Slim Ducted type

MMD-UP0071SPH-UL

MMD-UP0091SPH-UL

MMD-UP0121SPH-UL

MMD-UP0151SPH-UL

MMD-UP0181SPH-UL

Contents

1. Specifications

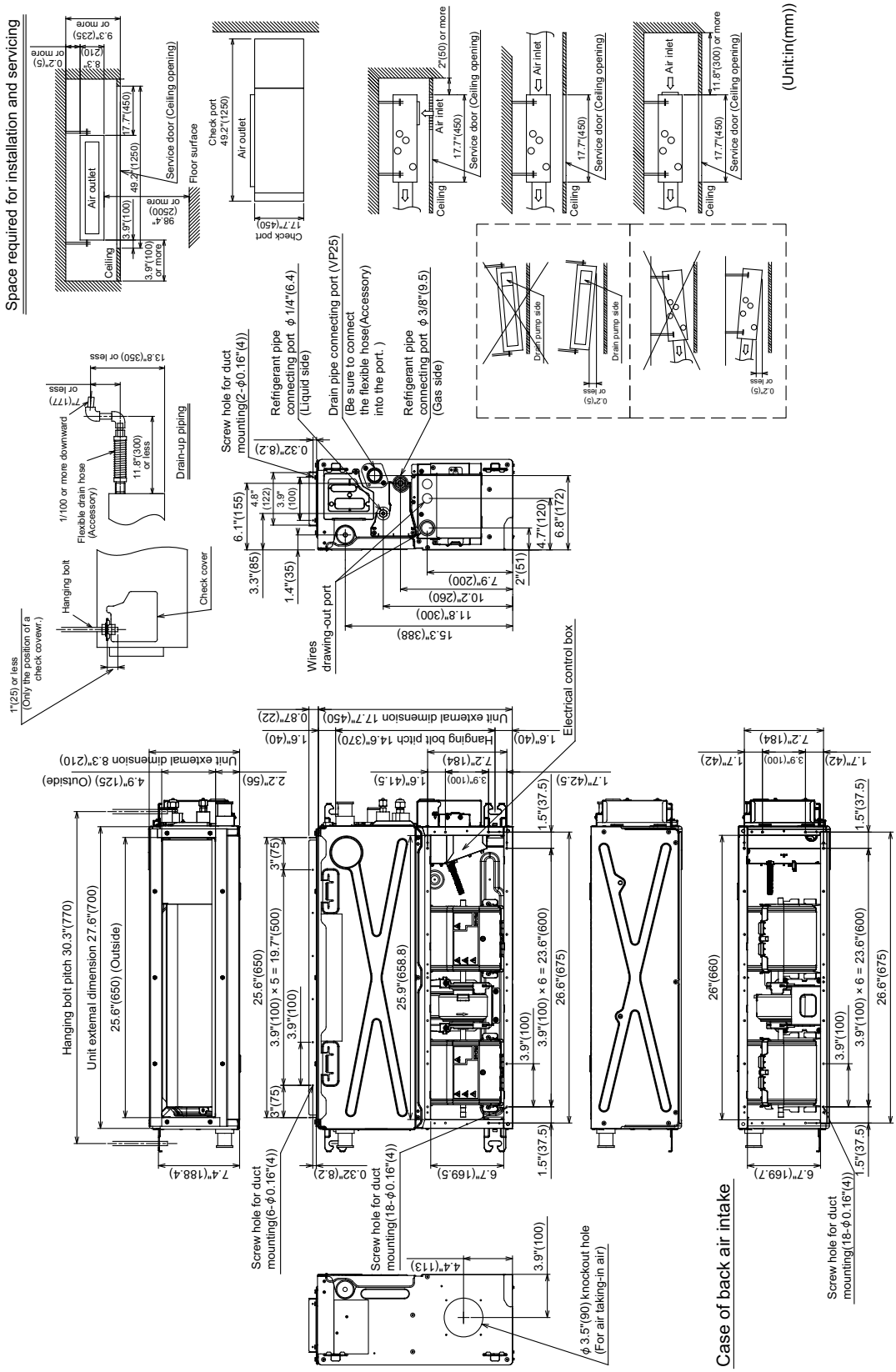
Slim Duct type

MODEL NAME			MMD-UP0071SPH-UL	MMD-UP0091SPH-UL	MMD-UP0121SPH-UL	MMD-UP0151SPH-UL	MMD-UP0181SPH-UL
Cooling Capacity		kBtu/h	7.5	9.5	12.0	15.4	18.0
Heating Capacity		kBtu/h	8.5	10.5	13.5	17.0	20.0
Electrical characteristics	Power supply		230 V (208 V / 230 V) 1 phase 60 Hz				
	Running current	A	0.53	0.57	0.63	0.59	0.69
	Power consumption	kW	0.048	0.051	0.057	0.054	0.069
	Starting current	A	0.93	1.00	1.10	1.03	1.21
Appearance			Zinc hot dipping steel plate				
Dimension	H	In	8.3				
	W	In	27.6			35.4	
	D	In	17.7				
Total Weight		lbs	37.5			44.1	
Heat exchanger			Finned tube				
Soundproof / Heat-insulating material			Polyethylene foam + Polyurethane foam				
Fan			Centrifugal fan (Sirocco fan)				
Standard air flow (H / M + / M / L + / L)		cfm	320 / 290 / 270 / 250 / 240	340 / 310 / 290 / 260 / 250	350 / 320 / 310 / 280 / 260	410 / 390 / 380 / 350 / 320	460 / 450 / 430 / 410 / 380
Motor output		W	31			46	
External Static Pressure (No filter)		inWG	0.05 (Factory setting) -0.09 -0.13 -0.17 -0.21<5step>			0.07 (Factory setting) -0.11 -0.15 -0.19 -0.23 <5step>	
Controller			Remote controller				
Air filter			Local procurement				
Connecting pipe (mm)	Gas side	In	3 / 8"			1 / 2"	
	Liquid side	In	1 / 4"				
	Drain port (Nominal dia. mm)		25（Polyvinyl chloride tube)				
Sound pressure level (H / M + / M / L + / L)	Under air intake	dB	43 / 41 / 39 / 37 / 35	44 / 42 / 40 / 38 / 37	45 / 43 / 41 / 39 / 38	41 / 40 / 39 / 37 / 36	44 / 43 / 42 / 40 / 39
	Back air intake	dB	33 / 32 / 30 / 29 / 27	34 / 33 / 31 / 30 / 28	36 / 33 / 32 / 30 / 29	31 / 30 / 29 / 28 / 27	33 / 32 / 31 / 30 / 29
Operating Range (*1)	Cooling	(°F)	59 to 75 (Wet Bulb)				
	Heating	(°F)	59 to 82 (Dry Bulb)				

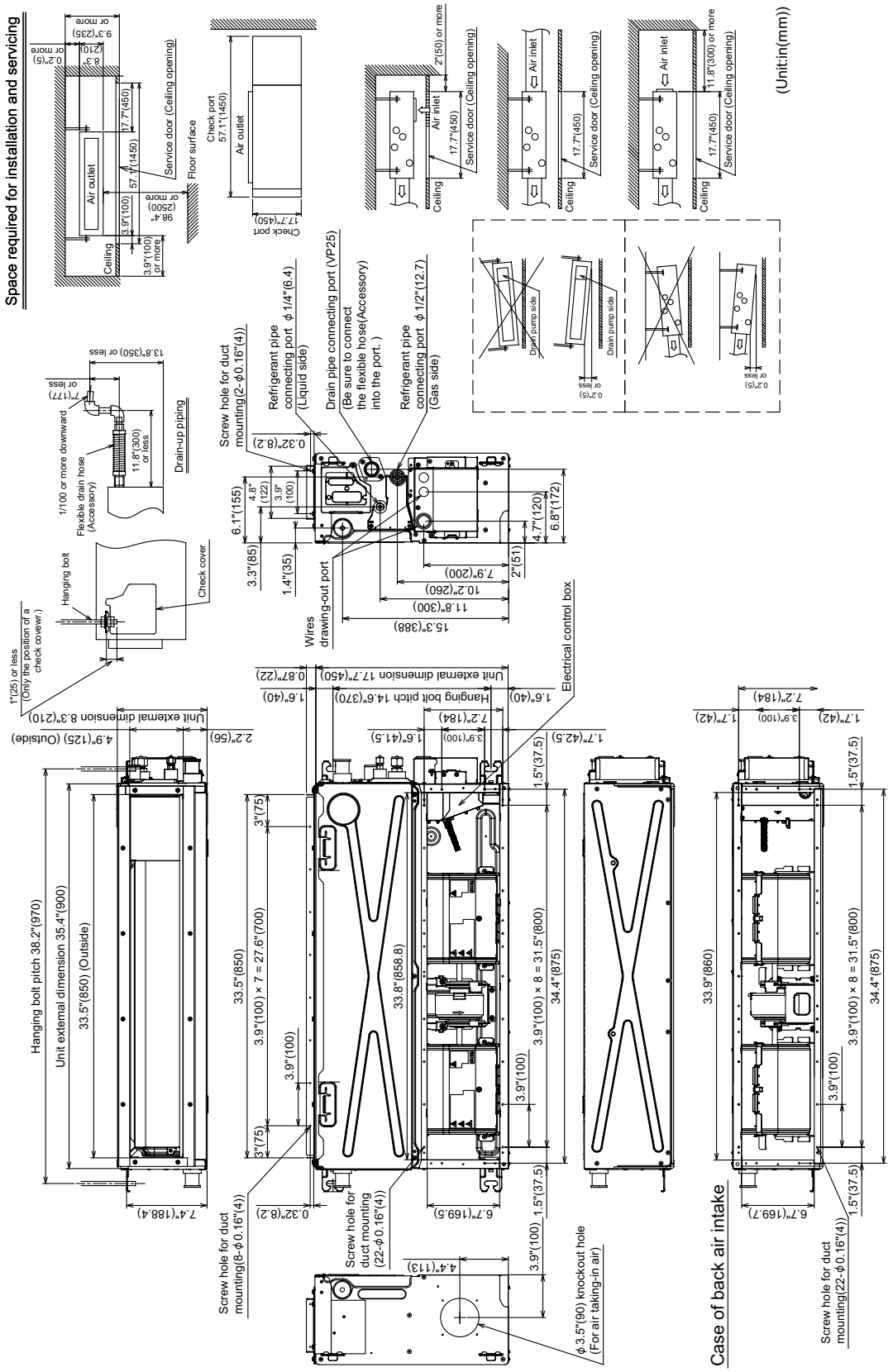
(*1) Refer to outdoor unit databook for operating range of outdoor units.

