

High Wall Type HAORI Series

MMK-UP0051DHPL-E
MMK-UP0071DHPL-E
MMK-UP0091DHPL-E
MMK-UP0121DHPL-E
MMK-UP0151DHPL-E
MMK-UP0181DHPL-E



MMK-UP0051DHPL-TR
MMK-UP0071DHPL-TR
MMK-UP0091DHPL-TR
MMK-UP0121DHPL-TR
MMK-UP0151DHPL-TR
MMK-UP0181DHPL-TR



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1. Specifications

Model	Indoor unit		MMK-	UP0051DHPL-E / TR	UP0071DHPL-E / TR	UP0091DHPL-E / TR
Cooling capacity			(kW)	1.70	2.20	2.80
Heating capacity			(kW)	1.90	2.50	3.20
Power supply				1 ph 50 Hz 230V (220-240V) / 1 ph 60 Hz 220V (Separate power supply for indoor units is required)		
Electrical characteristic	Cooling	Running current (*1)	(A)	0.17	0.18	0.19
		Power consumption	(W)	15	18	19
		Starting current	(A)	0.22	0.23	0.24
		Power factor	(%)	38	43	43
	Heating	Running current (*1)	(A)	0.17	0.18	0.19
		Power consumption	(W)	15	18	19
		Starting current	(A)	0.22	0.23	0.24
		Power factor	(%)	38	43	43
	Maximum current		(A)	0.22	0.27	0.28
Outer dimension	Main unit	Height	(mm)	300		
		Width	(mm)	987		
		Depth	(mm)	210		
Total weight			(kg)	11		
Heat exchanger				Finned tube		
Air flow volume		H/M/L	(m ³ / h)	455 / 370 / 300	480 / 385 / 300	510 / 395 / 300
Sound pressure level		H/M+/M/L+/L	(dB·A)	33 / 31 / 29 / 27 / 25	35 / 33 / 30 / 28 / 25	37 / 34 / 31 / 28 / 25
Sound power level		H	(dB·A)	48	50	51
Connecting pipe		Gas side	(mm)	Ø 9.52		
		Liquid side	(mm)	Ø 6.35		
		Drain hose	(mm)	Ø 16.30		
Fan				Cross flow fan		
Fan motor			(W)	42	42	42
Filter				Standard filter attached (long life filter)		
Controller (Packed with unit)				WH-UB01UE		
Operating range	Cooling	(°C)		Indoor : 21 °C to 32 °C DB		
	Heating	(°C)		Indoor : 15 °C to 28 °C DB		

(*1) 230 V

This specification refer to JISC9612, rated conditions.

Cooling capacity : Inside air temperature 27°C (Db) / 19°C (Wb), outside air temperature 35°C (Db) / 24°C (Wb).

Heating capacity : Inside air temperature 20°C (Db) / 15°C (Wb), outside air temperature 7°C (Db) / 6°C (Wb).

The specification may be subject to change without notice for purpose of improvement.

Model	Indoor unit		MMK-	UP0121DHPL-E / TR	UP0151DHPL-E / TR	UP0181DHPL-E / TR
Cooling capacity			(kW)	3.60	4.50	5.60
Heating capacity			(kW)	4.00	5.00	6.30
Power supply				1 ph 50 Hz 230V (220-240V) / 1 ph 60 Hz 220V (Separate power supply for indoor units is required)		
Electrical characteristic	Cooling	Running current (*1)	(A)	0.21	0.22	0.28
		Power consumption	(W)	21	25	32
		Starting current	(A)	0.25	0.27	0.33
		Power factor	(%)	46	49	50
	Heating	Running current (*1)	(A)	0.21	0.22	0.28
		Power consumption	(W)	21	25	32
		Starting current	(A)	0.25	0.27	0.33
		Power factor	(%)	46	49	50
	Maximum current		(A)	0.30	0.32	0.41
Outer dimension	Main unit	Height	(mm)	300		
		Width	(mm)	987		
		Depth	(mm)	210		
Total weight			(kg)	11		
Heat exchanger				Finned tube		
Air flow volume		H/M/L	(m ³ / h)	540 / 410 / 300	580 / 480 / 380	730 / 600 / 420
Sound pressure level		H/M+/M/L+/L	(dB·A)	37 / 35 / 32 / 28 / 25	40 / 38 / 35 / 33 / 30	45 / 42 / 39 / 36 / 32
Sound power level		H	(dB·A)	52	55	60
Connecting pipe		Gas side	(mm)	Ø 9.52		
		Liquid side	(mm)	Ø 6.35		
		Drain hose	(mm)	Ø 16.30		
Fan				Cross flow fan		
Fan motor			(W)	42	42	42
Filter				Standard filter attached (long life filter)		
Controller (Packed with unit)				WH-UB01UE		
Operating range	Cooling	(°C)		Indoor : 21 °C to 32 °C DB		
	Heating	(°C)		Indoor : 15 °C to 28 °C DB		

(*1) 230 V

This specification refer to JISC9612, rated conditions.

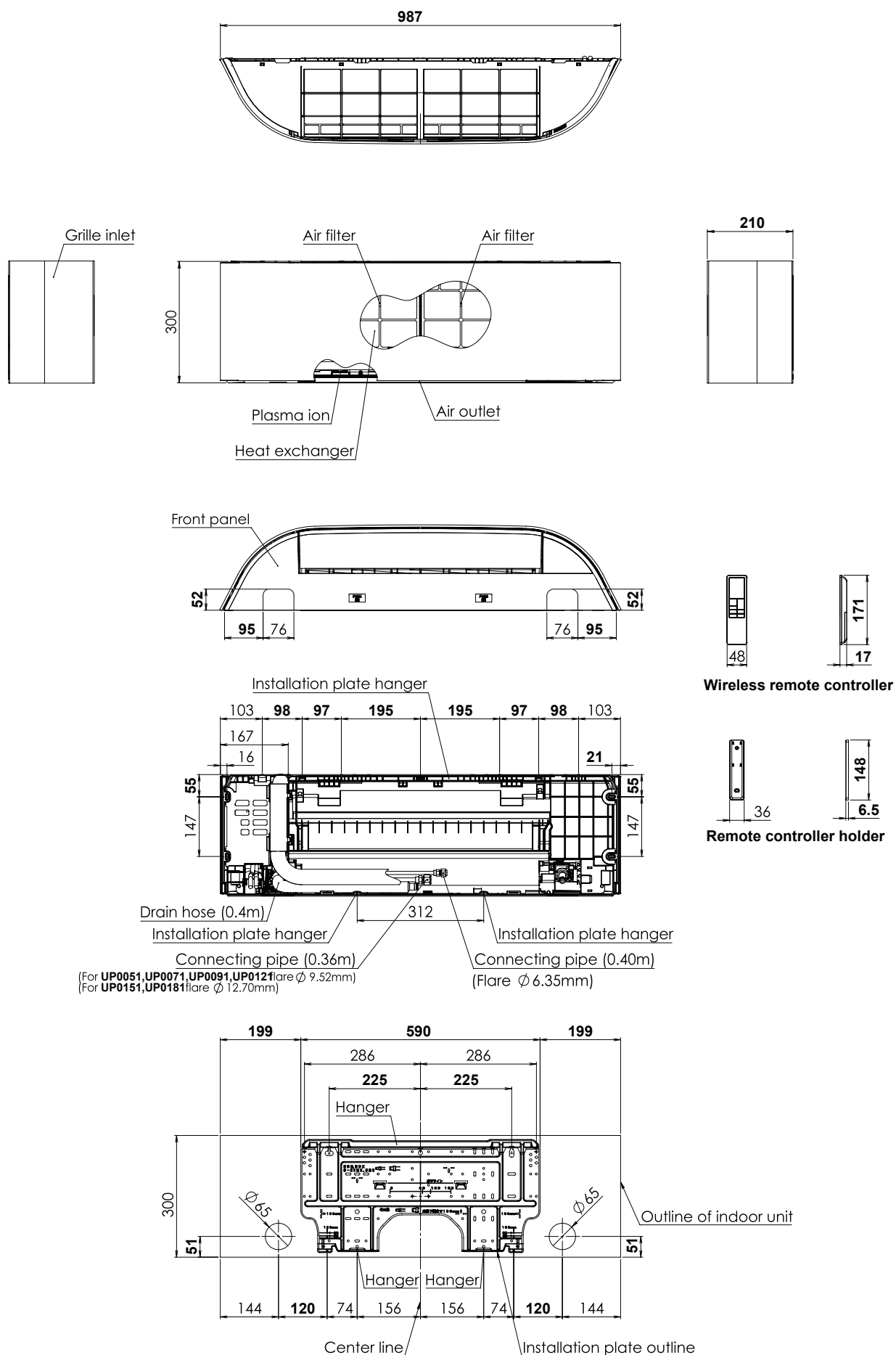
Cooling capacity : Inside air temperature 27°C (Db) / 19°C (Wb), outside air temperature 35°C (Db) / 24°C (Wb).

Heating capacity : Inside air temperature 20°C (Db) / 15°C (Wb), outside air temperature 7°C (Db) / 6°C (Wb).

The specification may be subject to change without notice for purpose of improvement.

2. Dimension

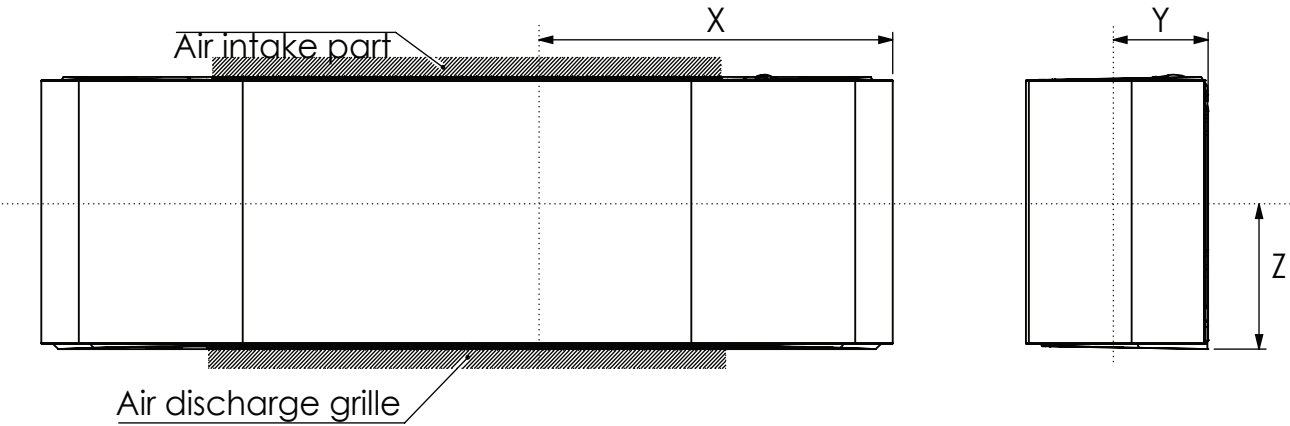
MMK-UP0__1DHPL-E,TR (*05 / 07 / 09 / 12 / 15 / 18)



3. Center of gravity

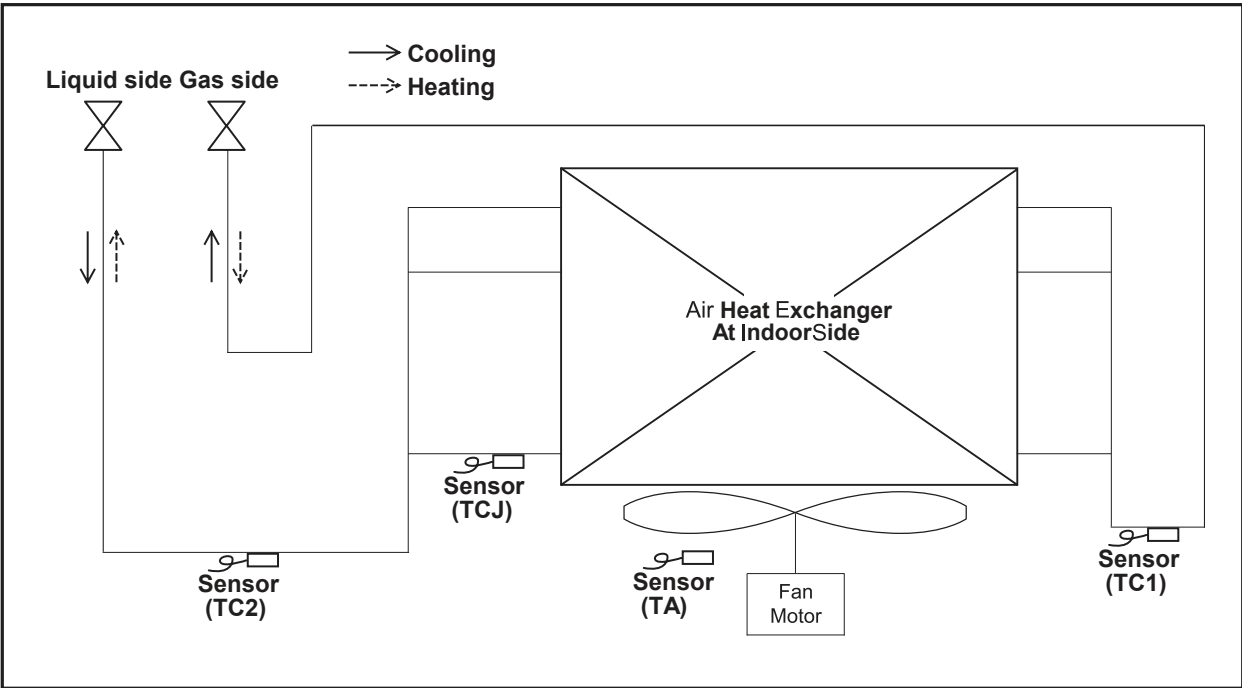
MMK-UP0*__1DHPL-E/TR (*05 / 07 / 09 / 12 / 15 /18)

Model name	X (mm)	Y (mm)	Z (mm)	Total weight (kg)
MMK-UP0051DHPL-E/TR	410	110	160	11
MMK-UP0071DHPL-E/TR				
MMK-UP0091DHPL-E/TR				
MMK-UP0121DHPL-E/TR				
MMK-UP0151DHPL-E/TR				
MMK-UP0181DHPL-E/TR				



4. Piping diagram

MMK-UP0__1DHPL-E,TR (*05 / 07 / 09 / 12 / 15 / 18)

