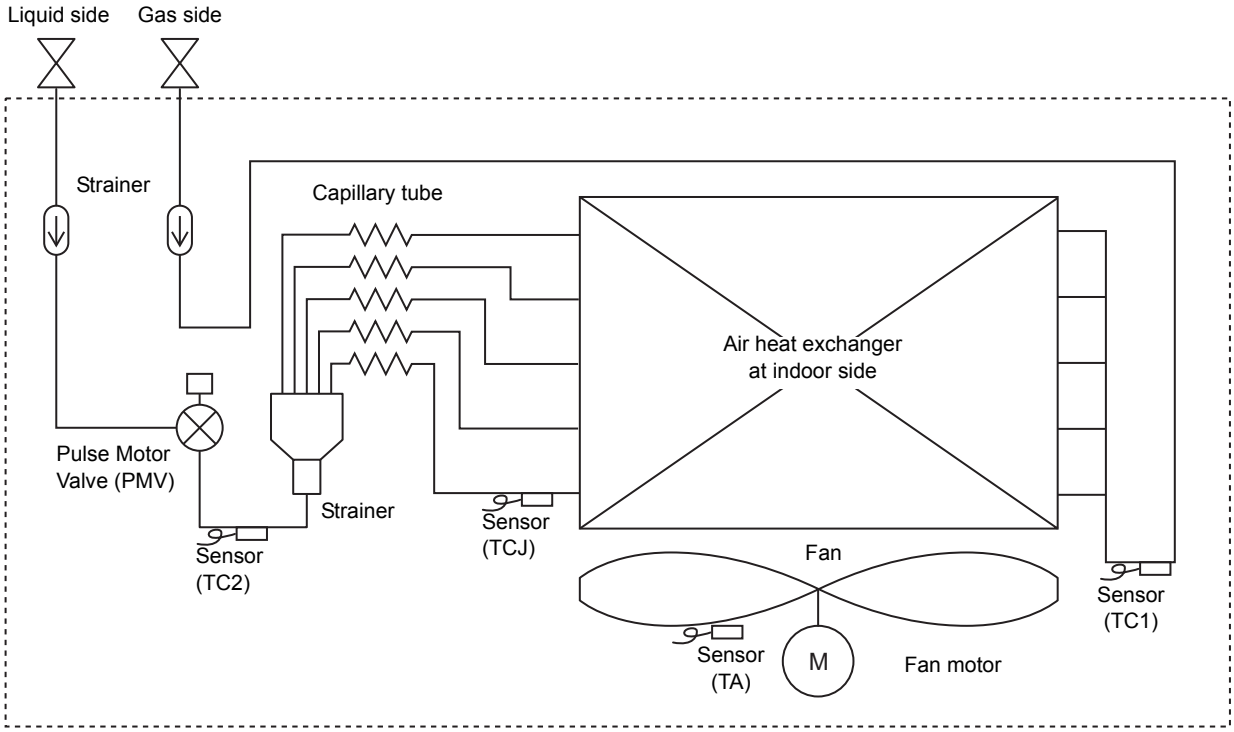
1. Please make sure the return air opening is not blocked.
2. Air filter is provided with the unit. Before starting the unit, please make sure the air filter is cleaned. There is a possibility of dust and dirt accumulation due to construction debris.
3. Provide proper access for filter replacement or filter cleaning.
4. Make sure the service switch is turned off before accessing any internal components of the unit including filter replacement.

3. Center of gravity

Model name	X (in)	Total weight (lbs)
MML-AP0074BH2UL	12.2	57.3
MML-AP0094BH2UL		
MML-AP0124BH2UL		
MML-AP0154BH2UL	18.7	75.0
MML-AP0184BH2UL		
MML-AP0244BH2UL		



