

High Wall Type

MMK-UP0071HP-UL

MMK-UP0091HP-UL

MMK-UP0121HP-UL

MMK-UP0151HP-UL

MMK-UP0181HP-UL

MMK-UP0241HP-UL

MMK-UP0301HP-UL

MMK-UP0361HP-UL



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1. Specifications

Model name		MMK-	UP0071HP-UL	UP0091HP-UL	UP0121HP-UL	UP0151HP-UL	UP0181HP-UL	UP0241HP-UL
Power supply			1 ph 60Hz 230V (208V/230V)					
Cooling capacity (*1)		kBtu/h	7.5	9.5	12.0	15.4	18.0	24.0
Sensible cooling capacity		kBtu/h	5.6	7.1	9.0	11.6	13.5	18.0
Heating capacity (*1)		kBtu/h	8.5	10.5	13.5	17.0	20.0	27.0
Power consumption		(kW)	0.015	0.016	0.017	0.028	0.032	0.050
FCU dimension	Main unit	Height (in)	11.6	11.6	11.6	12.6	12.6	12.6
		Width (in)	31.5	31.5	31.5	41.4	41.4	41.4
		Depth (in)	9.1	9.1	9.1	9.9	9.9	9.9
Total weight	Main unit	(lbs)	27	27	27	36	36	36
Heat exchanger			Finned tube					
Soundproof / Heat-insulation material			Polyethylene foam					
Fan			Cross flow fan					
Air flow volume	Indoor unit (H/M/L)	(cfm)	285 / 225 / 160	300 / 230 / 160	320 / 240 / 160	495 / 405 / 325	530 / 425 / 325	700 / 530 / 355
Sound pressure	Indoor unit (H/M/L)	dB(A)	35 / 30 / 27	36 / 31 / 27	37 / 32 / 27	40 / 36 / 32	41 / 37 / 32	45 / 39 / 33
Motor output		(W)	30	30	30	30	30	30
Flare Connections	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 pipe	(in)	VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63)					
Operating Range for SMMS-I, SMMS-e	Cooling	(°F)	41 ~ 109					
	Heating	(°F)	14 ~ 109					

(*1) Rated testing conditions Cooling : Indoor air temperature 80°F Dry Bulb / 67°F Wet Bulb, Outdoor 95°F Dry Bulb

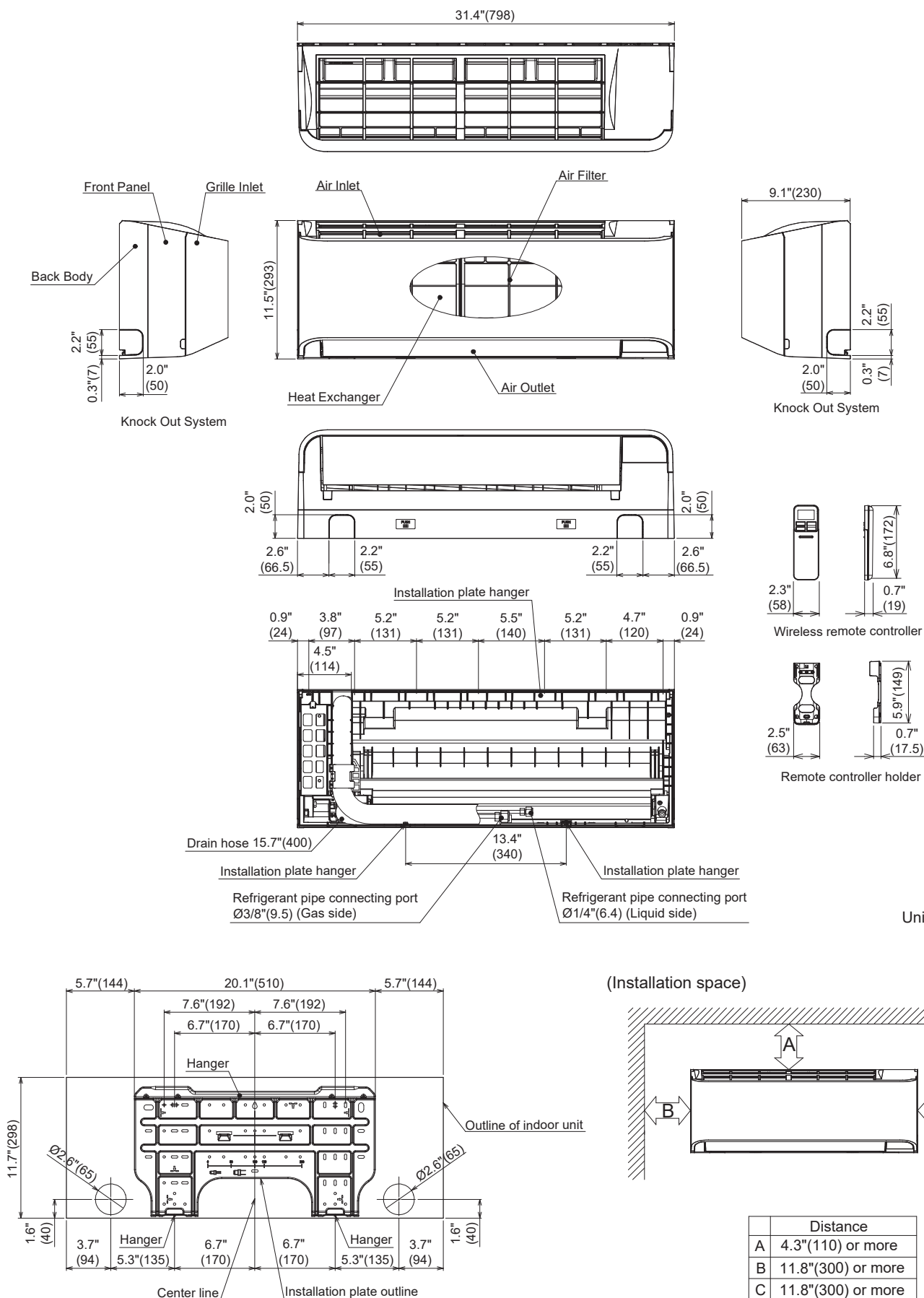
Heating : Indoor air temperature 70°F Dry Bulb, Outdoor 47°F Dry Bulb / 43°F Wet Bulb

Model name		MMK-	UP0301HP-UL	UP0361HP-UL
Power supply			230V (208/230V) 1-phase 60Hz	
Cooling capacity (*1)		kBtu/h	30.0	36.0
Sensible cooling capacity		kBtu/h	22.5	27.0
Heating capacity (*1)		kBtu/h	34.0	40.0
Power consumption		(kW)	0.058	0.066
FCU dimension	Main unit	Height (in)	13.7	13.7
		Width (in)	47.2	47.2
		Depth (in)	11.0	11.0
Total weight	Main unit	(lbs)	46.3	46.3
Heat exchangere			Finned tube	
Soundproof / Heat-insulation material			Polyethylene foam	
Fan			Centrifugal fan (Sirocco fan)	
Air flow volume	Indoor unit (H/M/L)	(cfm)	940 / 825 / 705	970 / 910 / 735
Sound pressure	Indoor unit (H/M/L)	dB(A)	48 / 44 / 41	50 / 47 / 43
Motor output		(W)	61	61
Flare Connections	Gas side	(in)	5/8	5/8
	Liquid side	(in)	3/8	3/8
	Drain pipe	(in)	VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63)	
Operating Range	Cooling	(°F)	41 ~ 109.4	
for SMMS-I, SMMS-e	Heating	(°F)	14 ~ 109.4	

(*1) Rated testing conditions Cooling : Indoor air tempreature 80 F Dry Bulb/ 67 F Wet Bulb, Outdoor 95 F Dry Bulb
Heating : Indoor air tempreature 70 F Dry Bulb, Outdoor 47 F Dry Bulb / 43 F Wet Bulb

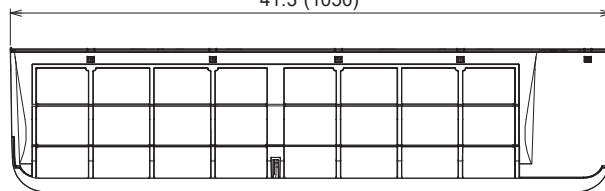
2. Dimension

MMK-UP*__1HP-UL (*007 / 009 / 012)



MMK-UP*_1HP-UL (*015 / 018 / 024)

41.3"(1050)