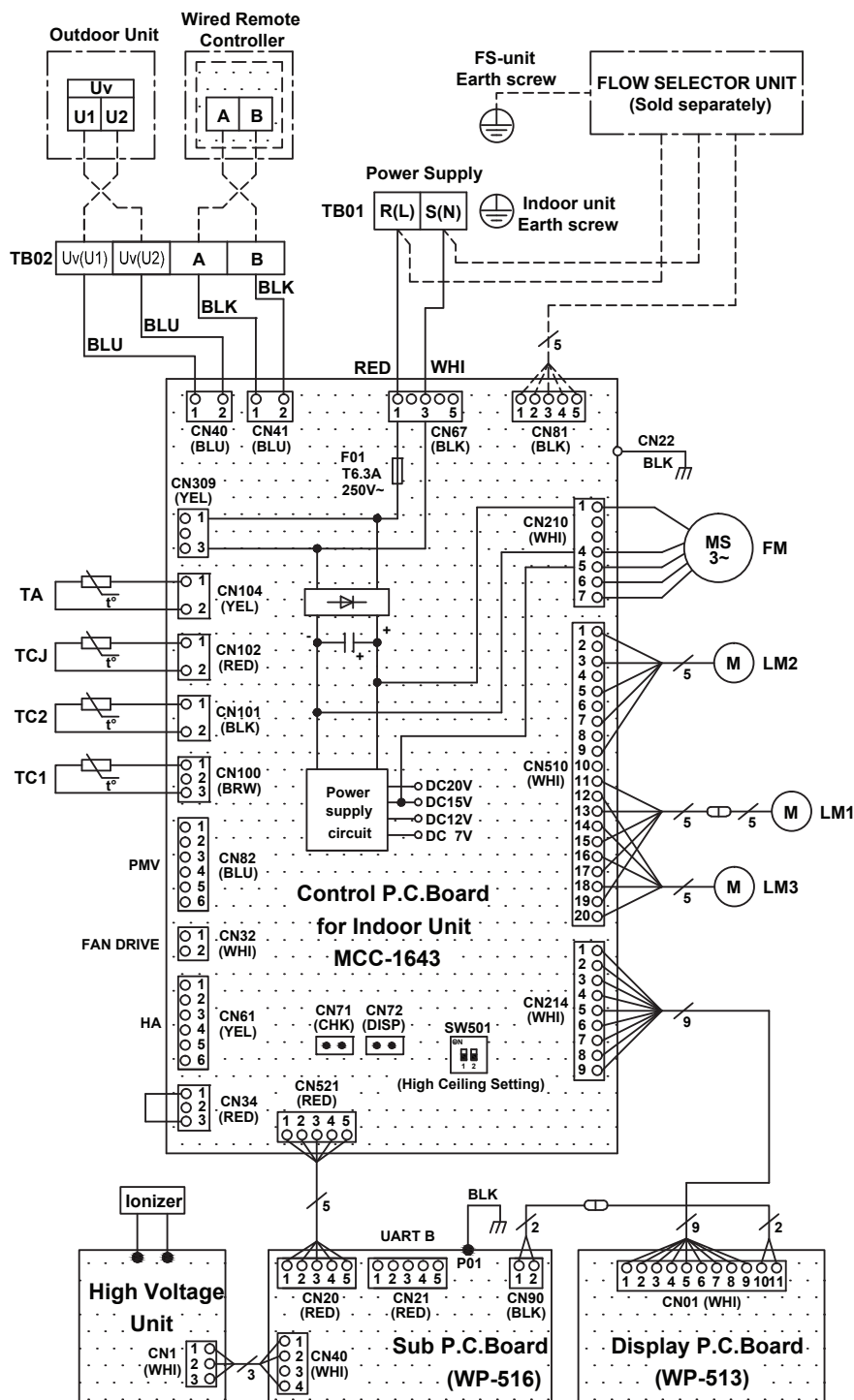


Explanation of functional parts in indoor unit

Functional part name		Functional outline
Temp. Sensor	TA	(Connector CN104 (2P): Yellow) 1) Detects indoor suction temperature
	TC1	(Connector CN100 (3P) Brown) 1) Controls PMV superheat in cooling operation
	TC2	(Connector CN101 (2P): Black) 1) Controls PMV subcool in heating operation
	TCJ	(Connector CN102 (2P): Red) 1) Controls PMV superheat in cooling operation

5. Wiring diagram

MMK-UP0_1DHPL-E,TR (*05 / 07 / 09 / 12 / 15 / 18)



Symbol	Parts Name
CN***	Connector
F01	Fuse
FM	Fan Motor
LM**	Louver Motor
TA	Indoor temp sensor
TB01, 02	Terminal Block
TC1, TC2, TCJ	Temp sensor

COLOR INDICATION

RED: RED
WHI: WHITE
YEL: YELLOW
BLU: BLUE
BLK: BLACK
BRW: BROWN

6. Electrical current characteristics

1) 50Hz

Type	Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
		(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
High wall (HAORI)	MMK-UP0051DHPL-E / -TR	230-1-50	198	264	0.042	0.25	0.31	15
	MMK-UP0071DHPL-E / -TR	230-1-50	198	264	0.042	0.27	0.34	15
	MMK-UP0091DHPL-E / -TR	230-1-50	198	264	0.042	0.28	0.35	15
	MMK-UP0121DHPL-E / -TR	230-1-50	198	264	0.042	0.30	0.38	15
	MMK-UP0151DHPL-E / -TR	230-1-50	198	264	0.042	0.32	0.40	15
	MMK-UP0181DHPL-E / -TR	230-1-50	198	264	0.042	0.41	0.51	15

MCA : Minimum Circuit Amps

FLA : Full Load Amps

MOCP : Maximum Overcurrent Protection (Amps)

kW : Fan Motor Output (kW)

2) 60Hz

Type	Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
		(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
High wall (HAORI)	MMK-UP0051DHPL-E / -TR	220-1-60	198	253	0.042	0.25	0.31	15
	MMK-UP0071DHPL-E / -TR	220-1-60	198	253	0.042	0.27	0.34	15
	MMK-UP0091DHPL-E / -TR	220-1-60	198	253	0.042	0.28	0.35	15
	MMK-UP0121DHPL-E / -TR	220-1-60	198	253	0.042	0.30	0.38	15
	MMK-UP0151DHPL-E / -TR	220-1-60	198	253	0.042	0.32	0.40	15
	MMK-UP0181DHPL-E / -TR	220-1-60	198	253	0.042	0.41	0.51	15

MCA : Minimum Circuit Amps

FLA : Full Load Amps

MOCP : Maximum Overcurrent Protection (Amps)

kW : Fan Motor Output (kW)

7. Sensible Capacity Table

High wall Haori (MMK-UP***1DHPL -E / -TR)

Unit Size	Outdoor air temp. °C DB	Indoor air temperature													
		20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
		14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
005	10.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	12.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	14.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	16.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	18.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	20.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	21.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	23.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	25.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	27.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	29.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	31.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	33.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	35.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	37.0	1.4	1.2	1.5	1.3	1.6	1.3	1.7	1.4	1.7	1.4	1.8	1.4	1.9	1.3
	39.0	1.3	1.1	1.4	1.2	1.5	1.2	1.6	1.3	1.6	1.3	1.7	1.3	1.8	1.2
	41.0	1.3	1.1	1.4	1.2	1.5	1.2	1.6	1.3	1.6	1.3	1.7	1.3	1.8	1.2
	43.0	1.3	1.1	1.3	1.2	1.4	1.2	1.5	1.3	1.5	1.3	1.6	1.3	1.7	1.2

Unit Size	Outdoor air temp. °C DB	Indoor air temperature													
		20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
		14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	10.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	12.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	14.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	16.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	18.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	20.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	21.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	23.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	25.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	27.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	29.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	31.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	33.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	35.0	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	37.0	1.9	1.7	1.9	1.7	2.0	1.8	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.7
	39.0	1.8	1.6	1.9	1.6	2.0	1.7	2.1	1.7	2.1	1.7	2.3	1.7	2.4	1.6
	41.0	1.8	1.6	1.8	1.6	1.9	1.7	2.0	1.7	2.0	1.7	2.2	1.7	2.3	1.6
	43.0	1.7	1.5	1.8	1.5	1.9	1.6	2.0	1.6	2.0	1.6	2.2	1.6	2.3	1.5

Unit Size	Outdoor air temp. °C DB	Indoor air temperature													
		20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
		14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
009	10.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	12.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	14.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	16.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	18.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	20.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	21.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	23.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	25.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	27.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	29.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	31.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	33.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	35.0	2.4	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.8	2.2	3	2.2	3.2	2.1
	37.0	2.3	1.9	2.4	2.1	2.6	2.2	2.7	2.1	2.7	2.1	2.9	2.1	3.1	2.1
	39.0	2.3	1.9	2.4	2.0	2.6	2.1	2.7	2.1	2.7	2.1	2.8	2.1	3.0	2.0
	41.0	2.2	1.9	2.3	2.0	2.5	2.1	2.6	2.0	2.6	2.0	2.8	2.0	3.0	2.0
	43.0	2.2	1.8	2.2	1.9	2.4	2.0	2.5	2.0	2.5	2.0	2.7	2.0	2.9	1.9

TC: Total Capacity [Btu/h]

SHC: Sensible Heat Capacity [Btu/h]

High wall Haori (MMK-UP***1DHPL -E / -TR)

Unit Size	Indoor air temperature														
	Outdoor	20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	air temp.	14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
012	10.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	12.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	14.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	16.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	18.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	20.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	21.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	23.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	25.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	27.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	29.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	31.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	33.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	35.0	3.1	2.5	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	37.0	3.0	2.4	3.1	2.4	3.3	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	39.0	2.9	2.4	3.0	2.4	3.2	2.5	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
	41.0	2.9	2.3	2.9	2.3	3.1	2.4	3.3	2.5	3.4	2.5	3.6	2.5	3.8	2.4
	43.0	2.8	2.3	2.9	2.3	3.1	2.4	3.3	2.4	3.4	2.4	3.5	2.4	3.7	2.4

Unit Size	Indoor air temperature														
	Outdoor	20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	air temp.	14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	12.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	14.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	16.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	18.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	20.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	21.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	23.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	25.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	27.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	29.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	31.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	33.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	35.0	3.8	2.9	4.0	3.0	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	37.0	3.7	2.8	3.9	2.9	4.2	3.0	4.4	3.1	4.5	3.1	4.8	3.1	5.0	3.0
	39.0	3.6	2.8	3.8	2.8	4.1	2.9	4.3	3.0	4.4	3.0	4.6	3.1	4.8	2.9
	41.0	3.5	2.7	3.7	2.8	4.0	2.9	4.2	3.0	4.3	3.0	4.5	3.0	4.7	2.9
	43.0	3.4	2.6	3.6	2.7	3.9	2.8	4.1	2.9	4.2	2.9	4.4	2.9	4.6	2.8

Unit Size	Indoor air temperature														
	Outdoor	20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	air temp.	14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
018	10.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	12.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	14.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	16.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	18.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	20.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	21.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	23.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	25.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	27.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	29.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	31.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	33.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	35.0	4.8	3.5	5.0	3.5	5.3	3.7	5.6	3.8	5.7	3.8	6.1	3.8	6.3	3.6
	37.0	4.7	3.4	4.9	3.4	5.2	3.6	5.5	3.7	5.6	3.7	5.9	3.7	6.1	3.5
	39.0	4.6	3.3	4.8	3.3	5.0	3.5	5.3	3.6	5.4	3.6	5.8	3.6	6.0	3.4
	41.0	4.5	3.2	4.6	3.2	4.9	3.4	5.2	3.5	5.3	3.5	5.6	3.5	5.8	3.3
	43.0	4.3	3.2	4.5	3.1	4.8	3.3	5.0	3.4	5.2	3.4	5.5	3.5	5.7	3.2

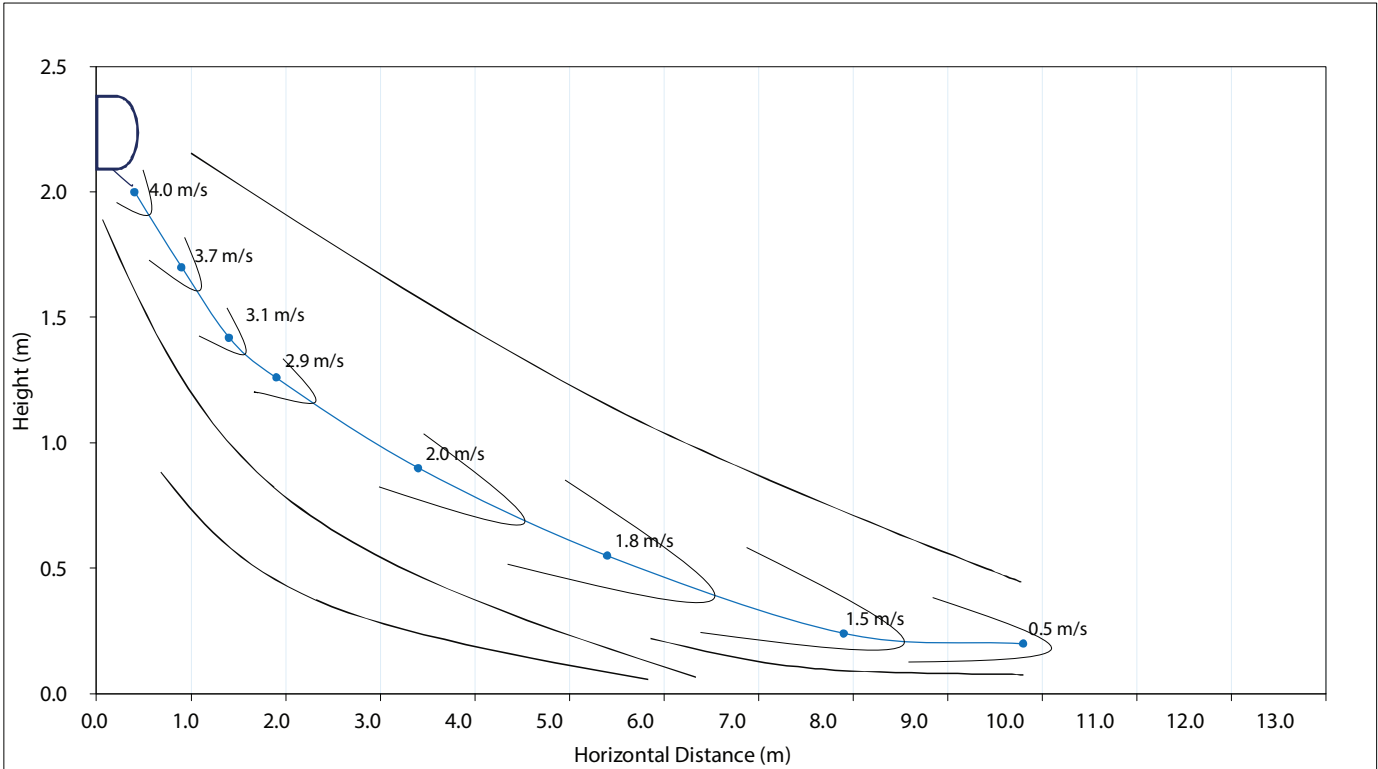
TC: Total Capacity [Btu/h]

SHC: Sensible Heat Capacity [Btu/h]