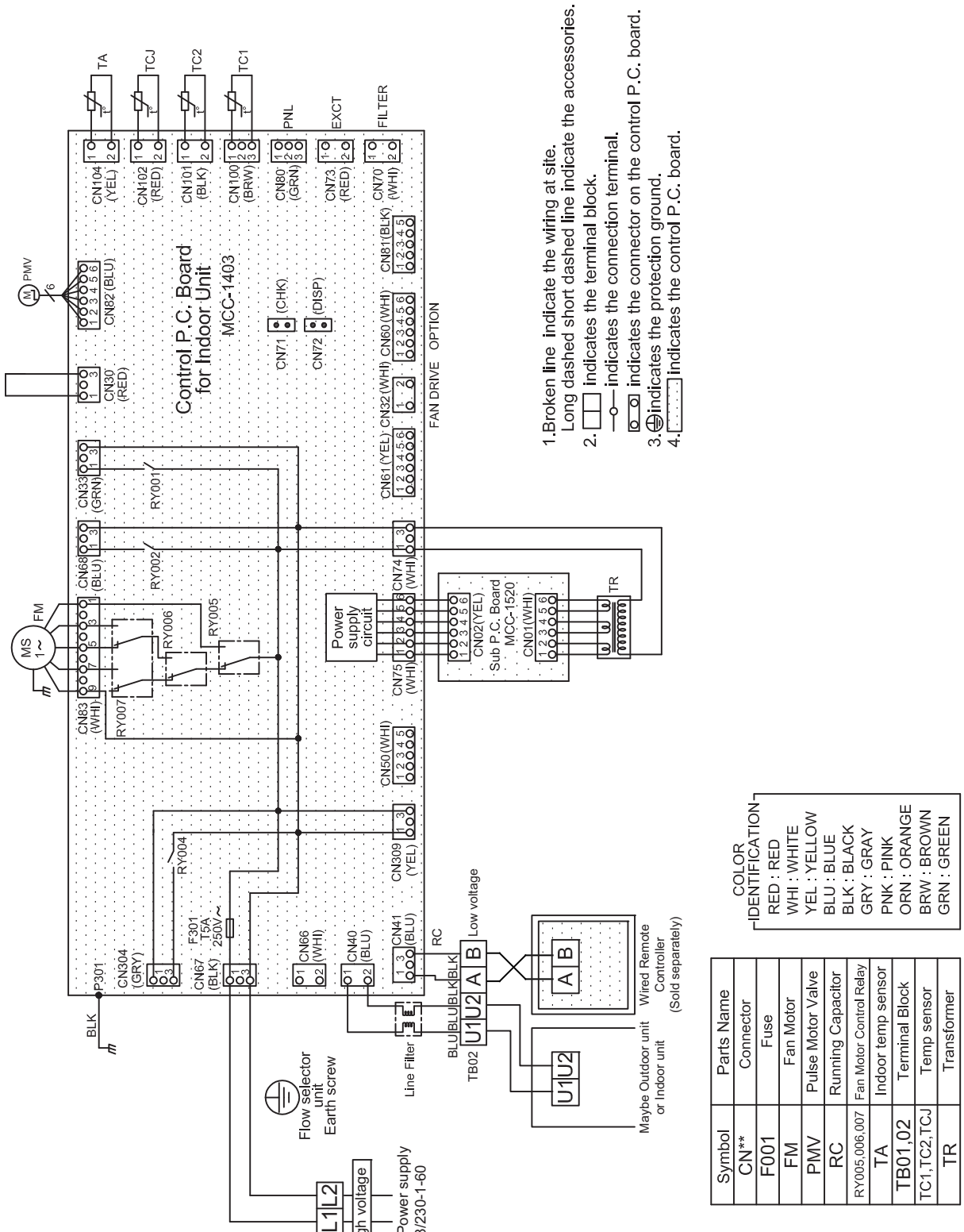
4. Piping diagram



Functional part name		Functional outline
Pulse Motor Valve	PMV	(Connector CN082 (6P): Blue) 1) Controls super heat in cooling operation 2) Controls sub cool in heating operation 3) Recovers refrigerant oil in cooling operation 4) Recovers refrigerant oil in heating operation
Temp. sensor	1. TA	(Connector CN104 (2P): Yellow) 1) Detects indoor suction temperature
	2. TC1	(Connector CN100 (3P): Brown) 1) Controls PMV super heat in cooling operation
	3. TC2	(Connector CN101 (2P): Black) 1) Controls PMV sub cool in heating operation
	4. TCJ	(Connector CN102 (2P): Red) 1) Controls PMV super heat in cooling operation