2. Dimensions

MMD-UP0071SPH-UL, UP0091SPH-UL, UP0121SPH-UL

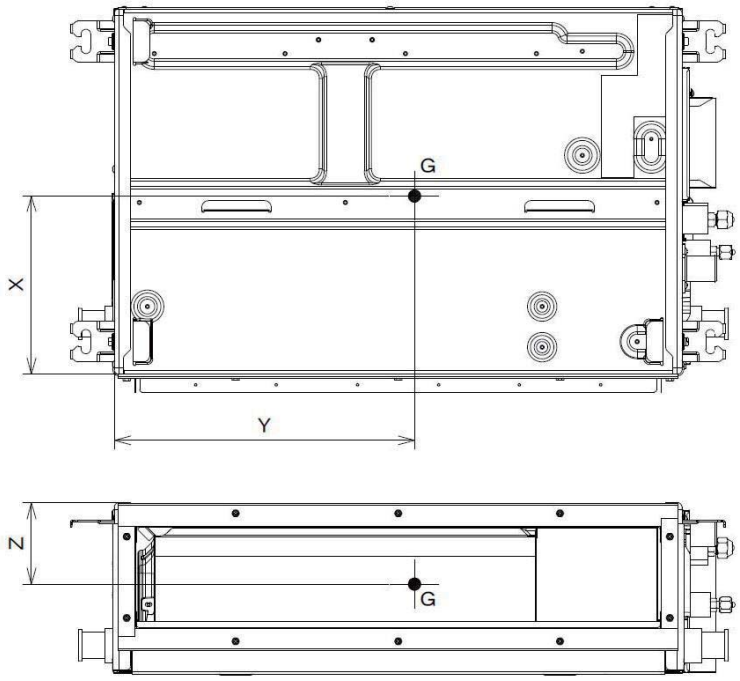


MMD-UP0151SPH-UL, UP0181SPH-UL



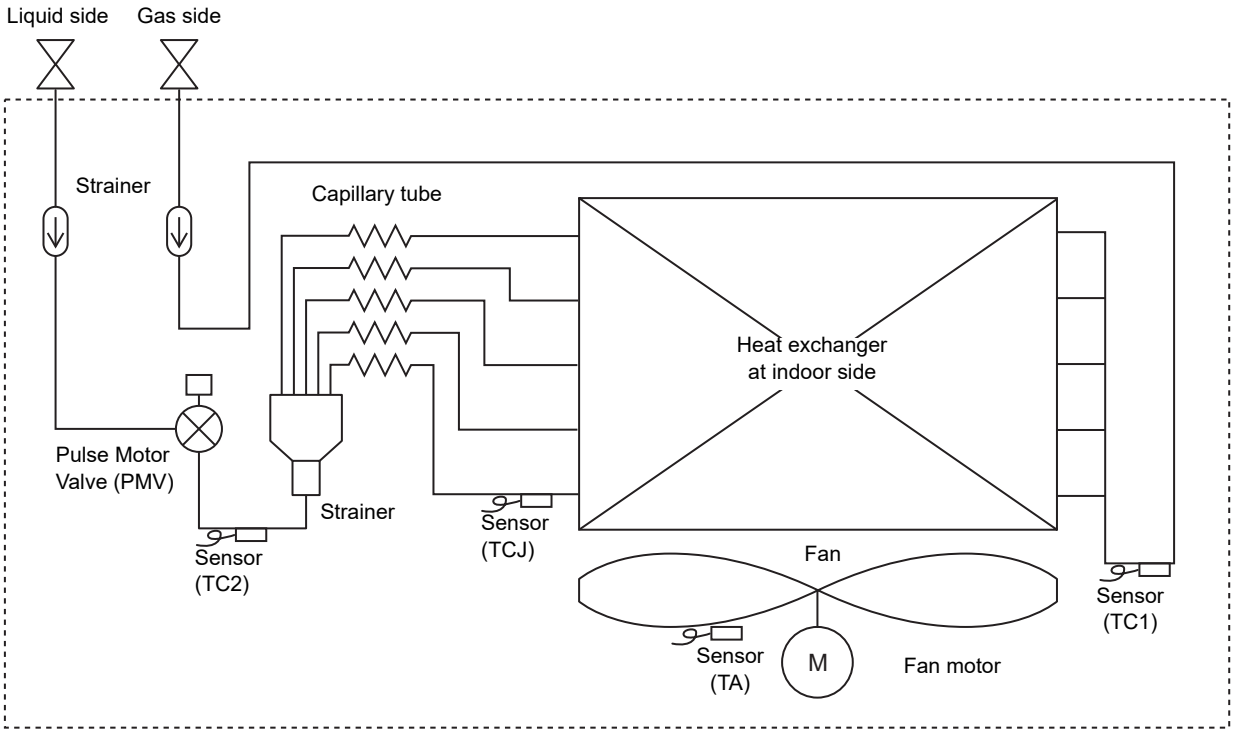
3. Center of gravity

Model name	X (in)	Y (in)	Z (in)	Total weight (lbs)
MMD-UP0071SPH-UL	8.7	14.6	3.9	37.5
MMD-UP0091SPH-UL				
MMD-UP0121SPH-UL				
MMD-UP0151SPH-UL	8.3	18.3	3.9	44.1
MMD-UP0181SPH-UL				



4. Piping diagram

Indoor unit

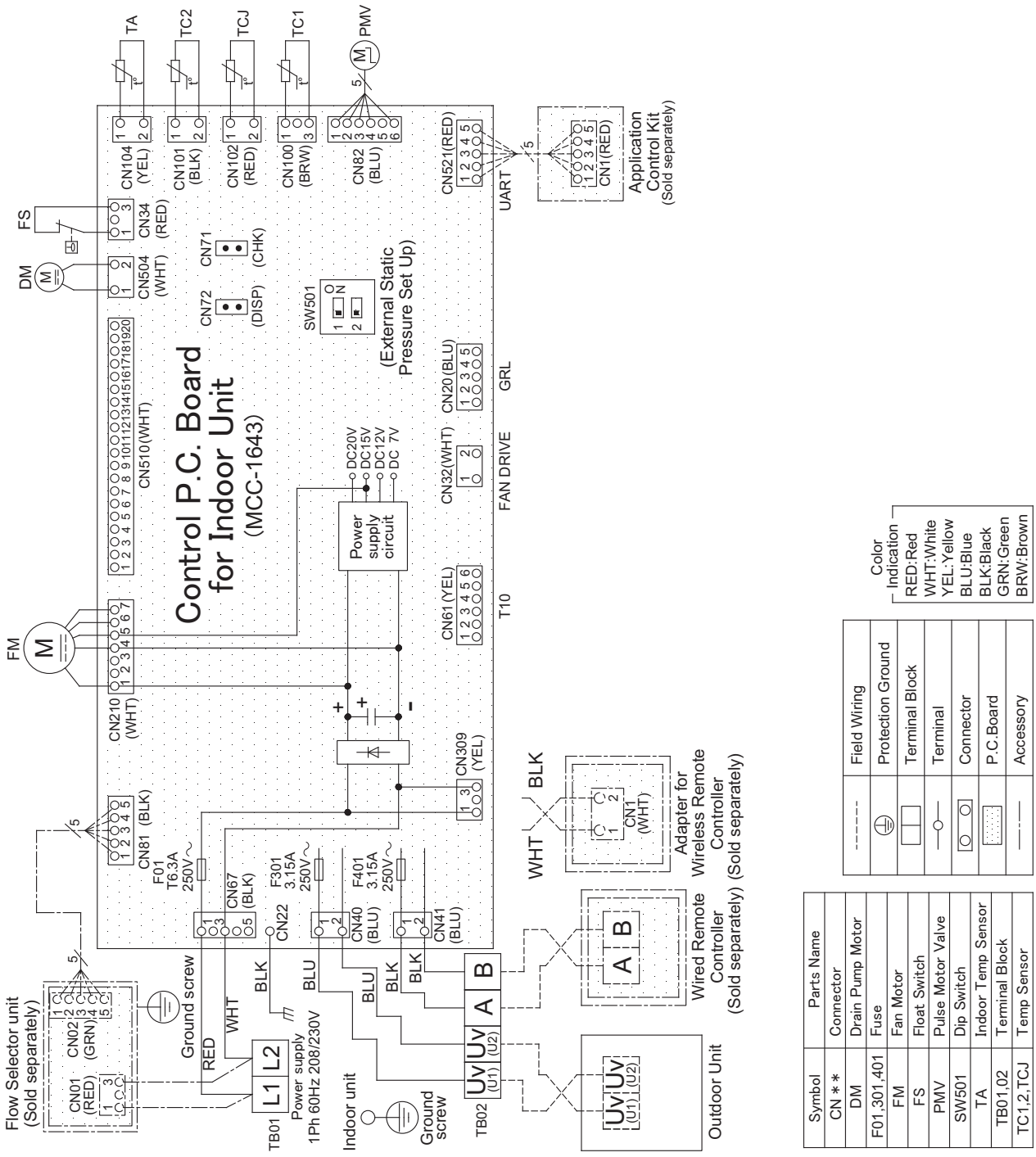


Explanation of functional parts in indoor unit

Functional part name		Functional outline
Pulse Motor Valve	PMV	(Connector CN082 (6P): Blue) 1) Controls superheat in cooling operation 2) Controls subcool 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 superheat in cooling operation
	3. TC2	(Connector CN101 (2P): Black) 1) Controls PMV subcool in heating operation
	4. TCJ	(Connector CN102 (2P): Red) 1) Controls PMV superheat in cooling operation

5. Wiring diagram

MMD-UP0071SPH-UL, UP0091SPH-UL, UP0121SPH-UL, UP0151SPH-UL, UP0181SPH-UL



Symbol	Parts Name
CN＊＊	Connector
DM	Drain Pump Motor
F01,301,401	Fuse
FM	Fan Motor
FS	Float Switch
PMV	Pulse Motor Valve
SW501	Dip Switch
TA	Indoor Temp Sensor
TB01,02	Terminal Block
TC1,2,TCJ	Temp Sensor

6. Electrical current characteristics

Type	Model name	Nominal Voltage (V-Ph-Hz)	Voltage Range (V)		Power consumption	FLA	MCA	MOCP
			Min	Max	(kW)	(A)	(A)	(A)
Slim Duct type	MMD-UP0071SPH-UL	208/230-1-60	187	253	0.031	0.7	0.9	15
	MMD-UP0091SPH-UL	208/230-1-60	187	253	0.031	0.8	1.0	15
	MMD-UP0121SPH-UL	208/230-1-60	187	253	0.031	0.8	1.0	15
	MMD-UP0151SPH-UL	208/230-1-60	187	253	0.046	0.8	1.0	15
	MMD-UP0181SPH-UL	208/230-1-60	187	253	0.046	0.9	1.2	15

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

7. Sensible capacity table

Slim Duct type (MMD-UP___1SPH-UL)