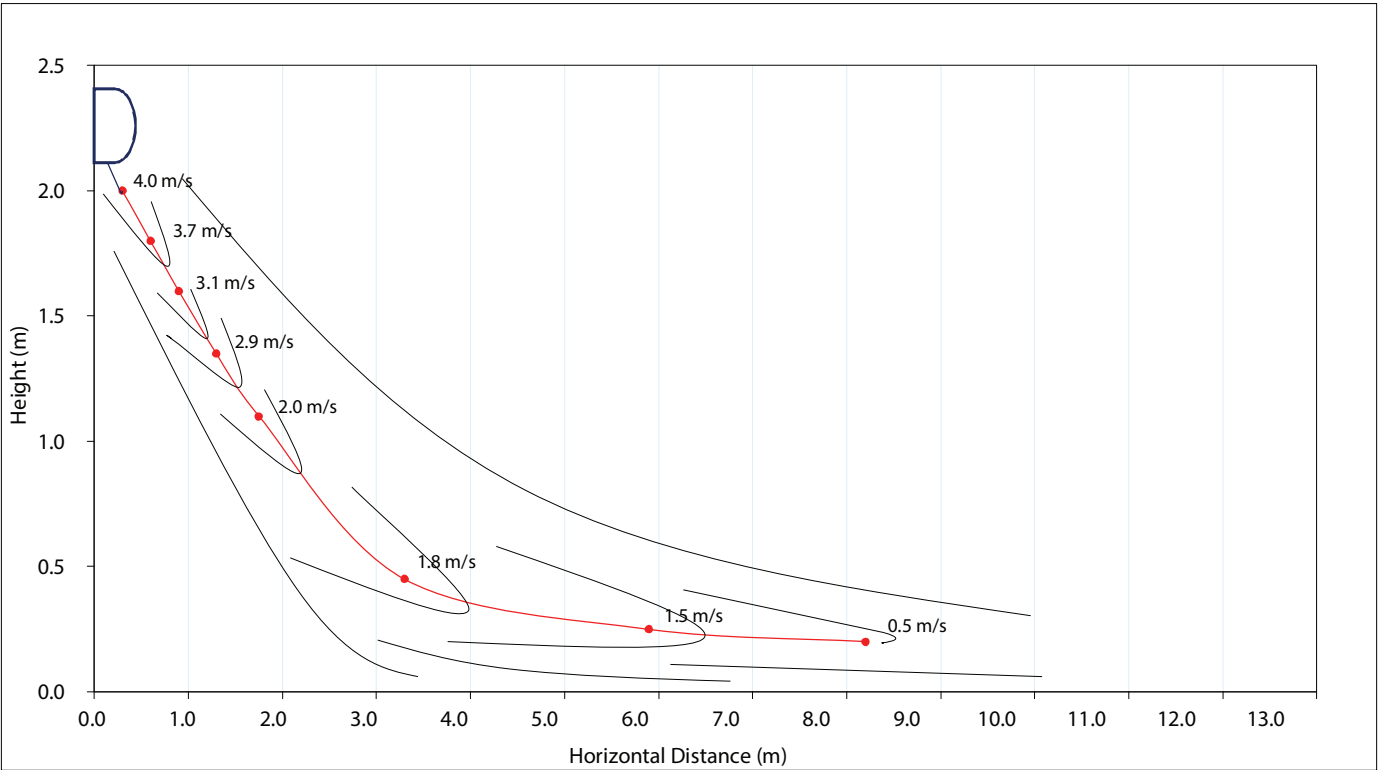
8. Air throw distance chart

MMK-UP0051DHPL-E/TR

Cooling

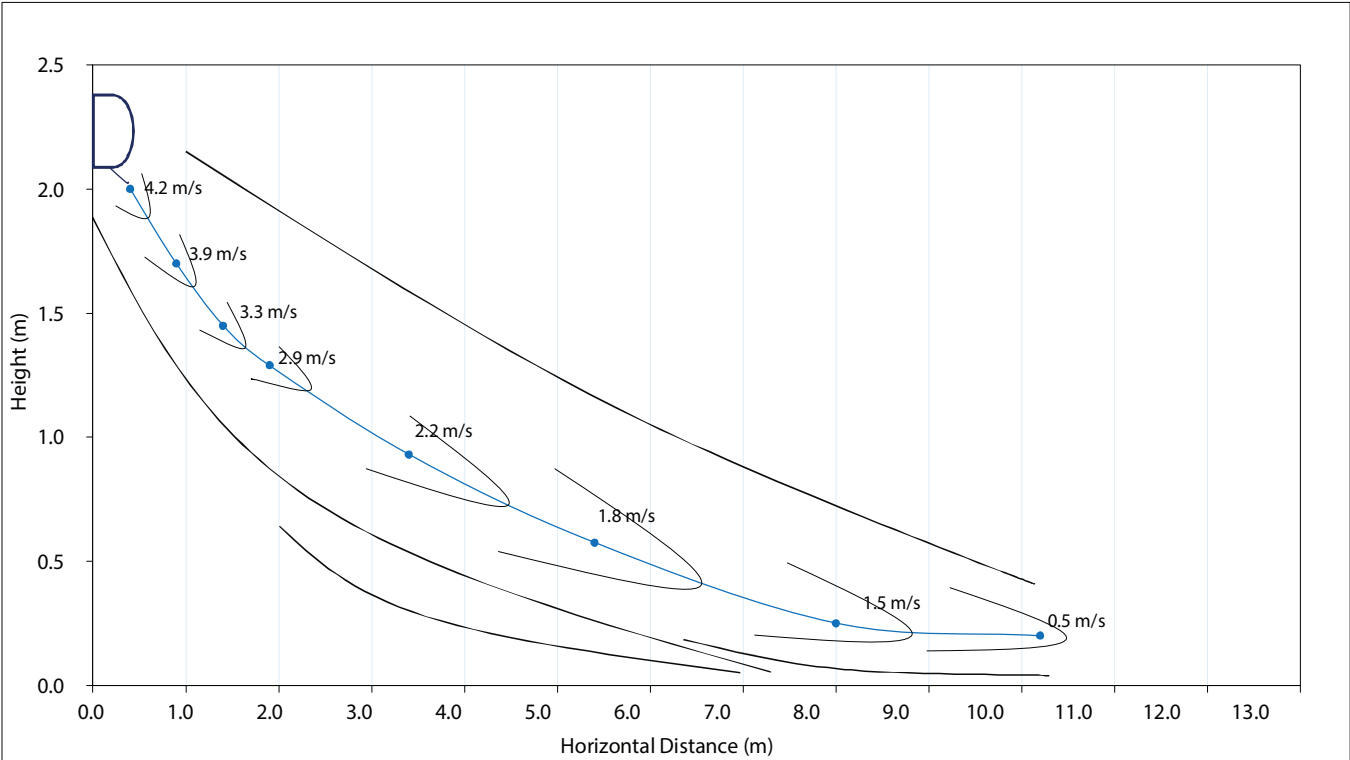


Heating

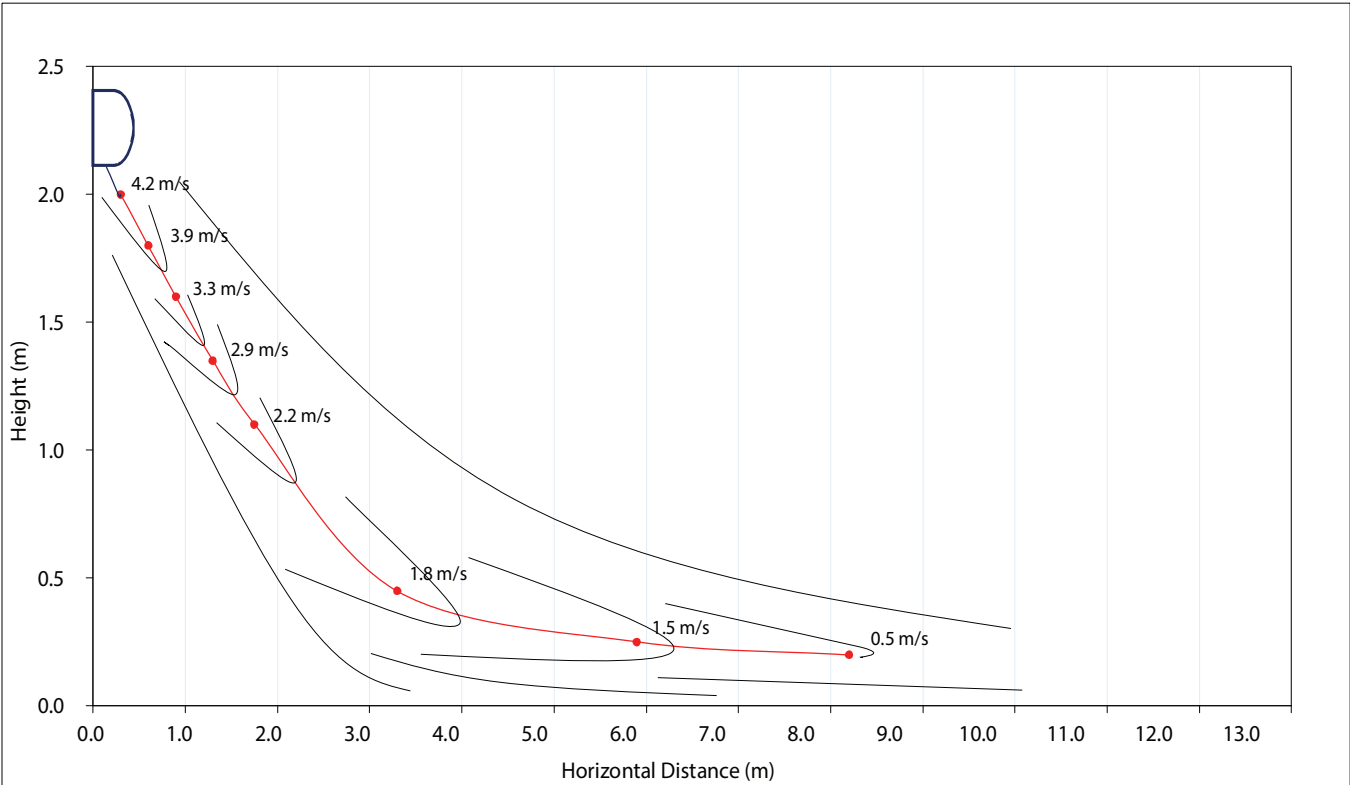


MMK-UP0071DHPL-E/TR

Cooling

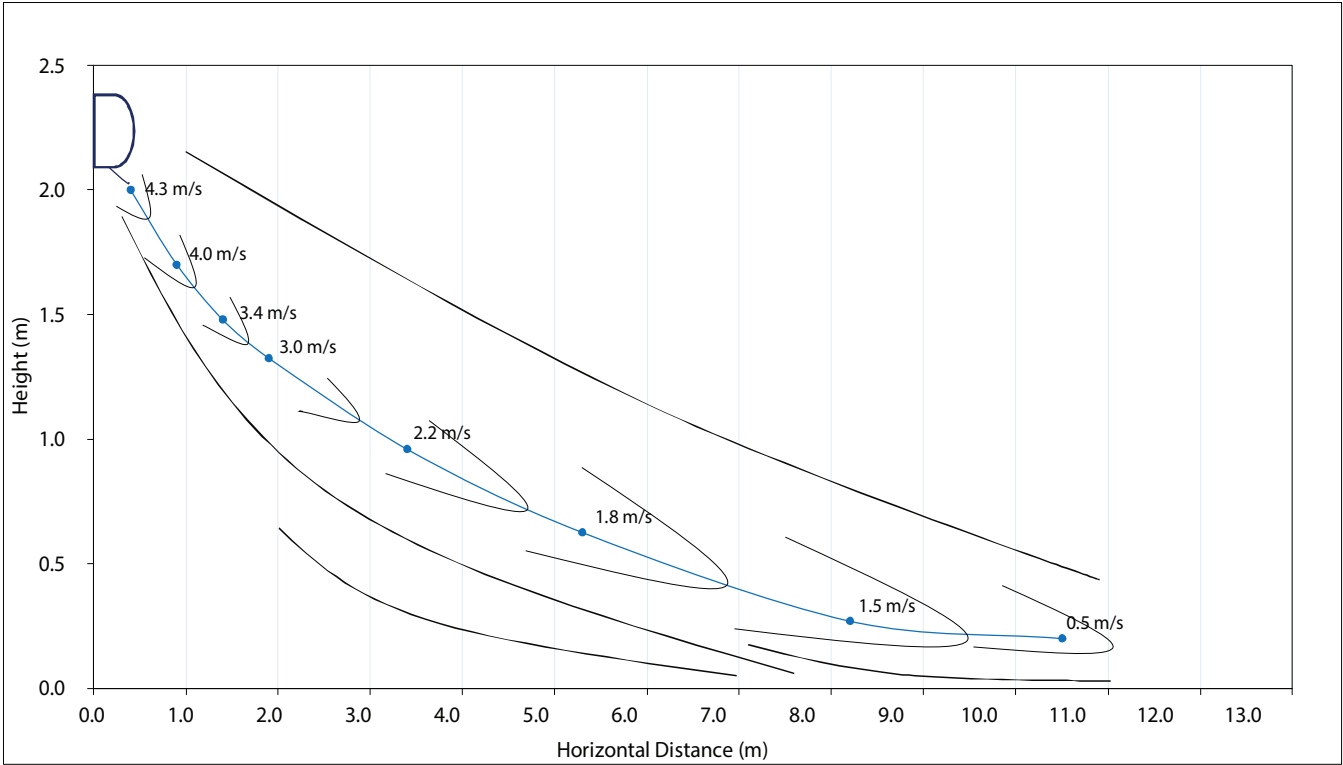


Heating

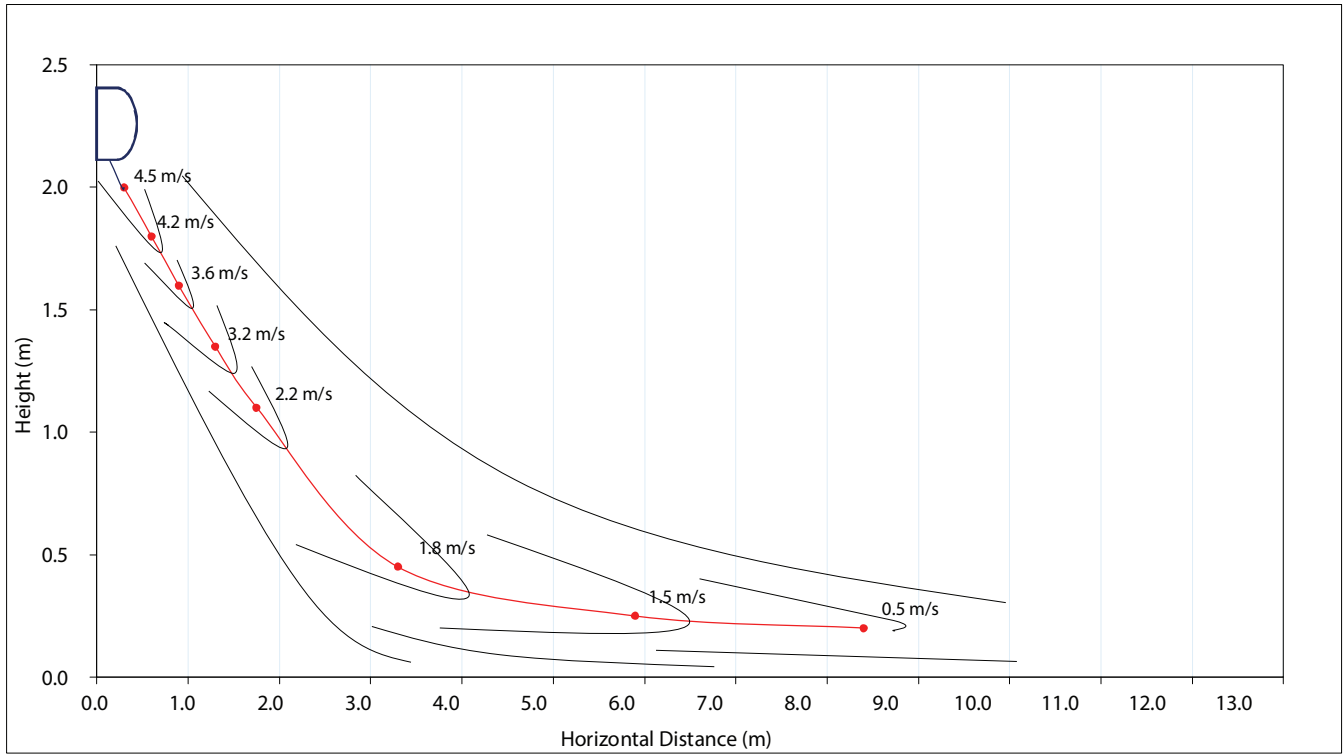


MMK-UP0091DHPL-E/TR

Cooling

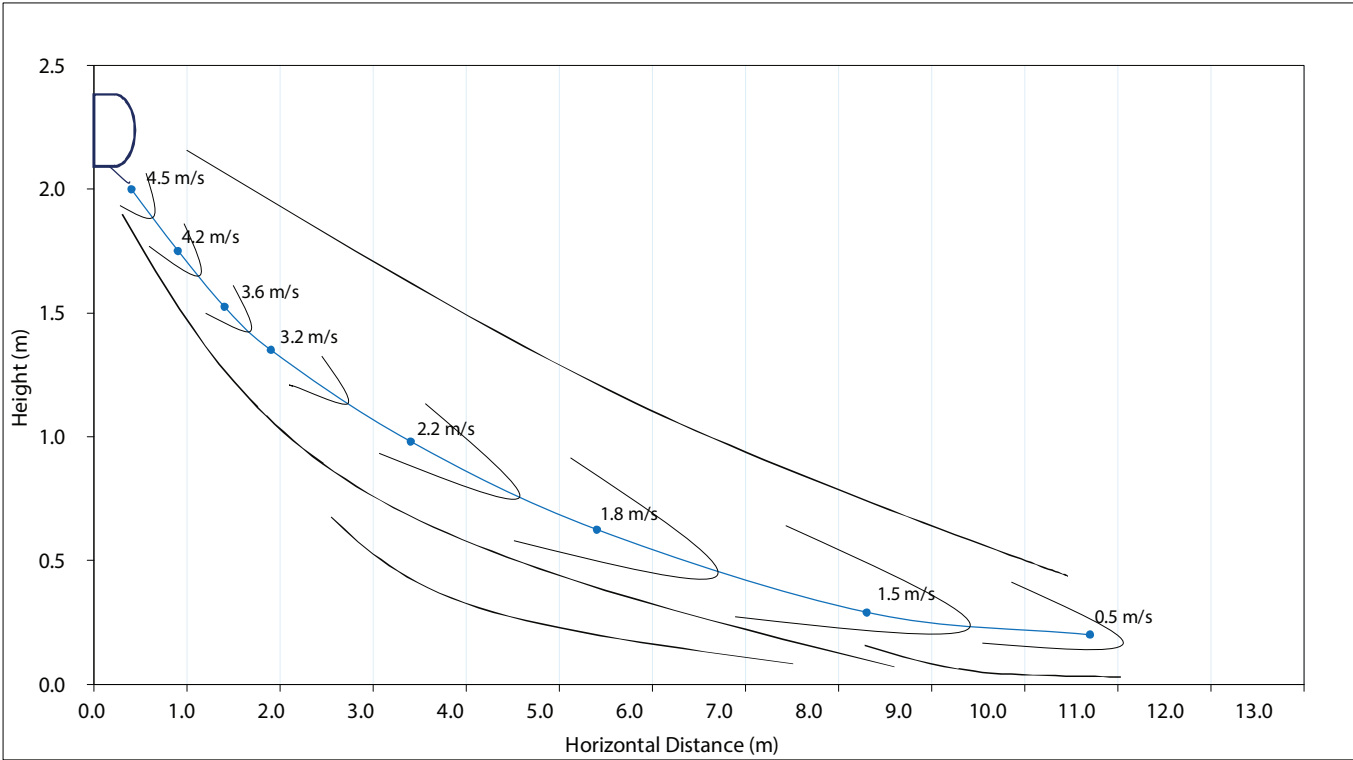


Heating

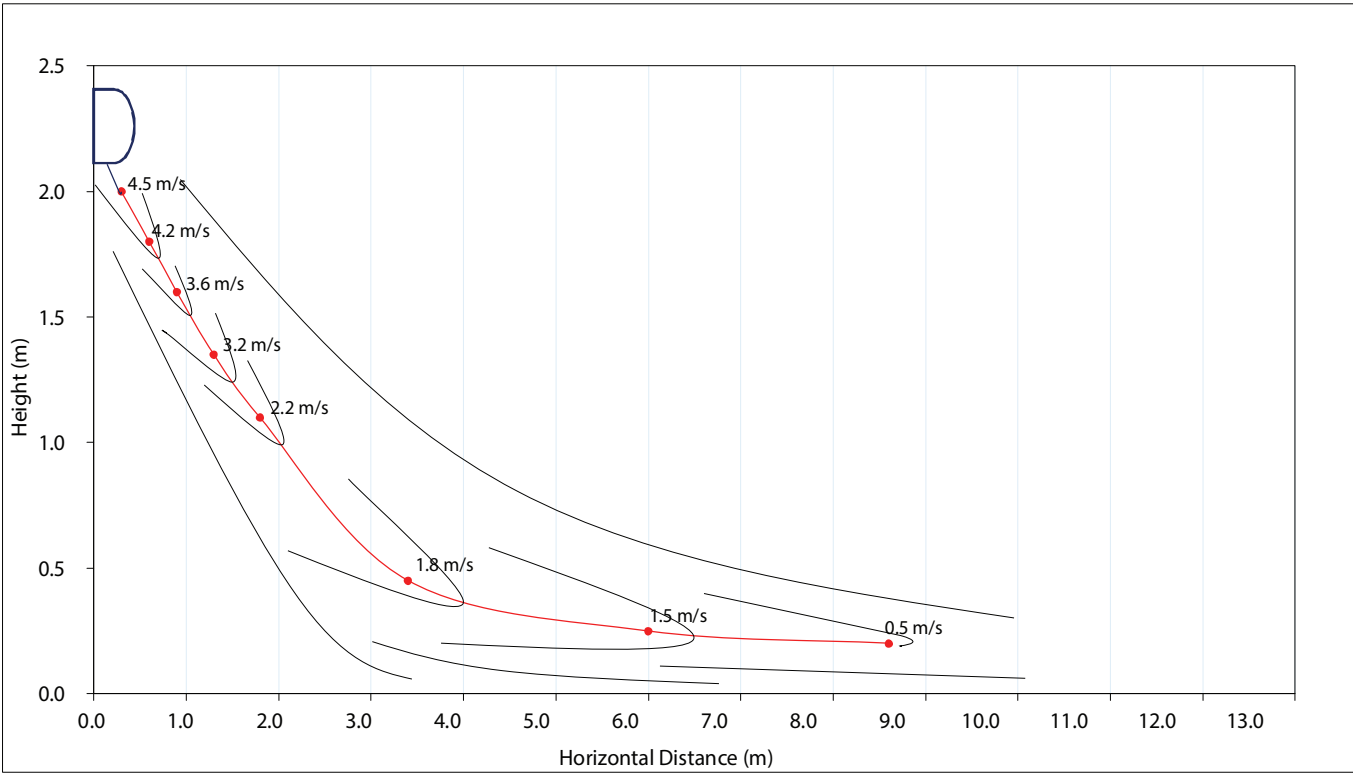


MMK-UP0121DHPL-E/TR

Cooling