5. Wiring diagram

MML-AP0074BH2UL, AP0094BH2UL, AP0124BH2UL, AP0154BH2UL, AP0184BH2UL, AP0244BH2UL



6. Electrical characteristics

Type	Model	Nominal Voltage (V-Ph-Hz)	Voltage Range (V)		Power consumption	FLA	MCA	MOCP
			Min	Max	kW (208V/230V)	A	A	A
Floor Console Recessed Type	MML-AP0074BH2UL	208/230-1-60	187	253	0.049/0.058	0.3	0.4	15
	MML-AP0094BH2UL	208/230-1-60	187	253	0.049/0.058	0.3	0.4	15
	MML-AP0124BH2UL	208/230-1-60	187	253	0.049/0.058	0.3	0.4	15
	MML-AP0154BH2UL	208/230-1-60	187	253	0.095/0.114	0.6	0.6	15
	MML-AP0184BH2UL	208/230-1-60	187	253	0.095/0.114	0.6	0.6	15
	MML-AP0244BH2UL	208/230-1-60	187	253	0.104/0.120	0.6	0.7	15

MCA : Minimum Circuit Amps
MOCP : Maximum Overcurrent Protection (Amps)
FLA : Full Load Amps
kW : Fan Motor Rated Output (kW)

7. Sensible capacity table

Floor Console Recessed Type (MML-AP___4BH2UL)

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	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	54	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	57	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	61	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	64	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	68	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	70	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	73	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	77	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	81	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	84	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	88	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	91	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	95	6380	4320	6680	4440	7100	4620	7500	4770	7630	4780	8110	4720	8450	4550
	99	6190	4190	6490	4310	6890	4490	7280	4630	7410	4640	7870	4580	8200	4420
	102	6050	4100	6330	4210	6730	4380	7110	4520	7230	4530	7690	4470	8010	4310
009	50	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	54	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	57	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	61	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	64	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	68	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	70	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	73	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	77	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	81	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	84	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	88	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	91	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	95	8090	4930	8460	5060	9000	5270	9500	5430	9660	5440	10270	5370	10700	5180
	99	7860	4790	8210	4910	8740	5120	9220	5270	9380	5280	9970	5210	10390	5030
	102	7670	4670	8020	4800	8530	5000	9010	5150	9160	5160	9740	5090	10140	4910
012	50	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	54	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	57	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	61	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	64	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	68	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	70	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	73	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	77	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	81	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	84	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	88	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	91	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	95	10210	6640	10690	6830	11360	7100	12000	7330	12210	7350	12980	7260	13510	6980
	99	9910	6450	10380	6630	11030	6890	11650	7120	11860	7140	12600	7050	13120	6780
	102	9680	6290	10130	6470	10770	6730	11380	6950	11580	6970	12310	6880	12810	6620

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

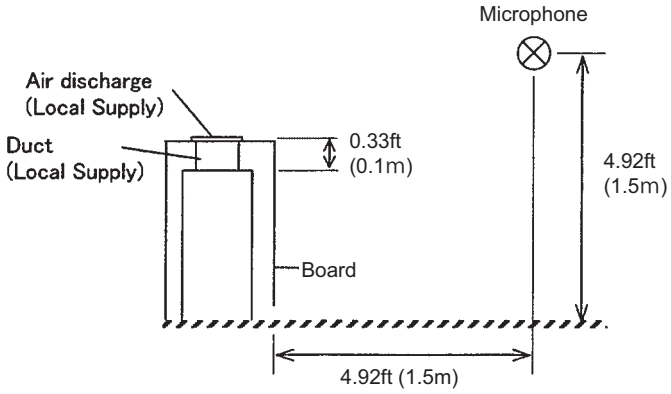
Floor Console Recessed Type (MML-AP___4BH2UL)

