

Engineering Data

Medium-high Static Pressure

Duct VRF IDU



MI2-22T2DHN1(A)

MI2-71T2DHN1(A)

MI2-28T2DHN1(A)

MI2-90T2DHN1(A)

MI2-36T2DHN1(A)

MI2-112T2DHN1(A)

MI2-45T2DHN1(A)

MI2-140T2DHN1(A)

MI2-56T2DHN1(A)

MI2-160T2DHN1(A)

Medium-high static pressure Duct

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The 2nd Generation DC Duct Series VRF Indoor Units



1 Specifications

MI2-22T2DHN1(A)/ MI2-28T2DHN1(A) / MI2-36T2DHN1(A)

Table 1.1: MI2-22(28, 36)T2DHN1(A) specifications

Model name			MI2-22T2DHN1(A)	MI2-28T2DHN1(A)	MI2-36T2DHN1(A)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	2.2	2.8	3.6
		kBut/h	7.5	9.6	12.3
	Input (10pa)	W	45	45	45
Heating ²	Capacity	kW	2.6	3.2	4.0
		kBut/h	8.2	10.9	13.6
	Input(10pa)	W	45	45	45
Fan motor	Model		ZKSP-30-8-3L	ZKSP-30-8-3L	ZKSP-30-8-3L
	Type		DC		
	Brand		Nidec/Welling/Yongan		
	Speed (H/M/L)	r/min	1034/972/908/852/802/753/708		
Coil	Number of rows		2	2	2
	Tube pitch × row pitch	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ7 Inner groove		
	Dimensions (L×H ×W)	mm	515×147×26.74	515×147×26.74	515×147×26.74
	Number of circuits		4	4	4
Airflow rate ³		m ³ /h	580/540/500/460/430/400/370		
External static pressure ⁴		Pa	10 (10~80)		
Sound pressure level ⁵		dB(A)	33/32/31/30/28/27/25		
Unit	Net dimensions ⁶ (W×H×D)	mm	780×210×500		
	Packed dimensions (W×H×D)	mm	870×285×525		
	Net/Gross weight	kg	18/21		
Refrigerant type			R410A		
Throttle	Type		Electronic expansion valve		
	Model		D20MISZ-1R(L)		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
connections	Drain pipe	mm	OD Φ25		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

MI2-45T2DHN1(A) / MI2-56T2DHN1(A)

Table 1.2: MI2-45(56)T2DHN1(A) specifications

Model name			MI2-45T2DHN1(A)	MI2-56T2DHN1(A)
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	4.5	5.6
		kBut/h	15.4	19.1
	Input(40pa)	W	97	97
Heating ²	Capacity	kW	5	6.3
		kBut/h	17.1	21.5
	Input(40pa)	W	97	97
Fan motor	Model		WZDK150-38GS	WZDK150-38GS
	Type		DC	
	Brand		Panasonic/ Welling	
	Speed (H/M/L)	r/min	963/912/856/801/747/696/644	1008/955/905/849/800/743/690
Coil	Number of rows		4	4
	Tube pitch × row pitch	mm	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5
	Fin type		Hydrophilic aluminum	
	Tube OD and type	mm	Φ7 Inner groove	
	Dimensions (L×H×W)	mm	733×252×26.74	733×252×26.74
	Number of circuits		6	6
Airflow rate ³		m ³ /h	910 /850/790/730/670/610/550	1000/945/885/825/765/705/635
External static pressure ⁴		Pa	40 (30~150)	
Sound pressure level ⁵		dB(A)	38/36/35/34/32/30/28	39/38/37/35/33/31/29
Unit	Net dimensions ⁶ (W×H×D)	mm	1010x270x635	
	Packed dimensions (W×H×D)	mm	1145x355x705	
	Net/Gross weight	kg	29/34	
Refrigerant type			R410A	
Throttle	Type		Electronic expansion valve	
	Model		D20MISZ-1R(L)	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

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MI2-71T2DHN1(A)/ MI2-90T2DHN1(A)

Table 1.3: MI2-71(90)T2DHN1(A) specifications

Model name			MI2-71T2DHN1(A)	MI2-90T2DHN1(A)
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	7.1	9
		kBut/h	24.2	30.7
	Input(40pa)	W	103	150
Heating ²	Capacity	kW	8	10
		kBut/h	27.3	34.1
	Input(40pa)	W	103	150
Fan motor	Model		ZKFP-150-8-1	ZKFP-150-8-12
	Type		DC	
	Brand		Nidec/Welling/Match-Well	
	Speed (H/M/L)	r/min	909/869/826/780/730/689/646	1034/972/915/853/795/732/684
Coil	Number of rows		4	4
	Tube pitch × row pitch	mm	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5
	Fin type		Hydrophilic aluminum	
	Tube OD and type	mm	Φ7 Inner groove	
	Dimensions (L×H ×W)	mm	955×336×58	955×336×58
	Number of circuits		5	8
Airflow rate ³		m ³ /h	1270/1200/1130/1060/990/920/850	1710/1600/1490/1380/1270/1160/1060
External static pressure ⁴		Pa	40 (30~150)	
Sound pressure level ⁵		dB(A)	38/36/34/32/31/29/28	41/40/38/37/35/33/32
Unit	Net dimensions ⁶ (W×H×D)	mm	1230×270×775	
	Packed dimensions (W×H×D)	mm	1355×350×795	
	Net/Gross weight	kg	36.5/44.5	37/45
Refrigerant type			R410A	
Throttle		Type	Electronic expansion valve	
		Model	D20MISZ-1R(L)	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9
connections	Drain pipe	mm	OD Φ25	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

MI2-112T2DHN1(A)/ MI2-140T2DHN1(A)

Table 1.4: MI2-112(140)T2DHN1(A) specifications

Model name			MI2-112T2DHN1(A)	MI2-140T2DHN1(A)
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	11.2	14
		kBut/h	38.2	47.8
	Input(40pa)	W	205	260
Heating ²	Capacity	kW	12.5	15.5
		kBut/h	42.7	52.9
	Input(40pa)	W	205	260
Fan motor	Model		ZKFP-240-8-1	ZKFP-240-8-1
	Type		DC	
	Brand		Nidec/Welling/Match-Well	
	Speed (H/M/L)	r/min	1001/961/916/867/813/765/722	1120/1081/1041/998/956/910/860
Coil	Number of rows		4	4
	Tube pitch × row pitch	mm	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5
	Fin type		Hydrophilic aluminum	
	Tube OD and type	mm	Φ7 Inner groove	
	Dimensions (L×H ×W)	mm	1030×378×58	1030×378×58
	Number of circuits		8	8
Airflow rate ³		m³/h	1870/1760/1660/1560/1460/1365/1275	2320/2210/2110/2010/1900/1800/1700
External static pressure ⁴		Pa	40 (30~150)	40 (30~150)
Sound pressure level ⁵		dB(A)	40/38/37/36/35/34/33	43/42/41/40/39/38/37
Unit	Net dimensions ⁶ (W×H×D)	mm	1290x300x865	1290x300x865
	Packed dimensions (W×H×D)	mm	1400x375x925	1400x375x925
	Net/Gross weight	kg	46.5/55.5	46.5/55.5
Refrigerant type			R410A	
Throttle		Type	Electronic expansion valve	
		Model	D20MISZ-1R(L)	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9
connections	Drain pipe	mm	OD Φ25	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

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MI2-160T2DHN1(A)

Table 1.5: MI2-160T2DHN1(A) specifications

Model name			MI2-160T2DHN1(A)
Power supply			1-phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kW	16.0
		kBut/h	54.6
	Input(40Pa)	W	250
Heating ²	Capacity	kW	18.0
		kBut/h	61.4
	Input(40Pa)	W	250
Fan motor	Type		DC
	Speed (H/M/L)	r/min	1020/950/900/860/810/750/690
Coil	Number of rows		4
			4
	Tube pitch × row pitch	mm	21×13.37
	Fin spacing	mm	1.5
	Fin type		Hydrophilic aluminum
	Tube OD and type	mm	Φ7 Inner groove
	Dimensions (L×H ×W)	mm	1230×378×53.5
Number of circuits			8
Airflow rate ³		m ³ /h	2300/2100/2000/1900/1750/1600/1450
External static pressure ⁴		Pa	40 (30~150)
Sound pressure level ⁵		dB(A)	42/41/39/38/37/35/34
Unit	Net dimensions ⁶ (W×H×D)	mm	1490×300×865
	Packed dimensions (W×H×D)	mm	1605×345×955
	Net/Gross weight	kg	54/63
Refrigerant type			R410A
Throttle		Type	Electronic expansion valve
		Model	D20MISZ-1R(L)
Design pressure (H/L)		MPa	4.4/2.6
Pipe	Liquid/Gas pipe	mm	Φ9.53/Φ15.9
connections	Drain pipe	mm	OD Φ25

