

Engineering Data

Medium Static Pressure Duct VRF IDU



MI2-22T2DHN1

MI2-80T2DHN1

MI2-28T2DHN1

MI2-90T2DHN1

MI2-36T2DHN1

MI2-112T2DHN1

MI2-45T2DHN1

MI2-140T2DHN1

MI2-56T2DHN1

MI2-160T2DHN1

MI2-71T2DHN1

Medium Static Pressure Duct

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1 Specifications

MI2-22T2DHN1 / MI2-28T2DHN1 / MI2-36T2DHN1

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

Model name			MI2-22T2DHN1	MI2-28T2DHN1	MI2-36T2DHN1
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	W	40	40	45
Heating ²	Capacity	kW	2.6	3.2	4.0
		kBut/h	8.2	10.9	13.6
	Input	W	40	40	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	1010/936/863/790/740/690/640		1070/1004/937/870/830/790/750
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		3	4	4
Airflow rate ³		m ³ /h	520/480/440/400/360/330/300		580/540/500/460/430/400/370
External static pressure ⁴		Pa	10 (0~50)		
Sound pressure level ⁵		dB(A)	32/31/29/28/26/25/23		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 / MI2-56T2DHN1 / MI2-71T2DHN1

Table 1.2: MI2-45(56, 71)T2DHN1 specifications

Model name			MI2-45T2DHN1	MI2-56T2DHN1	MI2-71T2DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBut/h	15.4	19.1	24.2
	Input	W	92	92	98
Heating ²	Capacity	kW	5	6.3	8
		kBut/h	17.1	21.5	27.3
	Input	W	92	92	98
Fan motor	Model		ZKSP-30-8-3L	ZKSP-30-8-3L	ZKSP-60-8-2
	Type		DC		
	Brand		Nidec/Welling/Yongan		
	Speed (H/M/L)	r/min	1080/1027/974/920/ 827/734/640	1090/1044/997/950/ 900/850/800	1070/1024/977/930/ 877/824/770
Coil	Number of rows		2	2	2
	Tube pitch × row pitch	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.3	1.3	1.3
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ7 Inner groove		
	Dimensions (L×H ×W)	mm	735×147×26.74	735×147×26.74	952×147×26.74
	Number of circuits		6	6	6
Airflow rate ³		m ³ /h	800/740/680/620/ 540/480/400	830/760/720/680/ 640/600/560	1000/960/900/840/ 780/720/680
External static pressure ⁴		Pa	10 (0~50)		
Sound pressure level ⁵		dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28
Unit	Net dimensions ⁶	mm	1000x210x500		1220x210x500
	Packed dimensions (W×H×D)	mm	1115x285x525		1335x285x525
	Net/Gross weight	kg	21.5/25		25.7/30.2
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	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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MI2-80T2DHN1 / MI2-90T2DHN1

Table 1.3: MI2-80(90)T2DHN1 specifications

Model name			MI2-80T2DHN1	MI2-90T2DHN1
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	8	9
		kBut/h	27.3	30.7
	Input	W	110	120
Heating ²	Capacity	kW	9	10
		kBut/h	30.7	34.1
	Input	W	110	120
Fan motor	Model		ZKFP-150-8-1	ZKFP-150-8-1
	Type		DC	
	Brand		Nidec/Welling/Match-Well	
	Speed (H/M/L)	r/min	800/757/714/670/627/584/540	800/757/714/670/627/584/540
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	1260/1180/1100/1020/940/860/780	1260/1180/1100/1020/940/860/780
External static pressure ⁴		Pa	20 (10~100)	
Sound pressure level ⁵		dB(A)	37/35/34/33/31/29/28	37/35/34/33/31/29/28
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)	BD24FKS(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 / MI2-140T2DHN1