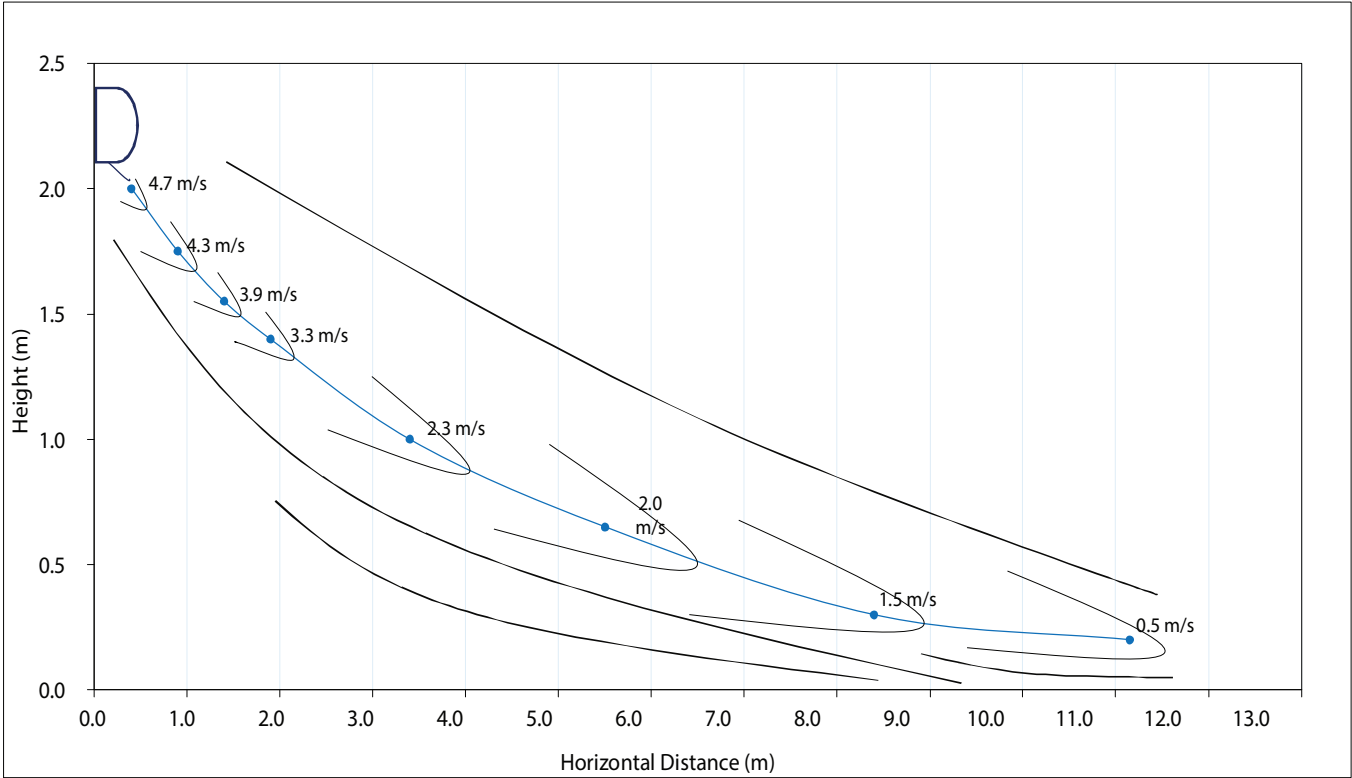


Heating

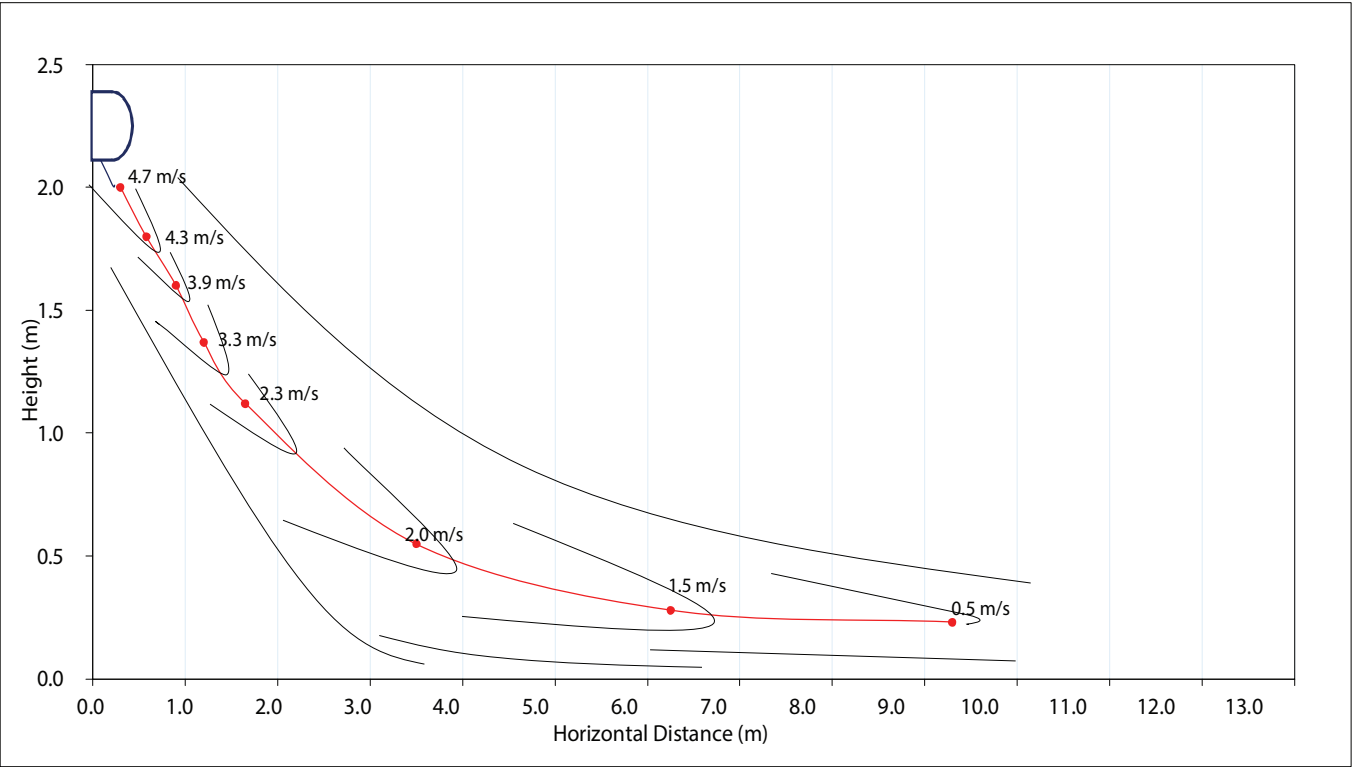


MMK-UP0151DHPL-E/TR

Cooling

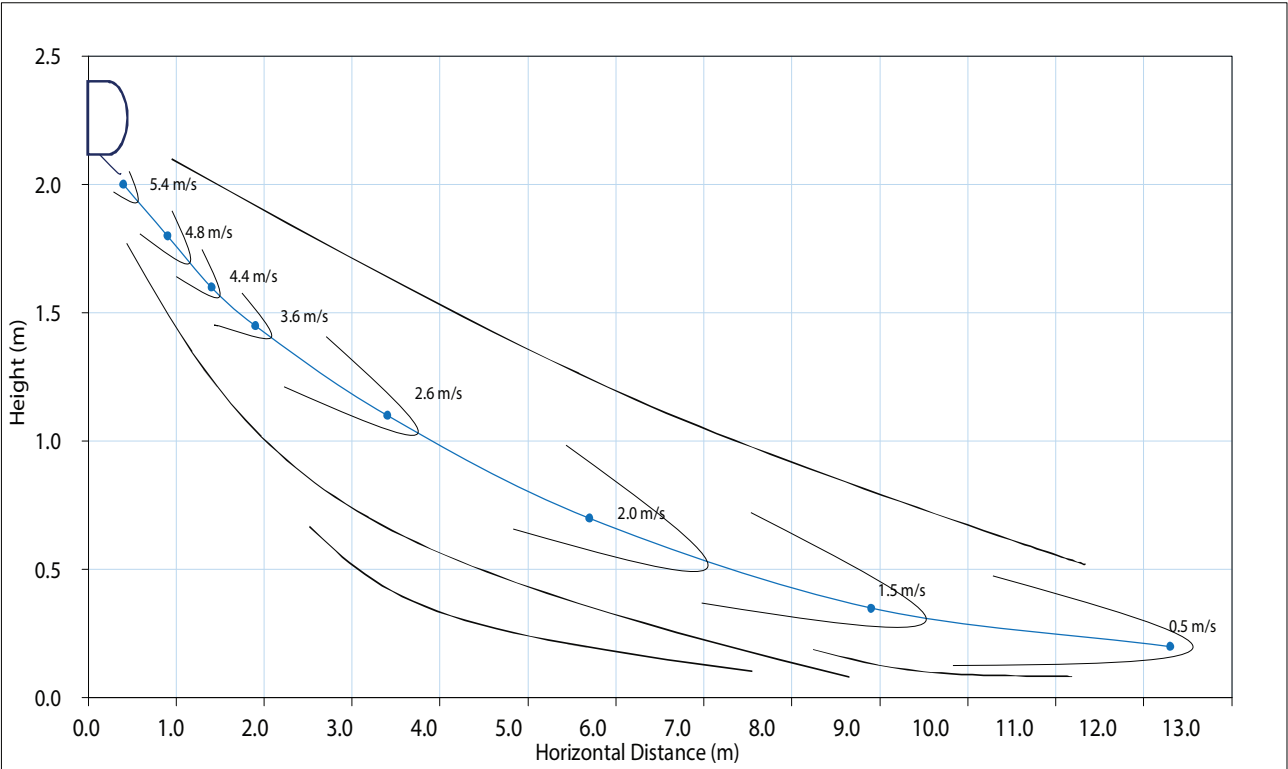


Heating

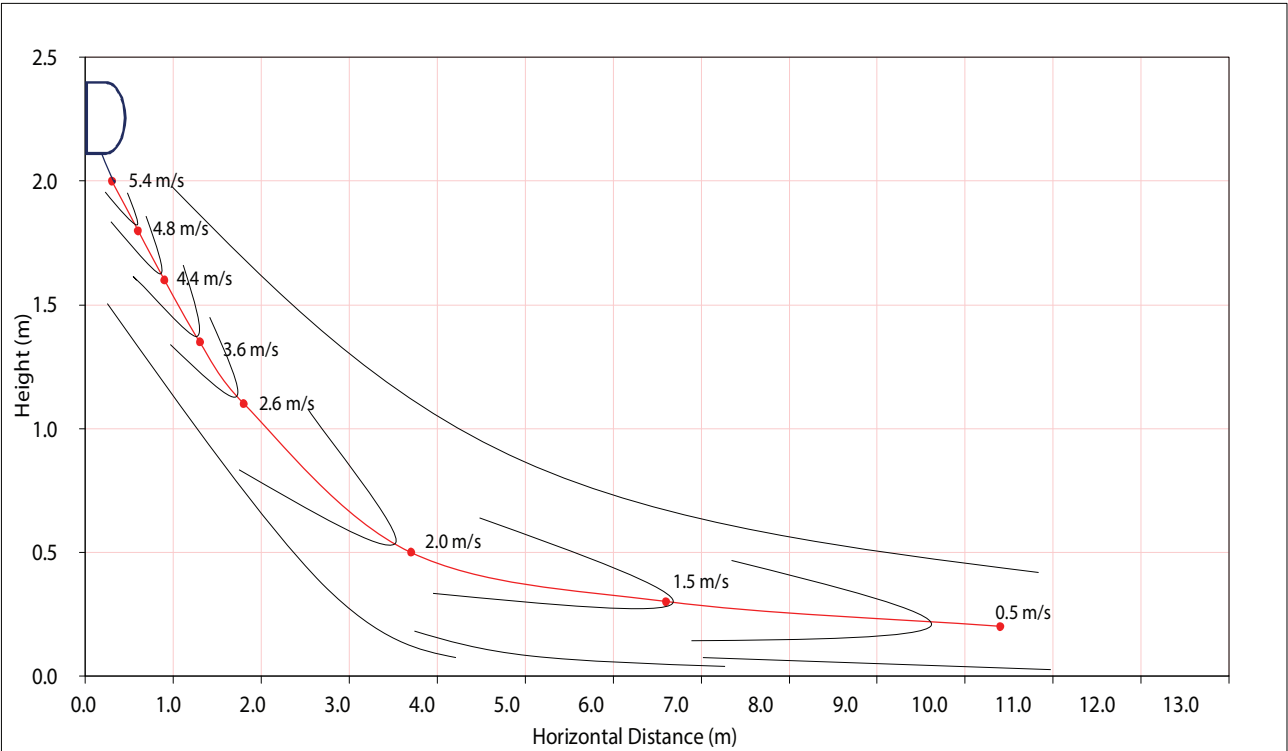


MMK-UP0181DHPL-E/TR

Cooling



Heating



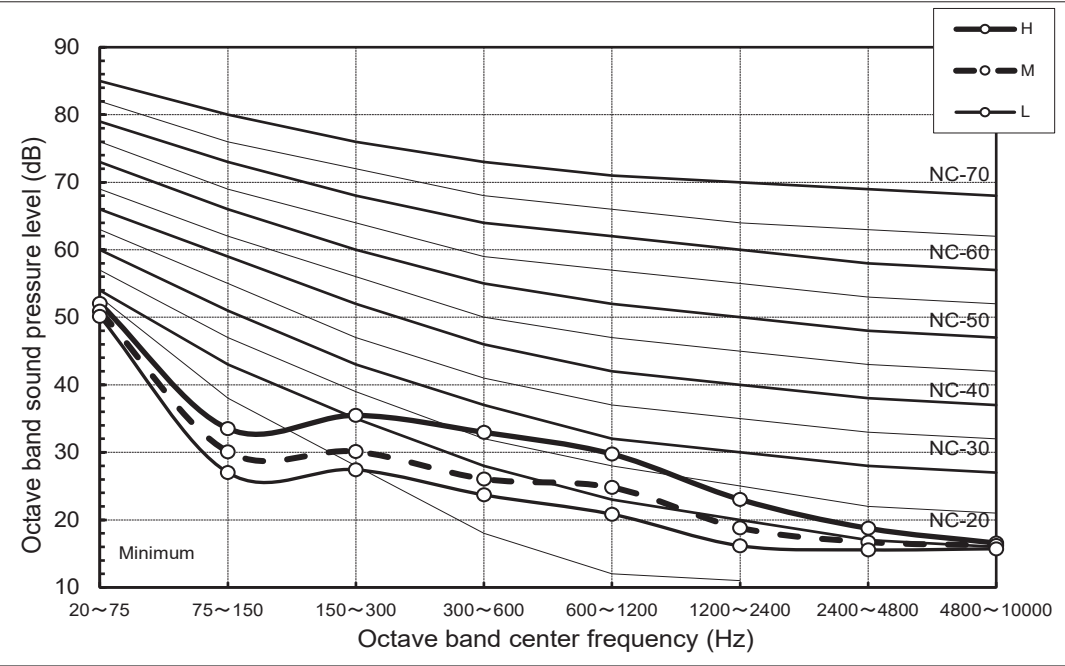
9. Sound data

9.1 NC curve

MMK-UP0051DHPL-E/-TR

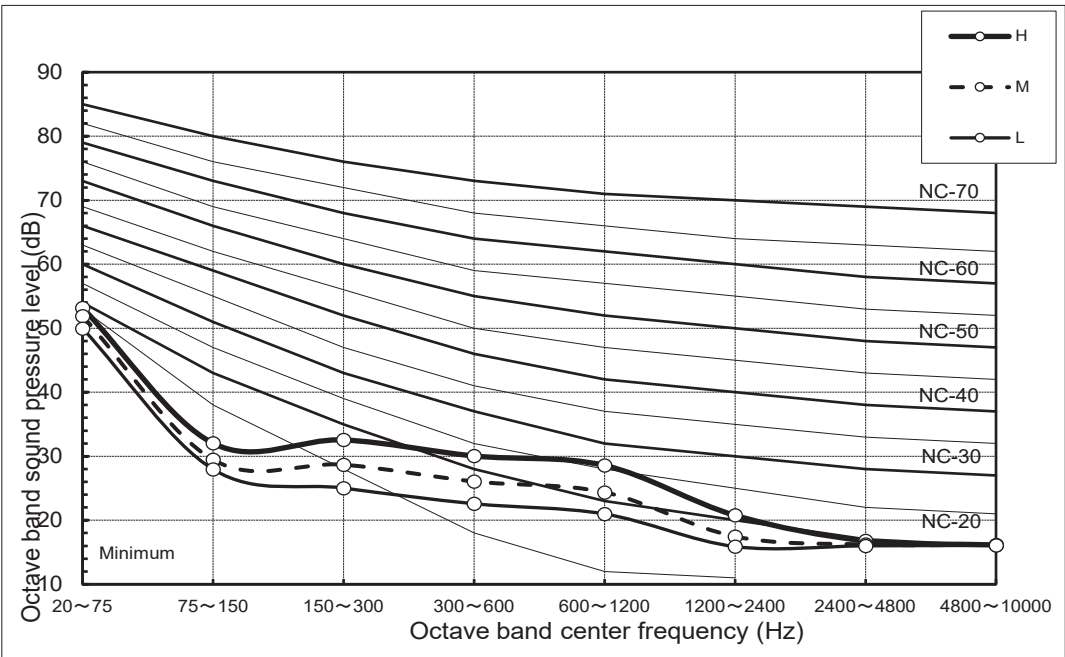
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	33	29	25



Heating