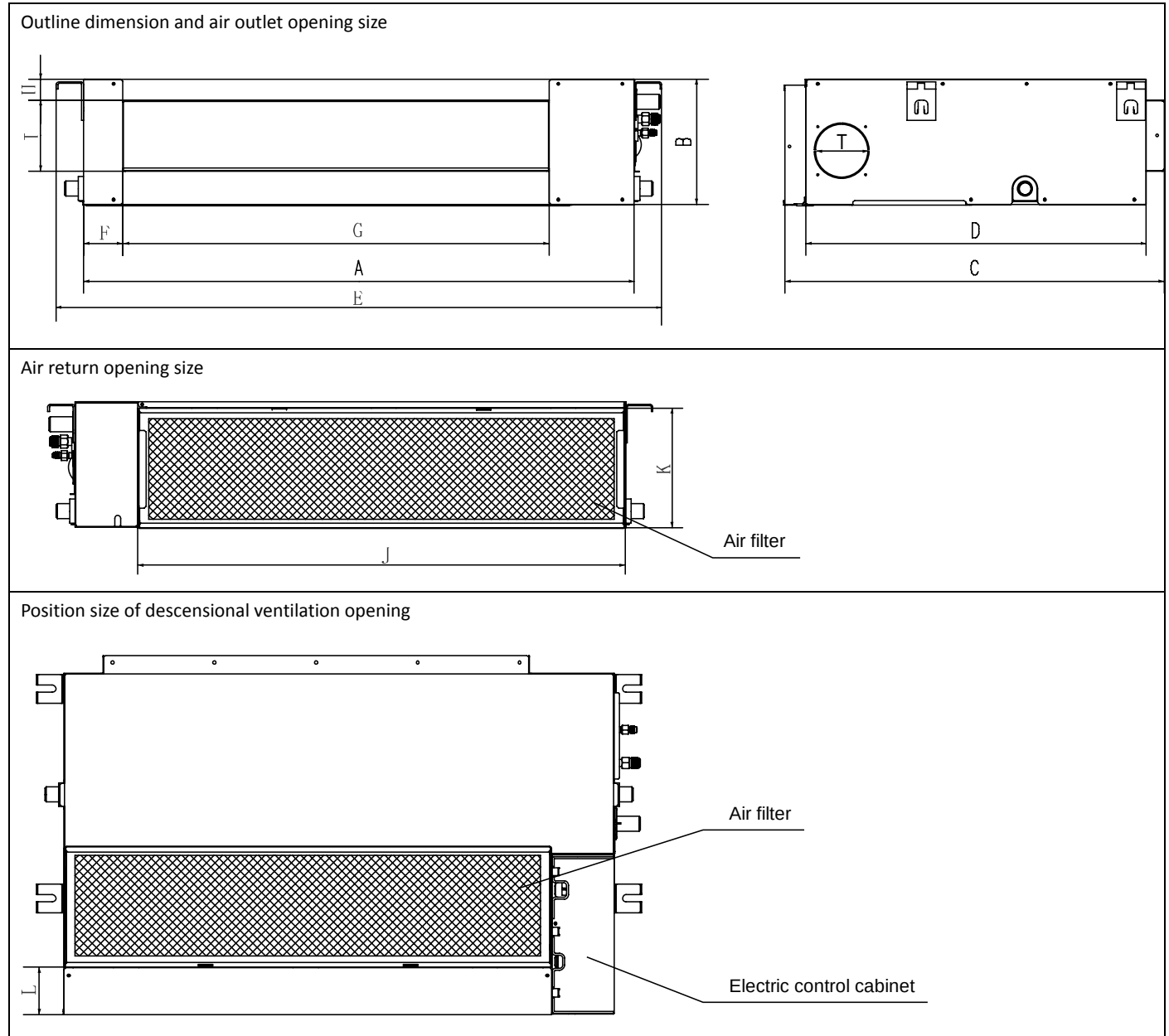
Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

2 Dimensions

2.1 Unit Dimensions

Figure 2.1: Medium Static Pressure Duct dimensions (unit: mm)



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Size of mounted lug

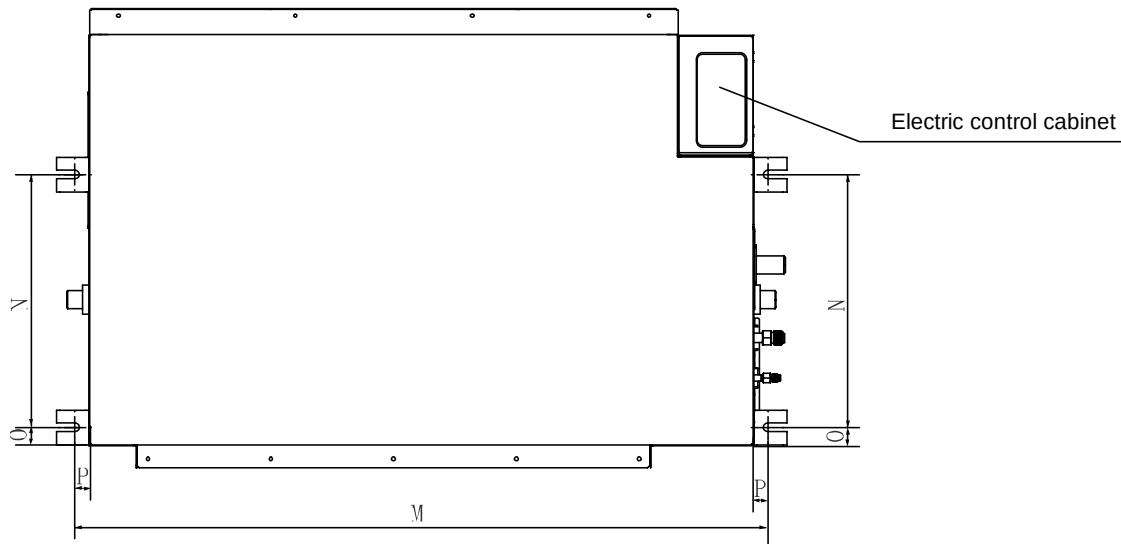


Table 2.1: Medium Static Pressure Duct dimensions

Model names	Dimension (mm)							
	A	B	C	D	E	F	G	H
MI2-22T2DHN1(A) - MI2-36T2DHN1(A)	700	210	500	450	780	45	512	17
MI2-45T2DHN1(A) - MI2-56T2DHN1(A)	921	270	635	572	1010	67	711	35
MI2-71T2DHN1(A) - MI2-90T2DHN1(A)	1140	270	775	710	1230	65	933	35
MI2-112T2DHN1(A) - MI2-140T2DHN1(A)	1200	300	865	800	1290	85	969	40
MI2-160T2DHN1(A)	1400	300	865	800	1490	85	1169	40
Model names	Dimension (mm)							
	I	J	K	L	M	N	O	P
MI2-22T2DHN1(A) - MI2-36T2DHN1(A)	145	600	196	-	740	350	35	20
MI2-45T2DHN1(A) - MI2-56T2DHN1(A)	178	813	260	19	959	349	35	20
MI2-71T2DHN1(A) - MI2-90T2DHN1(A)	179	1035	260	20	1180	490	26	20
MI2-112T2DHN1(A) - MI2-140T2DHN1(A)	204	1094	288	45	1240	500	26	20
MI2-160T2DHN1(A)	204	1294	288		1440	500	26	20

Table 2.2: Medium Static Pressure Duct piping connections

Model names	Gas pipe (mm)	Liquid pipe (mm)
MI2-22T2DHN1(A) - MI2-45T2DHN1(A)	Φ12.7	Φ6.35
MI2-56T2DHN1(A) - MI2-160T2DHN1(A)	Φ15.9	Φ9.53