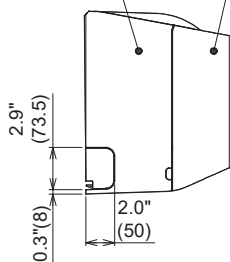


Front Panel

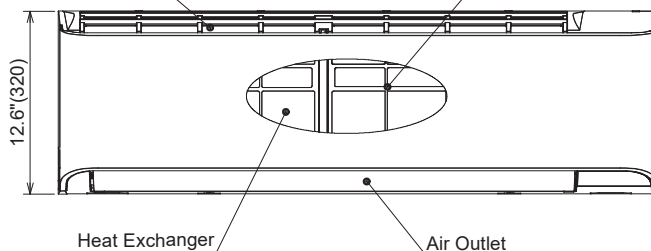
Grille Inlet

Air Inlet

Air Filter

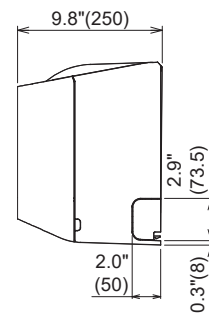


Knock Out System

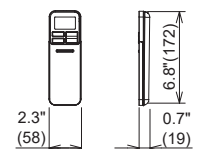
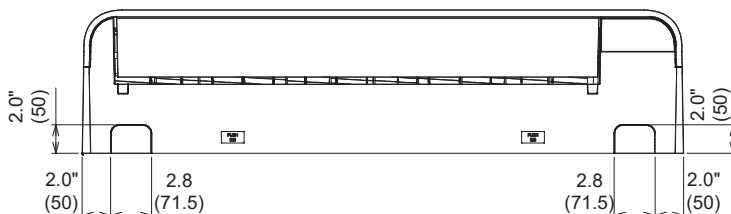


Heat Exchanger

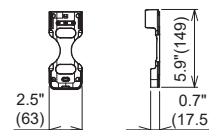
Air Outlet



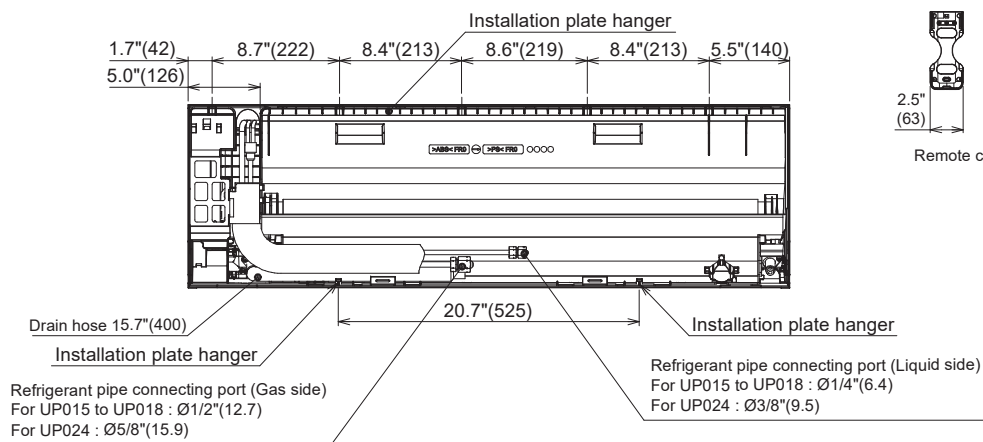
Knock Out System



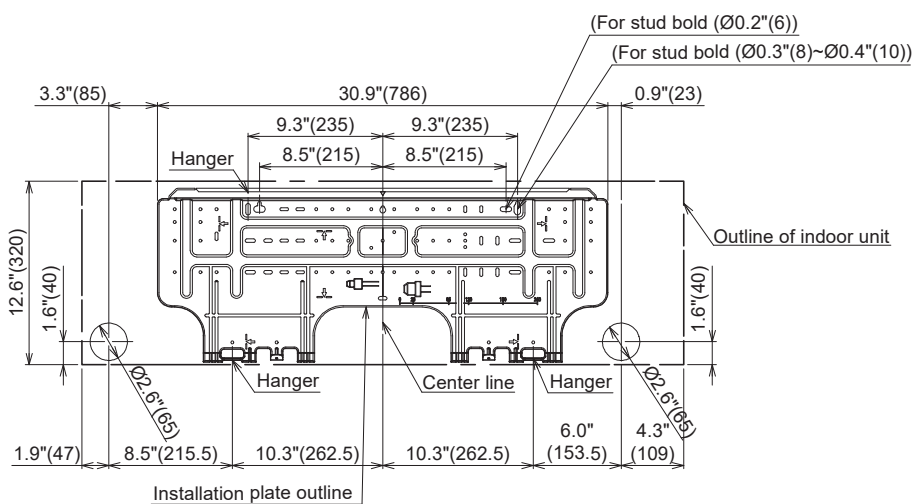
Wireless remote controller



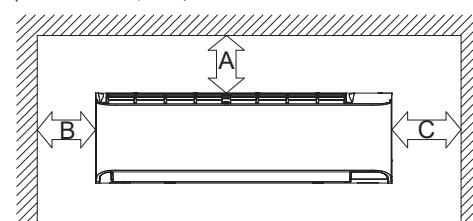
Remote controller holder



Unit : in(mm)

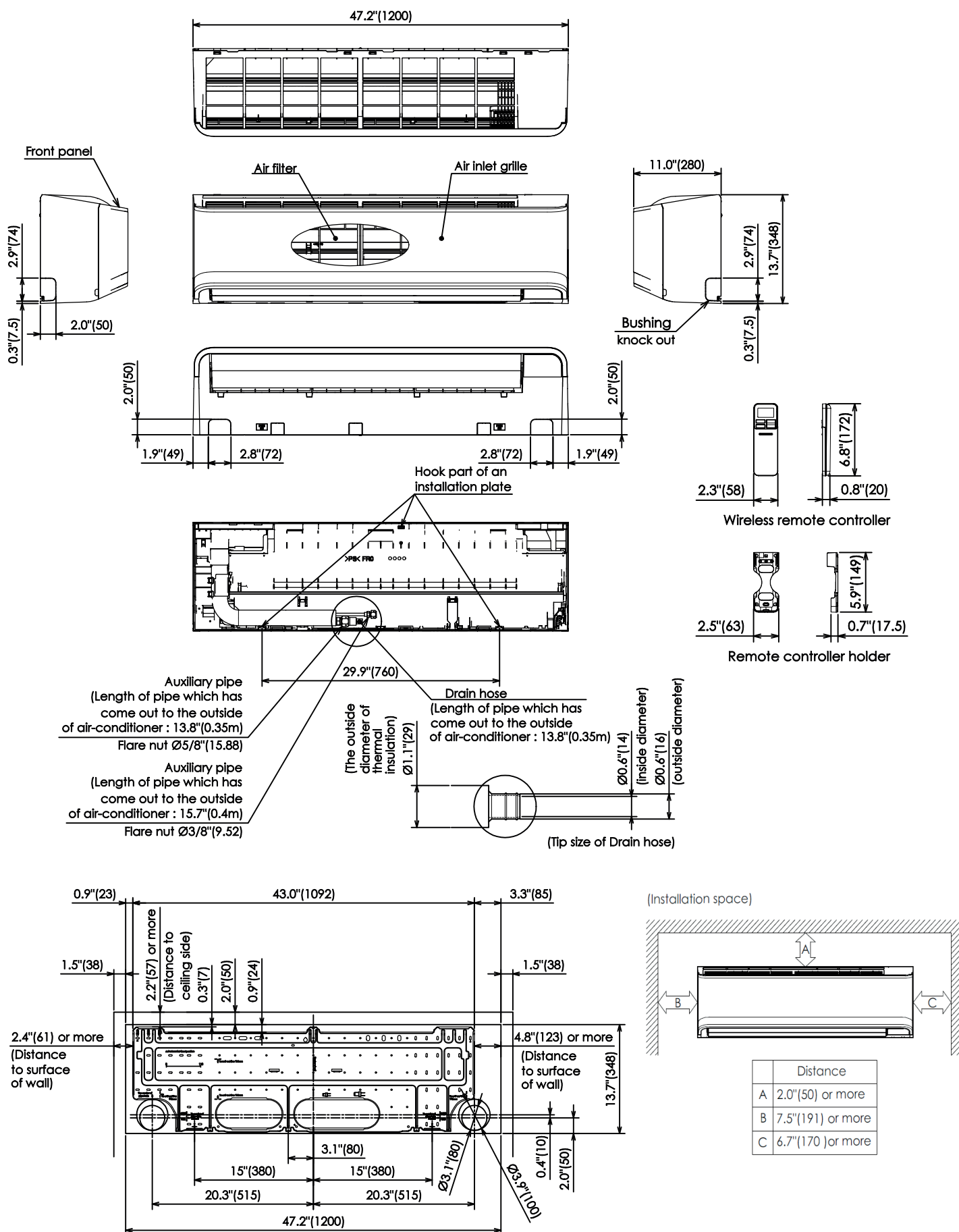


(Installation space)



