

High Satic Pressure Duct Type

MMD-AP0721HP-UL1

MMD-AP0961HP-UL1



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1. Specifications

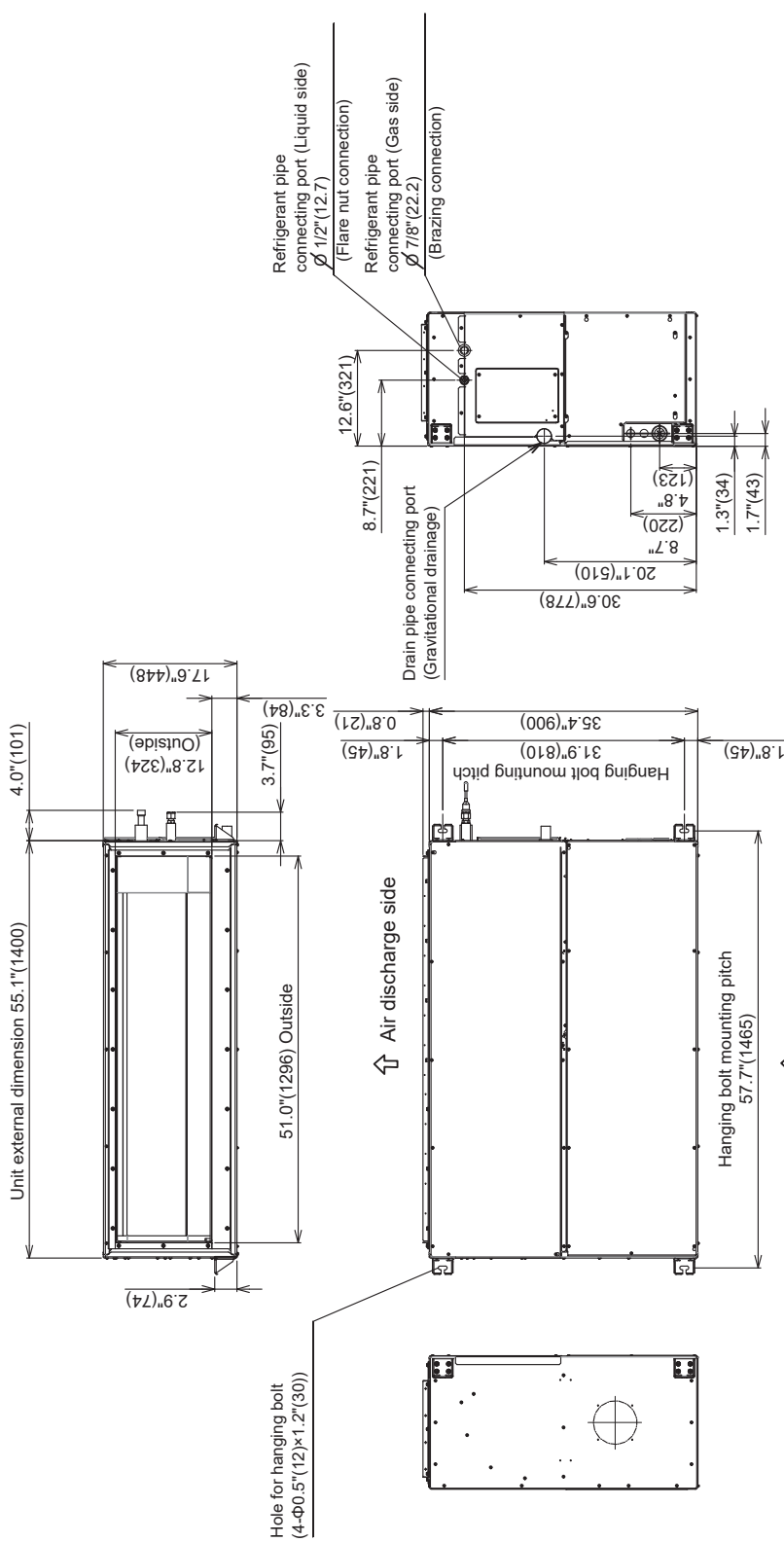
High static ducted type

Model name		MMD-	AP0721HP-UL1	AP0961HP-UL1	
Cooling Capacity		kBtu/h	72	96	
Heating Capacity		kBtu/h	81	108	
Electrical characteristics	Power supply		230 V (208 / 230 V) 1phase 60 Hz		
	Power consumption (208 / 230 V)		kW	0.54 / 0.54	0.79 / 0.79
Appearance			Zinc hot dipping steel plate		
Dimension	Unit	Height	In	17.6	
		Width	In	55.1	
		Depth	In	35.4	
	Packing	Height	In	21.2	
		Width	In	69.2	
		Depth	In	40.8	
Total weight	Unit		lbs	218	
	Packed unit		lbs	265	
Heat exchanger			Finned tube		
Fan unit	Fan		Centrifugal fan		
	Standard air flow (Mid. / Low)		cfm	2236 (1883 / 1471)	2825 (2471 / 2059)
	Motor		W	1000	
	External static pressure (*1)	Factory default		In WG	0.603
		External static pressure range		In WG	0.201 - 0.334 - 0.470 - <0.603> - 0.735 - 0.872 - 1.005 (7 steps)
Air filter			Field supply		
Connecting pipe	Gas side		In	7/8"	
	Liquid side		In	1/2"	
	Drain port (Nominal dia.)		In	VP25 (Polyvinyl chloride tube: External Dia. 1-1/4 Internal Dia.1)	
Drain pump			Option		
Sound pressure level (*2)	High tap / Mid tap / Low tap		db(A)	44 / 40 / 36	46 / 42 / 38