3 Unit Placement

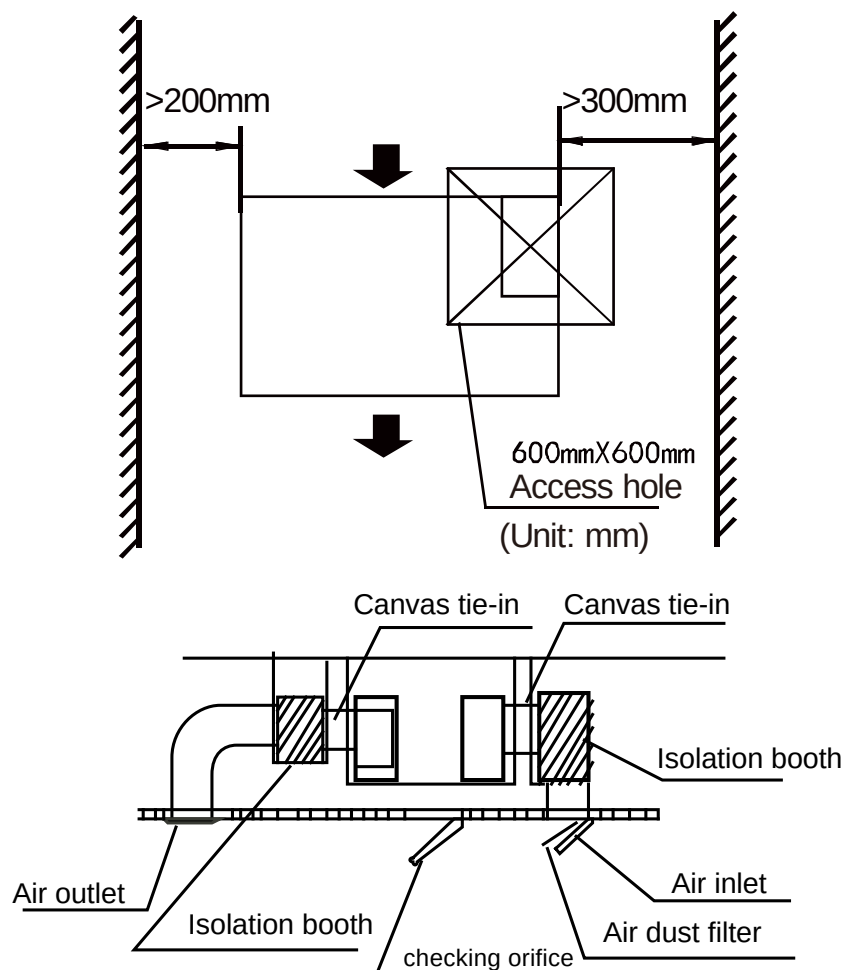
3.1 Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
 - Where exposure to direct radiation from a high-temperature heat source or to interference from a source of electromagnetic radiation may occur.
 - Where dust or dirt may affect heat exchangers.
 - Where exposure to oil or to corrosive or harmful gases, such as acidic or alkaline gases, may occur.
 - Where exposure to salinity may occur, such as seaside locations.
 - Where highly flammable materials are present.
 - Where exposure to oily air may occur, such as a kitchen.
 - Where exposure to very high humidity may occur, such as a laundry.
- Units should be installed in positions where:
 - The ceiling is horizontal and is able to bear the unit's weight.
 - There are no obstructions that could impede the airflow into and out of the unit.
 - The airflow out of the unit can reach throughout the room.
 - There is sufficient space for access during installation, servicing and maintenance.
 - The refrigerant piping and drain piping can be easily connected to the refrigerant piping and drain piping systems.
 - Short-circuit ventilation (where outlet air returns quickly to a unit's air inlet) will not occur.

3.2 Space Requirements

Figure 3.1: Medium Static Pressure Duct space requirements (unit: mm)

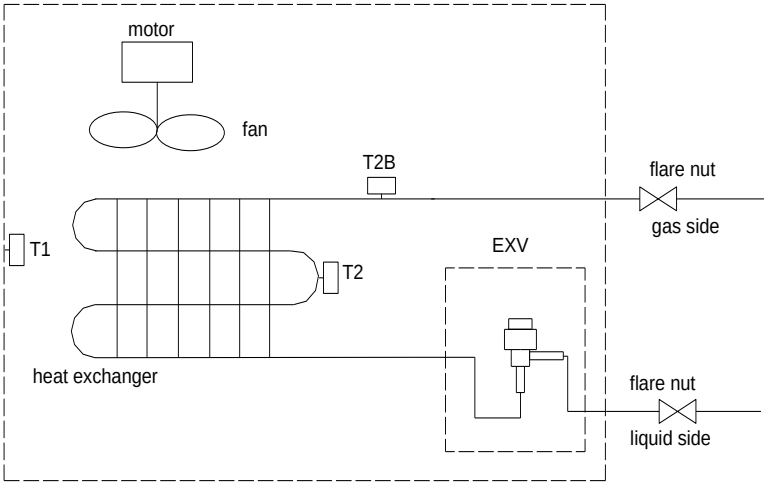


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4 Piping Diagram

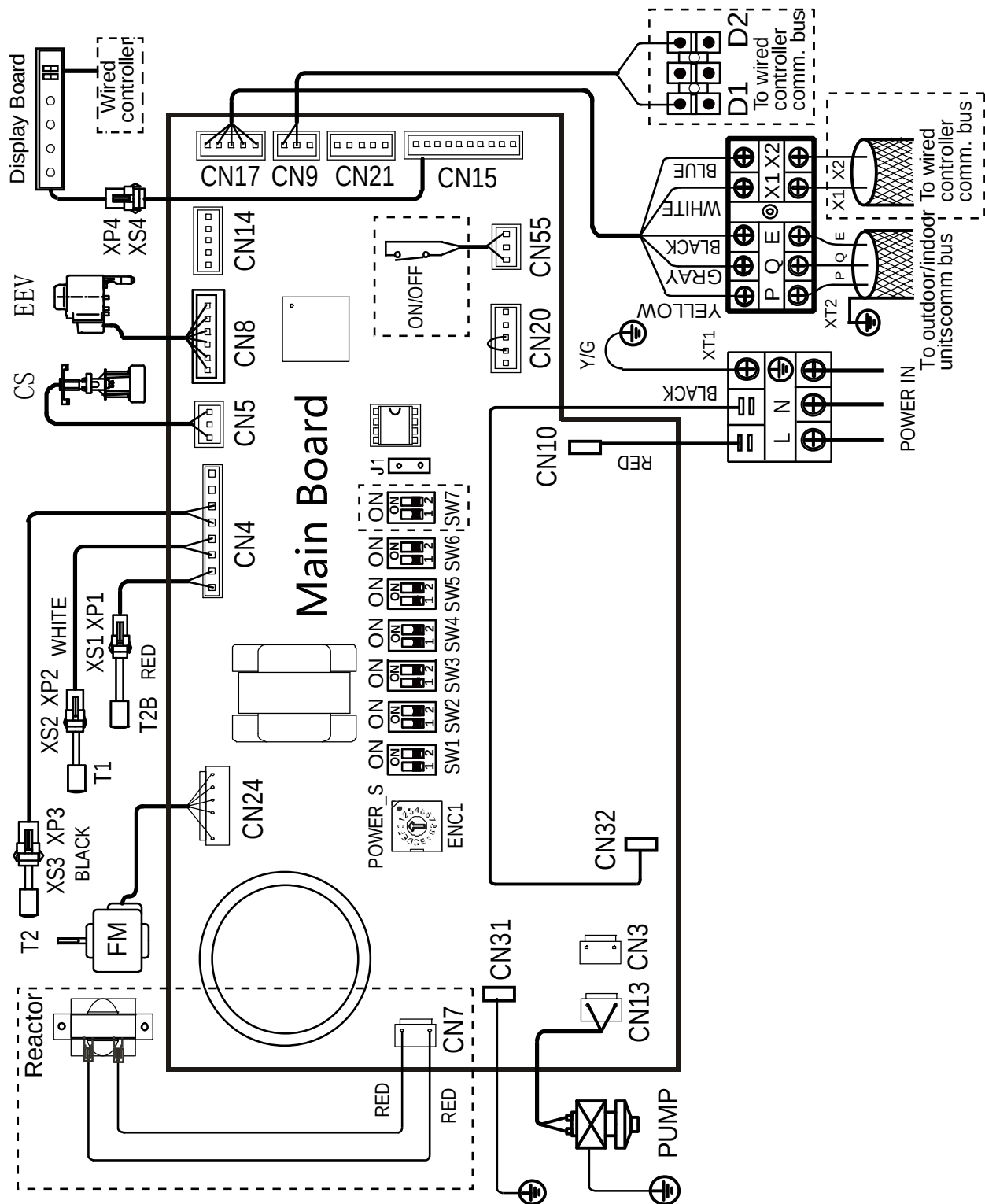
Figure 4.1: Medium Static Pressure Duct piping diagram



Legend	
T1	Indoor ambient temperature sensor
T2	Indoor heat exchanger mid-point temperature sensor
T2B	Indoor heat exchanger outlet temperature sensor

5 Wiring Diagrams

Figure 5.1: MI2-22T2DHN1(A)- MI2-140T2DHN1(A)



Notes for installers and service engineers

Caution

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals – loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the electric control box cover risks fire or electric shock.
- Switch ENC1 (indoor unit capacity setting) is factory-set and its setting should normally not be changed. The only circumstances in which a switch ENC1 might need to be set in the field is when replacing a main PCB. When replacing a main PCB, ensure that the capacity setting on switch ENC1 on the new PCB is consistent with the unit capacity given on the unit's nameplate.