	Distance
A	2.0"(50) or more
B	11.8"(300) or more
C	6.7"(170) or more

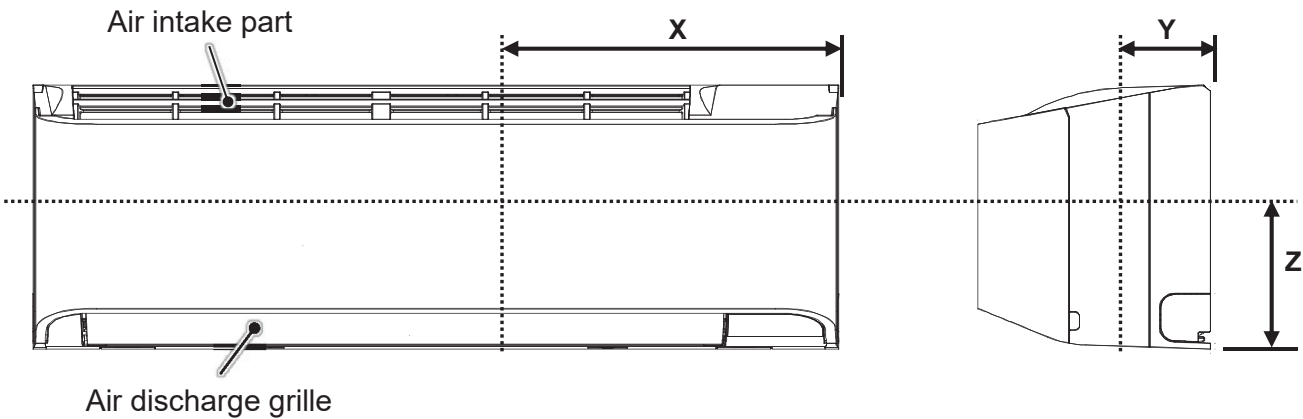
MMK-UP*__1HP-UL (*030 / 036)



3. Center of gravity

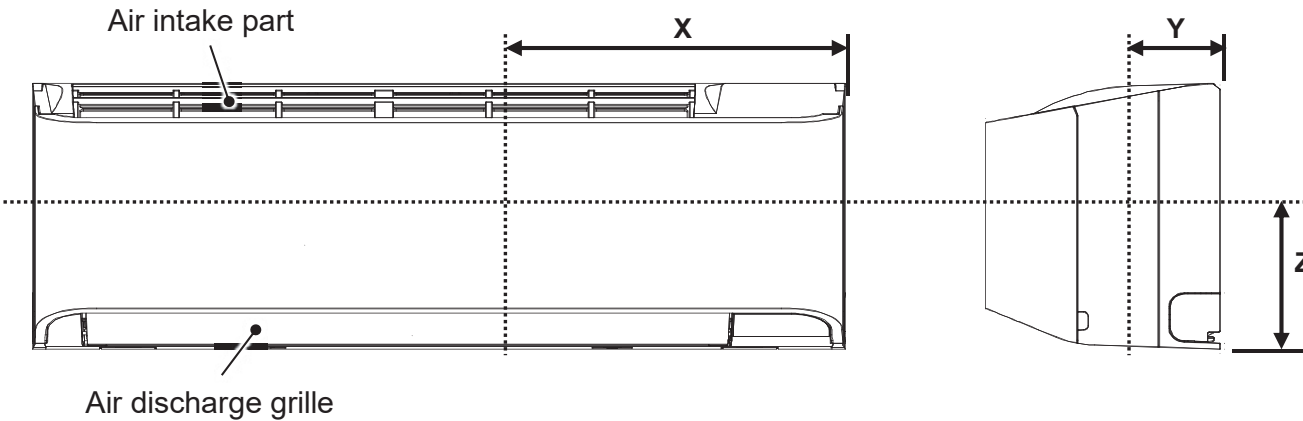
MMK-UP*__1HP-UL (*007 / 009 / 012)

Model name	X (in)	Y (in)	Z (in)	Total weight (lbs)
MMK-UP0071HP-UL	13.2	4.3	5.9	27
MMK-UP0091HP-UL				
MMK-UP0121HP-UL				



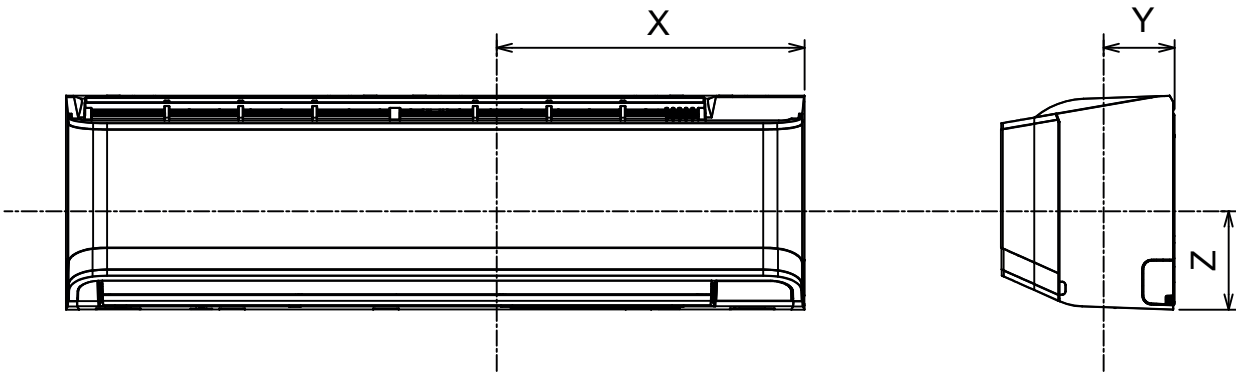
MMK-UP*__1HP-UL (*015 / 018 / 024)

Model name	X (in)	Y (in)	Z (in)	Total weight (lbs)
MMK-UP0151HP-UL	16.7	4.7	4.9	36
MMK-UP0181HP-UL				
MMK-UP0241HP-UL				



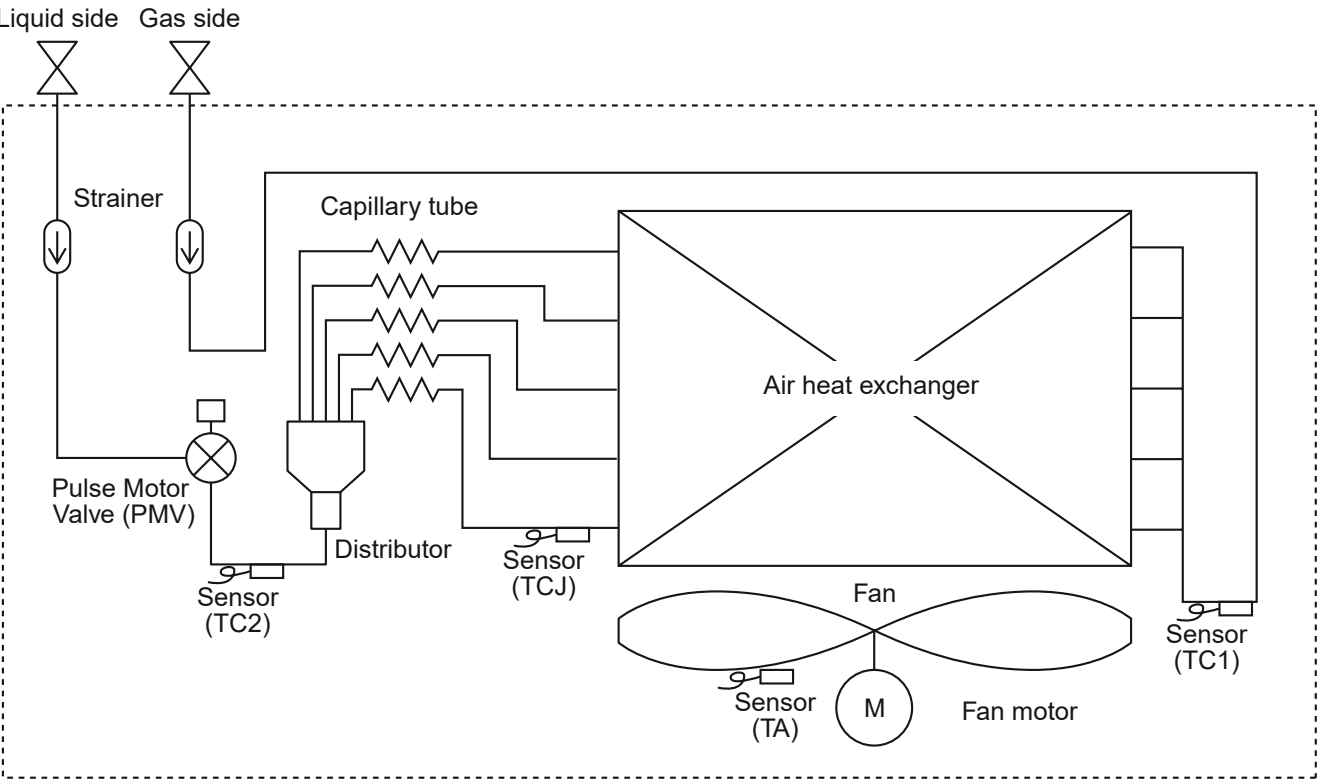
MMK-UP*__1HP-UL (*030 / 036)