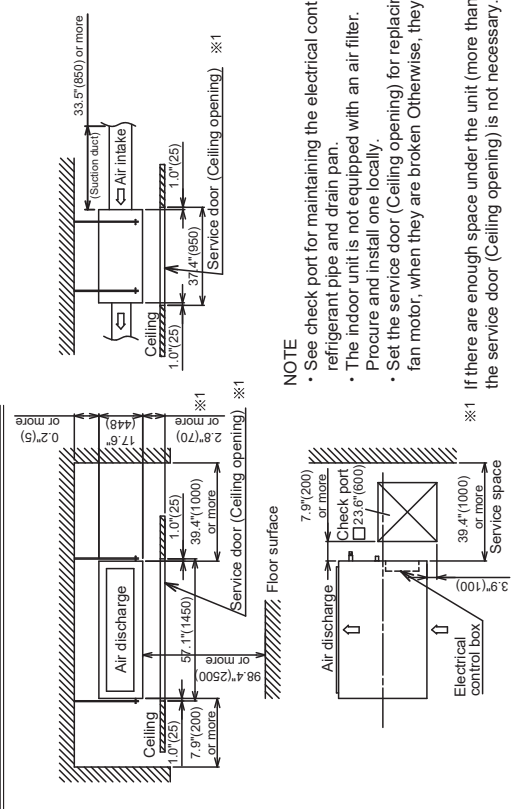
Note: Rated conditions Cooling: Indoor air temperature 80°F DB / 67°F WB, Outdoor air temperature 95°F DB
 Heating: Indoor air temperature 70°F DB, Outdoor air temperature 47°F DB / 43°F WB

2. Dimensions

MMD-AP*__1HP-UL1 (*072 / 096)



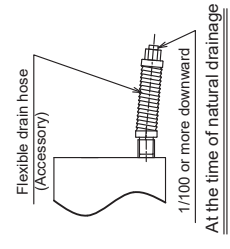
Space required for installation and servicing



NOTE

- See check port for maintaining the electrical control box, refrigerant pipe and drain pan.
- The indoor unit is not equipped with an air filter. Procure and install one locally.
- Set the service door (Ceiling opening) for replacing the fan, fan motor, when they are broken. Otherwise, they cannot be replaced.

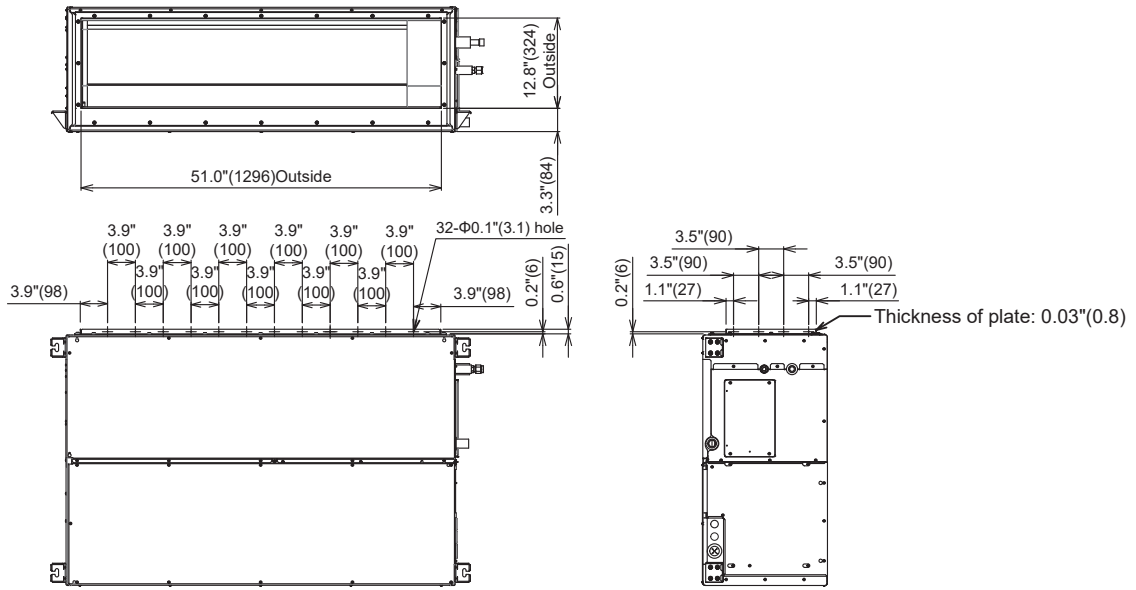
※1 If there are enough space under the unit (more than 39.4"(1000 mm)) the service door (Ceiling opening) is not necessary.