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6 Fan Performance

Figure 6.1: MI2-22(28/36)T2DHN1(A) fan performance

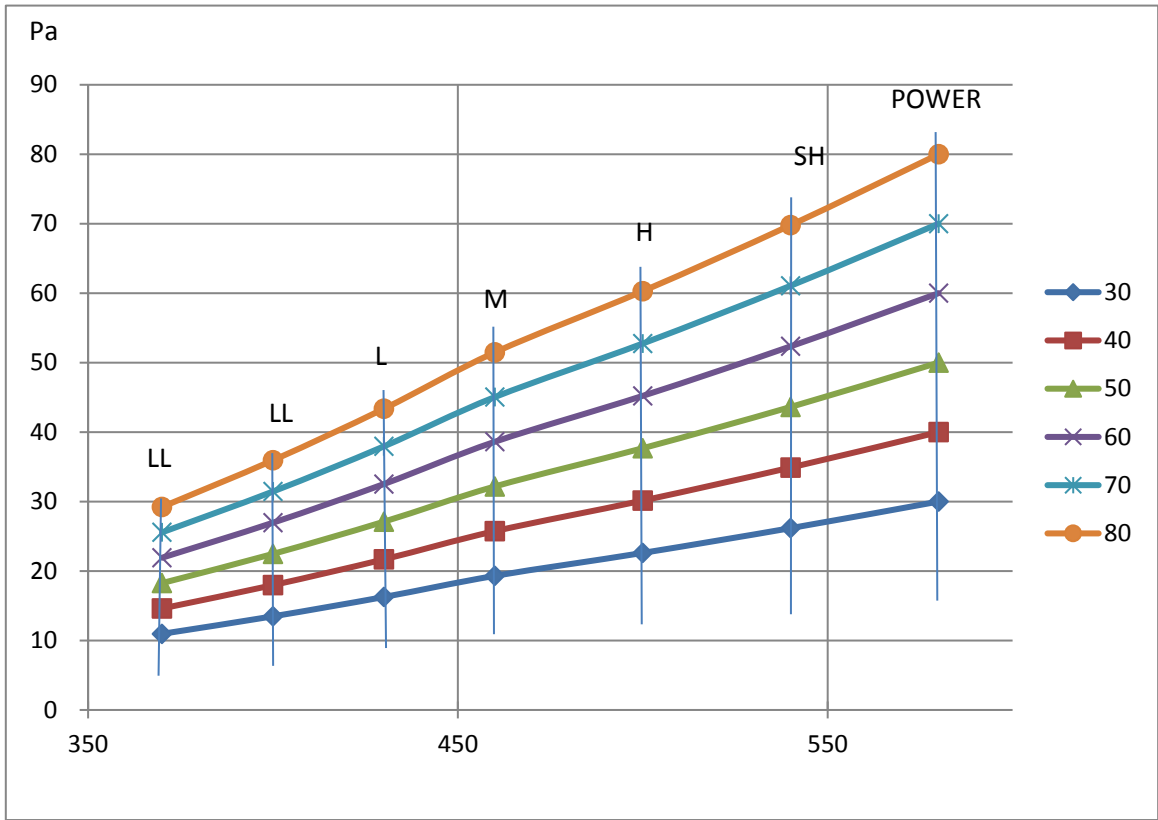


Figure 6.2: MI2-45T2DHN1(A) fan performance

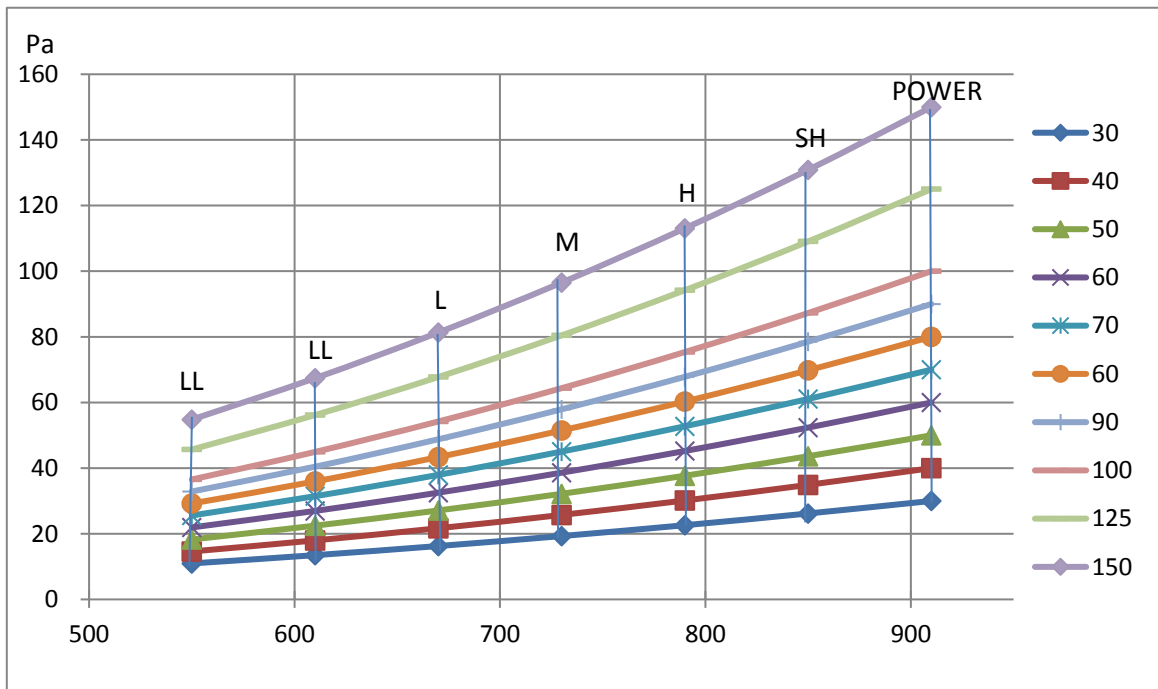


Figure 6.3: MI2-56T2DHN1(A) fan performance

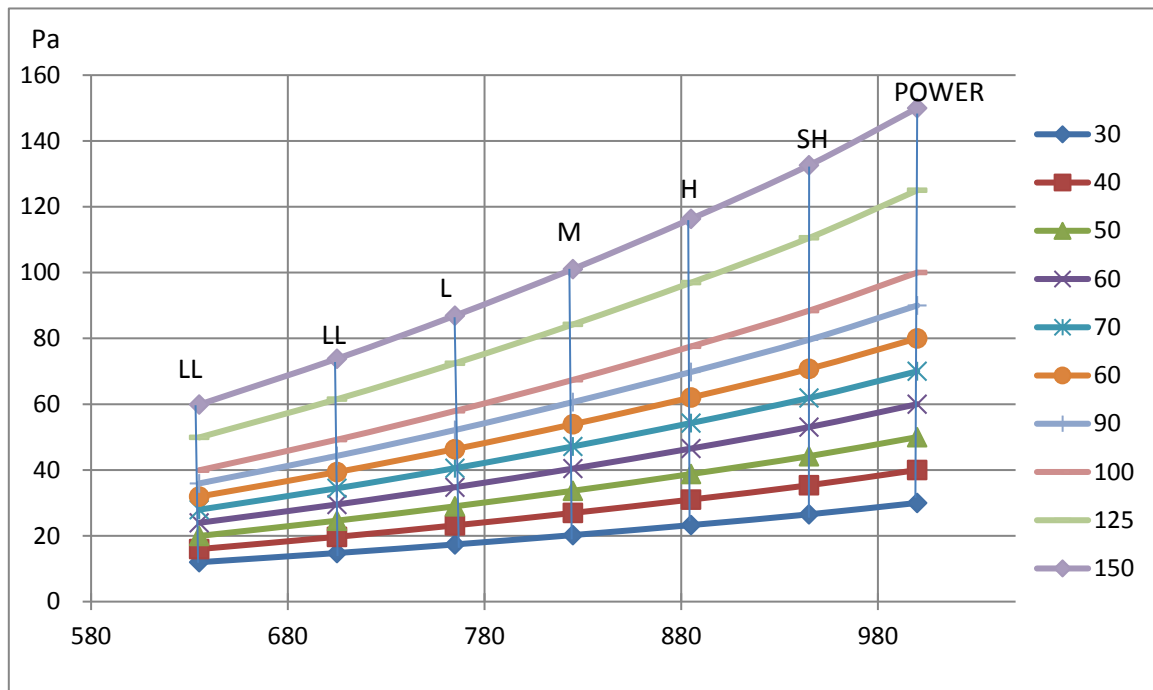
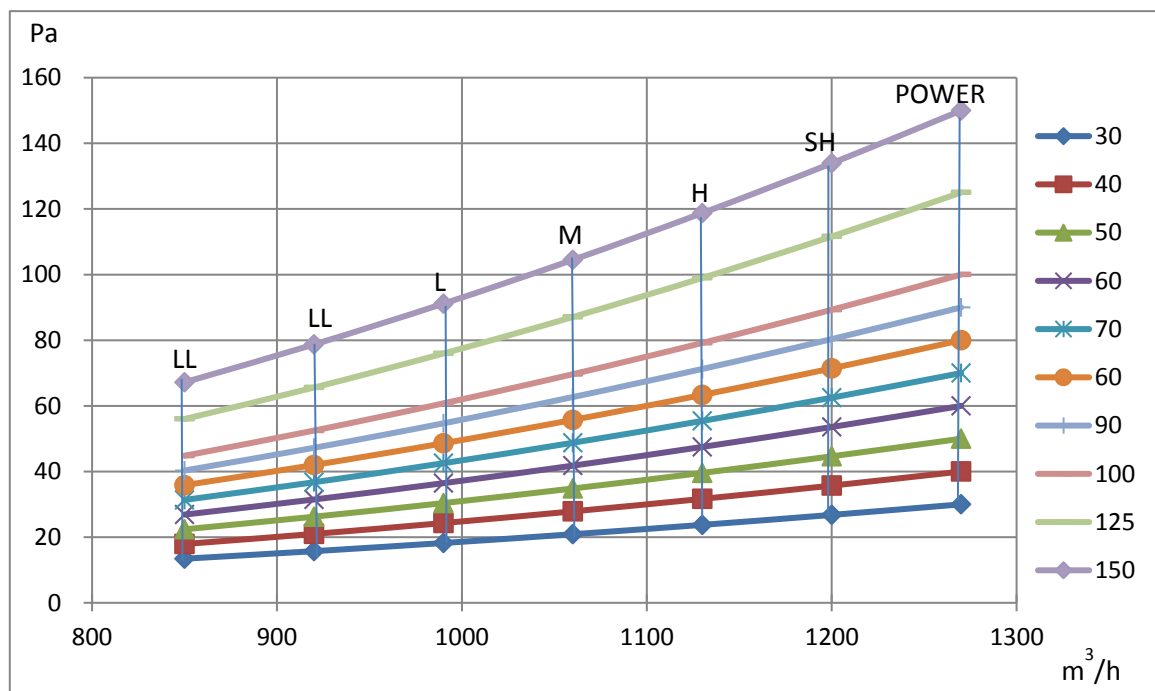


Figure 6.4: MI2-71T2DHN1(A) fan performance



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Figure 6.5: MI2-90T2DHN1(A) fan performance