Model name	X (in)	Y (in)	Z (in)	Total weight (lbs)
MMK-UP0301HP-UL	19.7	4.52	6.3	46.3
MMK-UP0361HP-UL				



4. Piping diagram

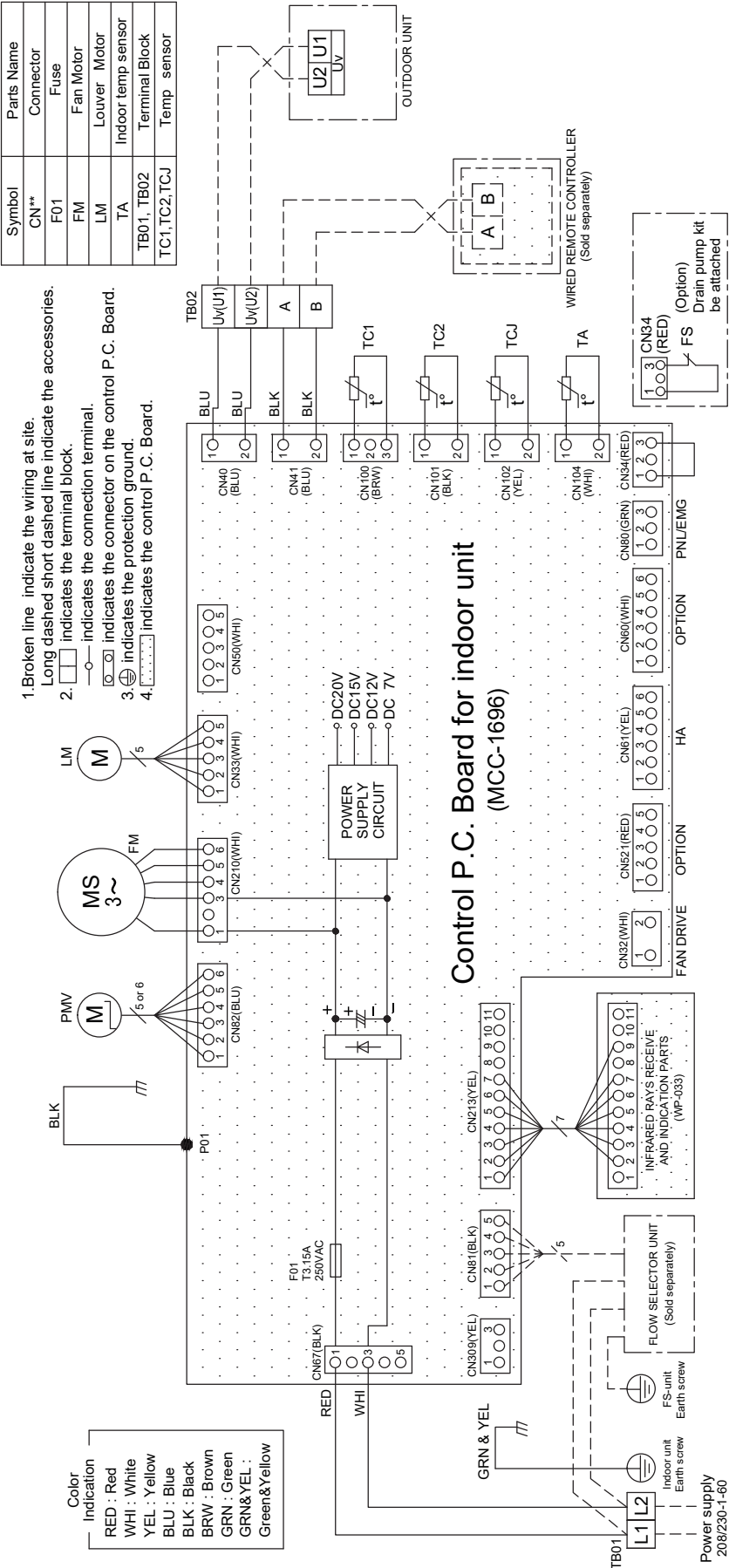
MMK-UP*__1HP-UL (*007 / 009 / 012 / 015 / 018 / 024 / 030 / 036)



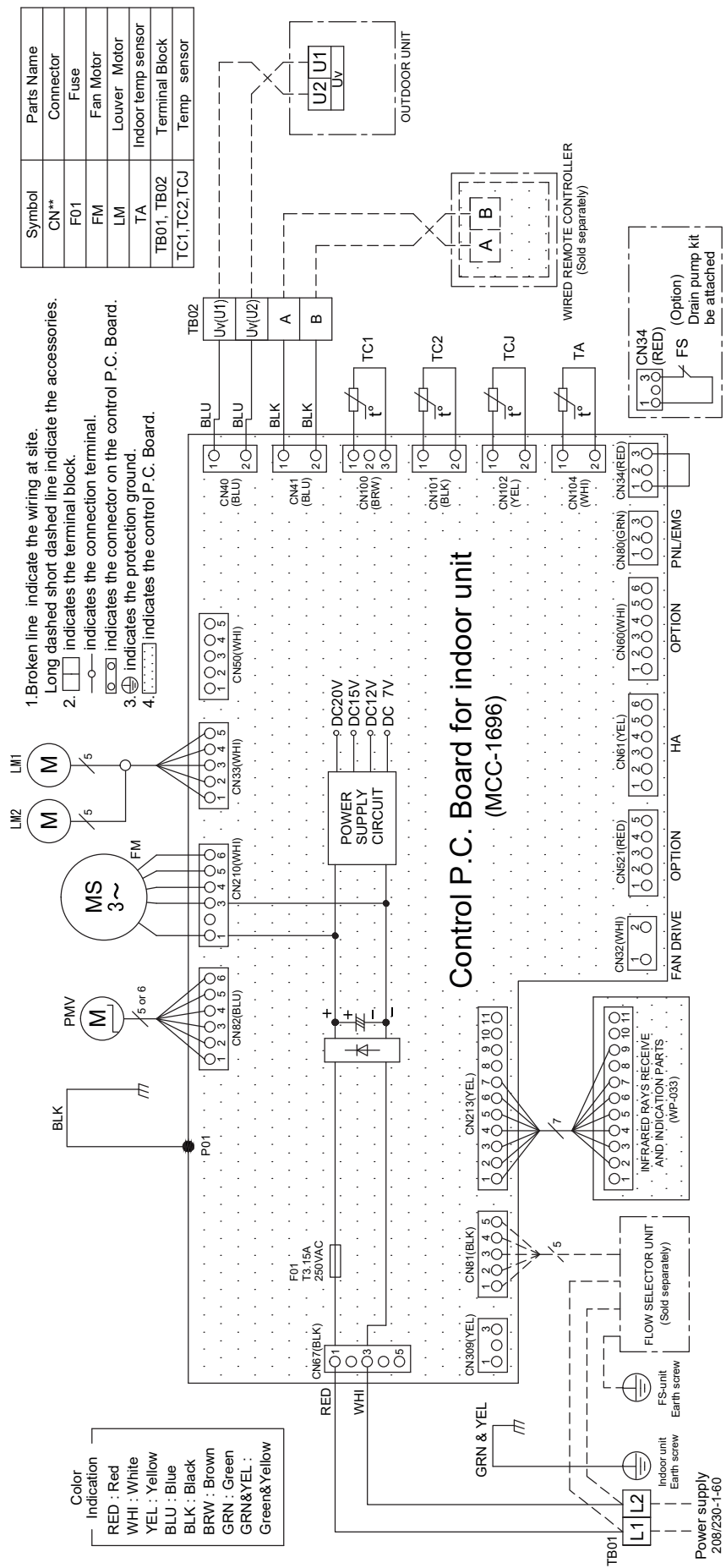
Functional part name		Functional outline
Pulse Motor Valve	PMV	(Connector CN82 (6P): Blue) 1) Controls super heat in cooling operation 2) Controls under cool in heating operation 3) Recovers refrigerant oil in cooling operation 4) Recovers refrigerant oil in heating operation
Temp. sensor	1. TA	(Connector CN104 (2P): White) 1) Detects indoor suction temperature
	2. TC1	(Connector CN100 (3P): Brown) 1) Controls PMV super heat in cooling operation
	3. TC2	(Connector CN101 (2P): Blue) 1) Controls PMV under cool in heating operation
	4. TCJ	(Connector CN102 (2P): Yellow) 1) Controls PMV super heat in cooling operation

5. Wiring diagram

MMK-UP*__1HP-UL (*007 / 009 / 012 / 015 / 018 / 024)