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	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	54	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	57	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	61	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	64	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	68	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	70	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	73	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	77	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	81	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	84	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	88	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	91	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	95	6160	5450	6810	5810	7280	6170	7500	6150	7730	6150	8180	6090	8550	5950
	99	5980	5290	6610	5640	7060	5990	7280	5970	7500	5970	7940	5920	8300	5780
	102	5840	5170	6460	5510	6900	5850	7110	5830	7320	5830	7750	5780	8110	5640
009	50	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	54	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	57	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	61	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
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	70	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	73	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	77	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	81	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	84	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	88	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	91	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	95	7800	6320	8630	6730	9220	7150	9500	7130	9790	7120	10360	7060	10830	6900
	99	7570	6130	8380	6530	8950	6940	9220	6920	9500	6920	10050	6850	10520	6700
	102	7390	5990	8180	6380	8740	6770	9010	6750	9280	6750	9820	6690	10270	6540
012	50	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
	54	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
	57	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
	61	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
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	88	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
	91	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
	95	9850	7340	10900	7820	11640	8300	12000	8280	12360	8280	13080	8200	13680	8010
	99	9570	7130	10580	7590	11300	8060	11650	8040	12000	8040	12700	7970	13280	7780
	102	9340	6960	10330	7410	11030	7870	11380	7850	11720	7850	12400	7780	12970	7600

Slim Duct type (MMD-UP___1SPH-UL)

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	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	54	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	57	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	61	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	64	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	68	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	70	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	73	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	77	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	81	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	84	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	88	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	91	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	95	12640	9690	13980	10330	14940	10970	15400	10930	15860	10930	16790	10830	17560	10580
	99	12280	9410	13580	10030	14500	10650	14950	10620	15400	10620	16300	10520	17050	10280
	102	11990	9190	13260	9790	14160	10400	14600	10370	15040	10360	15910	10270	16640	10030
018	50	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	54	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	57	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	61	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	64	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	68	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	70	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
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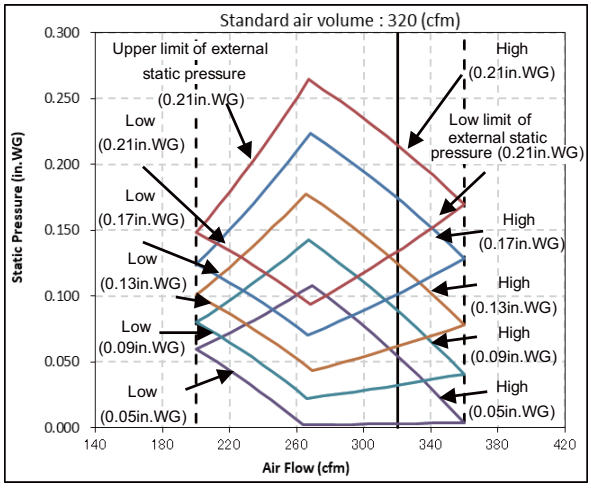
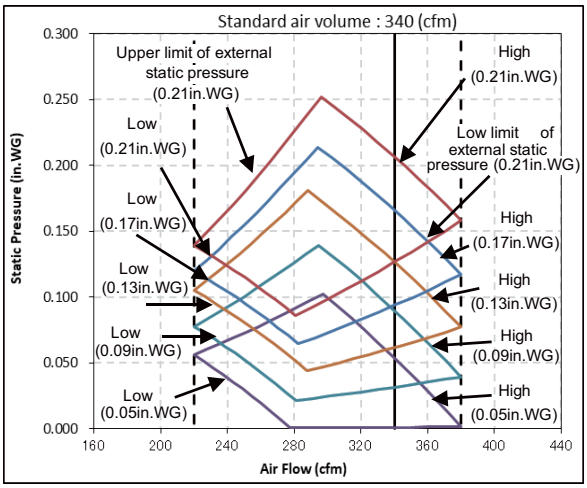
	91	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	95	14780	11170	16340	11900	17460	12640	18000	12600	18540	12600	19620	12480	20520	12190
	99	14350	10850	15870	11550	16950	12270	17480	12230	18000	12230	19050	12120	19920	11840
	102	14010	10590	15490	11280	16550	11980	17060	11940	17580	11940	18600	11830	19450	11560

8. Fan characteristics (No filter)

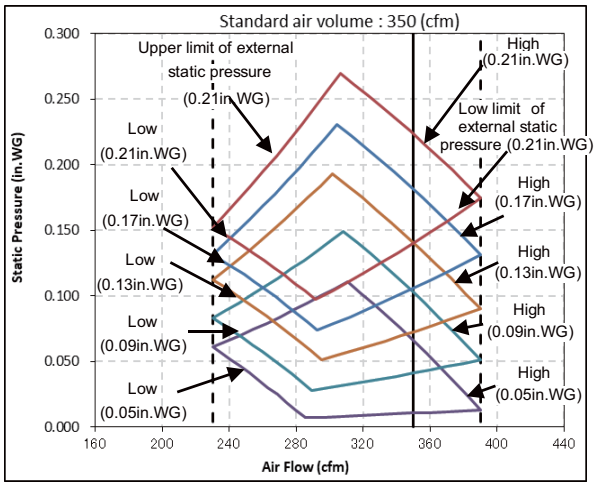
MMD-UP0071SPH-UL



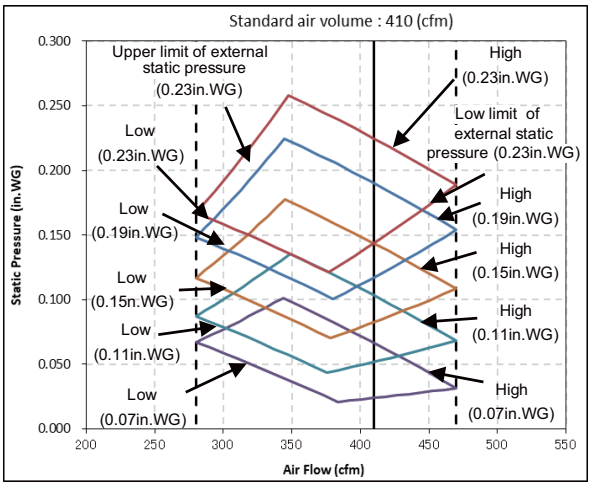
MMD-UP0091SPH-UL



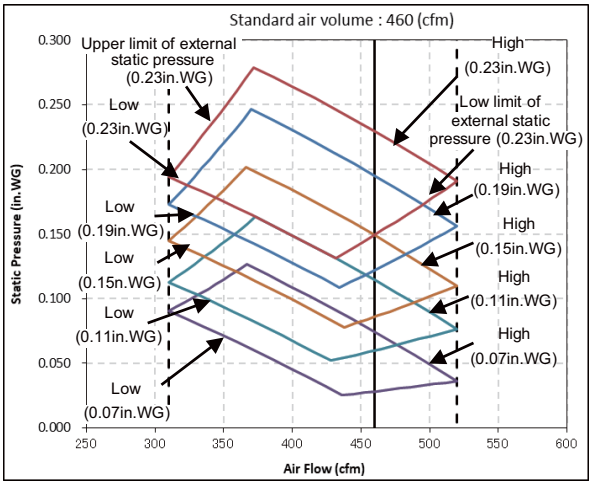
MMD-UP0121SPH-UL



MMD-UP0151SPH-UL

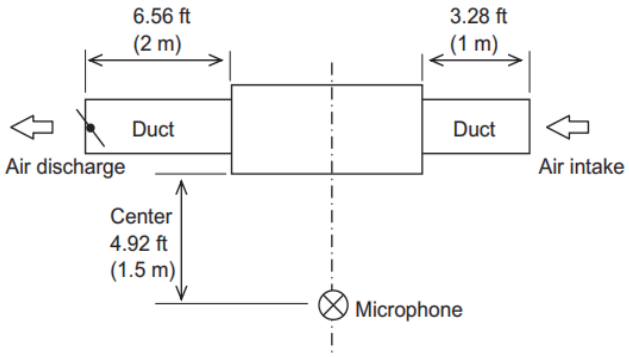


MMD-UP0181SPH-UL



9. Sound data

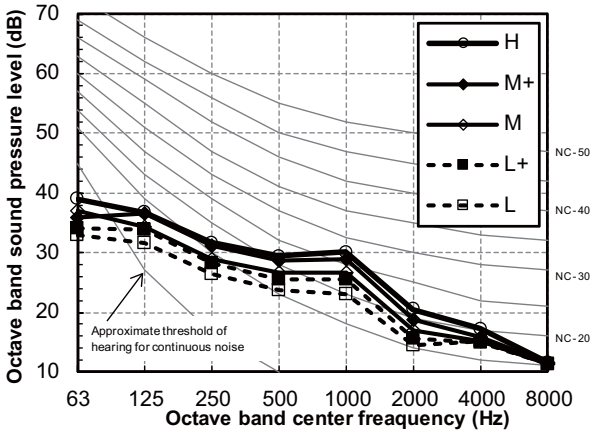
MMD-UP0071SPH-UL



[Measuring location] Back air intake

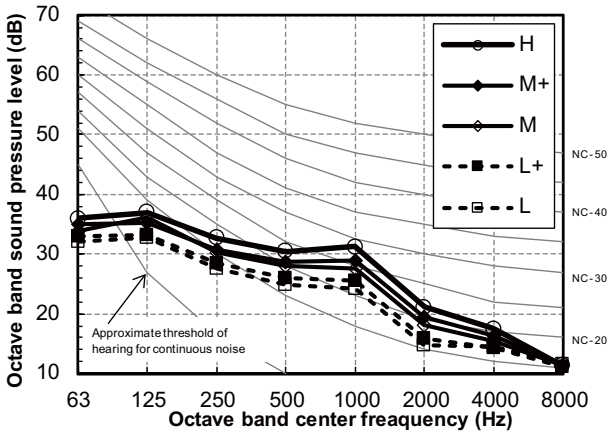
0.05 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	33	32	30	29	27



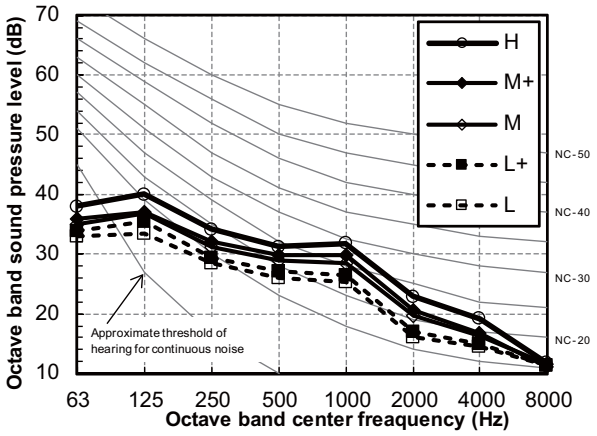
0.09 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	34	32	31	29	28