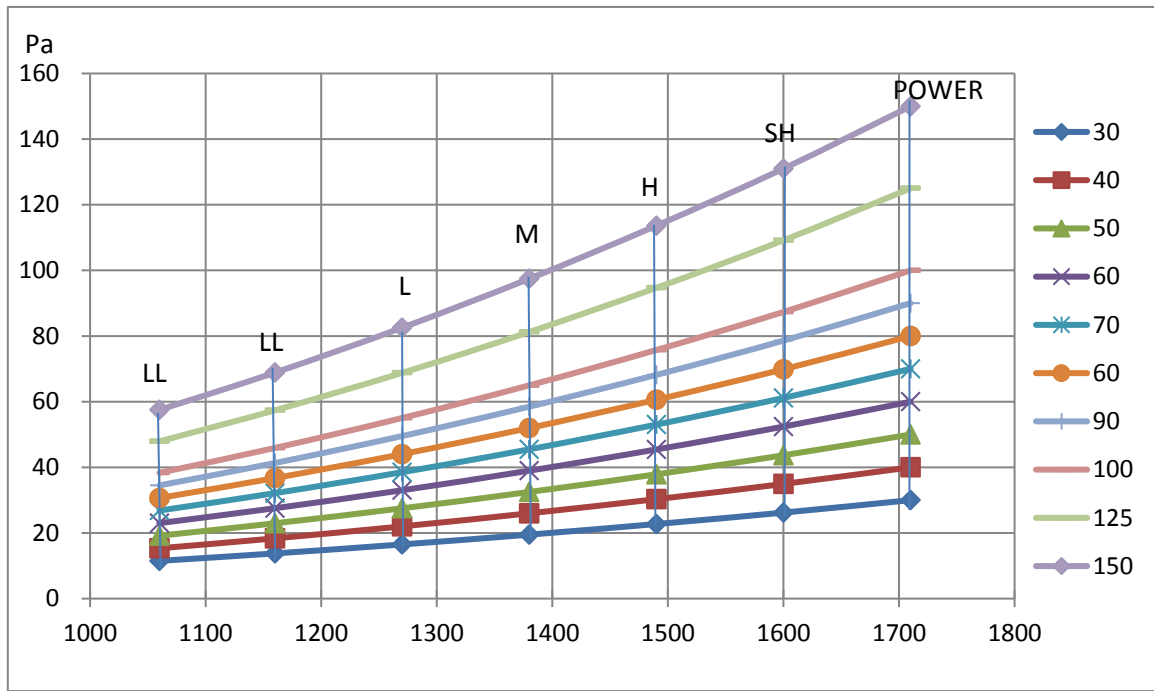


Figure 6.6: MI2-112T2DHN1(A) fan performance

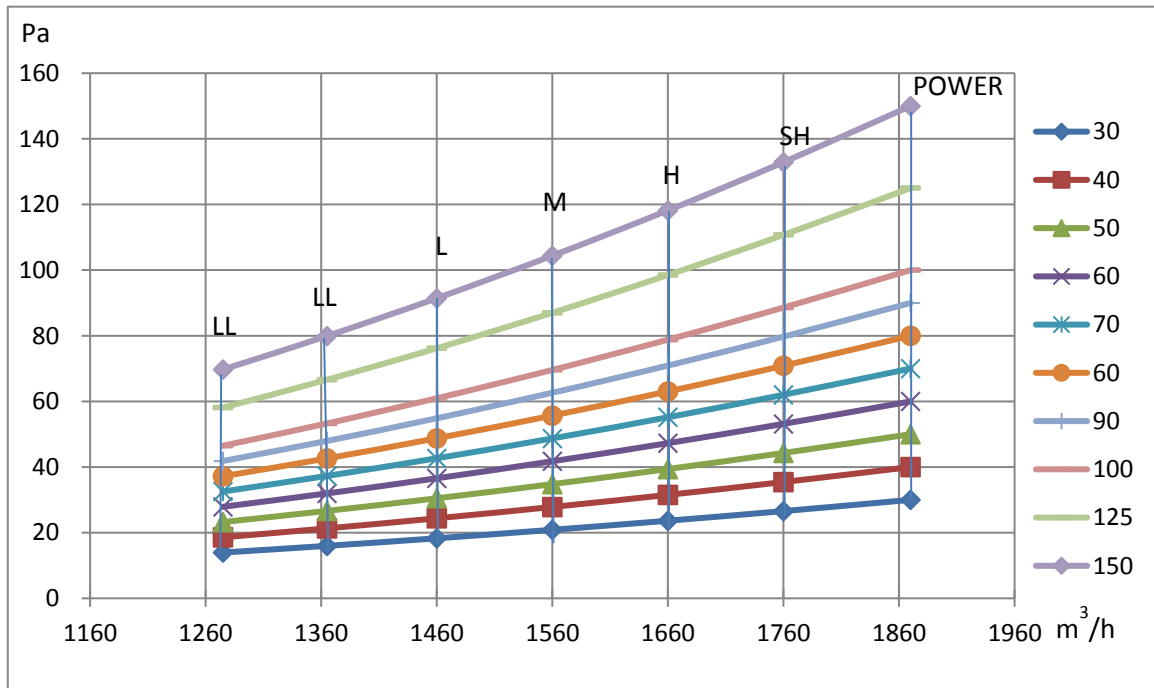


Figure 6.7: MI2-140T2DHN1(A) fan performance

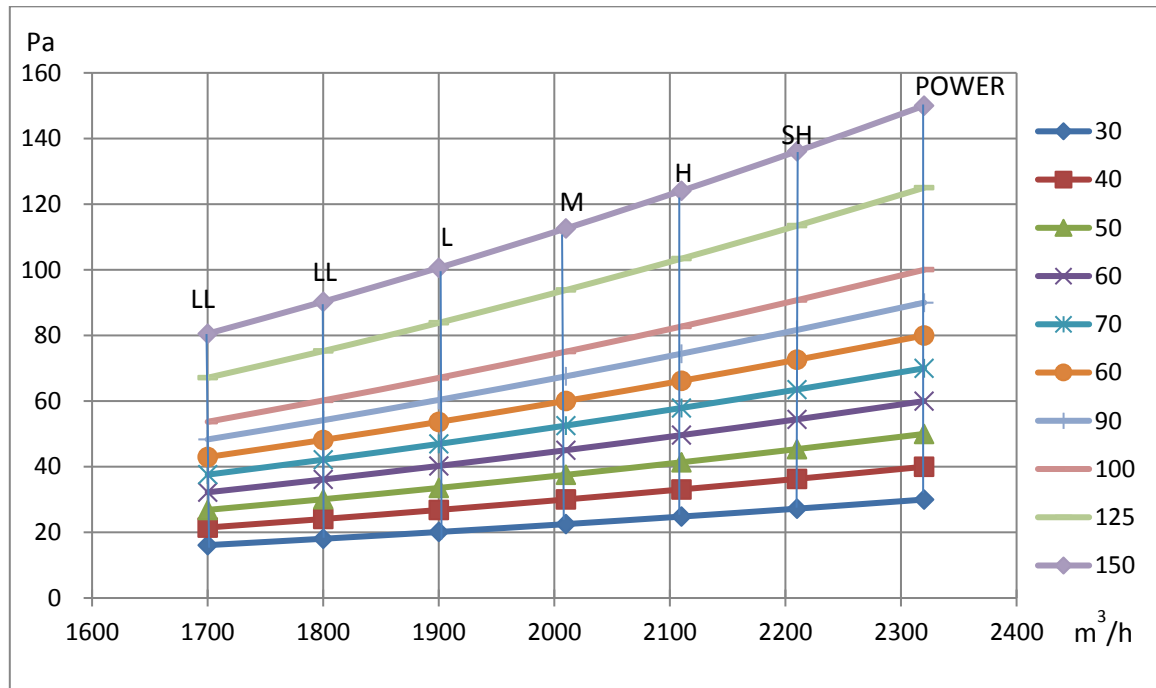
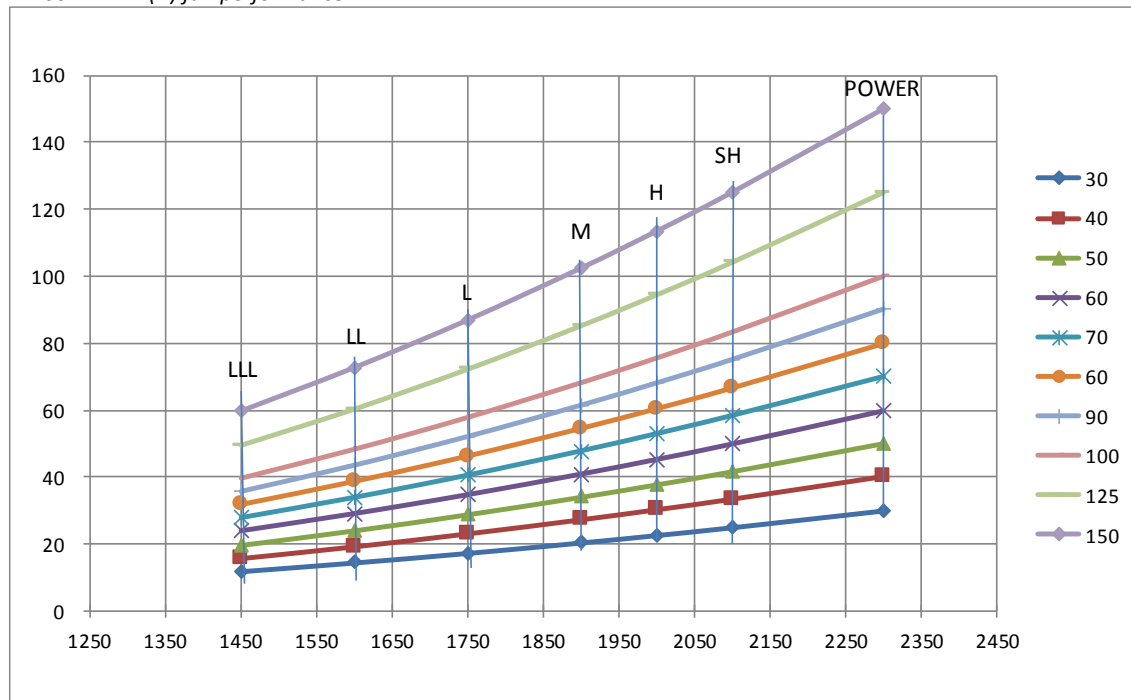


Figure 6.8: MI2-160T2DHN1(A) fan performance



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Table 6.1: ESP settings through DIP switch SW2

Capacity	ESP1	ESP2	ESP3	ESP4
2.2-3.6kW	10Pa	30Pa	50Pa	80Pa
4.5-14kW	40Pa	70Pa	100Pa	150Pa
16kW	40Pa	70Pa	100Pa	150Pa

Table 6.2: ESP settings through the new wired controller

Capacity	00	01	02	03	04	05	06	07	08	09
2.2-3.6kW	0Pa	10Pa	20Pa	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	80Pa
4.5-14kW	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa	125Pa	150Pa

7 Capacity Tables

7.1 Cooling Capacity Table

Table 7.1: Medium-high Static Pressure Duct cooling capacity