MMK-UP*__1HP-UL (*030 / 036)



6. Electrical current characteristics

Indoor unit power supply

Type	Model name	Normal Voltage (V-Ph-Hz)	Voltage Range (V)		FLA	MCA	MOCP
			Min.	Max.	A	A	A
High Wall Type	MMK-UP0071HP-UL	208/230-1-60	187	253	0.17	0.21	15
	MMK-UP0091HP-UL	208/230-1-60	187	253	0.18	0.23	15
	MMK-AP0121HP-UL	208/230-1-60	187	253	0.20	0.25	15
	MMK-AP0151HP-UL	208/230-1-60	187	253	0.30	0.37	15
	MMK-UP0181HP-UL	208/230-1-60	187	253	0.33	0.42	15
	MMK-UP0241HP-UL	208/230-1-60	187	253	0.48	0.60	15
	MMK-UP0301HP-UL	208/230-1-60	187	253	0.66	0.83	15
	MMK-UP0361HP-UL	208/230-1-60	187	253	0.66	0.83	15

FLA : Full load (Amps)

MCA : Minimum Circuit (Amps)

MOCP : Maximum Overcurrent Protection (Amps)

7. Sensible Capacity Table

High-wall type (MMK-UP*__1HP-UL)

unit size	outdoor air temp. ° FDB	Indoor air temp.													
		59 ° FWB 71 ° FDB		61 ° FWB 73 ° FDB		64 ° FWB 77 ° FDB		67 ° FWB 80 ° FDB		68 ° FWB 82 ° FDB		72 ° FWB 86 ° FDB		75 ° FWB 90 ° FDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	41	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	45	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	50	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	54	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	57	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	61	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	64	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	68	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	70	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	73	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	77	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	81	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	84	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	88	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	91	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	95	6380	5070	6680	5220	7100	5430	7500	5600	7630	5620	8110	5540	8450	5340
	99	6190	4920	6490	5070	6890	5270	7280	5440	7410	5460	7870	5380	8200	5190
102	6050	4810	6330	4950	6730	5150	7110	5310	7230	5330	7690	5250	8010	5060	
106	5880	4670	6160	4810	6550	5010	6920	5160	7030	5180	7480	5110	7790	4920	
109	5720	4550	5990	4680	6370	4870	6730	5020	6840	5040	7270	4970	7580	4790	
009	41	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	45	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	50	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	54	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	57	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	61	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	64	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	68	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	70	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	73	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	77	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	81	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	84	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	88	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	91	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	95	8090	6440	8460	6610	9000	6890	9500	7100	9660	7120	10270	7030	10700	6770
	99	7860	6250	8210	6420	8740	6690	9220	6890	9380	6910	9970	6830	10390	6570
102	7670	6110	8020	6270	8530	6530	9010	6730	9160	6750	9740	6660	10140	6420	
106	7460	5940	7800	6090	8300	6350	8760	6550	8910	6560	9470	6480	9870	6240	
109	7260	5780	7590	5930	8070	6180	8520	6370	8670	6390	9210	6310	9600	6070	
012	41	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	45	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	50	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	54	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	57	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	61	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	64	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	68	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	70	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	73	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	77	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	81	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	84	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	88	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	91	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	95	10210	8160	10690	8390	11360	8720	12000	9000	12210	9030	12980	8910	13510	8580
	99	9910	7920	10380	8150	11030	8470	11650	8740	11860	8770	12600	8650	13120	8330
102	9680	7740	10130	7950	10770	8270	11380	8530	11580	8560	12310	8450	12810	8130	
106	9410	7520	9860	7740	10470	8040	11060	8300	11260	8330	11970	8220	12460	7910	
109	9160	7320	9590	7530	10190	7820	10760	8070	10950	8100	11640	7990	12120	7700	

TC: Total Capacity [Btu/h]
SHC: Sensible Heat Capacity [Btu/h]

High-wall type (MMK-UP*__1HP-UL)

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	41	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	45	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	50	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	54	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	57	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	61	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	64	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	68	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	70	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	73	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	77	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	81	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	84	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	88	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	91	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	95	13110	10520	13710	10800	14580	11240	15400	11600	15660	11630	16660	11490	17340	11050
	99	12730	10210	13310	10490	14160	10910	14950	11260	15210	11290	16180	11160	16840	10730
	102	12430	9970	13000	10240	13820	10660	14600	11000	14850	11030	15790	10890	16440	10480
	106	12090	9700	12640	9960	13440	10360	14200	10700	14440	10720	15360	10590	15990	10190
	109	11760	9440	12300	9690	13080	10080	13810	10410	14050	10430	14940	10310	15550	9910
018	41	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	45	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	50	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	54	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	57	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	61	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	64	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	68	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	70	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	73	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	77	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	81	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	84	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	88	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	91	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	95	15320	12240	16030	12580	17040	13090	18000	13500	18310	13540	19470	13370	20270	12870
	99	14880	11890	15570	12220	16550	12710	17480	13110	17780	13150	18910	12980	19680	12500
	102	14520	11600	15200	11930	16150	12410	17060	12800	17360	12840	18460	12670	19220	12200
	106	14130	11290	14780	11600	15710	12070	16600	12450	16880	12480	17950	12330	18690	11870
	109	13740	10980	14380	11280	15280	11740	16150	12110	16420	12150	17460	11990	18180	11540
024	41	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	45	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	50	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	54	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	57	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	61	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	64	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	68	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	70	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	73	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	77	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	81	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	84	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	88	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	91	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	95	20430	16320	21370	16760	22730	17450	24000	18000	24410	18050	25960	17820	27020	17150
	99	19840	15850	20750	16270	22070	16940	23300	17480	23700	17530	25210	17300	26240	16650
	102	19370	15470	20260	15890	21550	16540	22750	17060	23140	17110	24610	16890	25610	16260
	106	18840	15050	19700	15450	20960	16090	22130	16600	22510	16640	23940	16430	24910	15810
	109	18330	14640	19170	15030	20390	15650	21530	16150	21900	16190	23290	15980	24240	15380

TC: Total Capacity [Btu/h]

SHC: Sensible Heat Capacity [Btu/h]

High-wall type (MMK-UP*__1HP-UL)

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
030	41	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	45	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	50	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	54	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	57	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	61	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	64	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	68	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	70	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	73	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	77	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	81	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	84	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	88	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	91	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	95	25530	20400	26720	20960	28410	21820	30000	22500	30510	22560	32450	22280	33780	21440
	99	24790	19810	25950	20350	27590	21190	29130	21850	29630	21910	31510	21630	32800	20820
	102	24200	19340	25330	19870	26930	20690	28440	21330	28920	21390	30760	21120	32020	20330
	106	23540	18810	24640	19330	26190	20120	27660	20750	28130	20800	29920	20540	31150	19770
	109	22900	18300	23970	18800	25480	19570	26910	20180	27370	20240	29110	19990	30300	19230
036	41	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	45	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	50	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	54	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	57	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	61	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	64	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	68	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	70	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	73	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	77	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	81	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	84	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	88	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	91	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	95	30640	24480	32060	25150	34090	26180	36000	27000	36620	27080	38930	26730	40540	25730
	99	29750	23770	31130	24420	33100	25420	34960	26220	35560	26290	37800	25950	39360	24980
	102	29050	23210	30390	23840	32320	24820	34130	25600	34720	25670	36910	25340	38430	24390
	106	28250	22570	29560	23190	31430	24140	33190	24890	33760	24970	35890	24650	37380	23720
	109	27480	21960	28760	22560	30580	23480	32290	24220	32850	24290	34920	23980	36360	23080

TC: Total Capacity [Btu/h]

SHC: Sensible Heat Capacity [Btu/h]

Heating capacity table

	Indoor air temp. °FDB					
Fahrenheit(°F)	62	65	68	70	72	75
Celsius(°C)	16.7	18.3	20	21.1	22.2	23.9
	Total capacity (TC) (kBtu/h)					
MMK-UP0071HP-UL	8.9	8.8	8.6	8.5	8.4	8.2
MMK-UP0091HP-UL	11.0	10.8	10.6	10.5	10.4	10.1
MMK-UP0121HP-UL	14.1	13.9	13.7	13.5	13.3	13.0
MMK-UP0151HP-UL	17.8	17.5	17.2	17.0	16.8	16.4
MMK-UP0181HP-UL	20.9	20.6	20.2	20.0	19.7	19.3
MMK-UP0241HP-UL	28.2	27.8	27.3	27.0	26.6	26.1
MMK-UP0301HP-UL	31.4	30.9	30.3	30.0	29.6	28.9
MMK-UP0361HP-UL	37.7	37.1	36.4	36.0	35.5	34.7

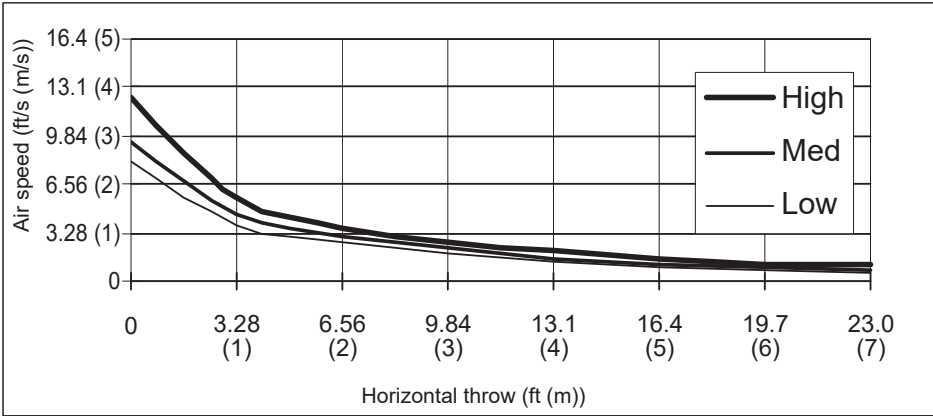
Notes: 1. These capacity tables can be used when selecting a VRF indoor unit. The actual capacity of the VRF system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the VRF system satisfies the required heat load.