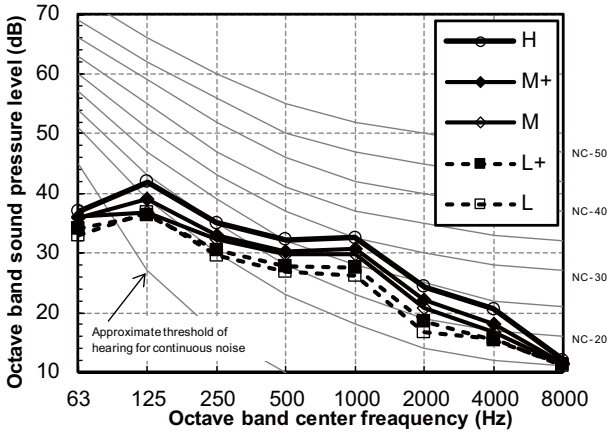
0.13 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	35	33	32	30	29



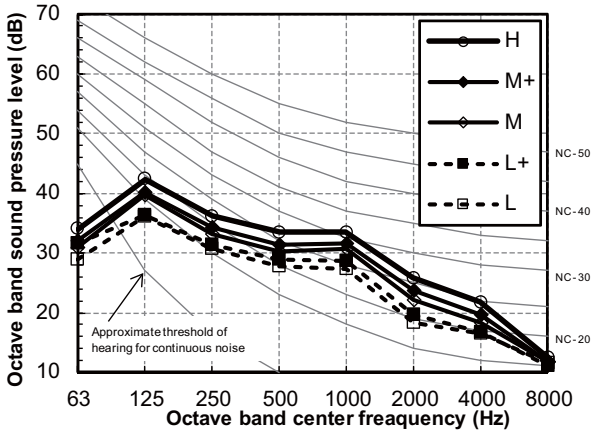
0.17 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	36	34	33	31	30



0.21 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	35	34	32	31



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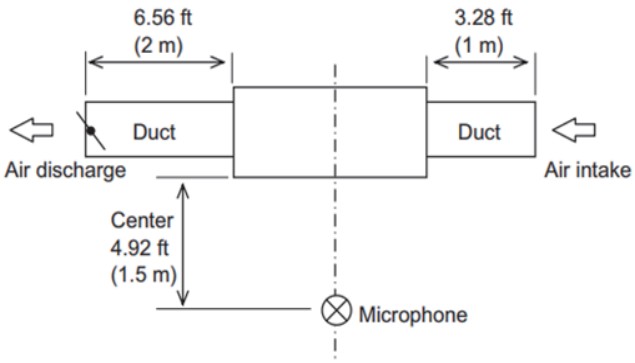
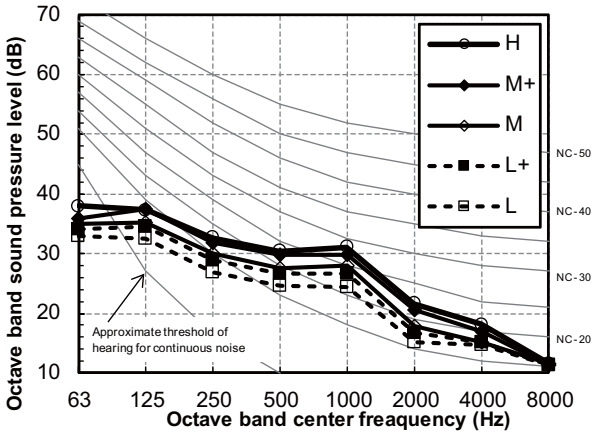


[Measuring location] Back air intake

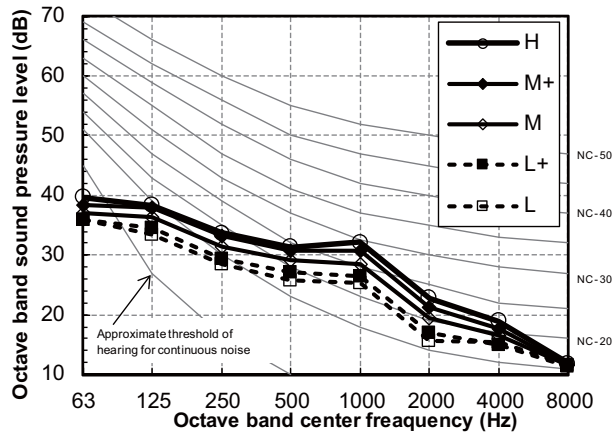
0.05 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	34	33	31	30	28



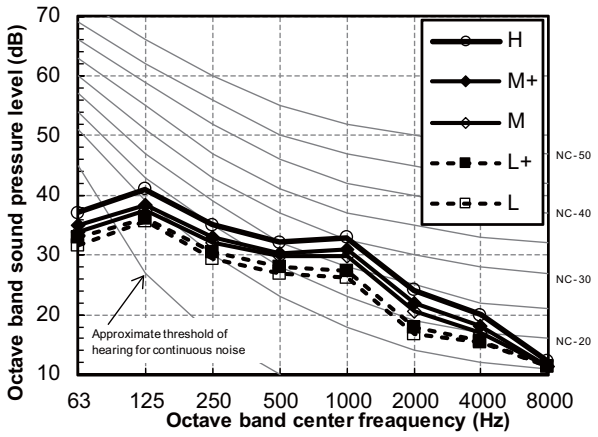
0.09 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	34	32	31	29	28



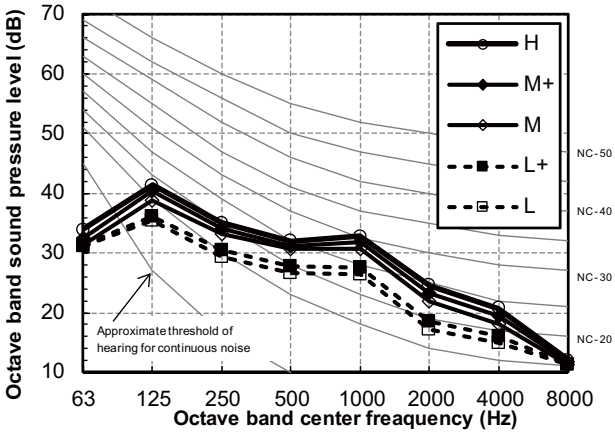
0.13 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	35	33	32	30	29



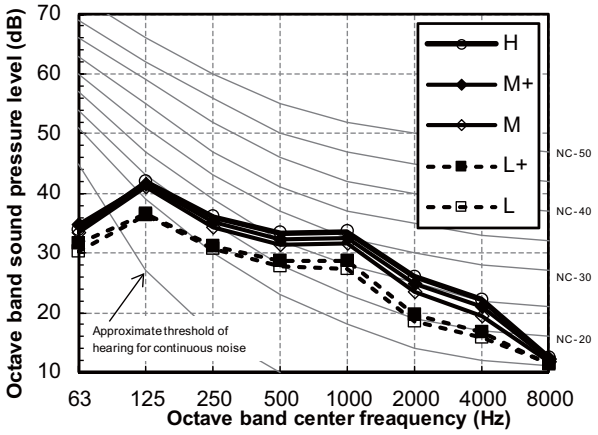
0.17 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	36	34	33	31	30



0.21 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	35	34	32	31



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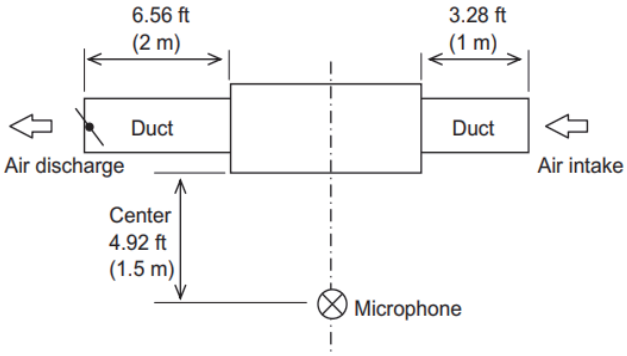
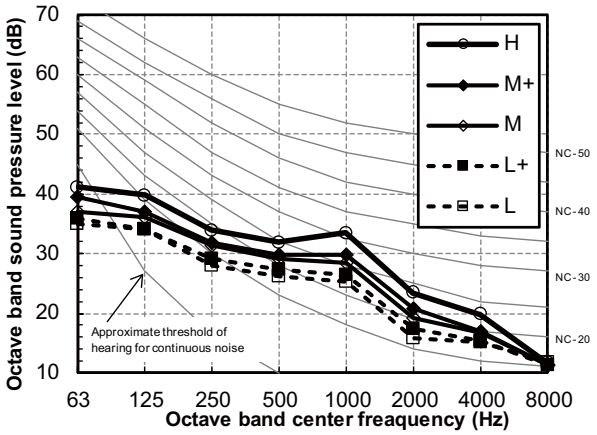


[Measuring location] Back air intake

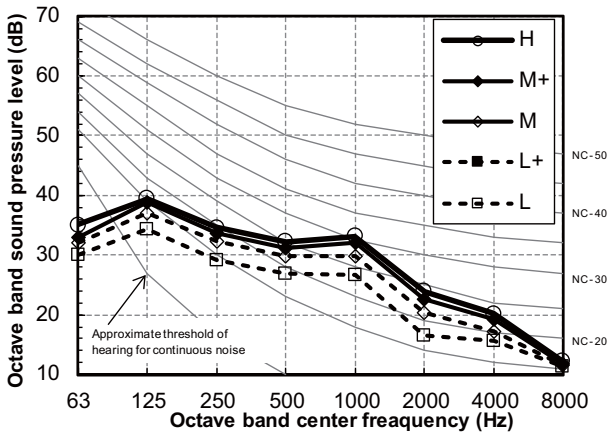
0.05 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	36	33	32	30	29



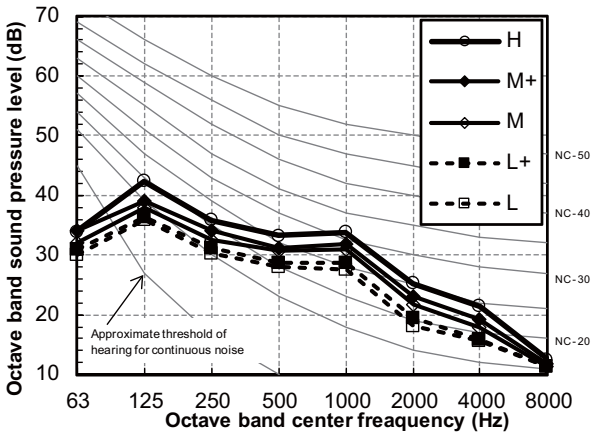
0.09 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	36	35	33	31	30



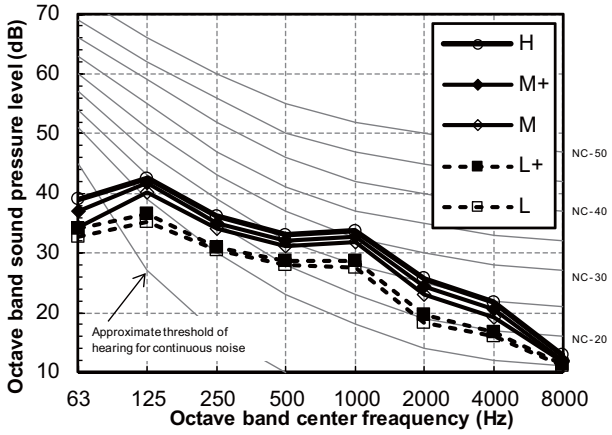
0.13 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	35	34	32	31