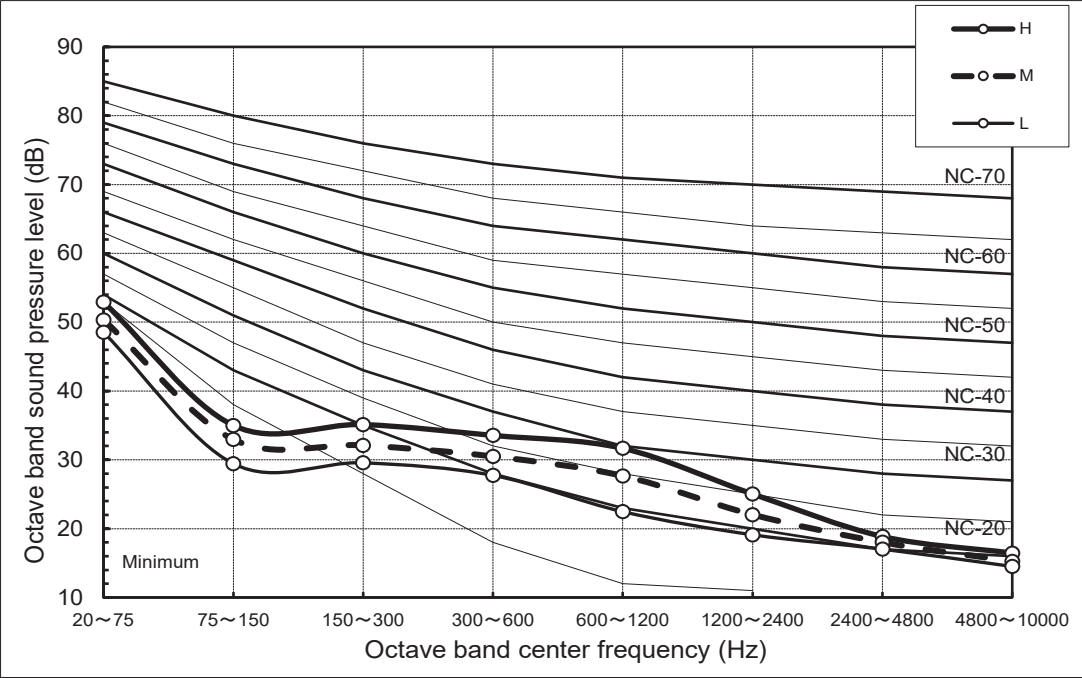
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	33	29	25



MMK-UP0071DHPL-E/-TR

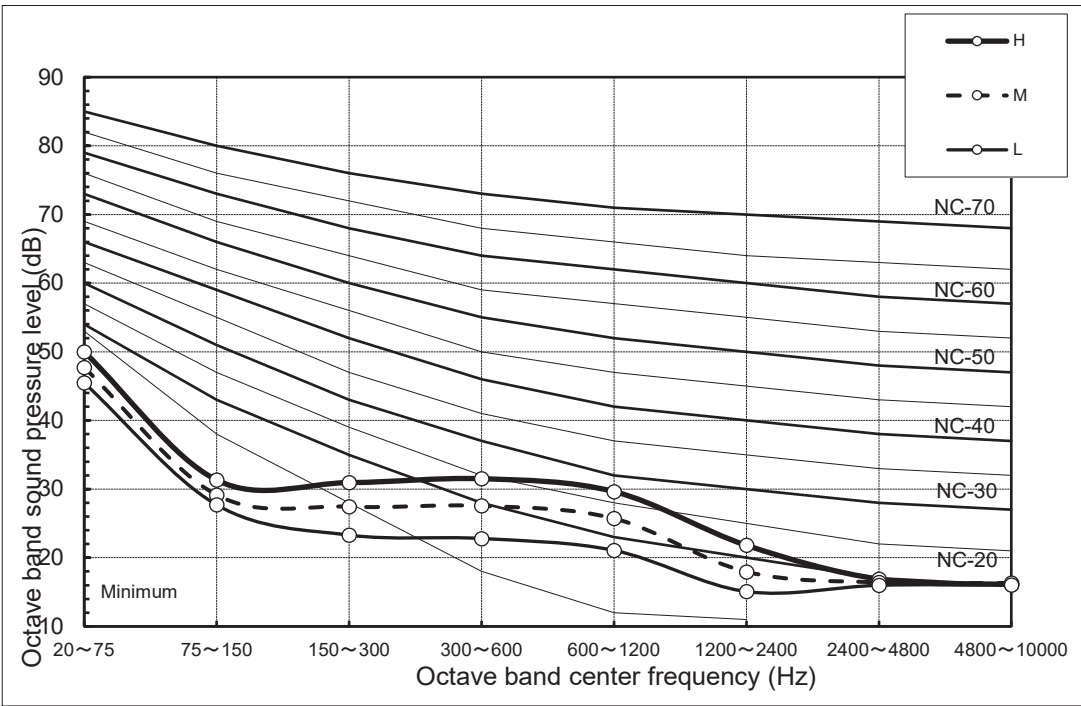
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	35	30	25



Heating

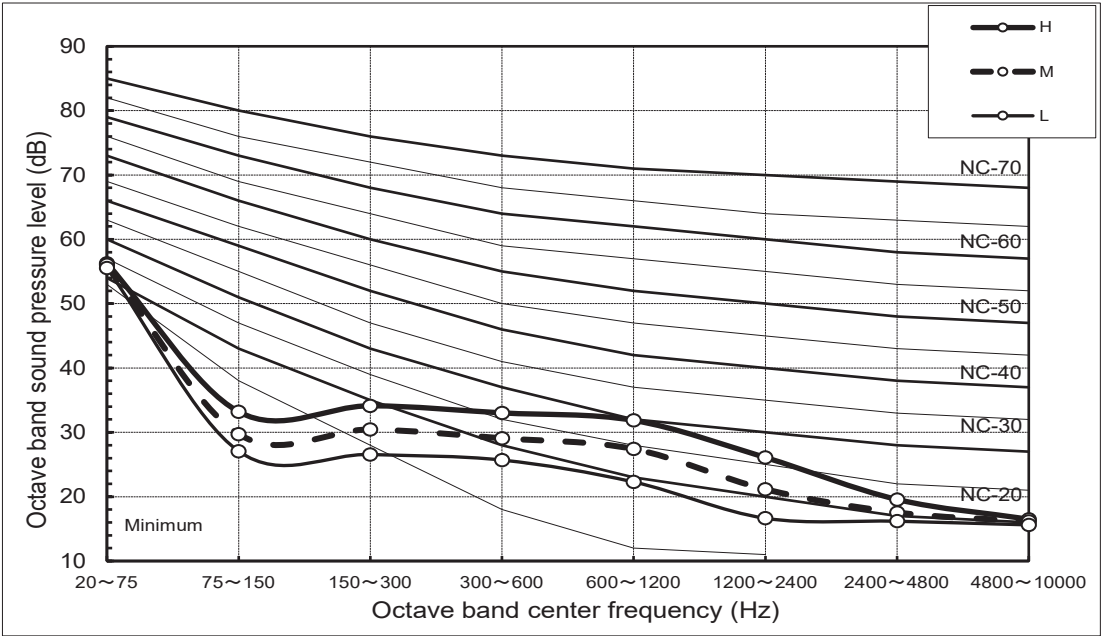
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	35	30	25



MMK-UP0091DHPL-E/-TR

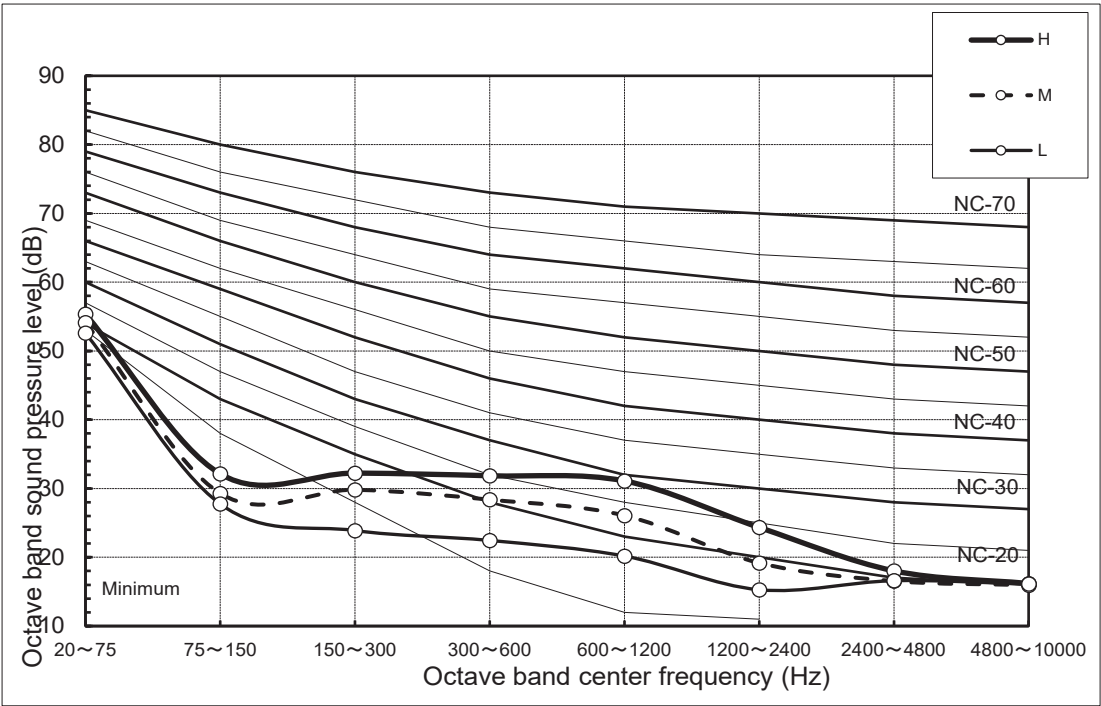
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	36	31	25