Notes: 2. This is the capacity table of rated heating test condition of Outdoor 47°F Dry Bulb / 43°F Wet Bulb.

8. Air throw distance chart

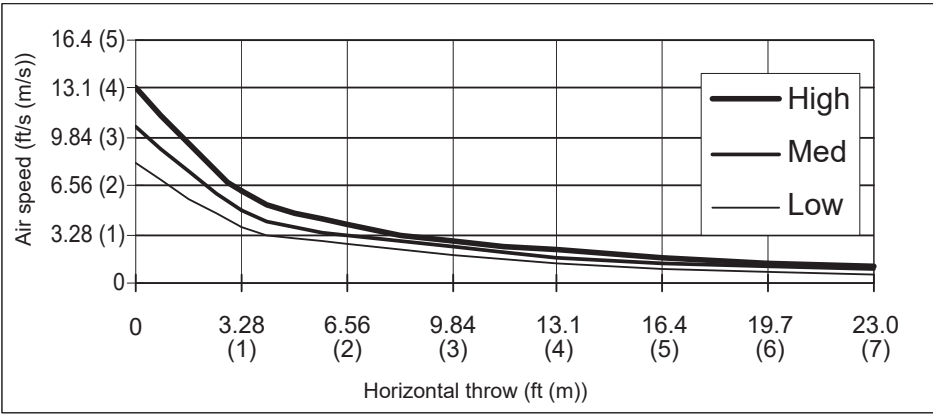
MMK-UP0071HP-UL

High : 12.5 ft/s (3.8 m/s)
Med : 9.51 ft/s (2.9 m/s)
Low : 8.20 ft/s (2.5 m/s)



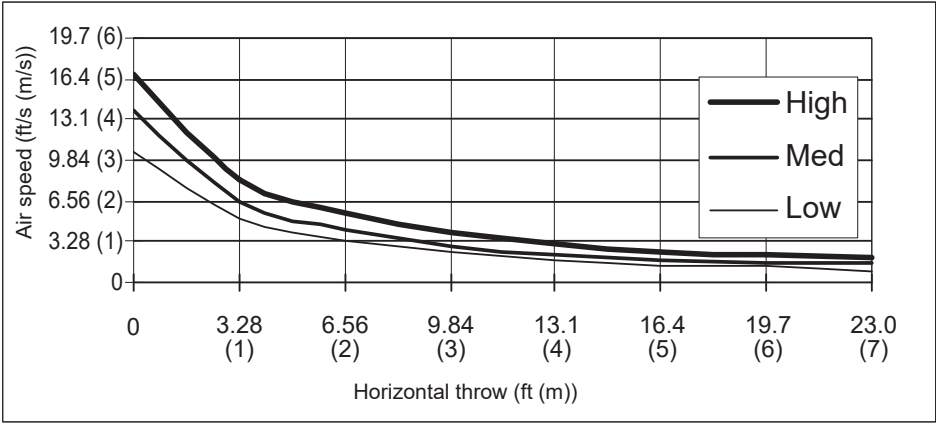
MMK-UP0091HP-UL / UP0121HP-UL

High : 13.1 ft/s (4.0 m/s)
Med : 10.5 ft/s (3.2 m/s)
Low : 8.20 ft/s (2.5 m/s)



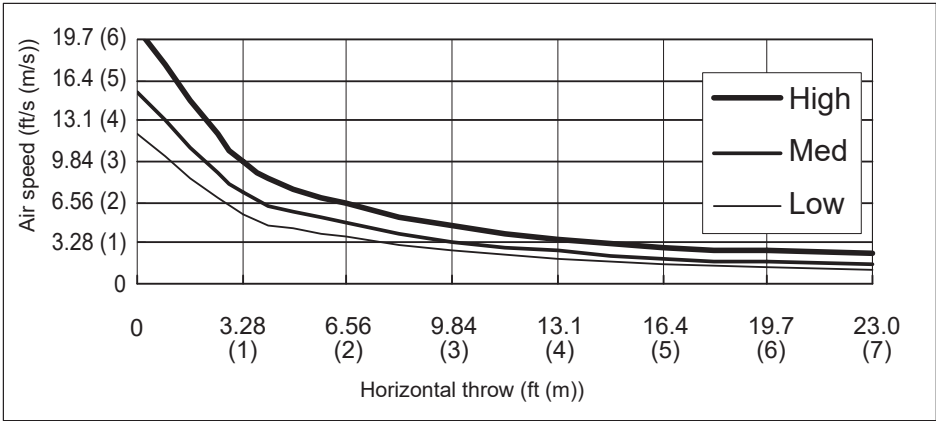
MMK-UP0151HP-UL / AP0181HP-UL

High : 16.7 ft/s (5.1 m/s)
Med : 13.8 ft/s (4.2 m/s)
Low : 10.5 ft/s (3.2 m/s)



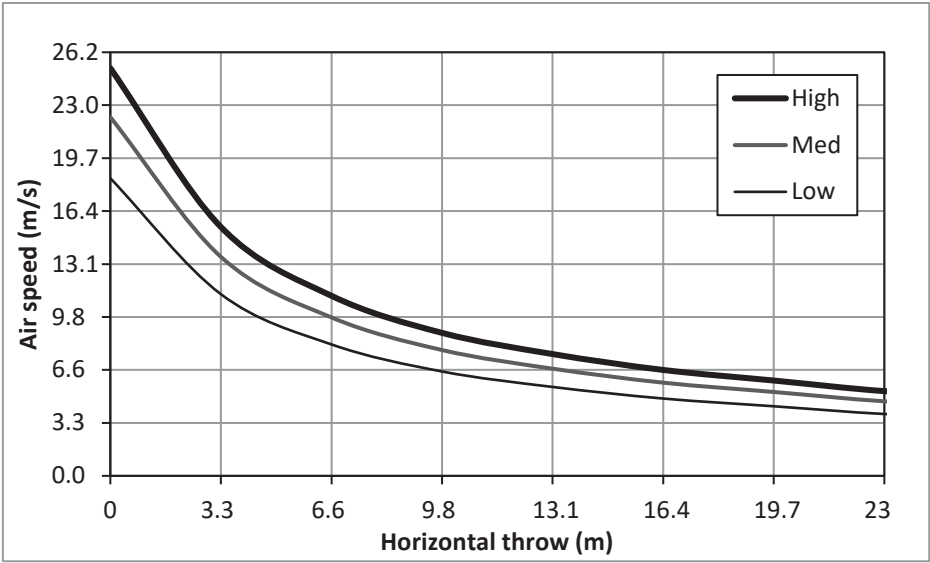
MMK-UP0241HP-UL

High : 20.3 ft/s (6.2 m/s)
Med : 15.4 ft/s (4.7 m/s)
Low : 12.1 ft/s (3.7 m/s)