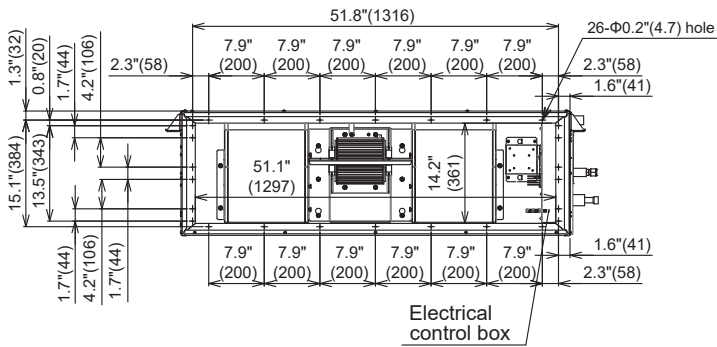
(Unit: in (mm))

Duct arrangement

<Air discharge>



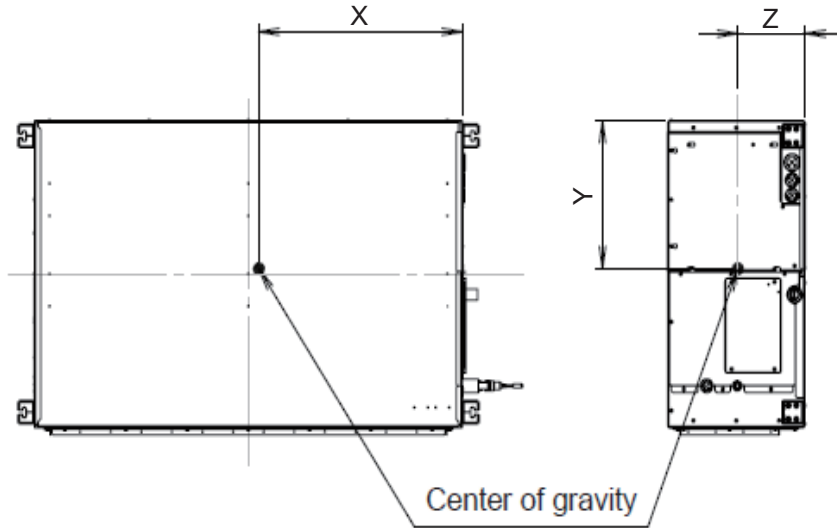
<Air intake>



(Unit: in (mm))

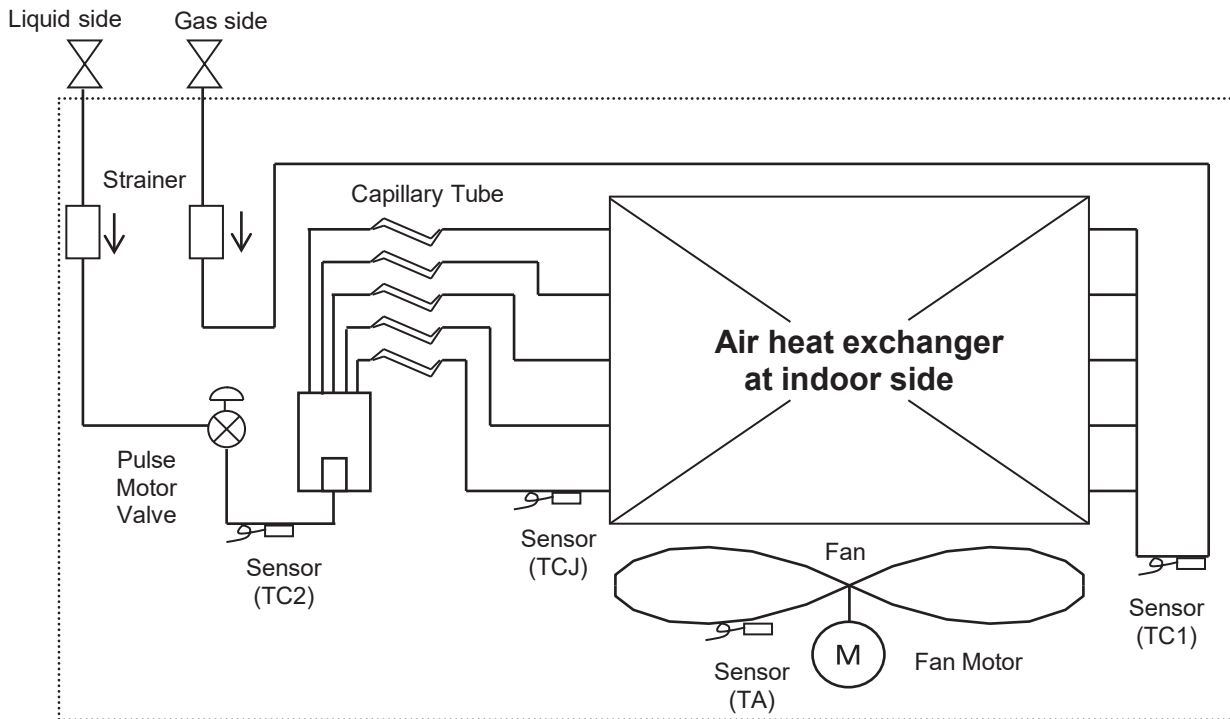
3. Center of gravity

Model name	X (In)	Y (In)	Z (In)	Total weight (lbs)
MMD-AP0721HP-UL1	26.2"	17.1"	8.7"	218
MMD-AP0961HP-UL1				