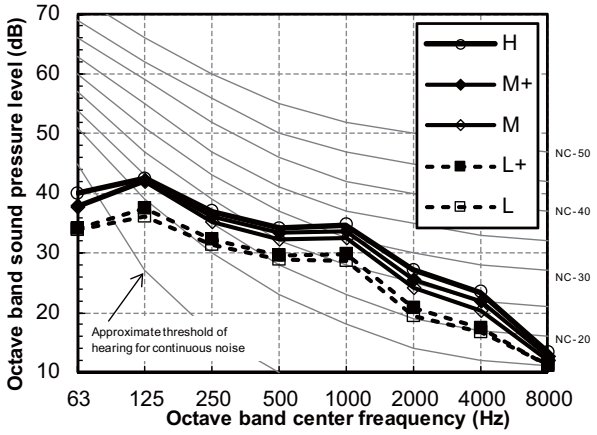
0.17 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	36	35	32	31



0.21 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	38	35	34	32	31



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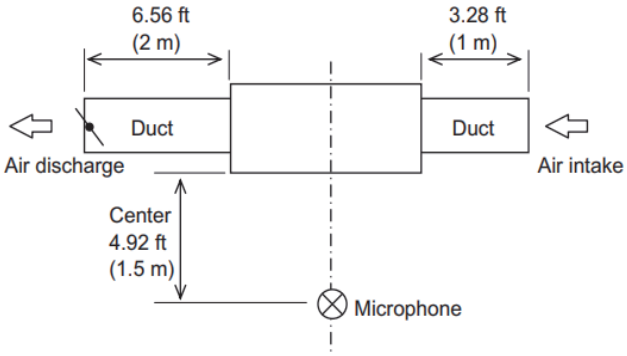
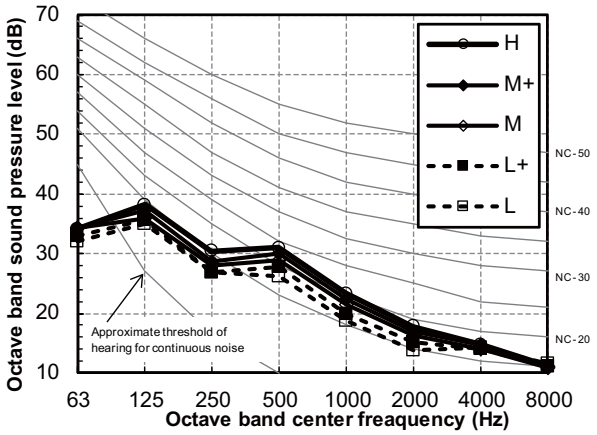


[Measuring location] Back air intake

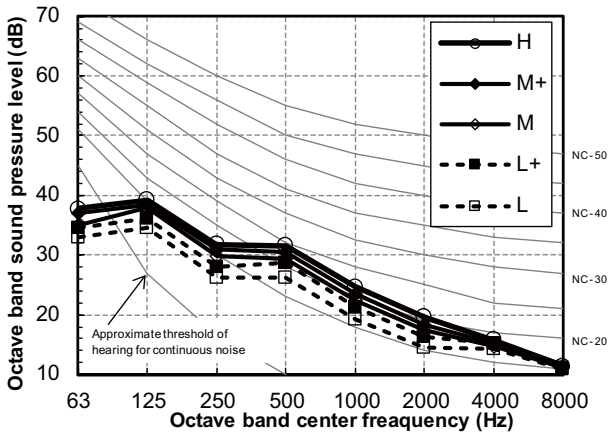
0.07 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	31	30	29	28	27



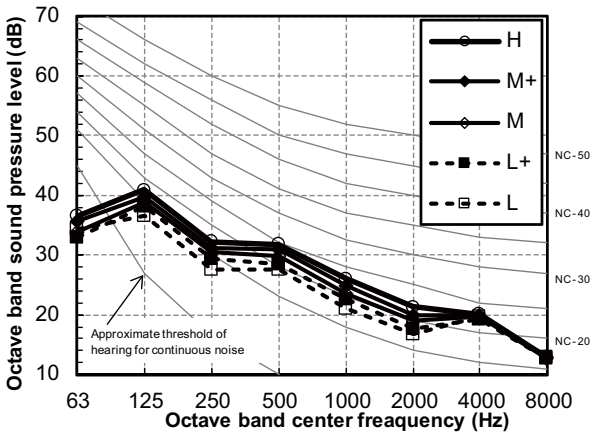
0.11 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	32	31	30	29	27



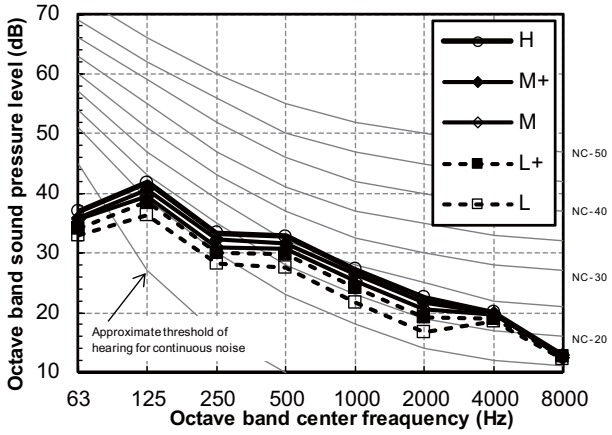
0.15 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	33	32	31	30	29



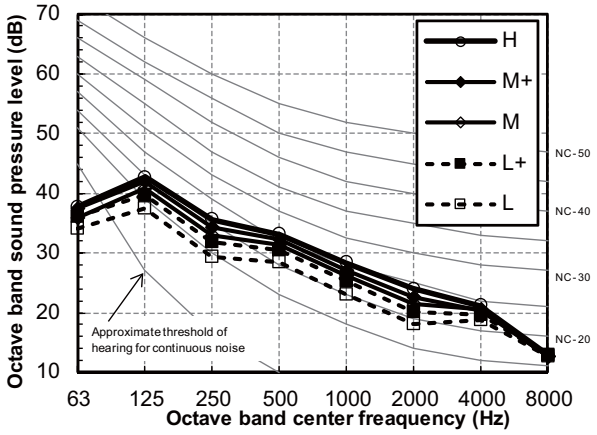
0.19 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	34	33	32	31	29



0.23 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	35	34	33	32	30



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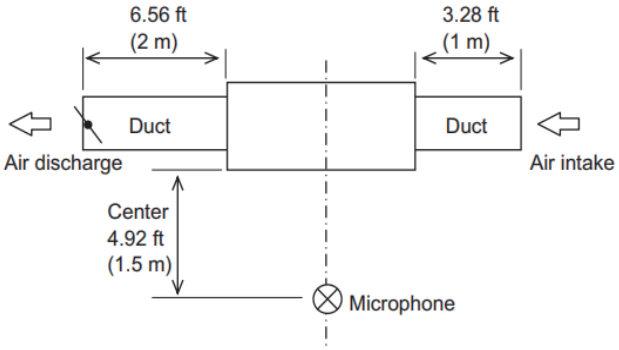
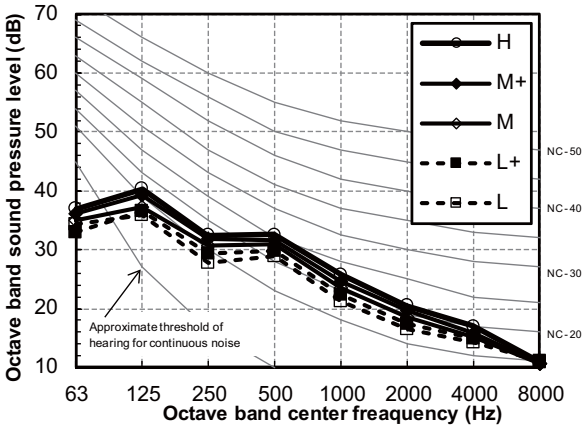


[Measuring location] Back air intake

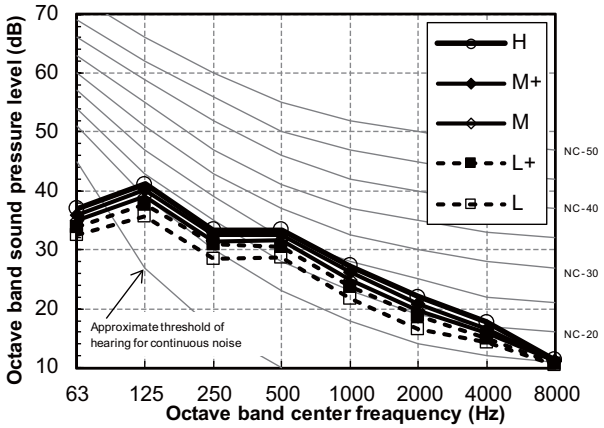
0.07 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	33	32	31	30	29



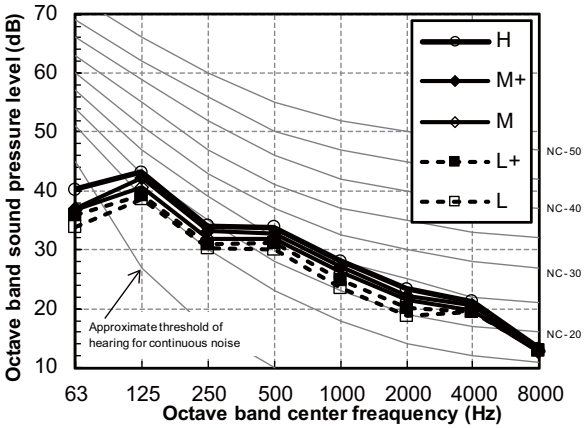
0.11 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	34	33	32	31	29



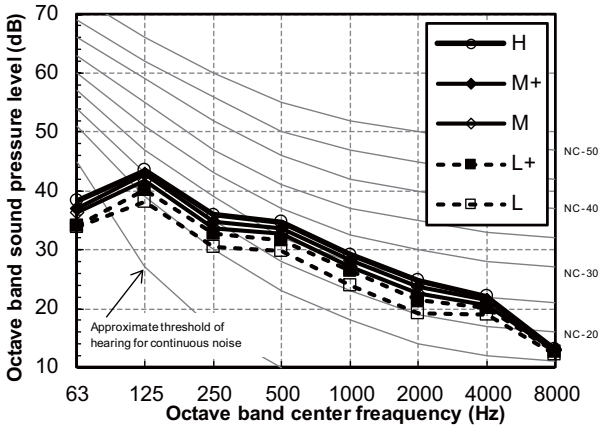
0.15 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	35	34	33	32	31