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	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	54	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	57	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	61	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	64	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	68	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	70	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	73	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	77	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	81	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	84	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	88	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	91	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	95	13110	8690	13710	8920	14580	9290	15400	9580	15660	9600	16660	9490	17340	9130
	99	12730	8440	13310	8660	14160	9020	14950	9300	15210	9320	16180	9210	16840	8870
	102	12430	8240	13000	8460	13820	8810	14600	9080	14850	9100	15790	9000	16440	8660
018	50	15320	10200	16030	10480	17040	10900	18000	11250	18310	11280	19470	11140	20270	10720
	54	15320	10200	16030	10480	17040	10900	18000	11250	18310	11280	19470	11140	20270	10720
	57	15320	10200	16030	10480	17040	10900	18000	11250	18310	11280	19470	11140	20270	10720
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	68	15320	10200	16030	10480	17040	10900	18000	11250	18310	11280	19470	11140	20270	10720
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	81	15320	10200	16030	10480	17040	10900	18000	11250	18310	11280	19470	11140	20270	10720
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	102	14520	9670	15200	9940	16150	10330	17060	10670	17360	10690	18460	10560	19220	10160
024	50	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	54	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
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	70	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	73	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	77	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	81	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	84	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	88	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	91	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	95	20430	13790	21370	14170	22730	14750	24000	15210	24410	15250	25960	15060	27020	14490
	99	19840	13390	20750	13760	22070	14320	23300	14770	23700	14810	25210	14620	26240	14070
	102	19370	13070	20260	13430	21550	13980	22750	14420	23140	14460	24610	14280	25610	13740

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

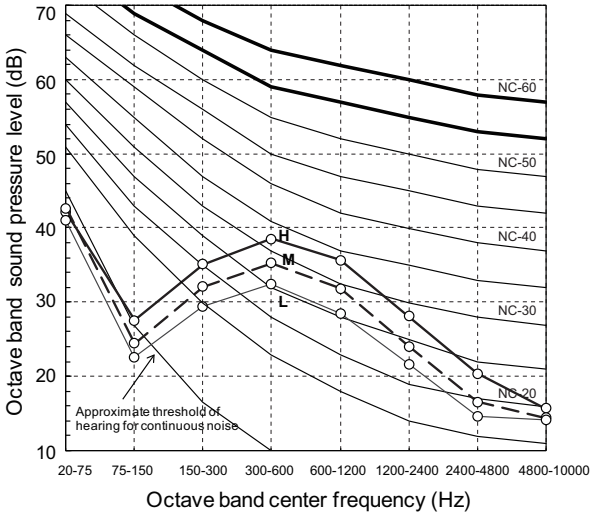
8. Sound data

Sound pressure spectrum



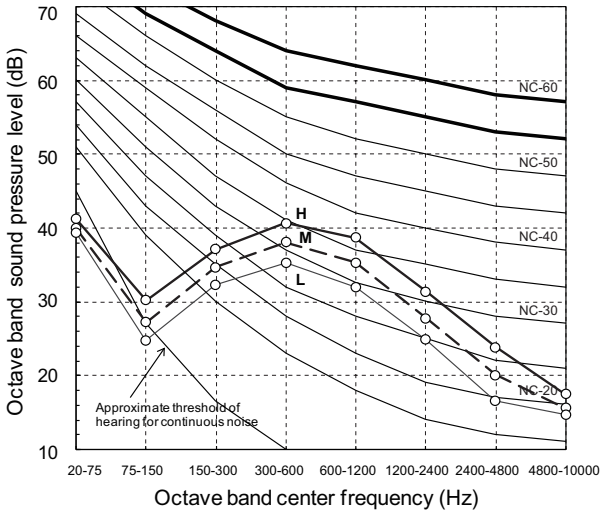
MML-AP0074BH2UL, AP0094BH2UL, AP0124BH2UL
Power source: 208V/60Hz

Fan tap	H	M	L
Sound pressure level (dB(A))	40	36	33



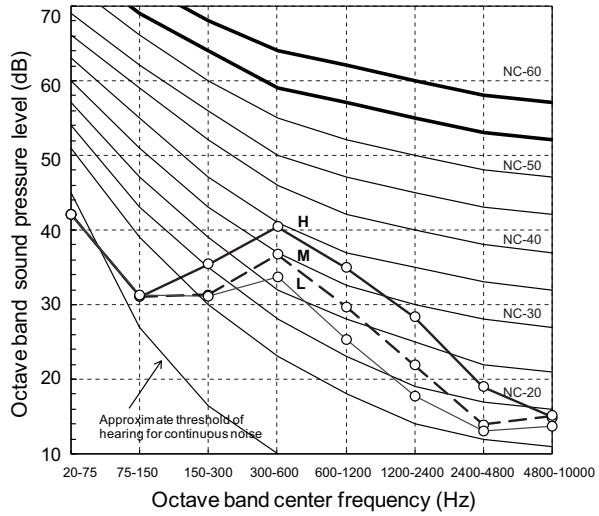
MML-AP0074BH2UL, AP0094BH2UL, AP0124BH2UL
Power source: 230V/60Hz