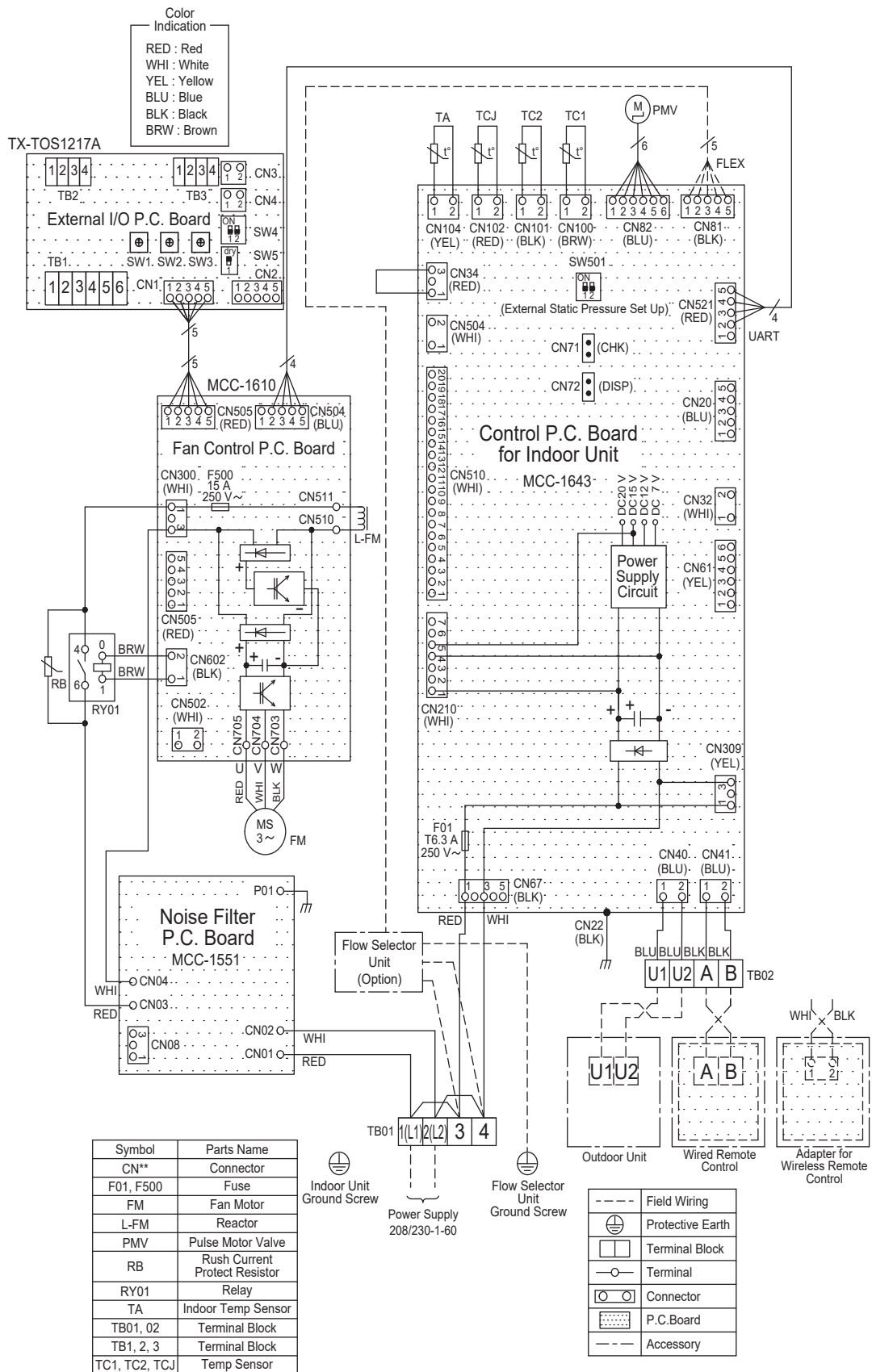
4. Piping diagram

MMD-AP*__1HP-UL1 (*072 / 096)



5. Wiring diagram

MMD-AP*__1HP-UL1 (*072 / 096)



6. Electrical current characteristic

Type	Model	Nominal Voltage (V-Ph-Hz)	Voltage Range (V)		Power consumption kW	FLA A	MCA A	MOCP A
			Min	Max				
High Static Ducted type	MMD-AP0721HP-UL1	208/230-1-60	187	253	0.54 / 0.54	4.6	5.7	15
	MMD-AP0961HP-UL1	208/230-1-60	187	253	0.79 / 0.79	5.9	7.4	15

MCA: Minimum Circuit Amps

FLA: Full Load Amps

MOCP: Maximum Overcurrent Protection (Amps)

7. Sensible capacity table

High Static Ducted type (MMD-AP*__1HP-UL1)

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
072	50	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	54	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	57	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	64	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	64	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	68	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	70	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	73	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	77	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	81	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	84	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	88	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	91	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
	95	59110	53240	65380	56710	69840	60230	72000	60050	74160	60040	78480	59490	82080	58110
99	57400	51700	63480	55060	67820	58480	69910	58310	72010	58300	76200	57770	79700	56430	
102	56040	50480	61980	53760	66210	57100	68260	56930	70300	56920	74400	56400	77810	55100	
096	50	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	54	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	57	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	64	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	64	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	68	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	70	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
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	77	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	81	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	84	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	88	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	91	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
	95	78820	71500	87170	76150	93120	80880	96000	80640	98880	80640	104640	79890	109440	78040
99	76530	69430	84640	73940	90420	78540	93220	78300	96010	78300	101610	77580	106270	75780	
102	74720	67780	82640	72190	88280	76680	91010	76450	93740	76440	99200	75740	103750	73990	