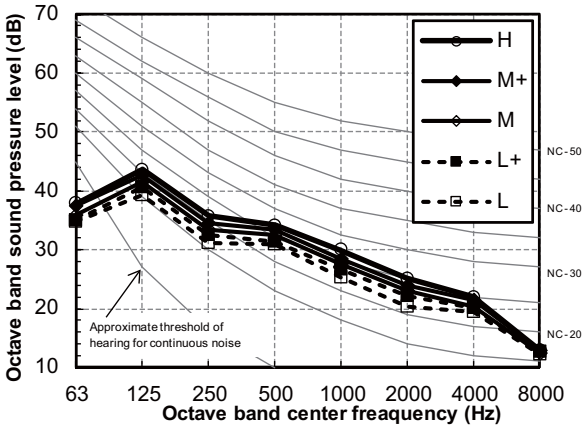
0.19 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	36	35	34	33	31



0.23 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	36	35	34	33	32



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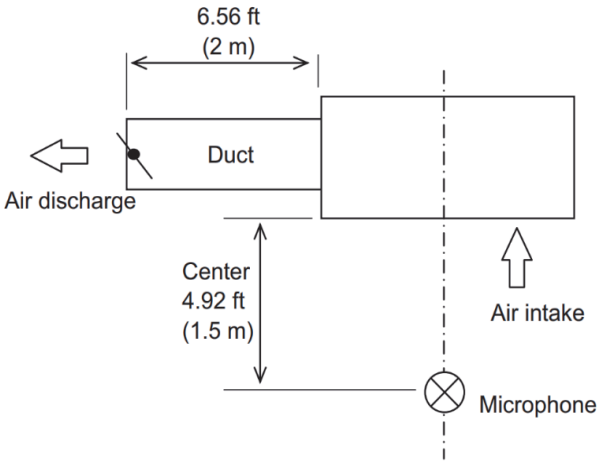
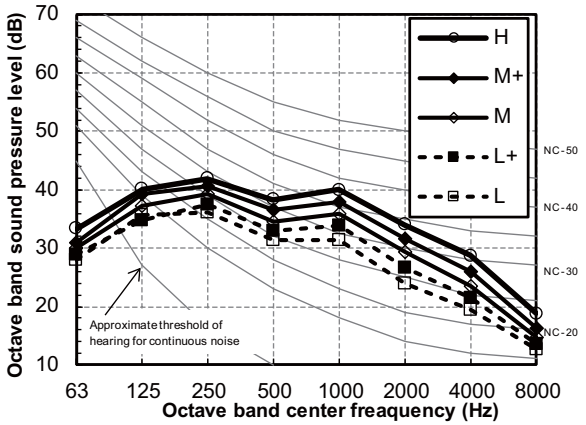


[Measuring location] Under air intake

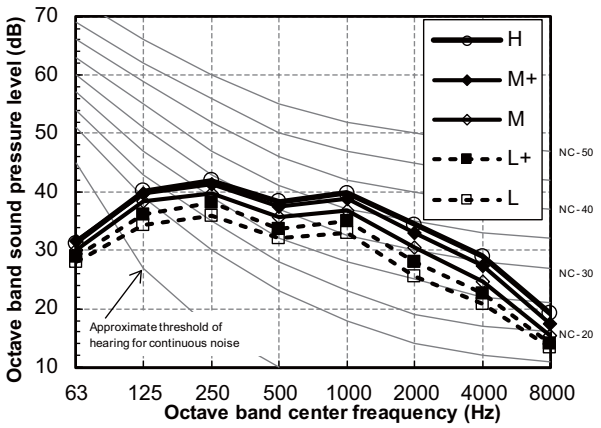
0.05 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	43	41	39	37	35



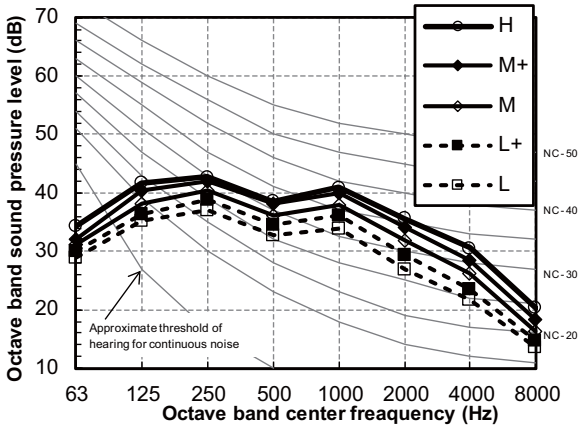
0.09 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	43	42	40	38	36



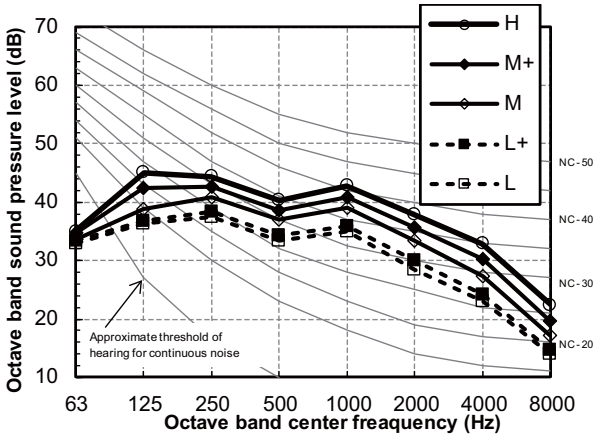
0.13 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	44	43	41	39	37



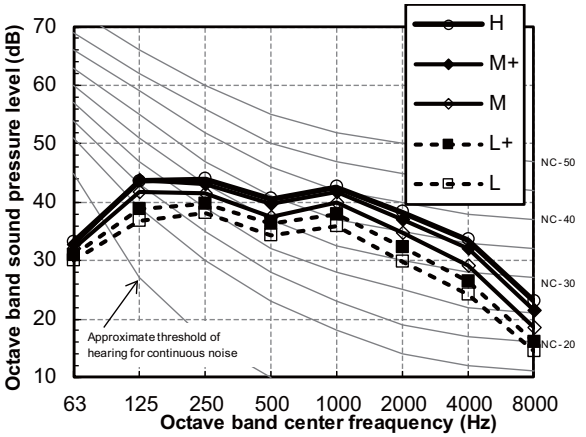
0.17 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	46	44	42	39	38



0.21 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	46	45	43	41	39



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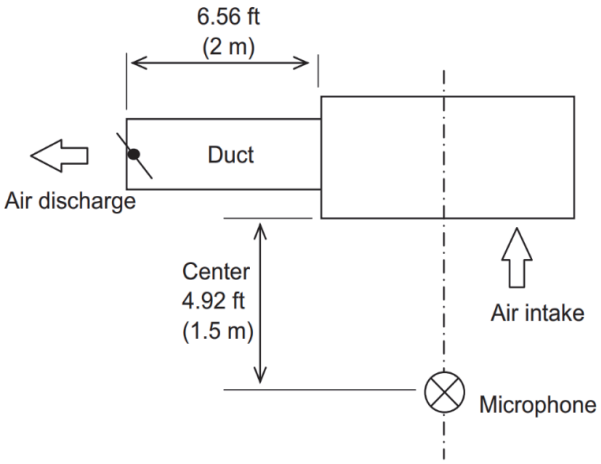
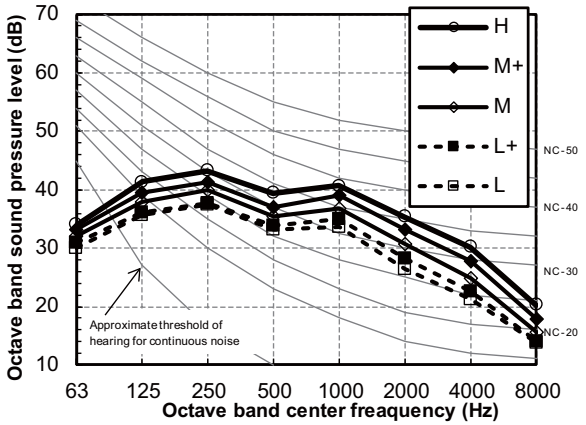


[Measuring location] Under air intake

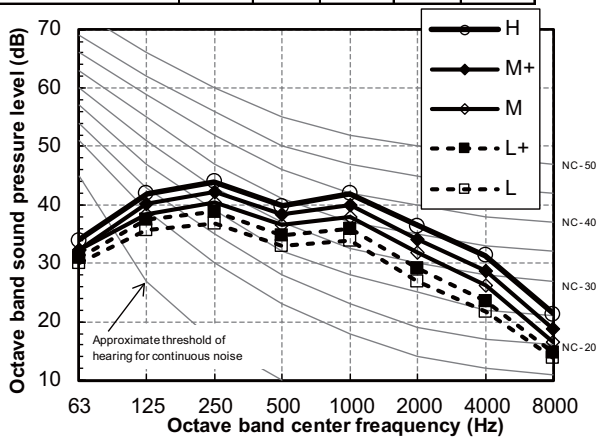
0.05 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	44	42	40	38	37



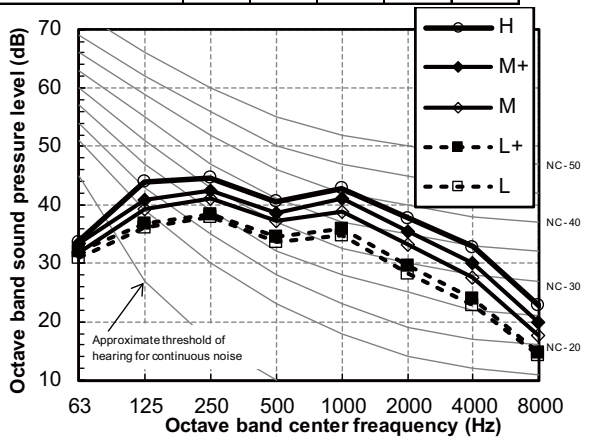
0.09 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	45	43	41	39	37



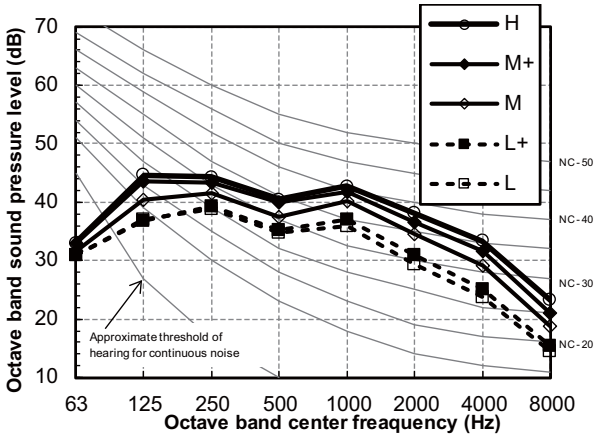
0.13 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	46	44	42	39	38