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	36



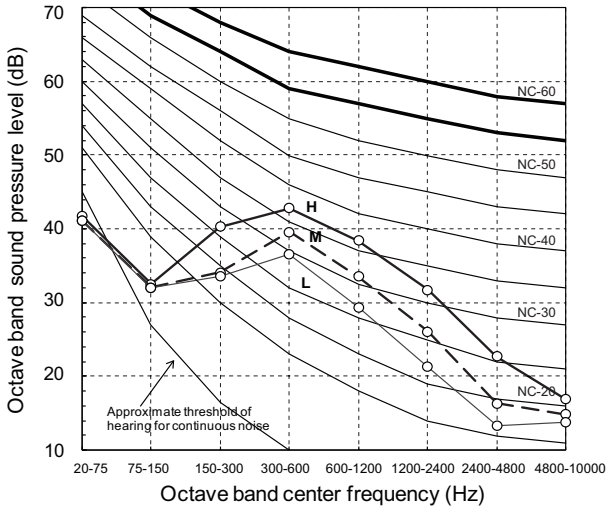
MML-AP0154BH2UL, AP0184BH2UL
Power source: 208V/60Hz

Fan tap	H	M	L
Sound pressure level (dB(A))	40	36	33



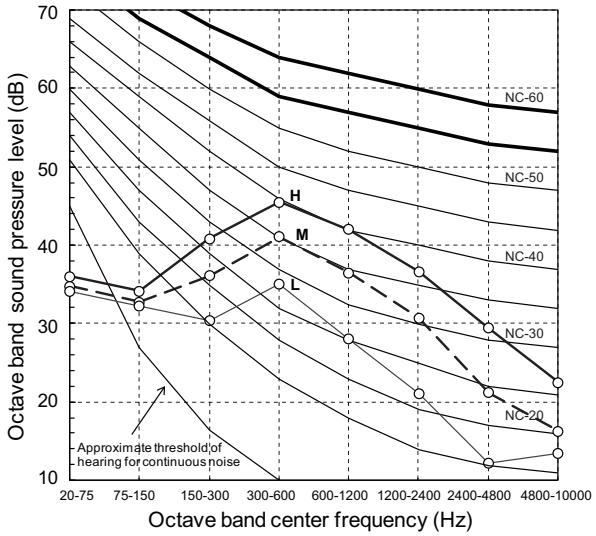
MML-AP0154BH2UL, AP0184BH2UL
Power source: 230V/60Hz

Fan tap	H	M	L
Sound pressure level (dB(A))	43	39	36



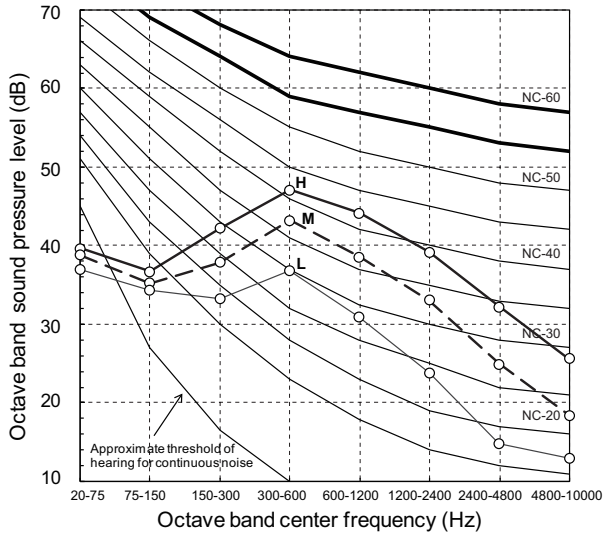
MML-AP0244BH2UL
Power source: 208V/60Hz

Fan tap	H	M	L
Sound pressure level (dB(A))	47	42	35



MML-AP0244BH2UL
Power source: 230V/60Hz

Fan tap	H	M	L
Sound pressure level (dB(A))	49	44	37



Floor Console Recessed Type Engineering Data Book

Model name:

MML-AP___4BH2UL

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TOSHIBA CARRIER CORPORATION