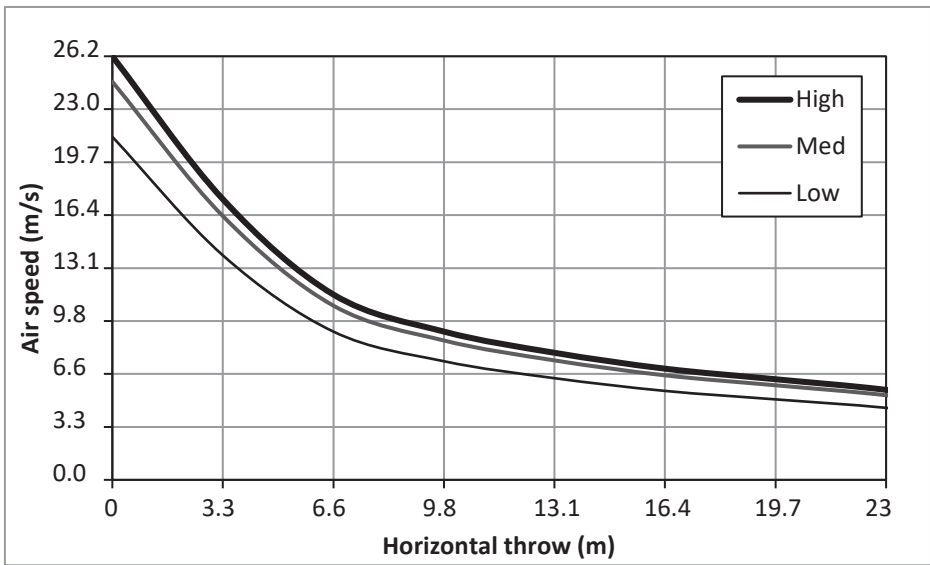
MMK-UP0301HP-UL

High : 25.26 ft/s (7.7 m/s)
Mid : 22.31 ft/s (6.8 m/s)
Low : 18.37 ft/s (5.6 m/s)



MMK-UP0361HP-UL

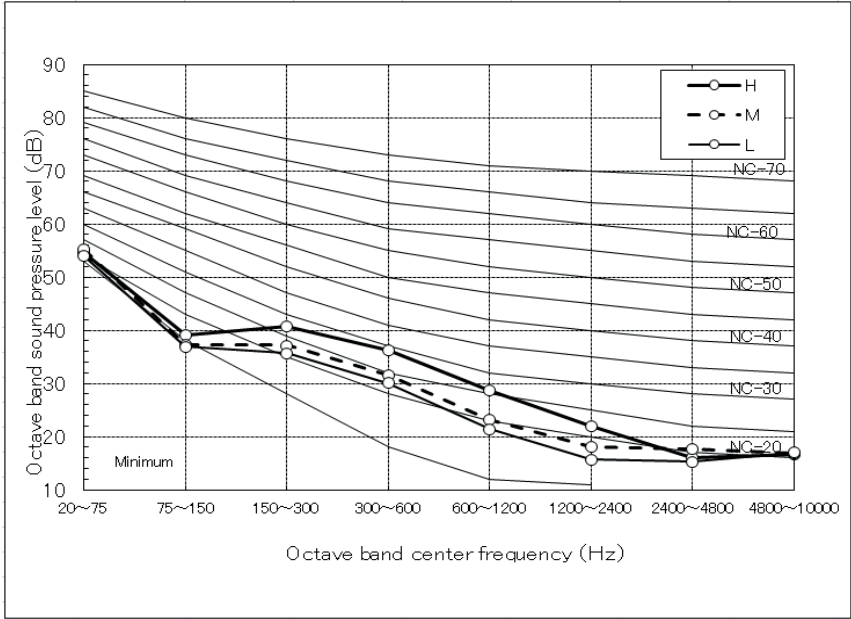
High : 26.24 ft/s (8.0 m/s)
Mid : 24.6 ft/s (7.5 m/s)
Low : 21.32 ft/s (6.5 m/s)