Model	Indoor air temperature (°C WB/DB)													
	14/20		16/23		18/26		19/27		20/28		22/30		24/32	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
MI2-22T2DHN1(A)	2.0	2.0	2.1	2.0	2.2	1.9	2.2	1.9	2.3	1.9	2.3	1.7	2.4	1.7
MI2-28T2DHN1(A)	2.5	2.5	2.7	2.5	2.8	2.5	2.8	2.3	2.9	2.3	2.9	2.2	3.0	2.1
MI2-36T2DHN1(A)	3.2	3.2	3.4	3.1	3.6	3.1	3.6	3.0	3.7	3.0	3.8	2.8	3.9	2.7
MI2-45T2DHN1(A)	4.0	3.8	4.3	3.8	4.5	3.8	4.5	3.7	4.6	3.6	4.7	3.4	4.8	3.3
MI2-56T2DHN1(A)	5.0	4.7	5.3	4.7	5.6	4.7	5.6	4.5	5.7	4.4	5.8	4.2	6.0	4.1
MI2-71T2DHN1(A)	6.3	5.9	6.7	6.0	7.0	5.9	7.1	5.7	7.2	5.6	7.4	5.4	7.6	5.2
MI2-90T2DHN1(A)	8.0	7.6	8.5	7.6	8.9	7.5	9.0	7.3	9.1	7.1	9.4	6.8	9.6	6.5
MI2-112T2DHN1(A)	9.9	9.3	10.6	9.4	11.1	9.4	11.2	9.1	11.3	8.8	11.6	8.4	11.9	8.1
MI2-140T2DHN1(A)	12.4	11.7	13.2	11.8	13.8	11.7	14.0	11.3	14.2	11.0	14.5	10.5	14.9	10.1
MI2-160T2DHN1(A)	14.2	13.4	15.1	13.4	15.8	13.3	16.0	12.9	16.2	12.6	16.6	12.0	17.0	11.5