Heating capacity table

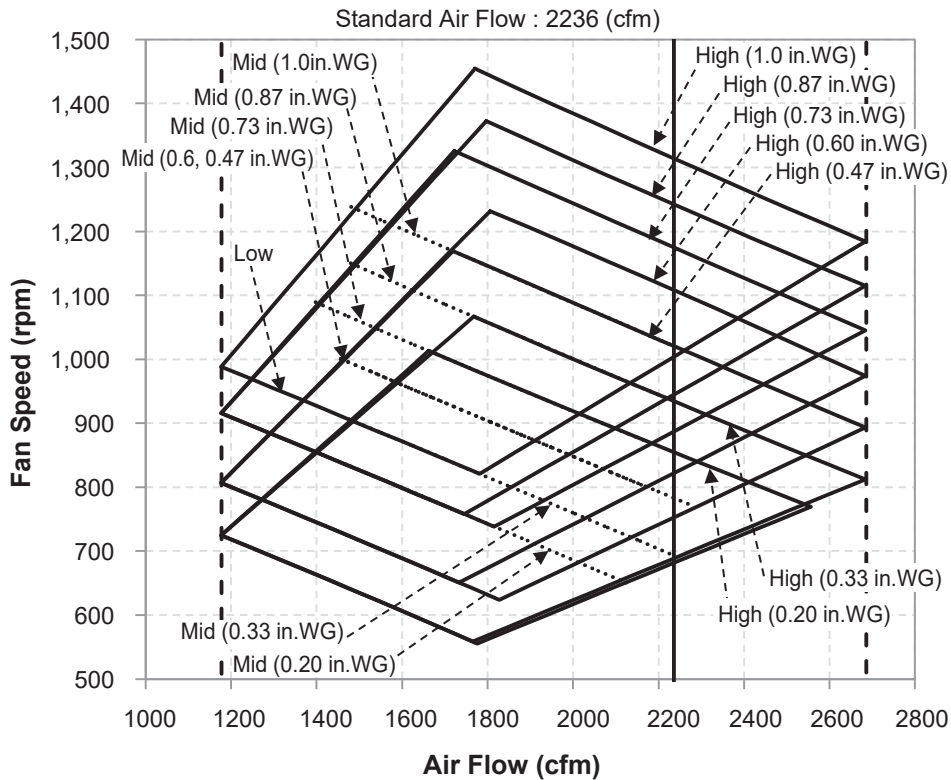
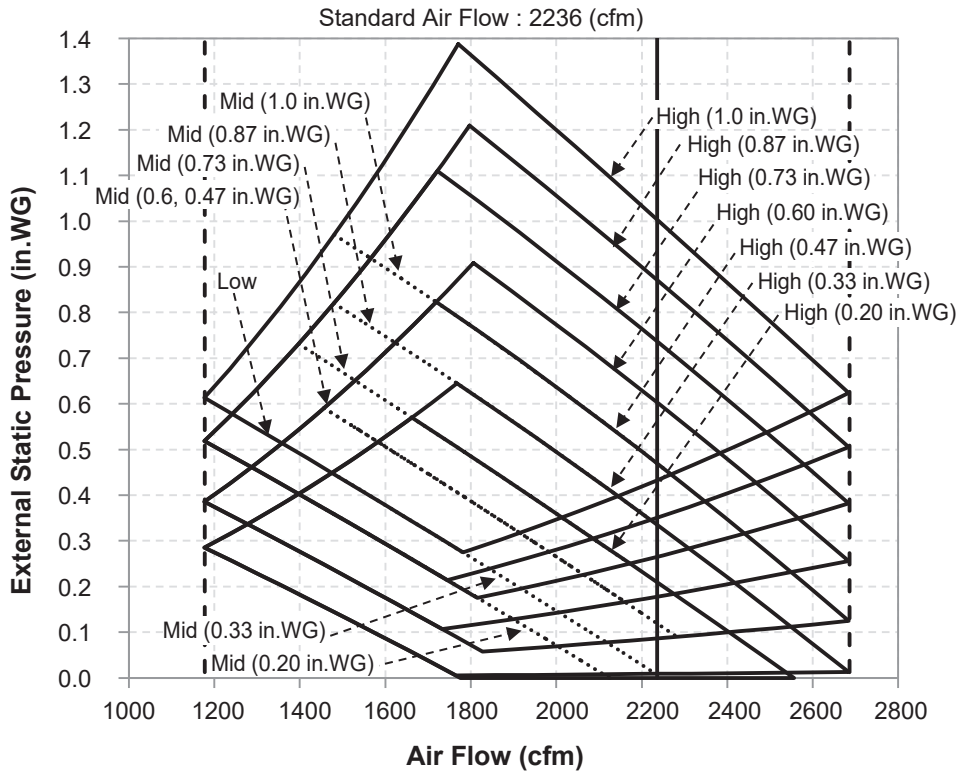
	Indoor air temperature °FDB					
Fahrenheit (°F)	62	65	68	70	72	75
Celsius (°C)	16.7	18.3	20	21.1	22.2	23.9
	Total capacity (TC) (kBtu/h)					
MMD-AP0721HP-UL1	84.6	83.4	81.9	81.0	79.8	78.3
MMD-AP0961HP-UL1	112.8	111.2	109.2	108.0	106.4	104.4

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 corrected capacity of the VRF system satisfies the required heat load.