Heating

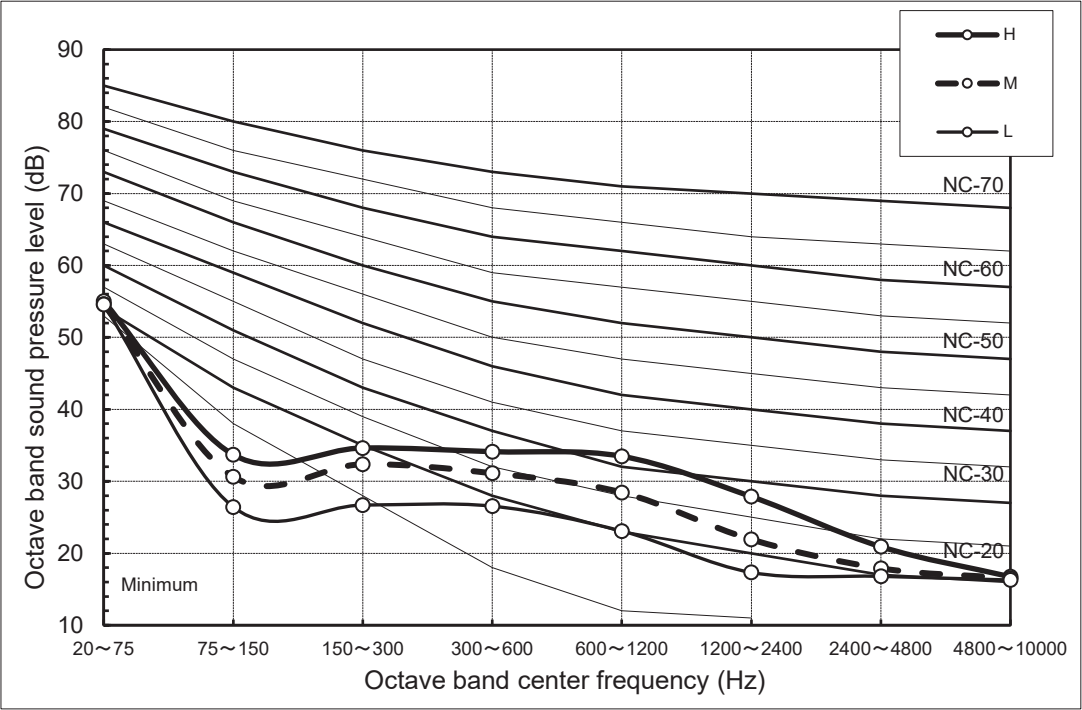
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	36	31	25



MMK-UP0121DHPL-E/-TR

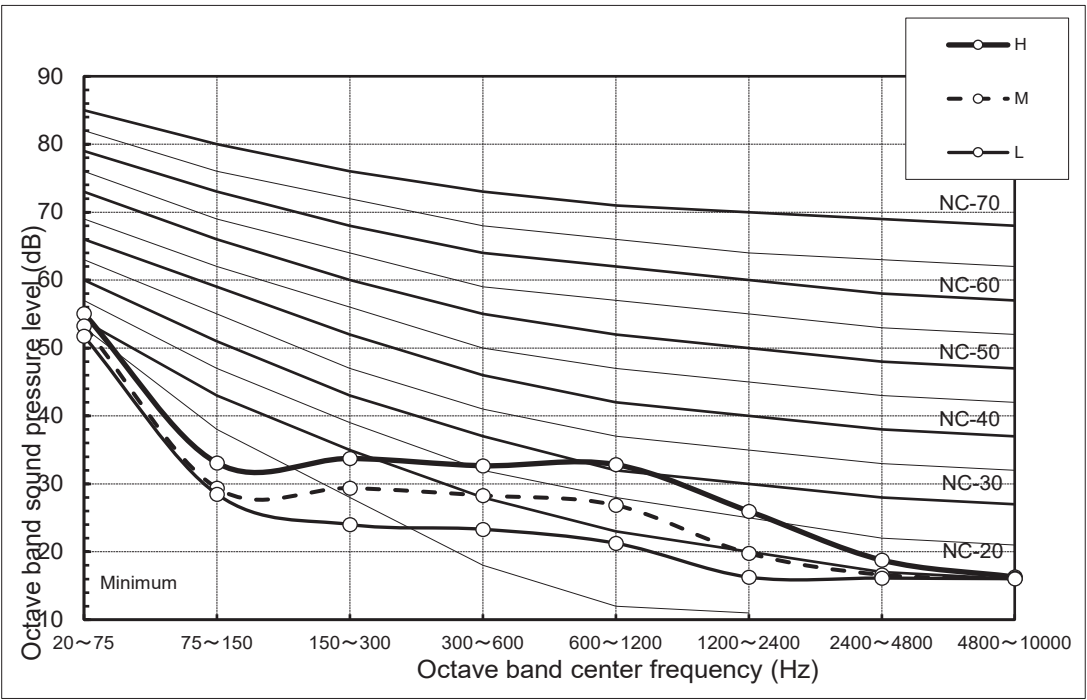
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	37	32	25



Heating

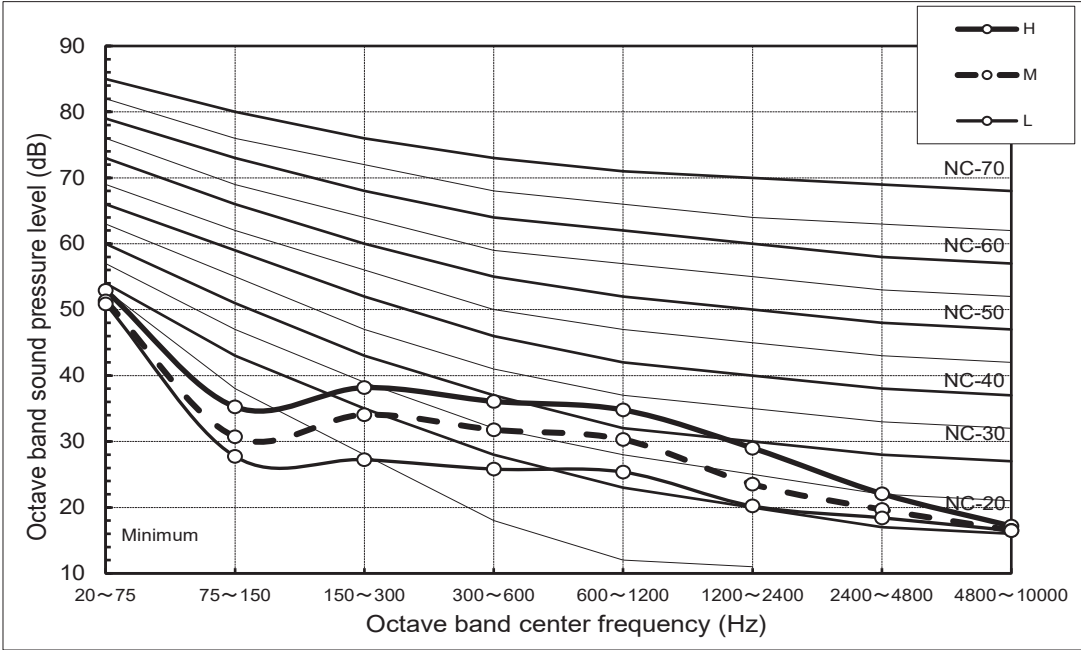
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	37	32	25



MMK-UP0151DHPL-E/-TR

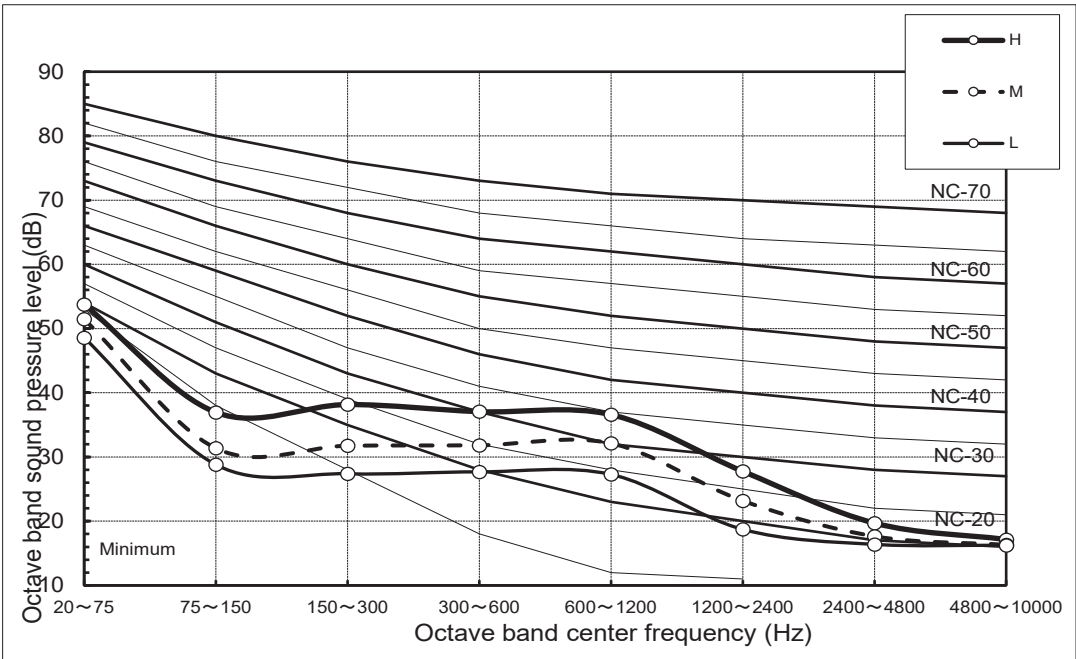
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	35	30



Heating

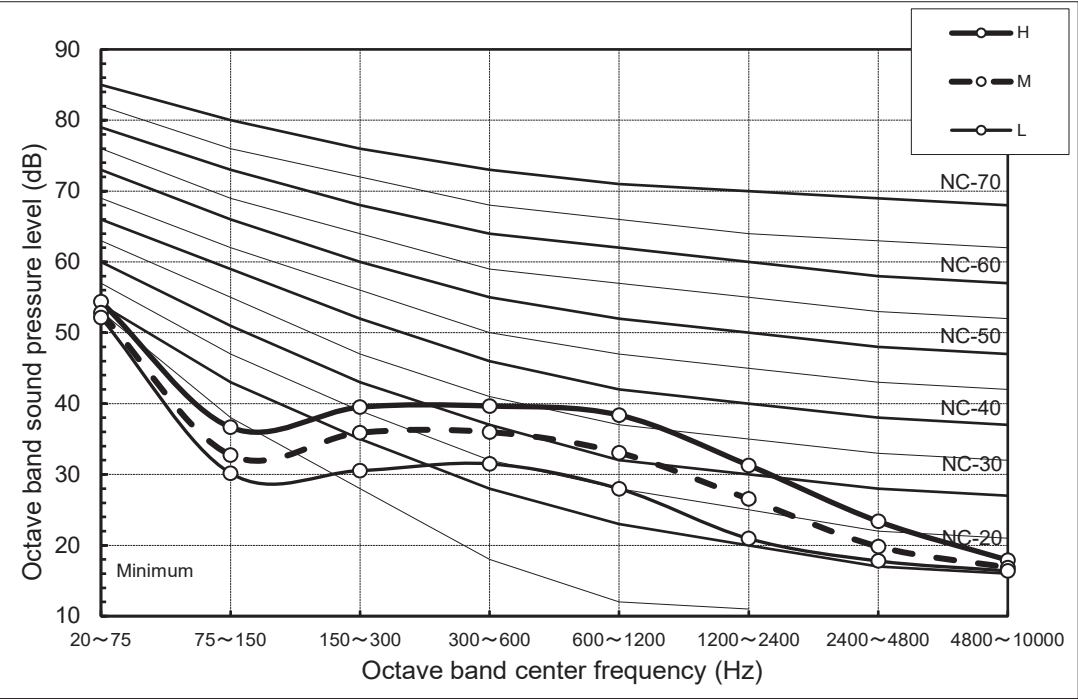
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	35	30



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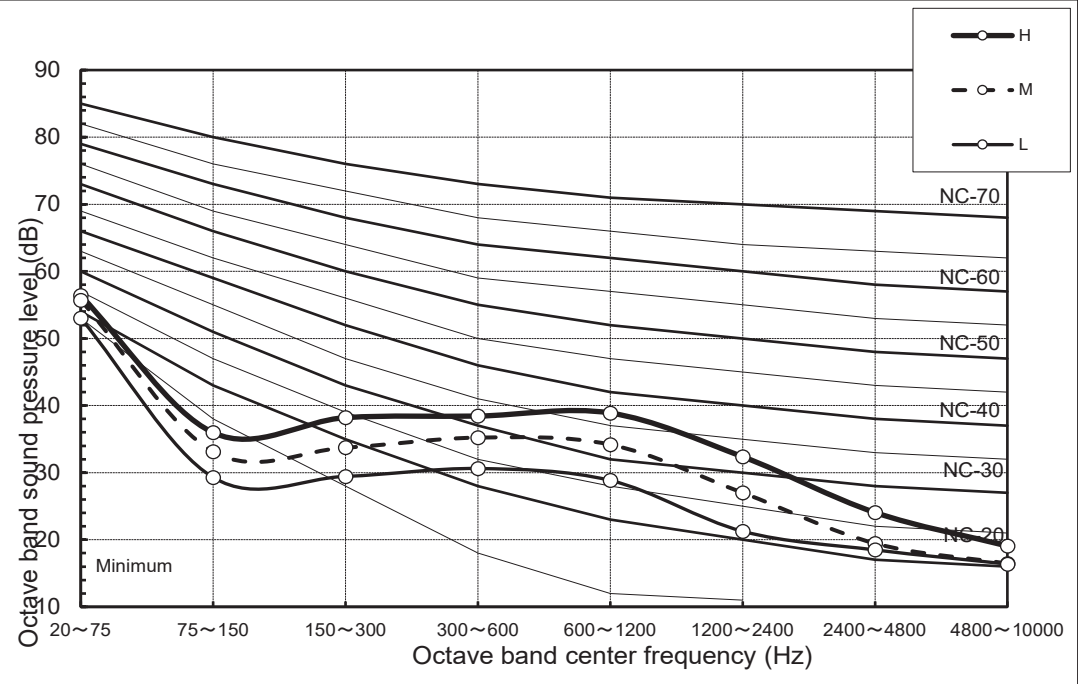
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	45	39	32