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity(kW)

Notes:

1.Shaded cells indicate rating condition

7.2 Heating Capacity Table

Table 7.2: Medium-high Static Pressure Duct heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MI2-22T2DHN1(A)	2.8	2.8	2.6	2.5	2.4	2.3
MI2-28T2DHN1(A)	3.4	3.4	3.2	3.1	3.0	2.8
MI2-36T2DHN1(A)	4.2	4.2	4.0	3.8	3.8	3.5
MI2-45T2DHN1(A)	5.3	5.3	5.0	4.8	4.7	4.4
MI2-56T2DHN1(A)	6.7	6.6	6.3	6.1	5.9	5.5
MI2-71T2DHN1(A)	8.5	8.4	8.0	7.8	7.5	7.0
MI2-90T2DHN1(A)	10.6	10.5	10.0	9.7	9.4	8.8
MI2-112T2DHN1(A)	13.3	13.1	12.5	12.1	11.8	10.9
MI2-140T2DHN1(A)	17.0	16.8	16.0	15.5	15.0	13.9
MI2-160T2DHN1(A)	18.0	17.9	17.0	16.5	16.0	14.8

Abbreviations:

TC: Total capacity (kW)

Notes:

1.Shaded cells indicate rating condition

The 2nd Generation DC Duct Series VRF Indoor Units



8 Electrical Characteristics

Table 8.1: Medium Static Pressure Duct electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
MI2-22T2DHN1(A)	50/60	220-240	198	264	0.77	15	0.03	0.62
MI2-28T2DHN1(A)	50/60	220-240	198	264	0.77	15	0.03	0.62
MI2-36T2DHN1(A)	50/60	220-240	198	264	0.77	15	0.03	0.62
MI2-45T2DHN1(A)	50/60	220-240	198	264	1.4	15	0.15	1.1
MI2-56T2DHN1(A)	50/60	220-240	198	264	1.6	15	0.15	1.24
MI2-71T2DHN1(A)	50/60	220-240	198	264	2	15	0.15	1.52
MI2-90T2DHN1(A)	50/60	220-240	198	264	2.5	15	0.15	1.98
MI2-112T2DHN1(A)	50/60	220-240	198	264	2.54	15	0.24	1.91
MI2-140T2DHN1(A)	50/60	220-240	198	264	3.2	15	0.24	2.51
MI2-160T2DHN1(A)	50/60	220-240	198	264	2.6	15	0.24	1.92

Abbreviations:
MCA: Minimum Circuit Amps
MFA: Maximum Fuse Amps
FLA: Full Load Amps

9 Sound Levels

9.1 Overall

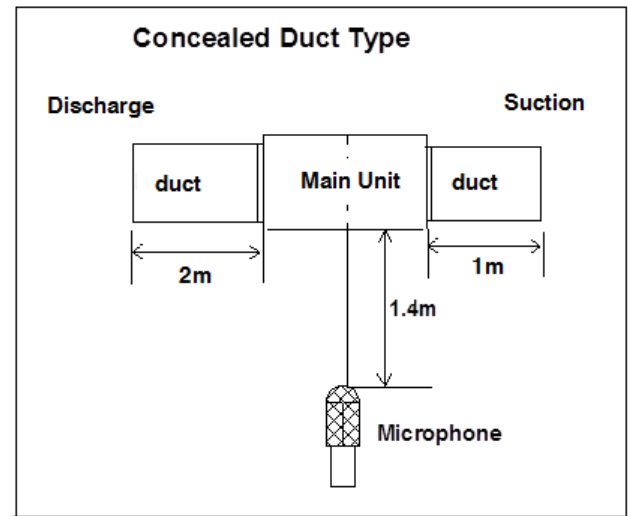
Table 9.1: Medium Static Pressure Duct sound pressure levels¹

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
MI2-22T2DHN1(A)	32	31	29	28	26	25	23
MI2-28T2DHN1(A)	32	31	29	28	26	25	23
MI2-36T2DHN1(A)	33	32	31	30	28	27	25
MI2-45T2DHN1(A)	38	36	34	33	31	30	28
MI2-56T2DHN1(A)	40	37	35	34	33	31	30
MI2-71T2DHN1(A)	37	35	33	32	30	29	28
MI2-90T2DHN1(A)	37	35	34	33	31	29	28
MI2-112T2DHN1(A)	39	38	38	37	35	34	33
MI2-140T2DHN1(A)	41	39	38	37	36	35	33
MI2-160T2DHN1(A)	42	41	39	38	37	35	34

Notes:

1. Sound pressure levels are measured 1.4m below the unit in a semi-anechoic chamber. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Figure 9.1: Medium Static Pressure Duct sound pressure level measurement



9.2 Octave Band Levels

Figure 9.2: MI2-22(28)T2DHN1(A) octave band levels

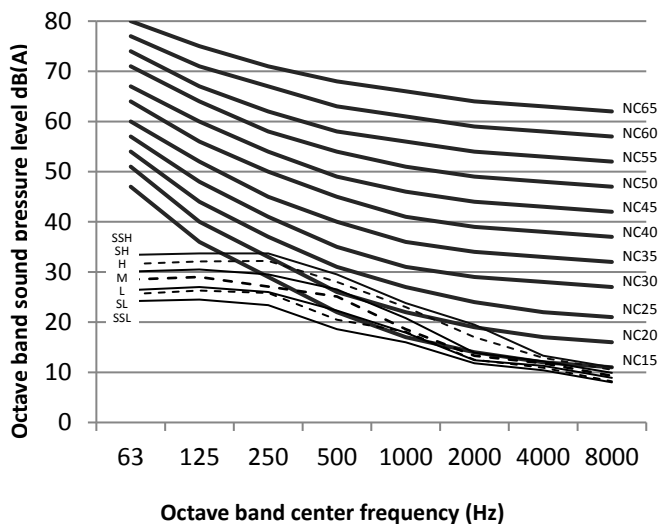
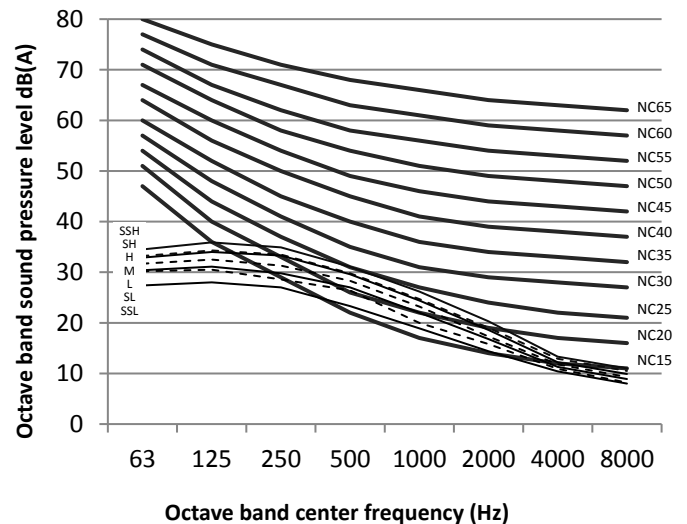