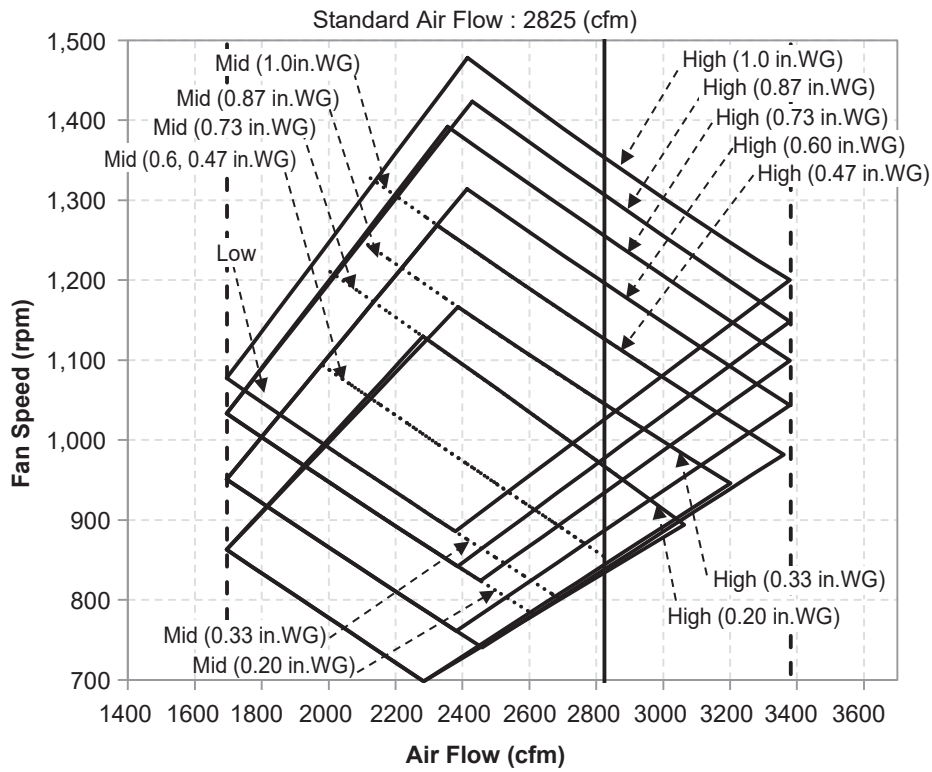
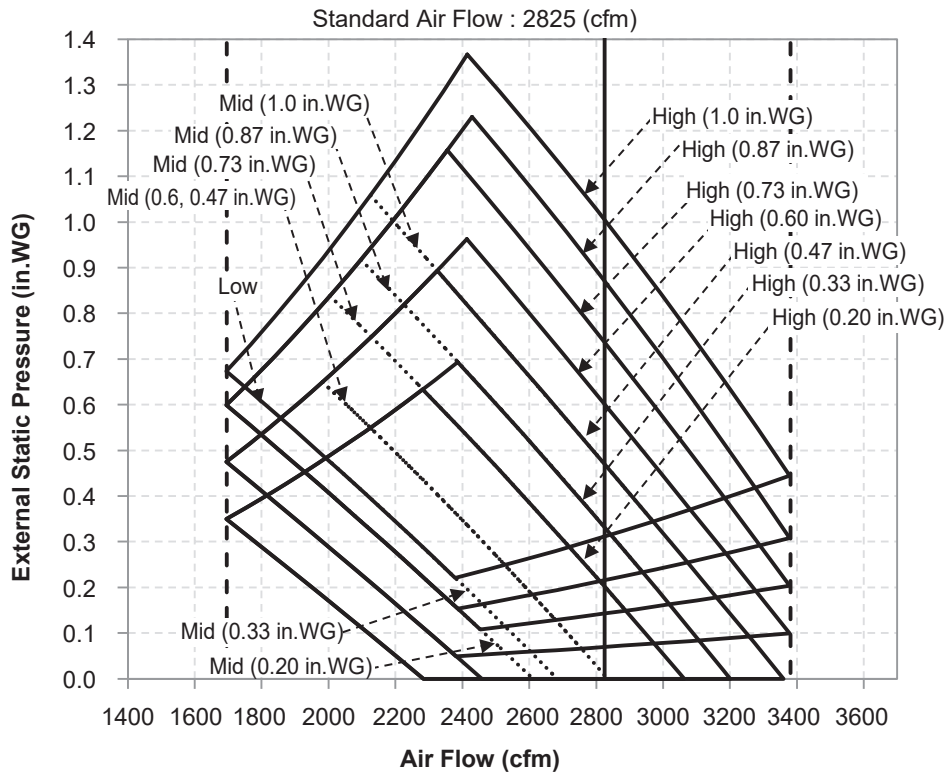
Notes: 2. This is the capacity table of rated heating test condition of outdoor 47 °F Dry Bulb / 43 °F Wet Bulb.