9. Sound data

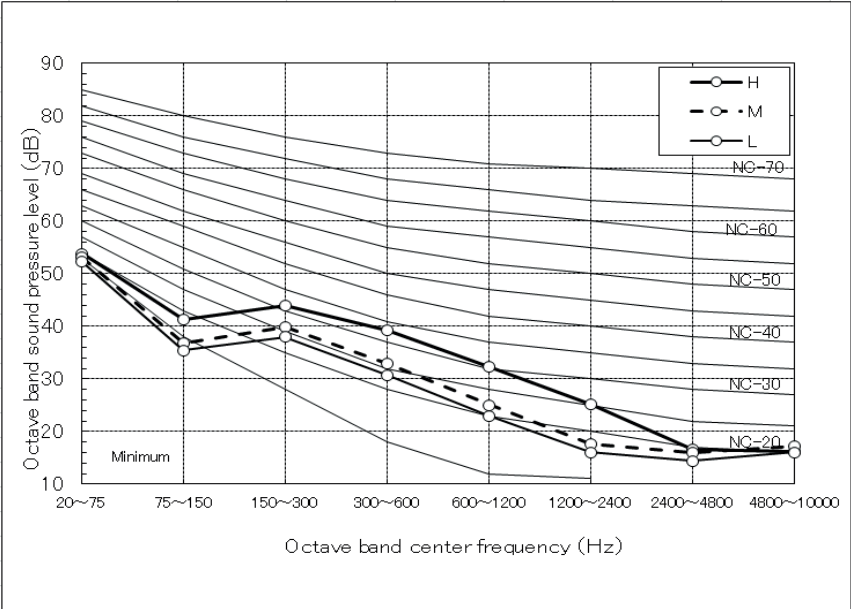
MMK-UP0071HP-UL

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	35	30	27

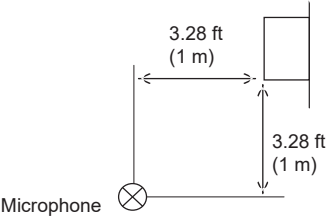


MMK-UP0091HP-UL

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	36	31	27

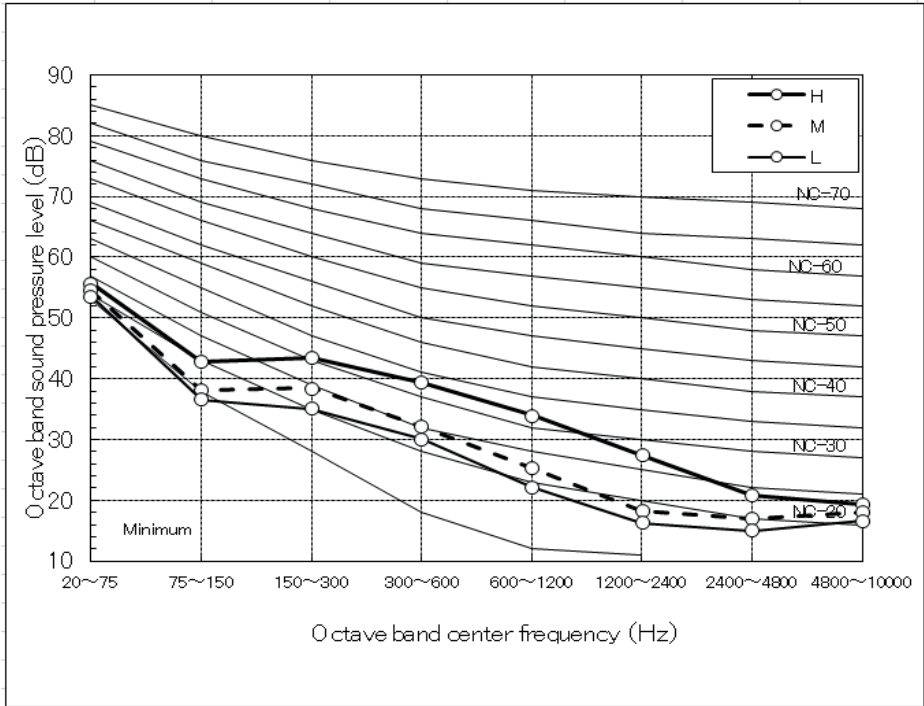


Sound pressure spectrum



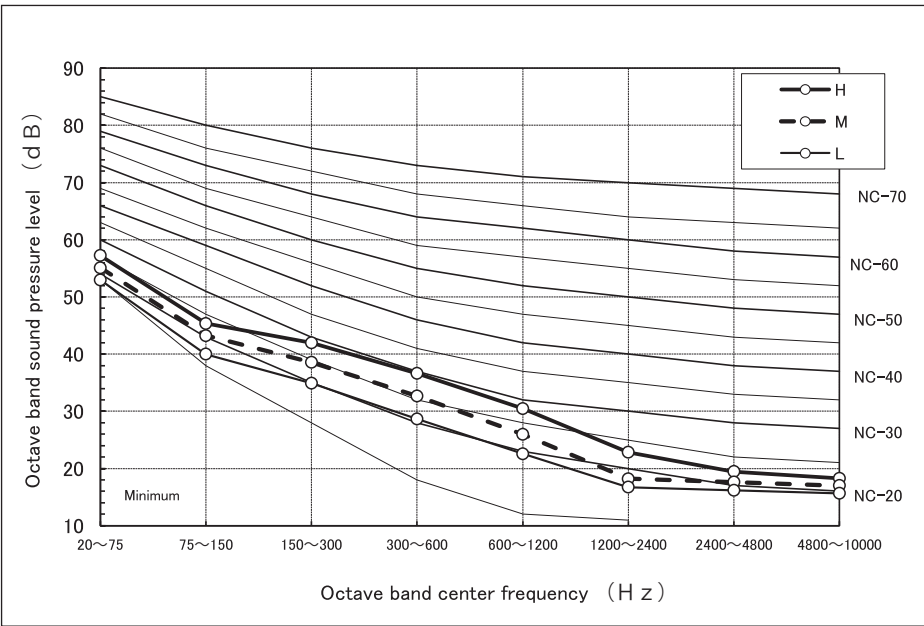
MMK-UP0121HP-UL

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	37	32	27



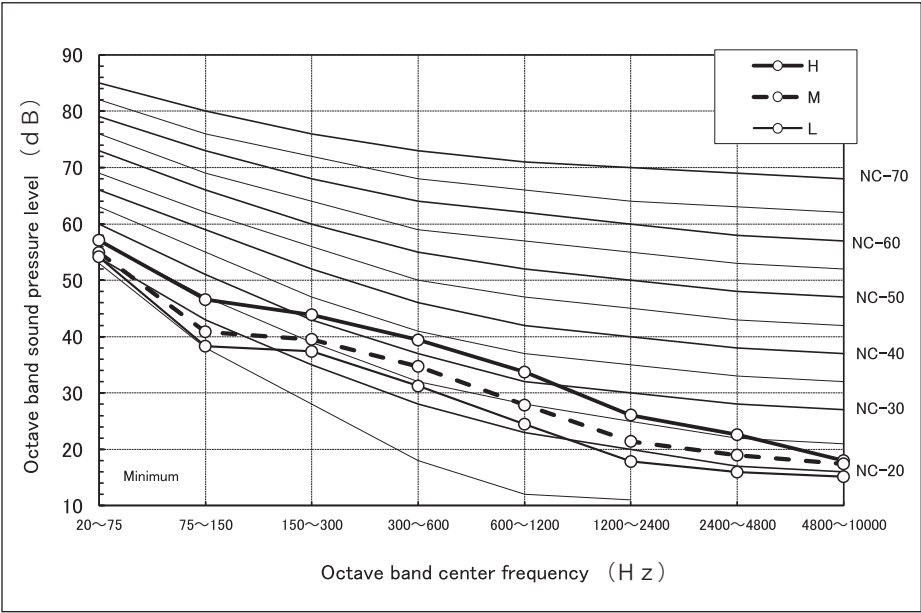
MMK-UP0151HP-UL

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	36	32



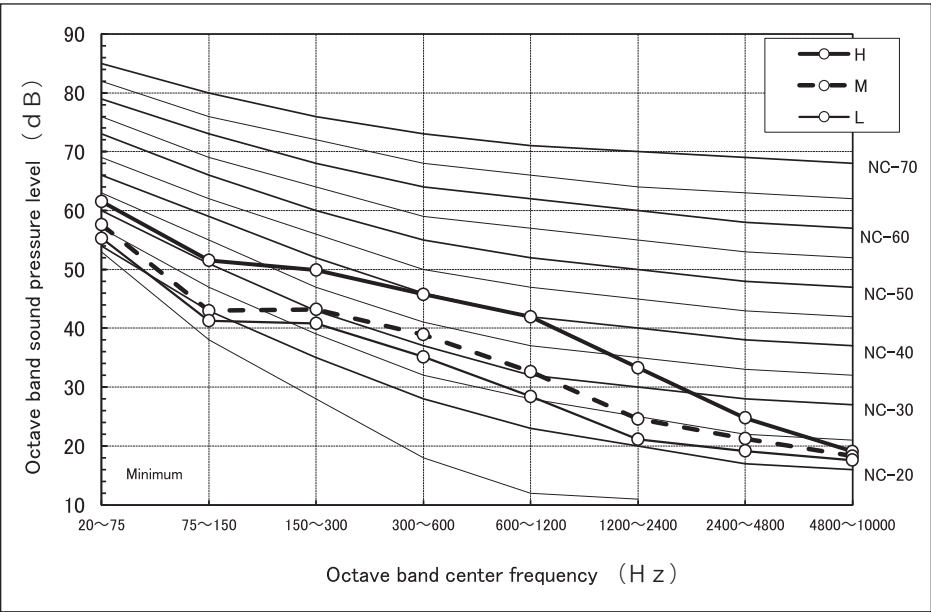
MMK-UP0181HP-UL

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	41	37	32



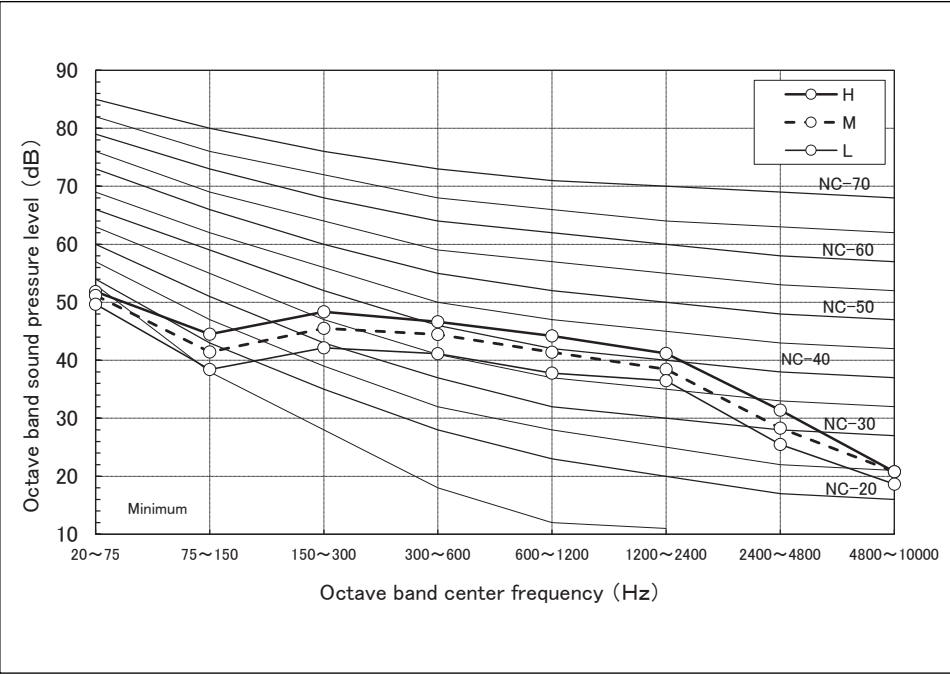
MMK-UP0241HP-UL

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	45	39	33



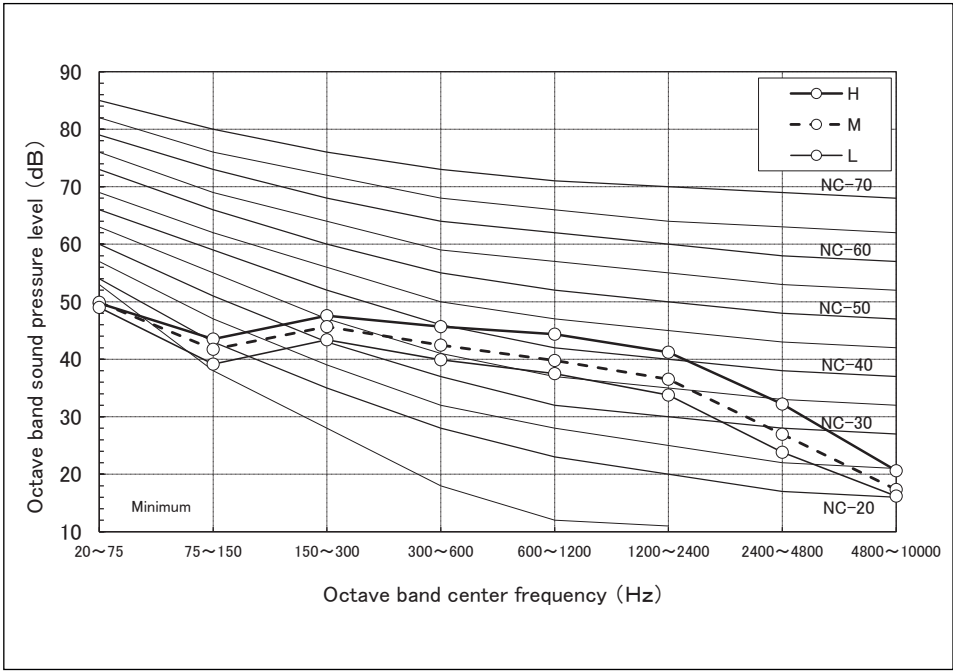
MMK-UP0301HP-UL

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	41



MMK-UP0361HP-UL

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	50	47	43



10. Accessories

Name	Appearance	Application	Function
Wireless remote control	 Slide down to unhide		• 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

Packed with the indoor unit

TOSHIBA CARRIER (THAILAND) CO.,LTD.

144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi,
Amphur Muang, Pathumthani 12000, Thailand

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