Table 1.4: MI2-112(140)T2DHN1 specifications

Model name			MI2-112T2DHN1	MI2-140T2DHN1
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	11.2	14
		kBut/h	38.2	47.8
	Input	W	200	250
Heating ²	Capacity	kW	12.5	15.5
		kBut/h	42.7	52.9
	Input	W	200	250
Fan motor	Model		ZKFP-150-8-1	ZKFP-240-8-1
	Type		DC	
	Brand		Nidec/Welling/Match-Well	
	Speed (H/M/L)	r/min	920/884/847/810/770/730/690	1060/1010/960/910/860/810/760
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	1030×378×58
	Number of circuits		8	8
Airflow rate ³		m ³ /h	1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360
External static pressure ⁴		Pa	20 (10~100)	40 (30~150)
Sound pressure level ⁵		dB(A)	39/38/38/37/35/34/33	41/39/38/37/36/35/33
Unit	Net dimensions ⁶ (W×H×D)	mm	1230×270×775	1290×300×865
	Packed dimensions	mm	1355×350×795	1400×375×925
	Net/Gross weight	kg	37/45	46.5/55.5
Refrigerant type			R410A	
Throttle		Type	Electronic expansion valve	
		Model	BD24FKS(L)	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	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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MI2-160T2DHN1

Table 1.4: MI2-160T2DHN1 specifications

Model name			MI2-160T2DHN1
Power supply			1-phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kW	16.0
		kBut/h	54.6
	Input	W	250
Heating ²	Capacity	kW	18.0
		kBut/h	61.4
	Input	W	250
Fan motor	Type		DC
	Speed (H/M/L)	r/min	1020/950/900/860/810/750/690
Coil	Number of rows		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	mm	1605×345×955
	Net/Gross weight	kg	54/63
Refrigerant type			R410A
Throttle	Type	Electronic expansion valve	
	Model	BD24FKS(L)	
Design pressure (H/L)		MPa	4.4/2.6
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25

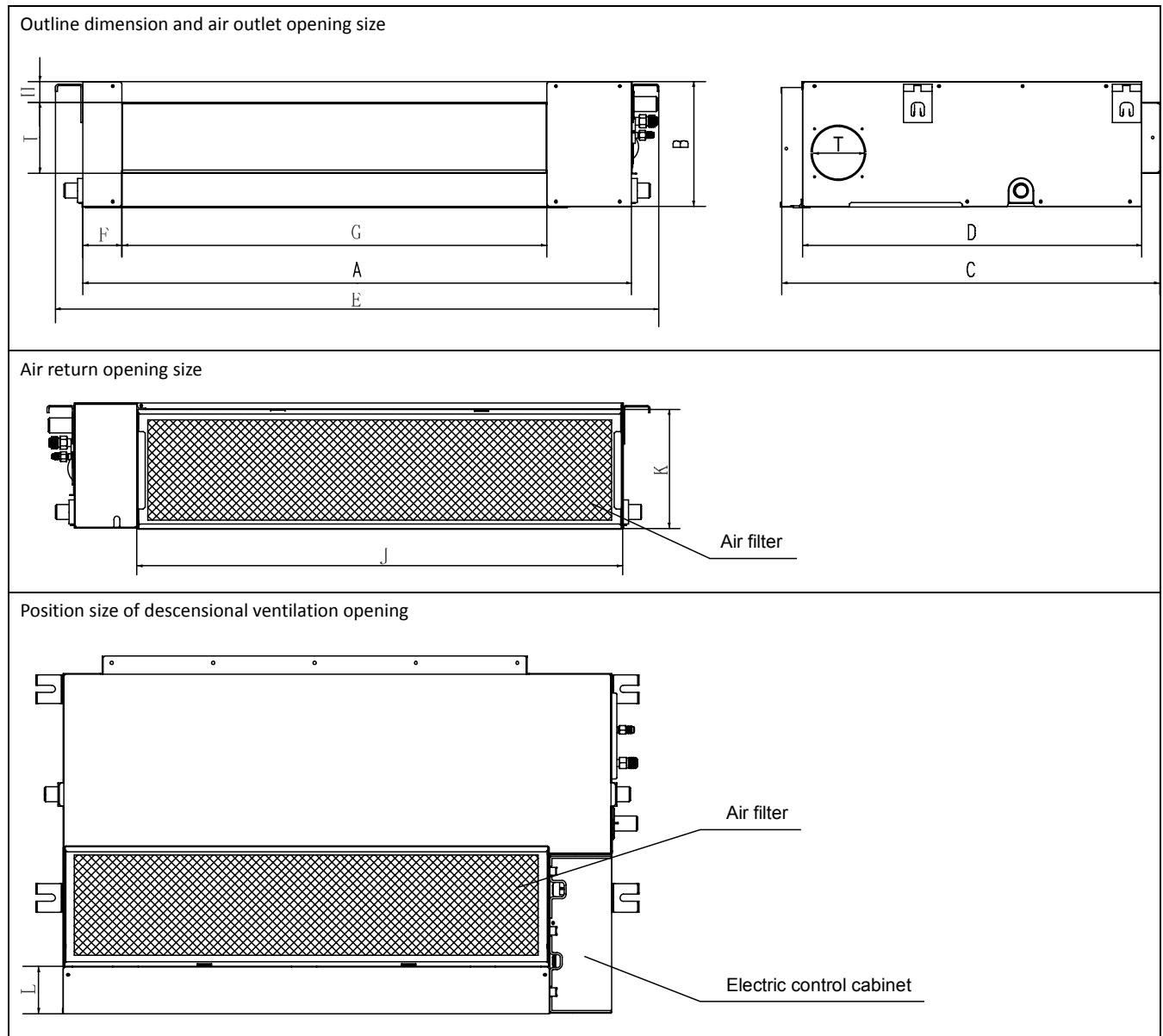
Notes:

- 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.

2 Dimensions

2.1 Unit Dimensions

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



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Size of mounted lug

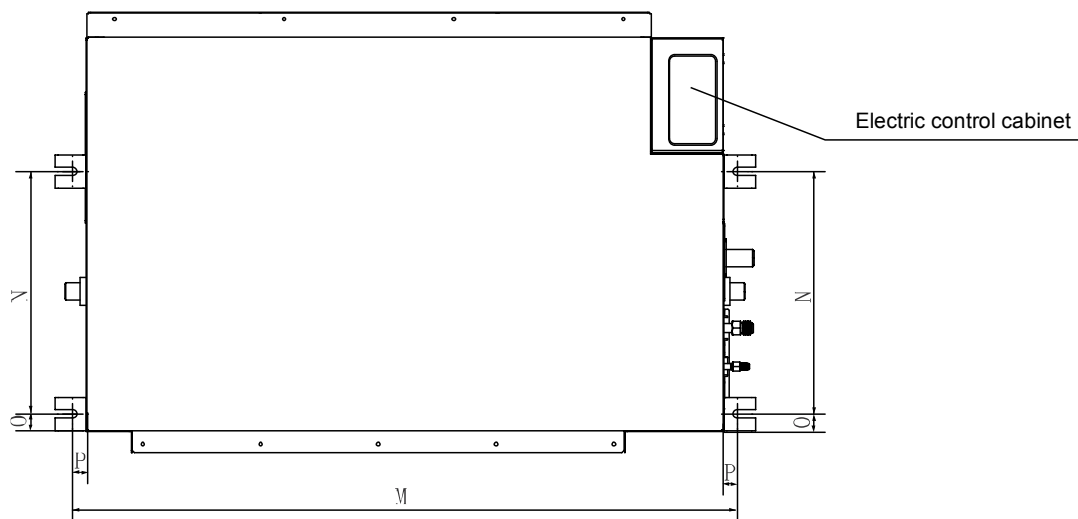


Table 2.1: Medium Static Pressure Duct dimensions

Model names	Dimension (mm)							
	A	B	C	D	E	F	G	H
MI2-22T2DHN1 - MI2-36T2DHN1	700	210	500	450	780	45	512	17
MI2-45T2DHN1 - MI2-56T2DHN1	920	210	500	450	1000	45	732	17
MI2-71T2DHN1	1140	210	500	450	1220	45	950	17
MI2-80T2DHN1 - MI2-112T2DHN1	1140	270	775	710	1230	65	933	35
MI2-140T2DHN1	1200	300	865	800	1290	85	969	40
MI2-160T2DHN1	1400	300	865	800	1490	85	1169	40
Model names	Dimension (mm)							
	I	J	K	L	M	N	O	P
MI2-22T2DHN1 - MI2-36T2DHN1	145	600	196	-	740	350	35	20
MI2-45T2DHN1 - MI2-56T2DHN1	145	820	200	-	960	350	35	20
MI2-71T2DHN1	145	1040	200	-	1180	350	35	20
MI2-80T2DHN1 - MI2-140T2DHN1	179	1035	260	20	1180	490	26	20
MI2-160T2DHN1	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 - MI2-45T2DHN1	Φ12.7	Φ6.35
MI2-56T2DHN1 - MI2-160T2DHN1	Φ15.9	Φ9.53