8. Fan characteristics

MMD-AP0721HP-UL1

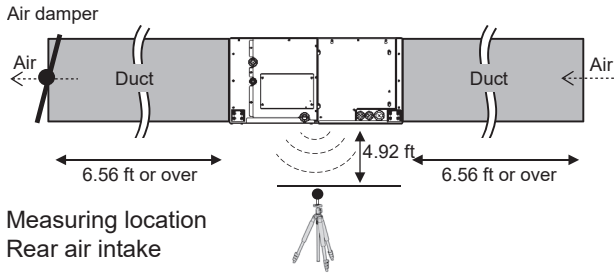


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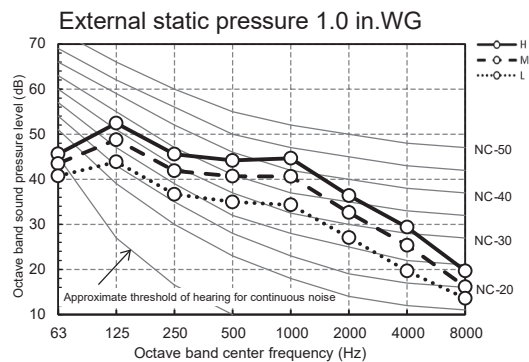
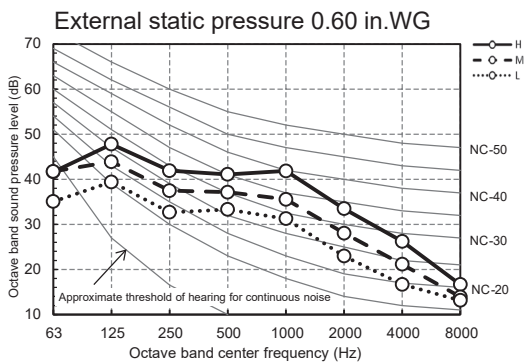
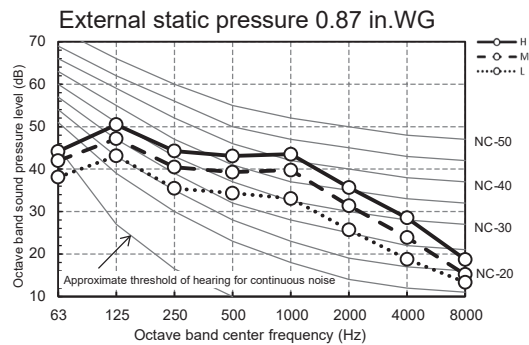
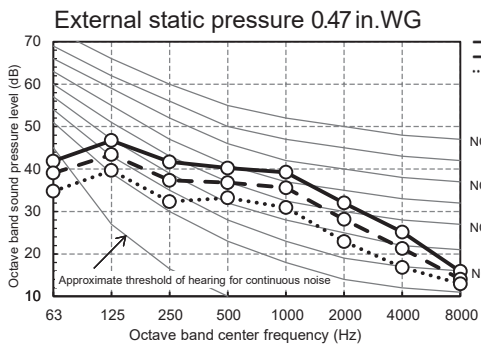
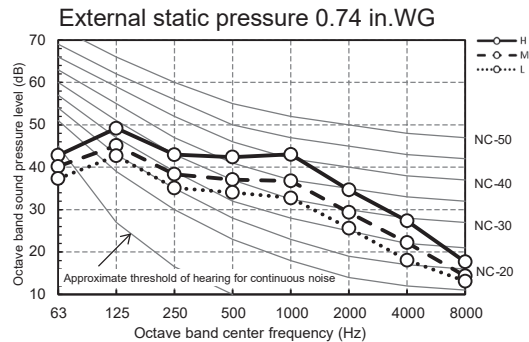
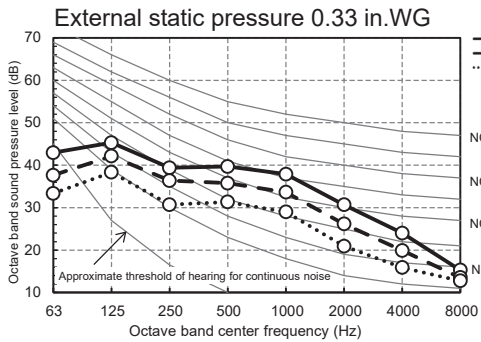
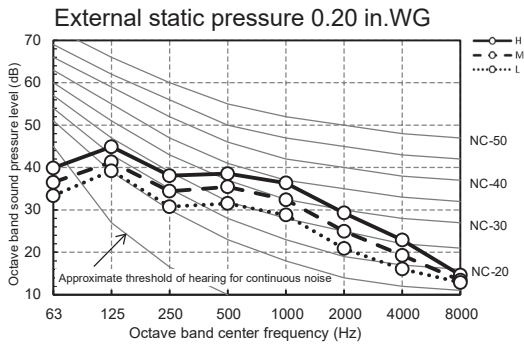