Heating

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	45	39	32

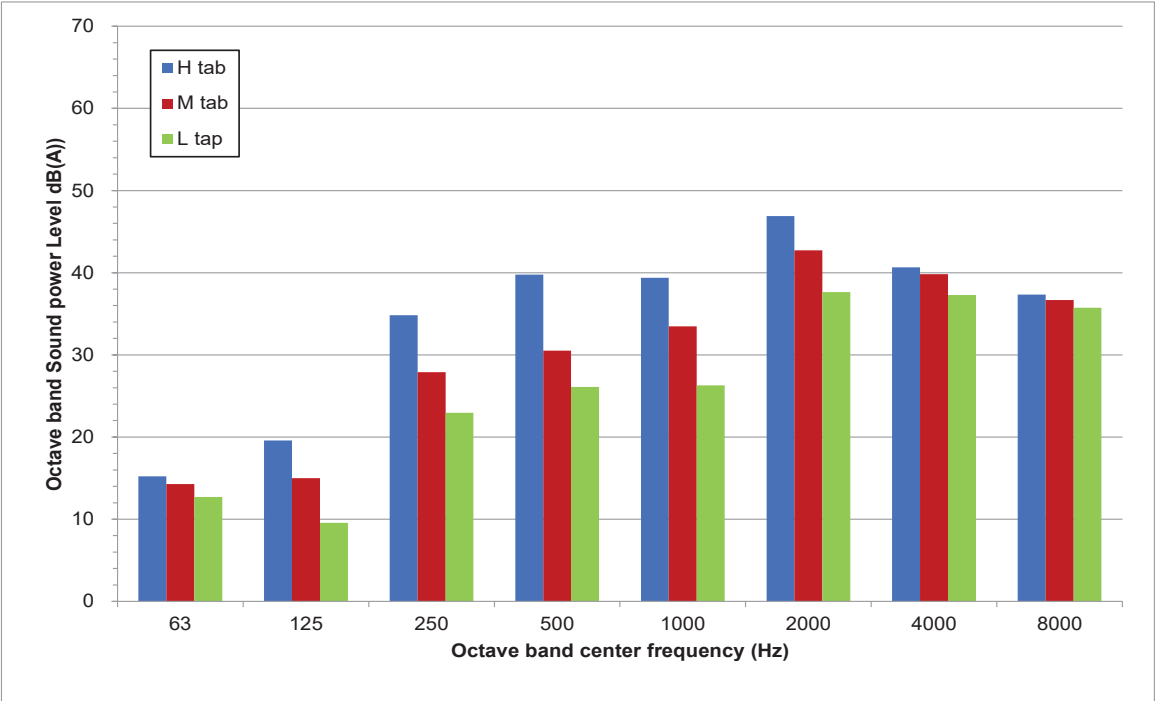


9.2 Sound power characteristic

MMK-UP0051DHPL-E /-TR

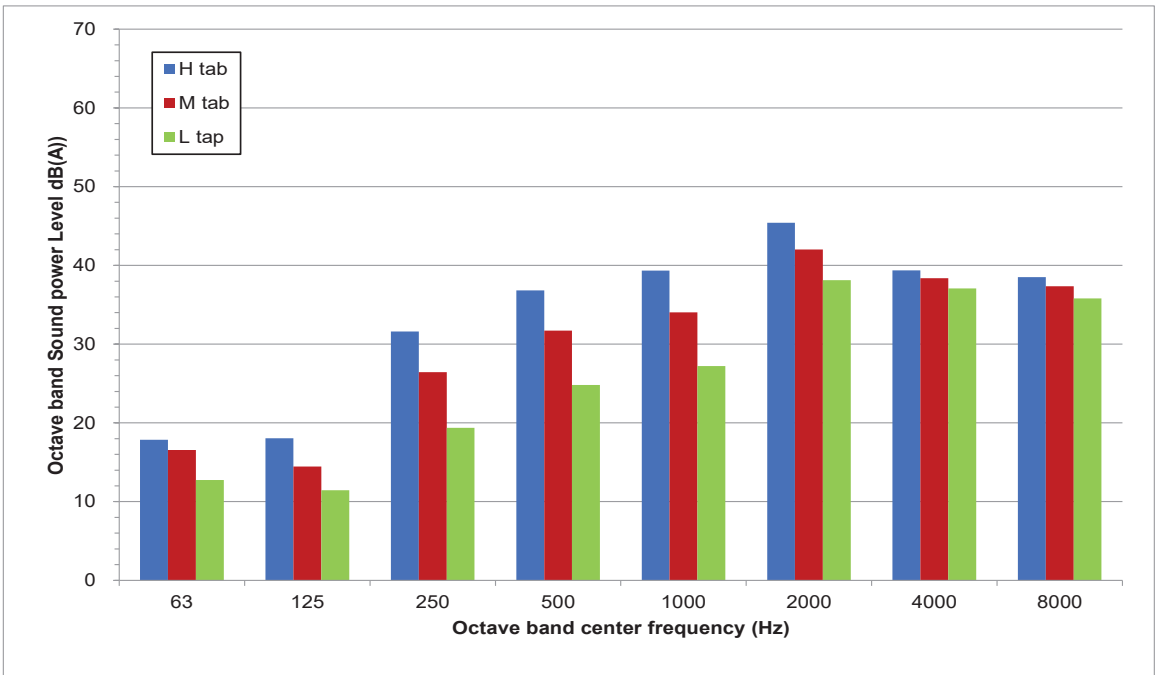
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	40



Heating

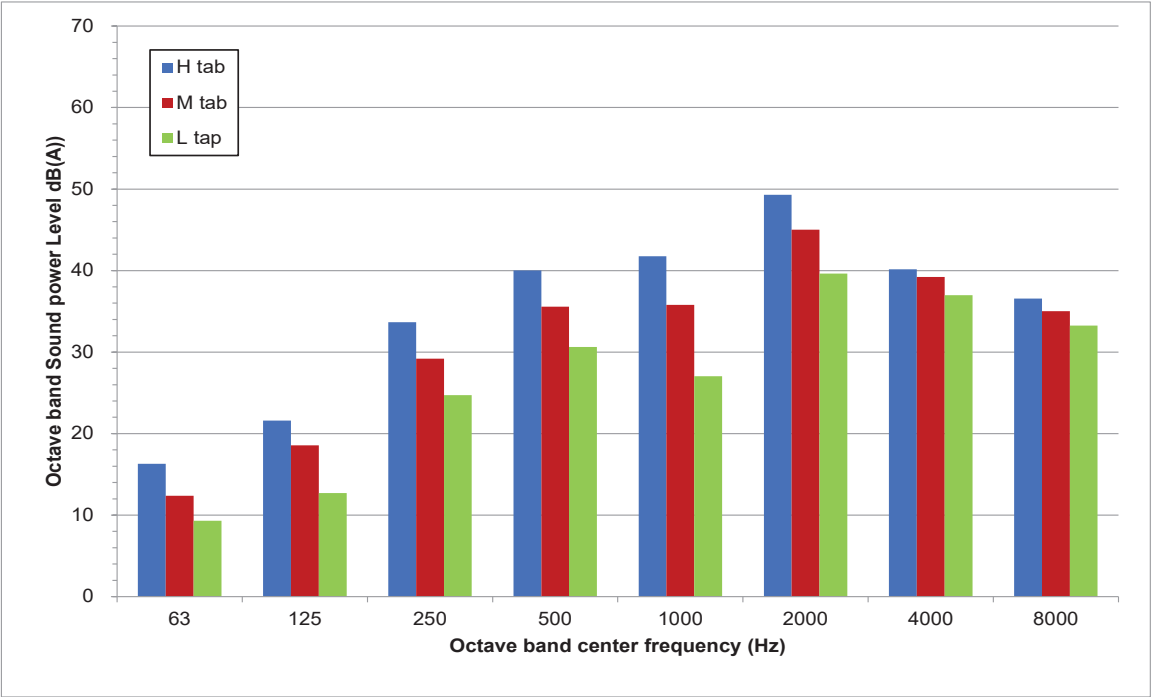
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	40



MMK-UP0071DHPL-E /-TR

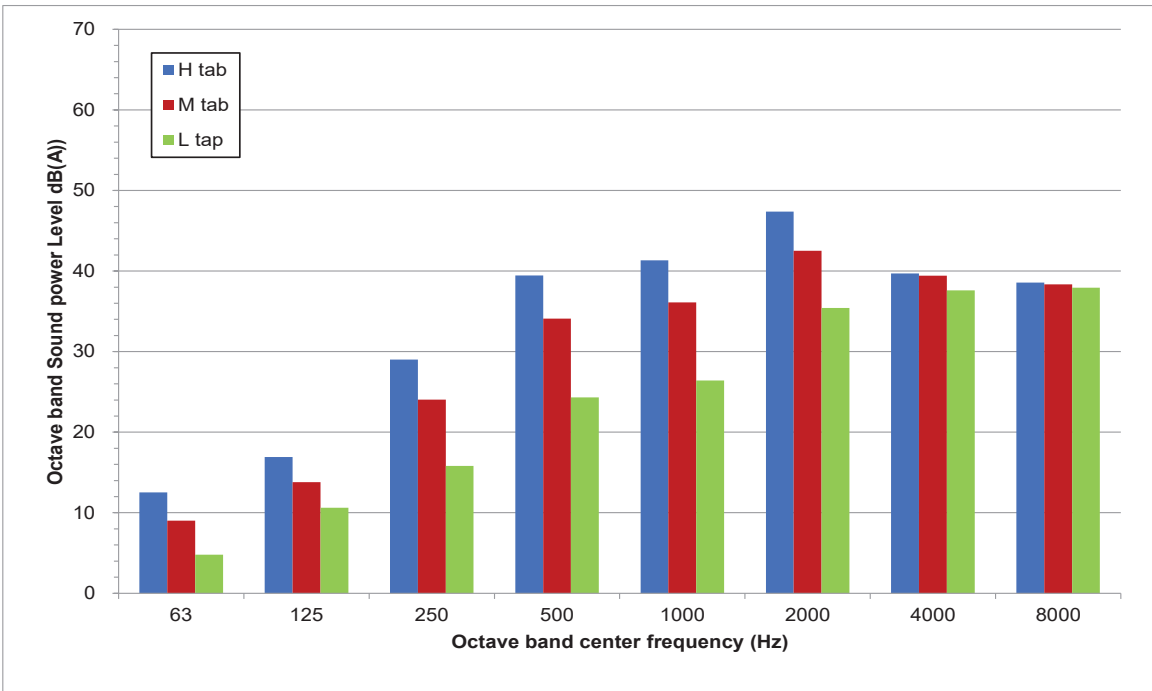
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	50	45	40



Heating

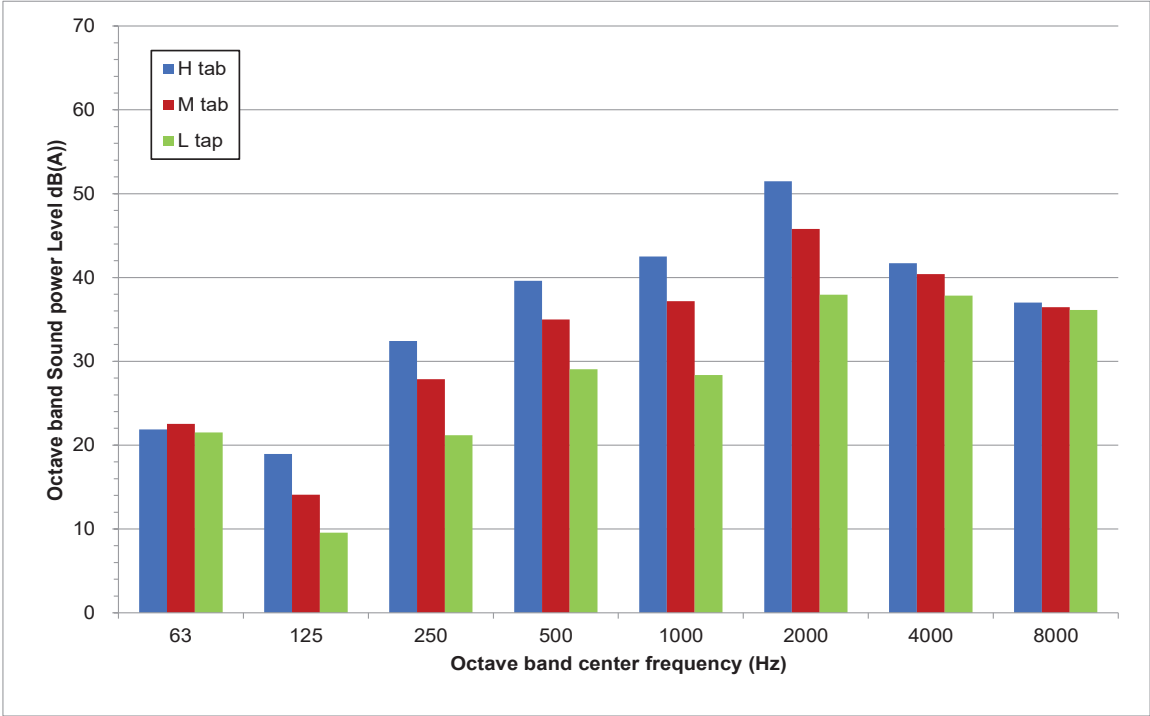
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	50	45	40



MMK-UP0091DHPL-E /-TR

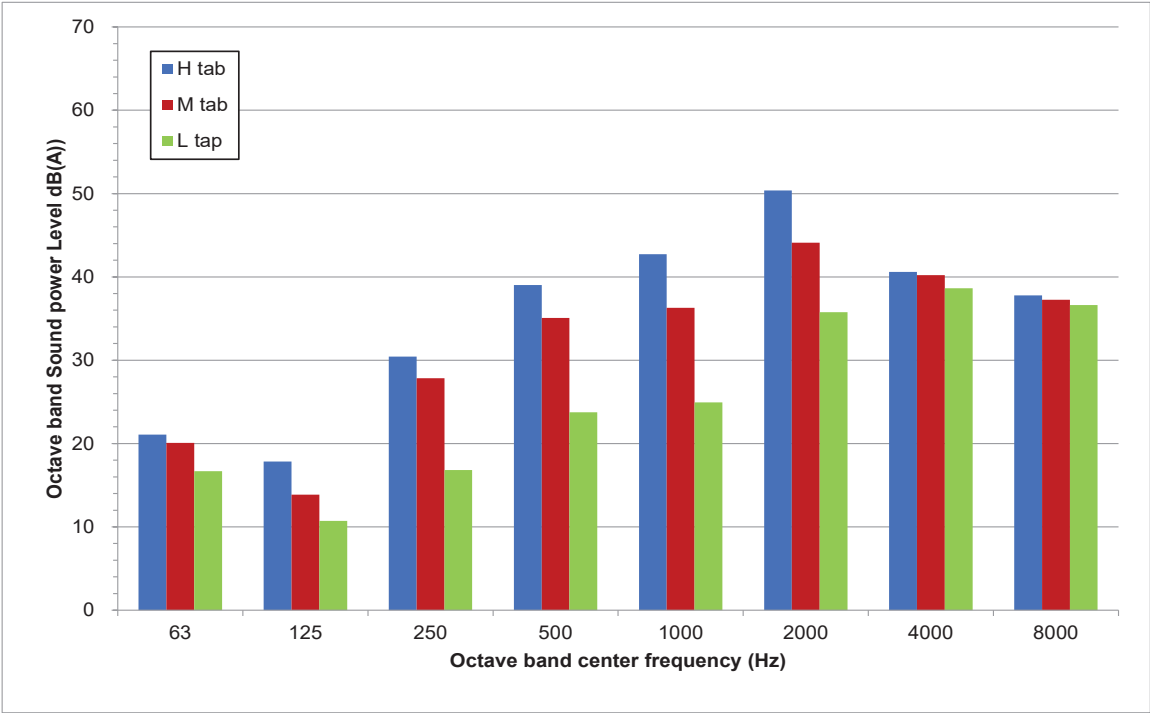
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	51	46	40



Heating

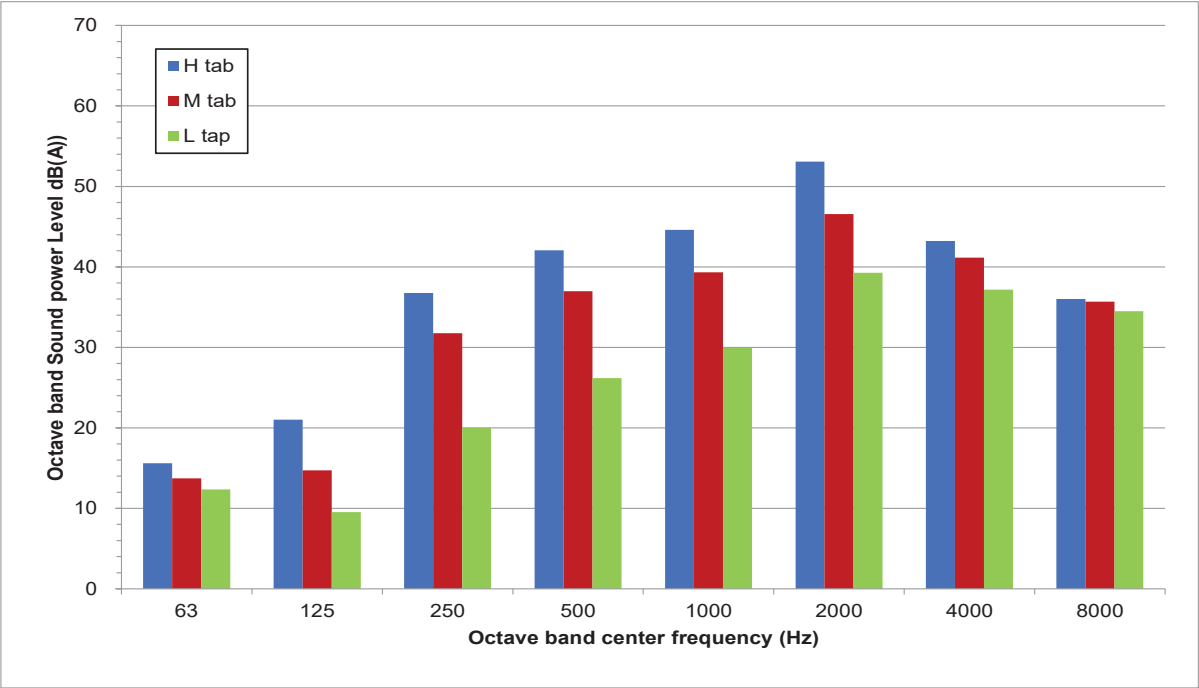
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	51	46	40