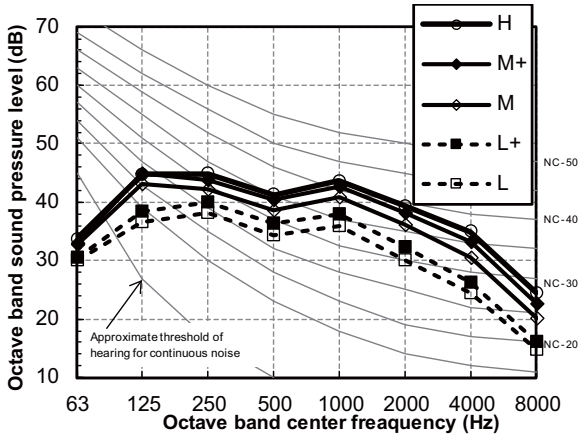
0.17 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	46	45	43	40	39



0.21 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	47	46	44	41	39



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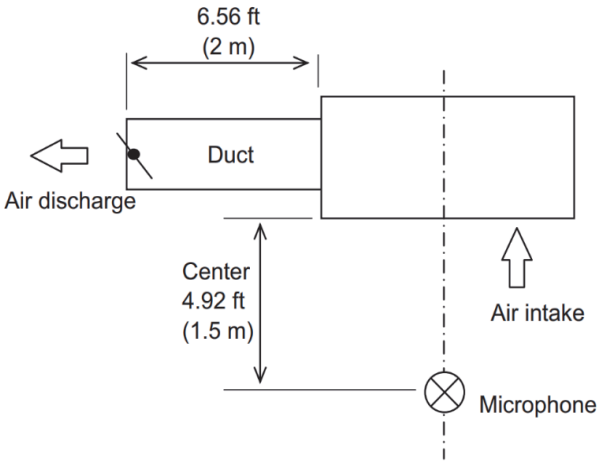
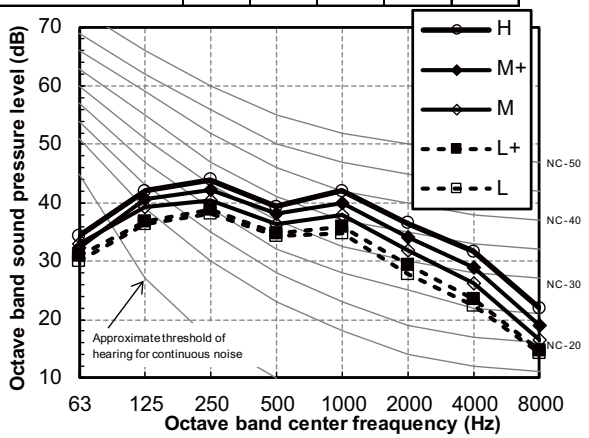


[Measuring location] Under air intake

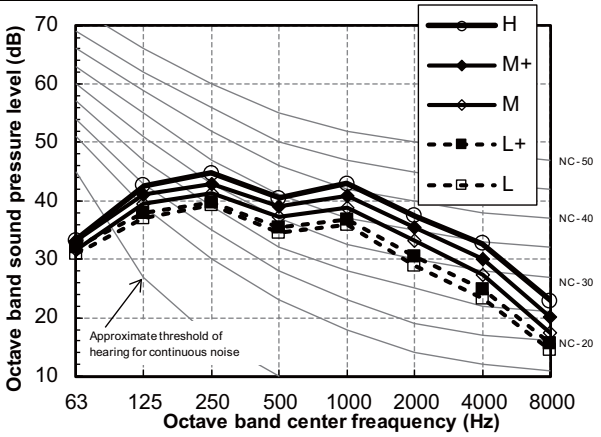
0.05 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	45	43	41	39	38



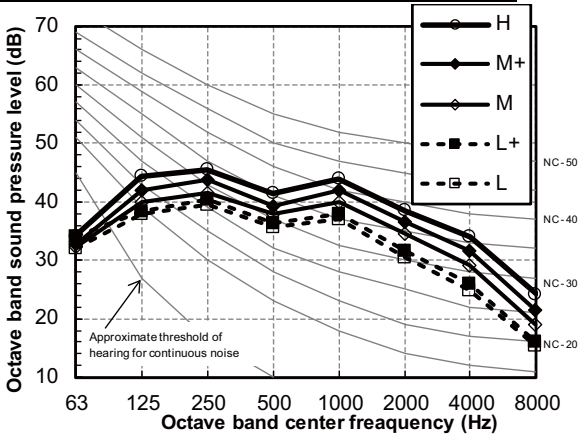
0.09 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	46	44	42	40	39



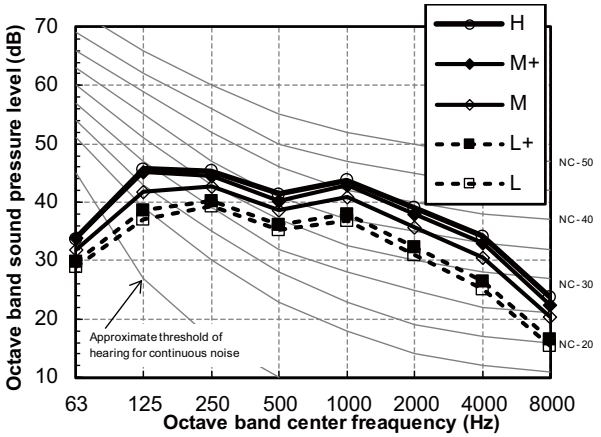
0.13 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	47	45	43	41	40



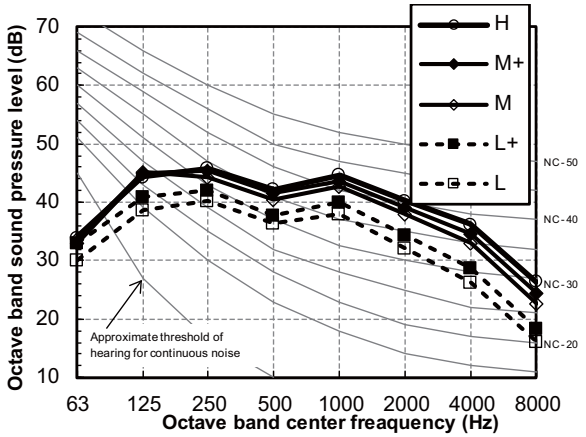
0.17 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	47	46	44	41	40



0.21 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	48	47	46	43	41



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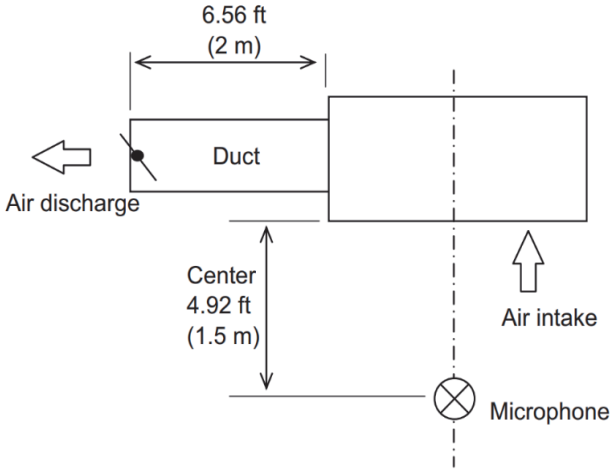
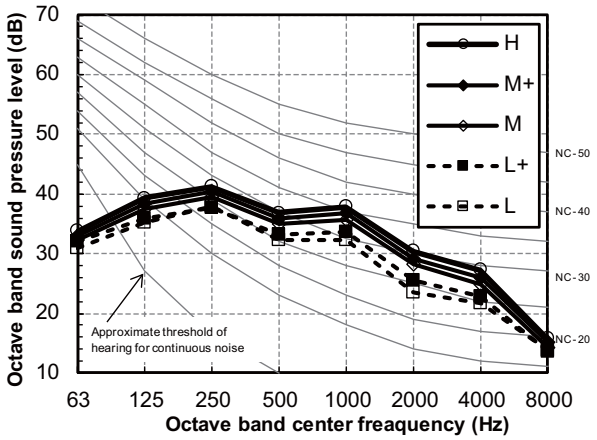


[Measuring location] Under air intake

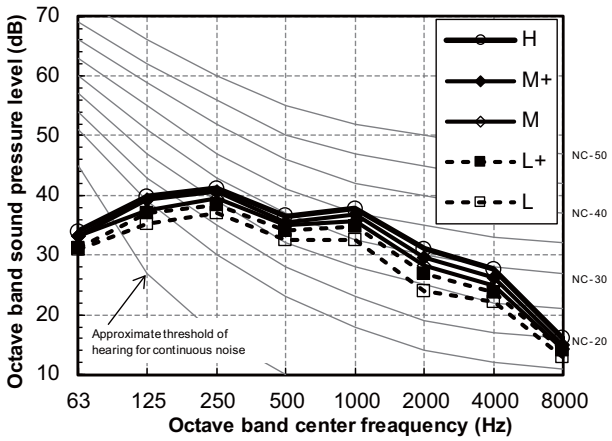
0.07 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	41	40	39	37	36



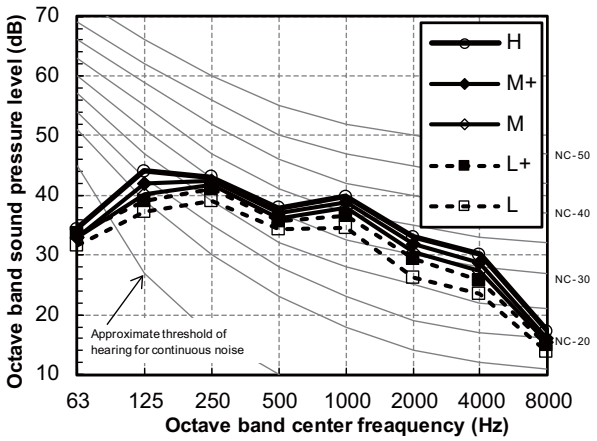
0.11 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	41	40	39	38	36



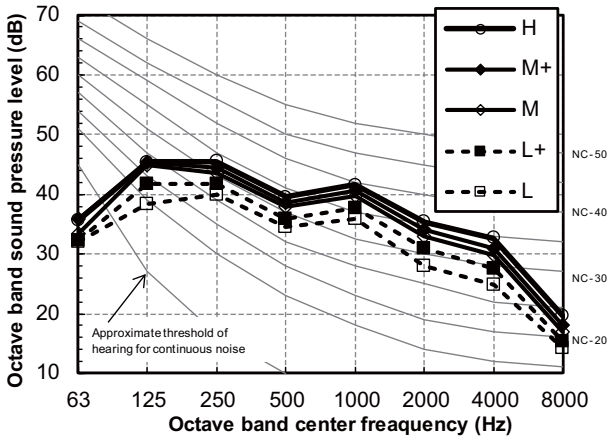
0.15 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	43	42	41	40	38