9. Sound data

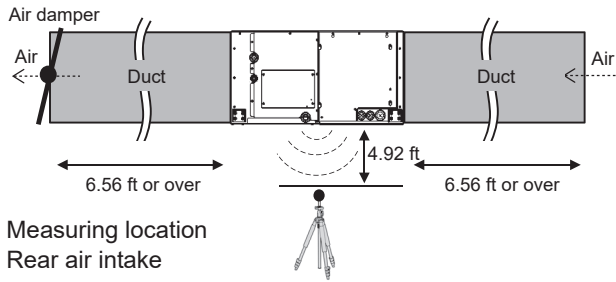
MMD-AP0721HP-UL1



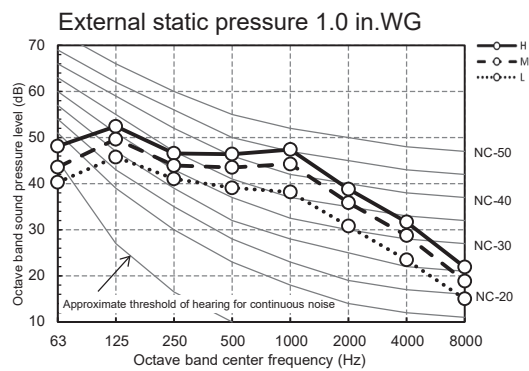
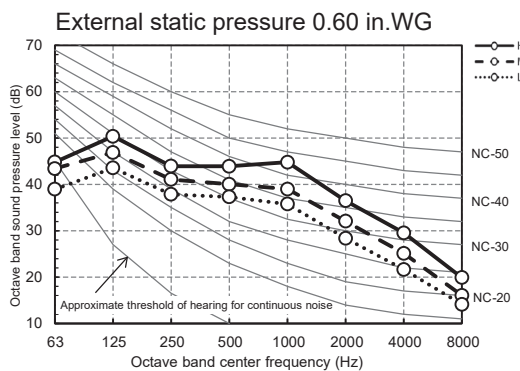
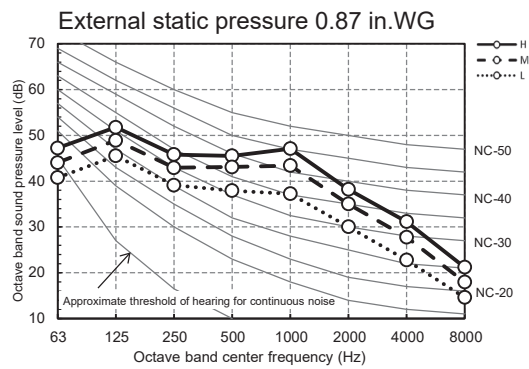
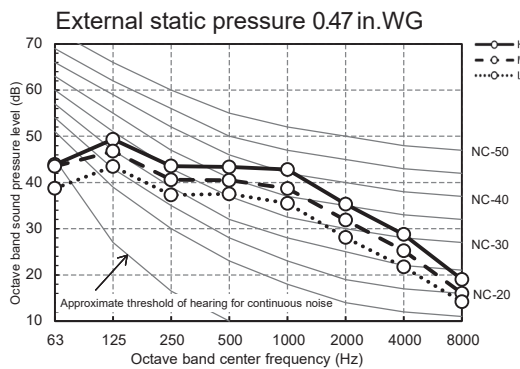
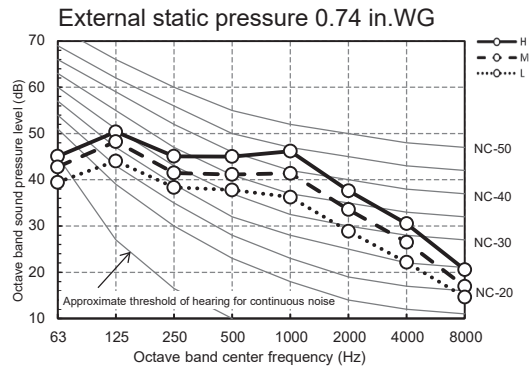
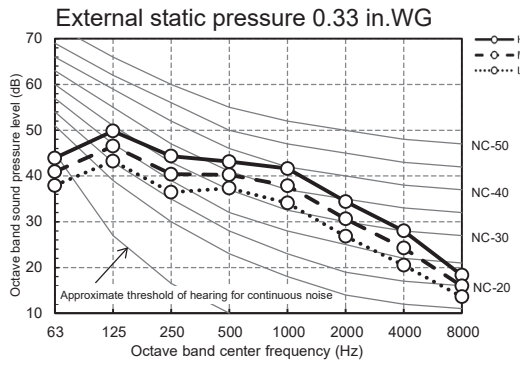
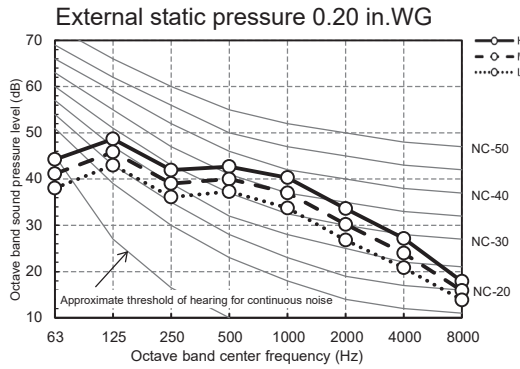
ESP (in.WG)	Sound Pressure Level (dBA)		
	H	M	L
0.20	42.5	38.5	34.5
0.33	43.0	39.0	35.0
0.47	43.5	39.5	35.5
0.60	44.0	40.0	36.0
0.74	45.0	41.0	37.0
0.87	46.0	42.0	38.0
1.00	47.0	43.0	39.0



MMD-AP0961HP-UL1

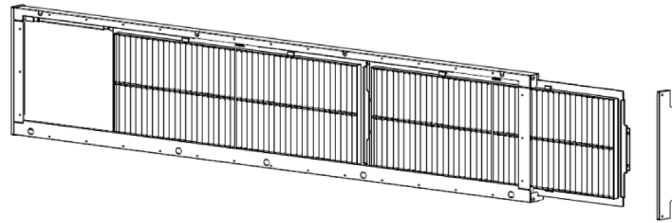


ESP (in.WG)	Sound Pressure Level (dBA)		
	H	M	L
0.20	44.5	40.5	36.5
0.33	45.0	41.0	37.0
0.47	45.5	41.5	37.5
0.60	46.0	42.0	38.0
0.74	47.0	43.0	39.0
0.87	48.0	44.0	40.0
1.00	49.0	45.0	41.0



10. Accessories

Option Parts	Model Name	Applicable FCU
Filter Kit	TCB-LK2801DP-UL	MMD-AP0721 / 0961HP-UL1



TCB-LK2801DP-UL

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