Figure 9.3: MI2-36T2DHN1(A) octave band levels



The 2nd Generation DC Duct Series VRF Indoor Units



Figure 9.4: MI2-45T2DHN1(A) octave band levels

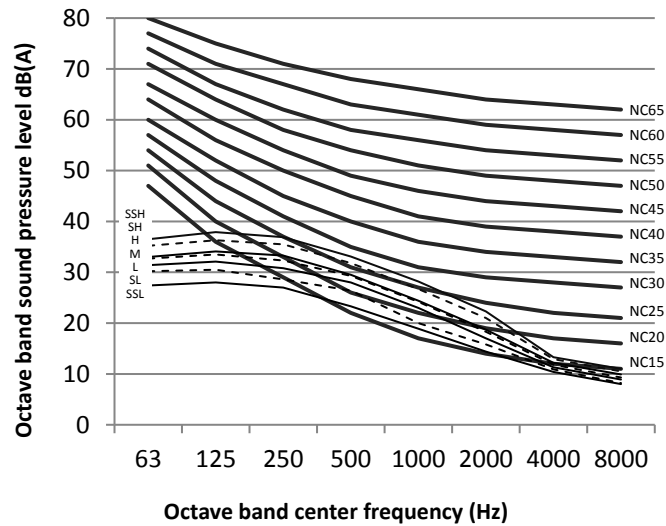


Figure 9.5: MI2-56T2DHN1(A) octave band levels

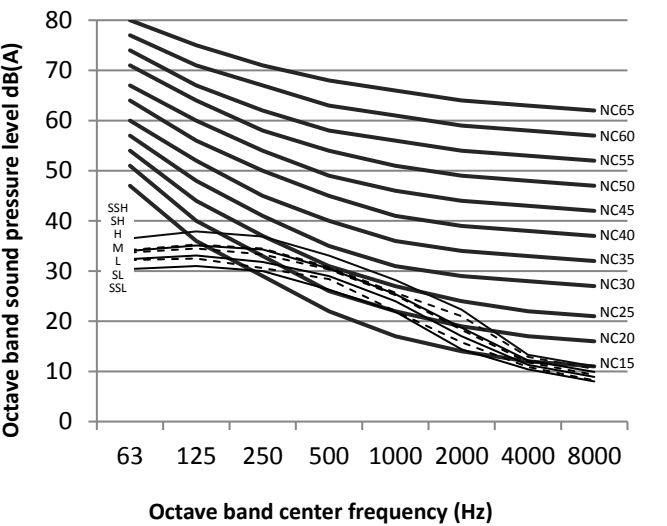


Figure 9.6: MI2-71T2DHN1(A) octave band levels

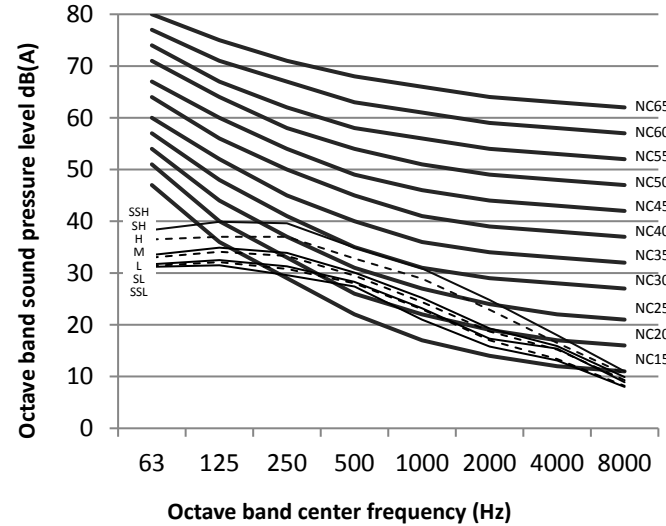


Figure 9.7: MI2-90T2DHN1(A) octave band levels

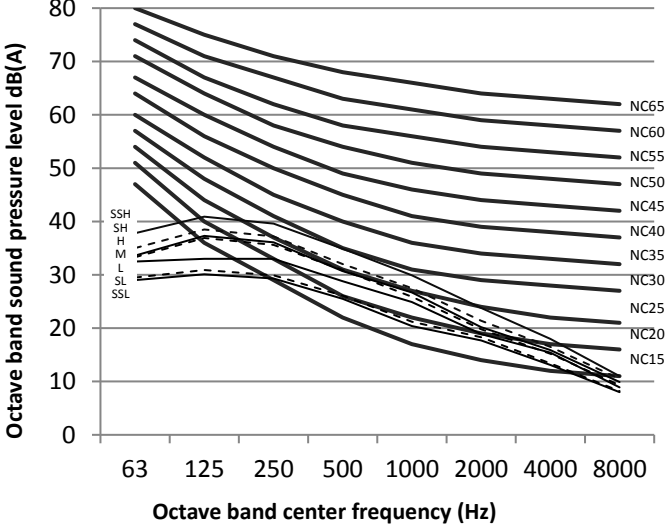


Figure 9.8: MI2-112T2DHN1(A) octave band levels

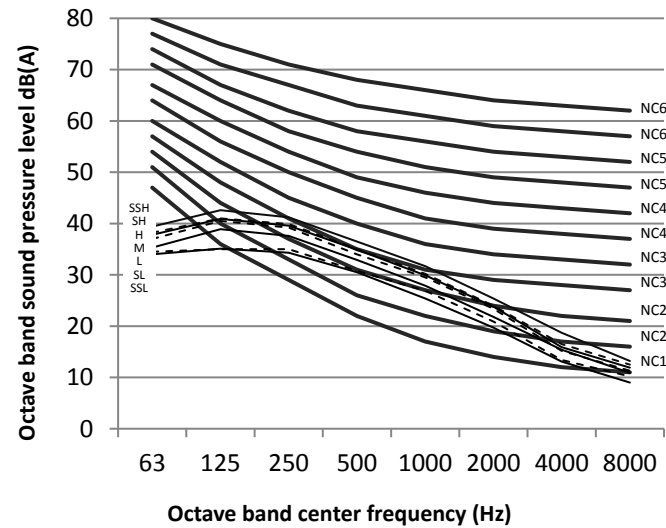


Figure 9.9: MI2-140T2DHN1(A) octave band levels

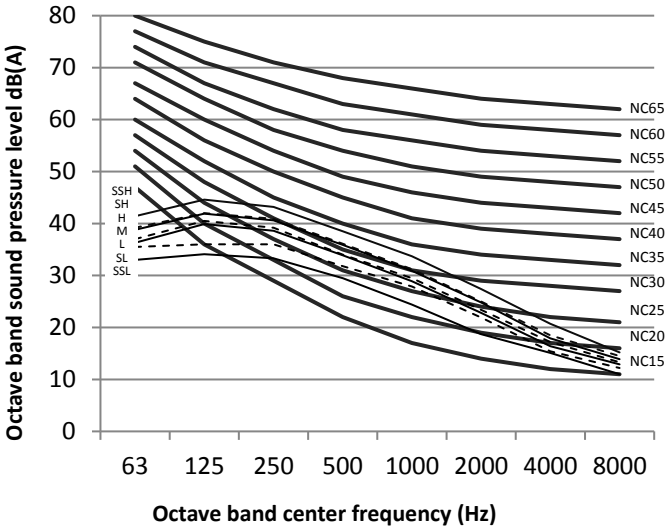
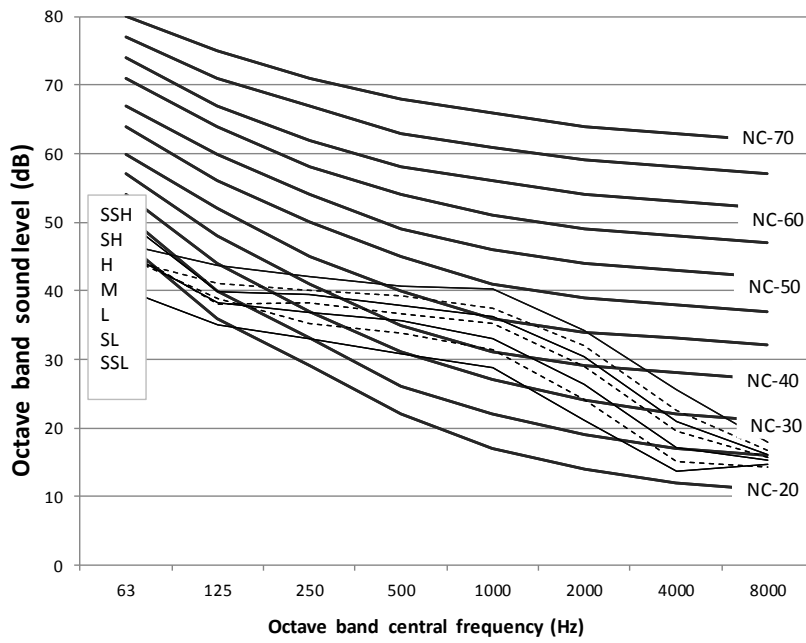


Figure 9.10: MI2-160T2DHN1(A) octave band levels



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