MMK-UP0121DHPL-E /-TR

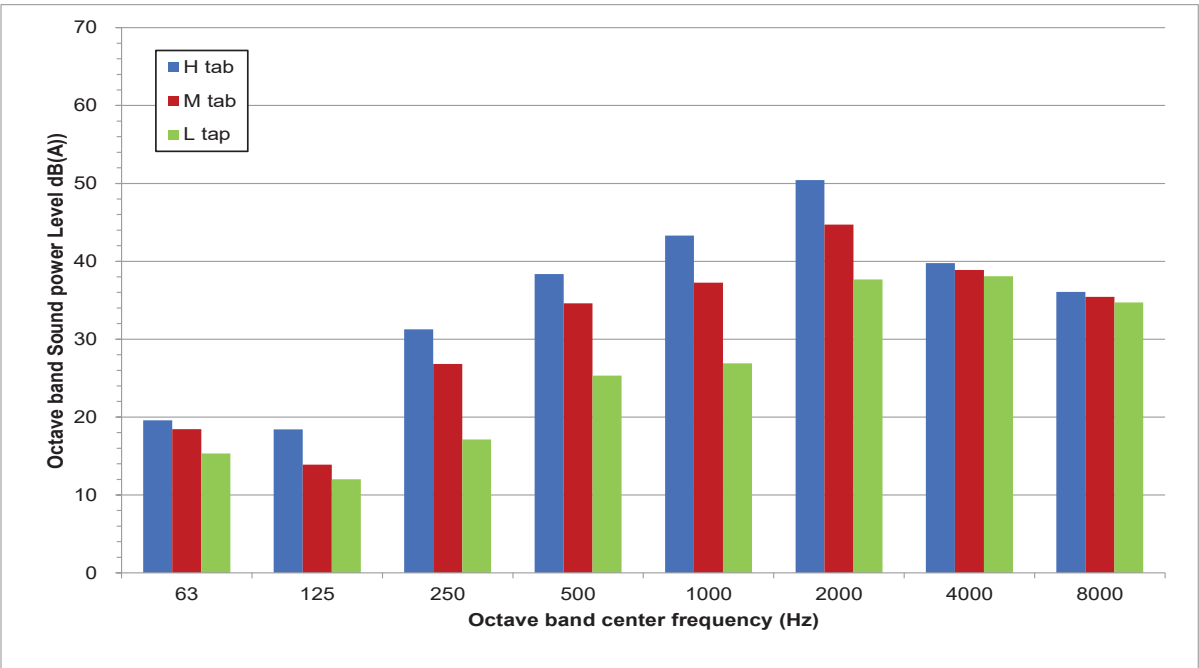
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	52	47	40



Heating

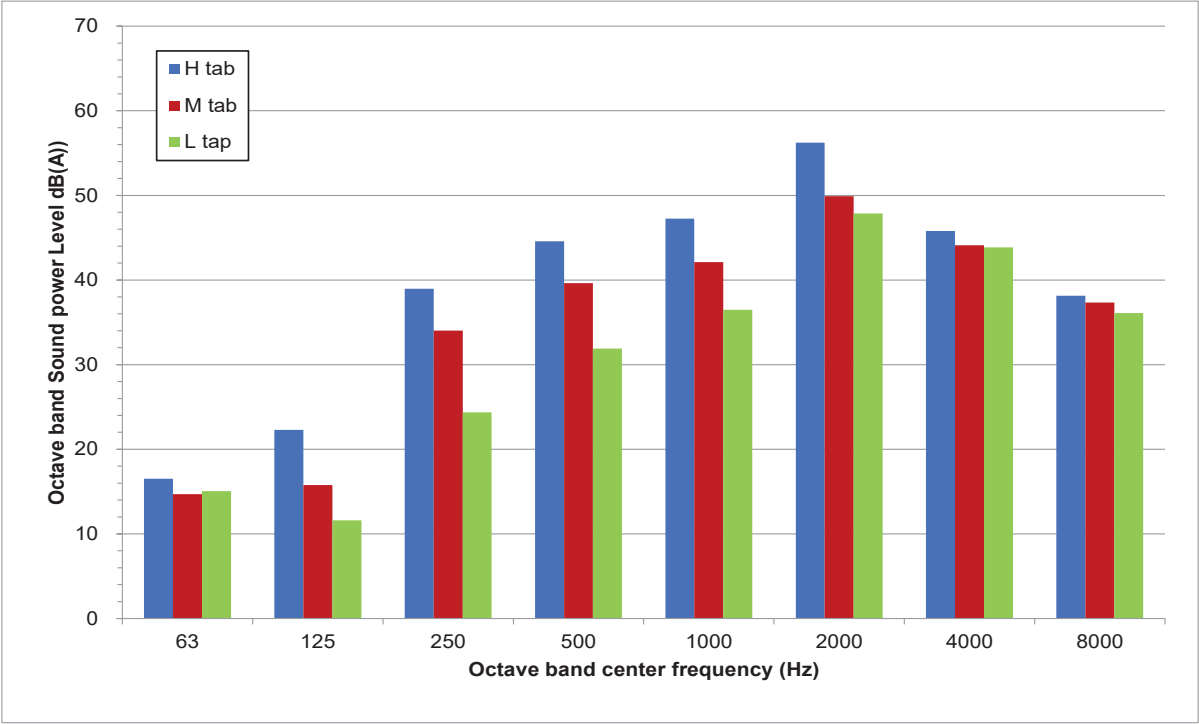
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	52	47	40



MMK-UP0151DHPL-E /-TR

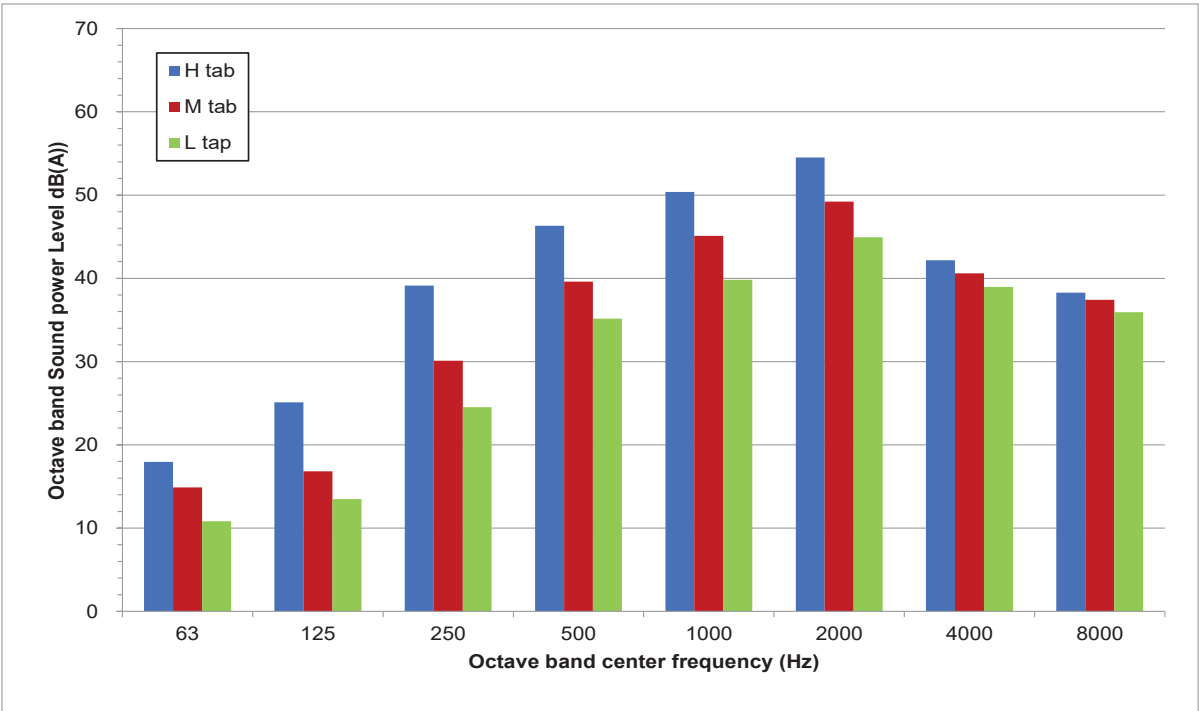
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	55	50	45



Heating

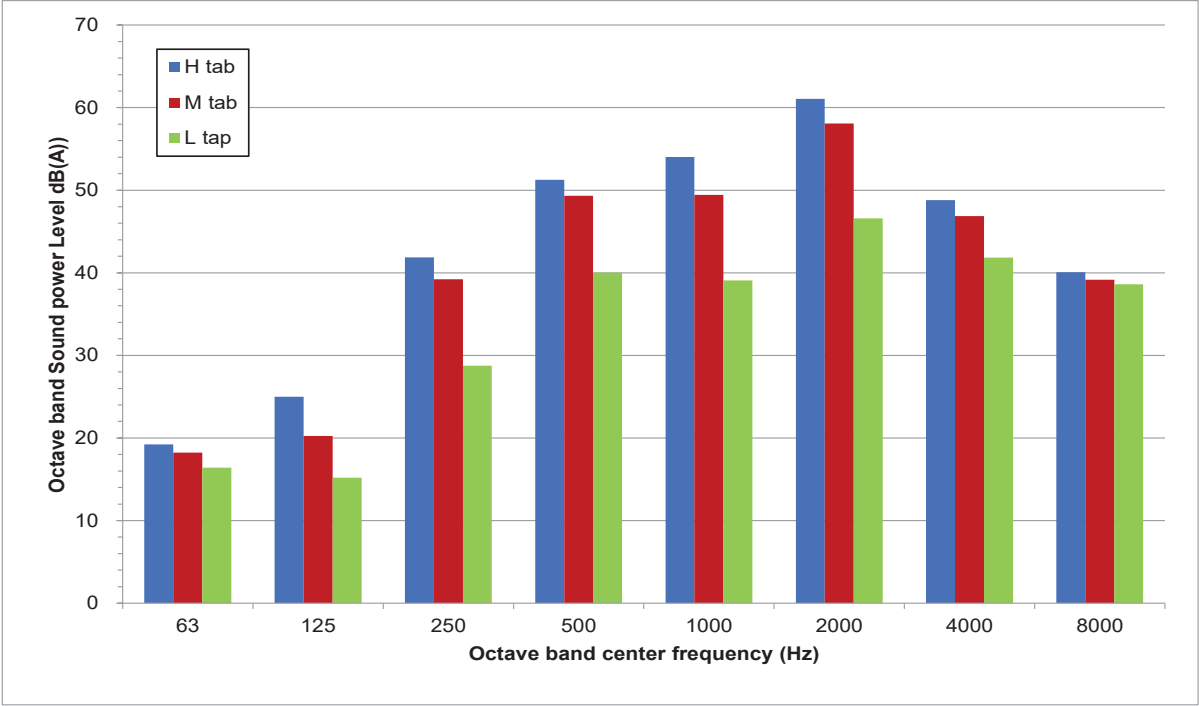
Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	55	50	45



MMK-UP0181DHPL-E /-TR

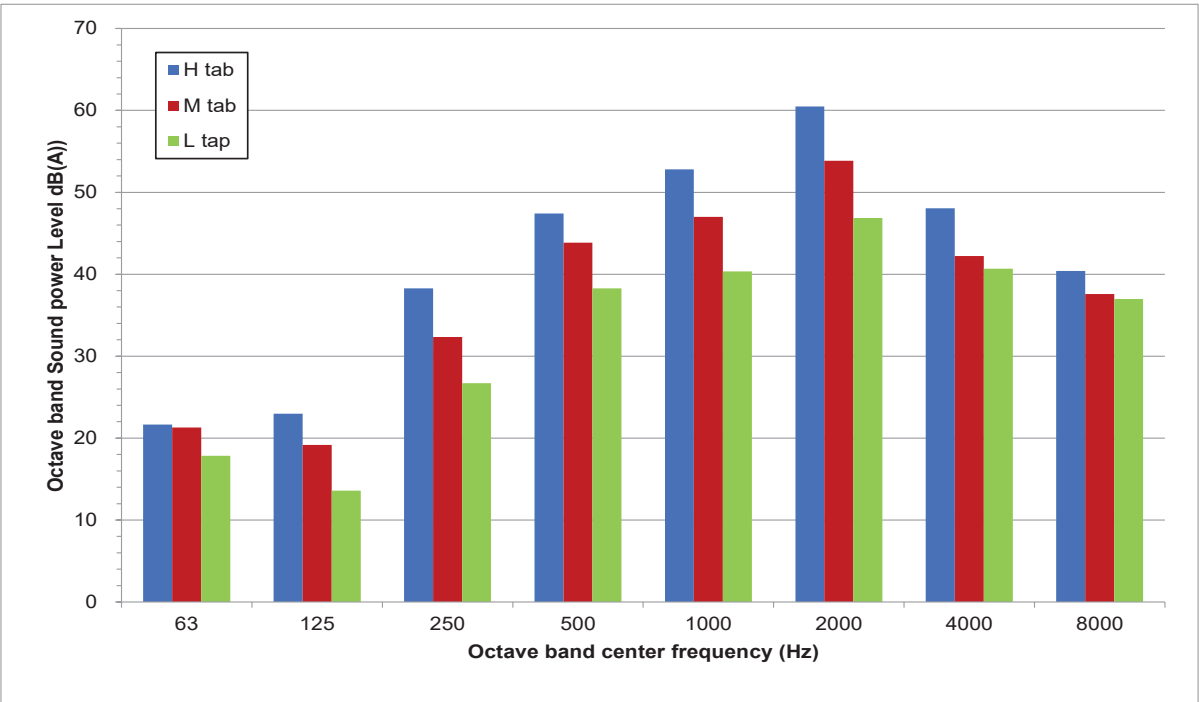
Cooling

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	60	54	47



Heating

Specification			
Fan tap	H	M	L
Sound pressure level (dB(A))	60	54	47



10. Accessories

Type	Model name	Factory	Feature
PMV Kit	RBM-PMV0361UP-E	TCTC	For capacity 0.6-1.25HP
	RBM-PMV0901UP-E	TCTC	For capacity 1.7-2.5HP
Wired remote controller	RBC-ASCU11-E	TCC	Standard wired remote controller
	RBC-AMTU31-E	TCC	Wired remote controller
	RBC-AWSU52-E	TCC	Premium wired remote controller with bluetooth
	RBC-AMSU52-E	TCC	Premium wired remote without bluetooth
Optional Fabrics	RB-I4101-E	TCTC	Dark Gray
	RB-I4102-E	TCTC	Light Gray
	RB-I4103-E	TCTC	Bluish Gray
	RB-I4104-E	TCTC	Gray Beige
	RB-I4105-E	TCTC	Dark Brown
	RB-I4106-E	TCTC	Emerald Blue
Pattern for fabrics grille	RB-I4201-E	TCTC	Pattern for customize fabrics
Velcro tape for fabrics grille	RB-I4301-E	TCTC	Velcro tape for customize fabrics

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