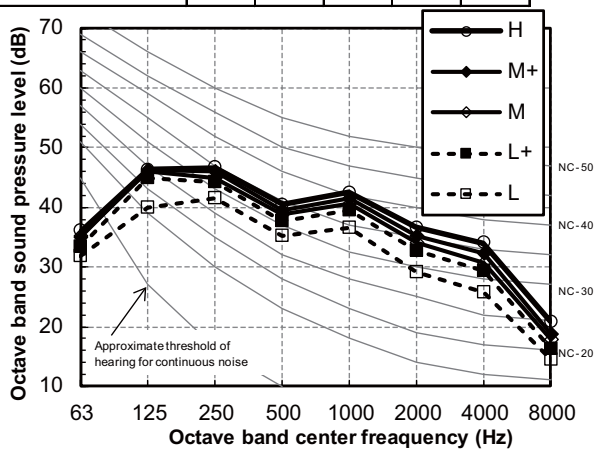
0.19 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	45	44	43	41	39

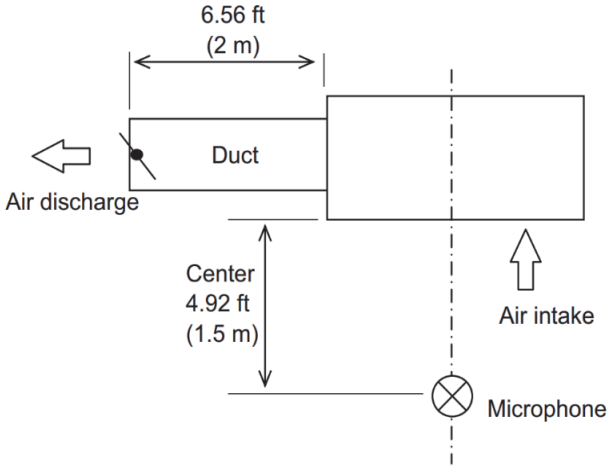


0.23 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	46	45	44	43	40



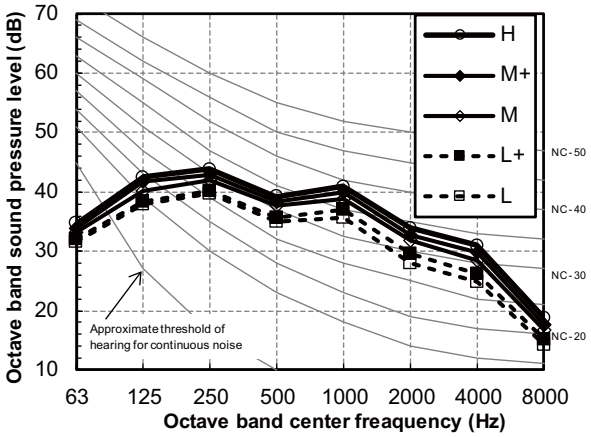
MMD-UP0181SPH-UL



[Measuring location] Under air intake

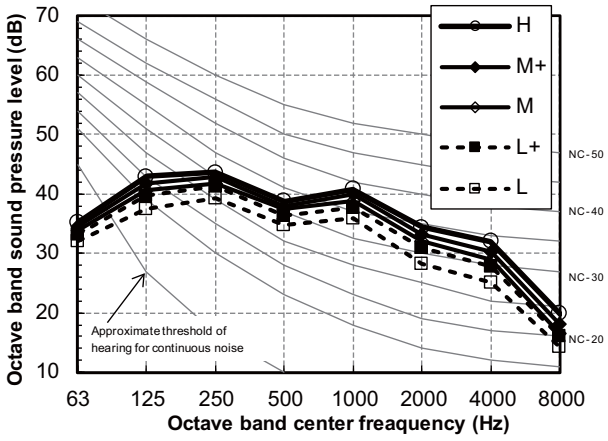
0.07 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	44	43	42	40	39



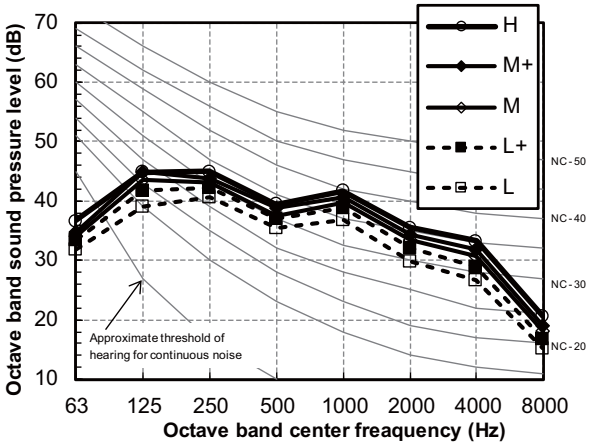
0.11 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	44	43	42	41	39



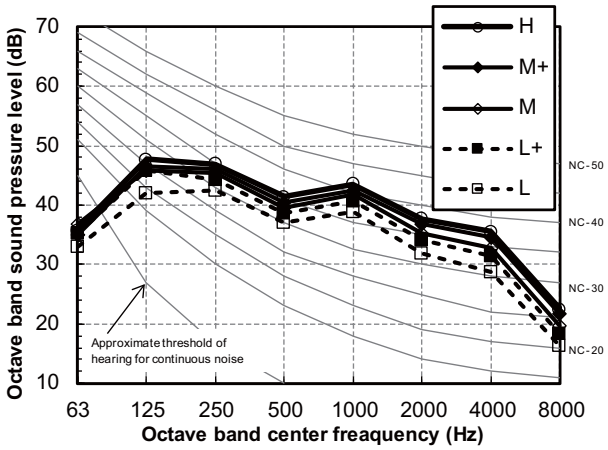
0.15 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	45	44	43	42	40



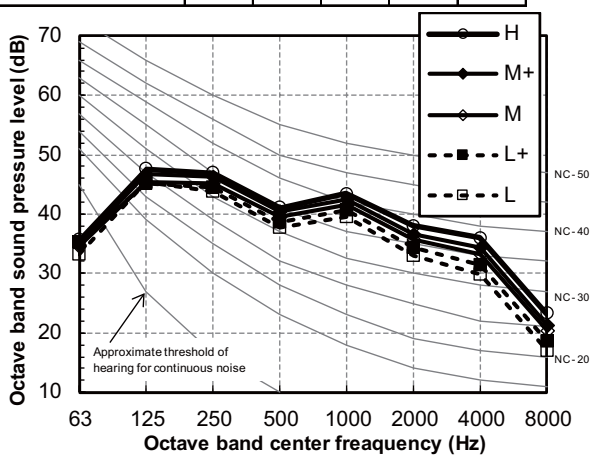
0.19 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	47	46	45	44	42



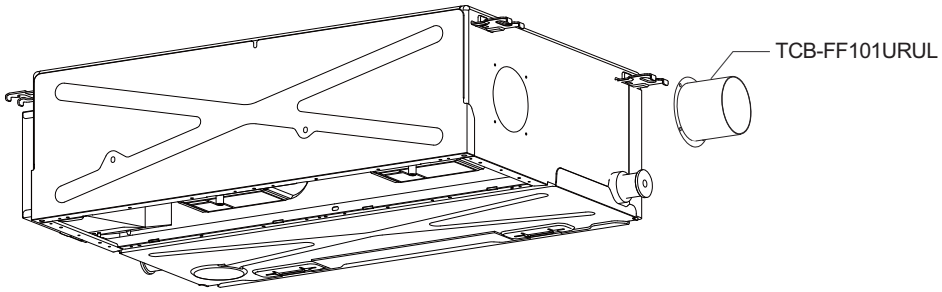
0.23 in.WG

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	47	46	45	44	43



10. Accessories

Optional part for Slim duct type



Parts Name	Model name	Applied Model	Notes
Auxiliary fresh air Flange	TCB-FF101URUL	MMD-UP___1SPH-UL	For easy fresh air intake by using the knockout hole of indoor unit. (dia=3.9"(100 mm))

11. Reference

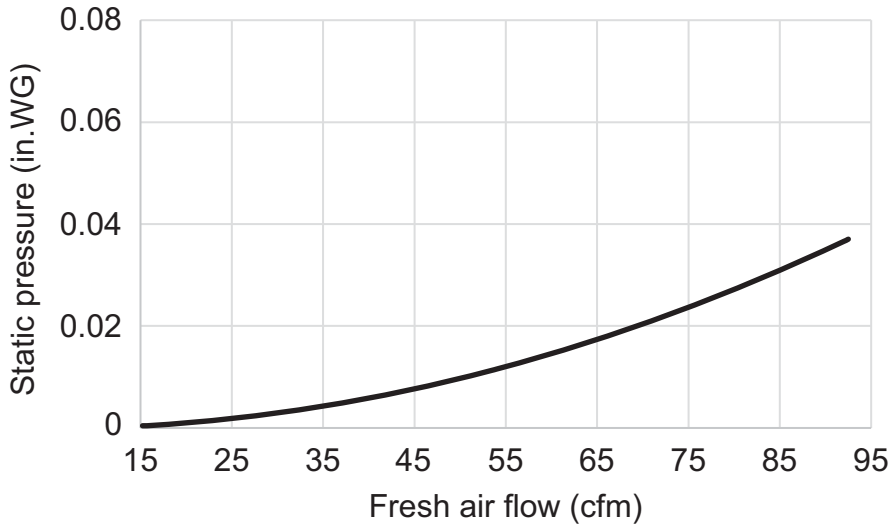
Fresh Air Intake

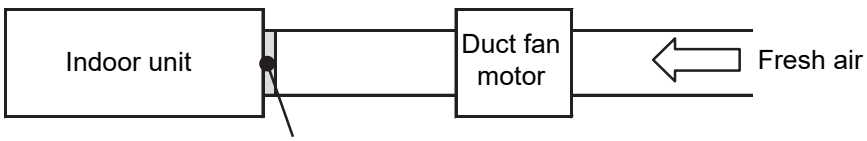
Caution
The fresh air shall be conditioned by heat reclaim ventilator or similar.
Ensure the fresh air flow rate is determined so that mixed suction air and fresh air maintain the operating temperature.

Recommended conditioned air temperature is 53.6°F to 86°F.
However, make a fresh air flow rate within 20% of standard.

Model name	Standard air flow (cfm)
MMD-UP0071SPH-UL	320
MMD-UP0091SPH-UL	340
MMD-UP0121SPH-UL	350
MMD-UP0151SPH-UL	410
MMD-UP0181SPH-UL	460

Install an air filter within the fresh air duct. (Fresh air does not pass through the filter of Indoor unit.)
Insulate the fresh air duct.
Electrically connect the fan of the Heat exchanger unit and the Indoor unit to a single isolator.





Flange option: TCB-FF101URUL

Super Slim Ducted Engineering Data Book

Model name:

MMD-UP___1SPH-UL

November, 2022

TOSHIBA

Carrier