3 Unit Placement

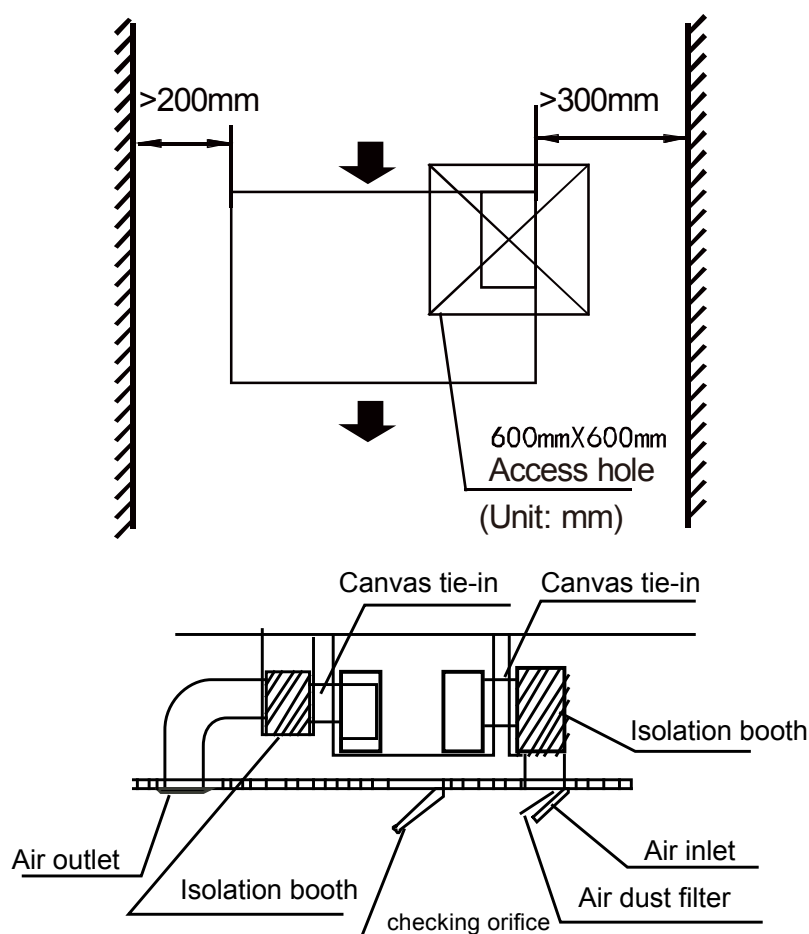
3.1 Placement Considerations

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)

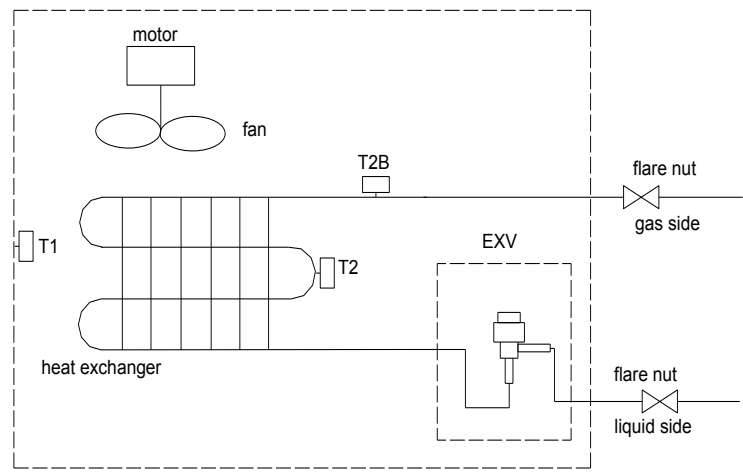


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4 Piping Diagram

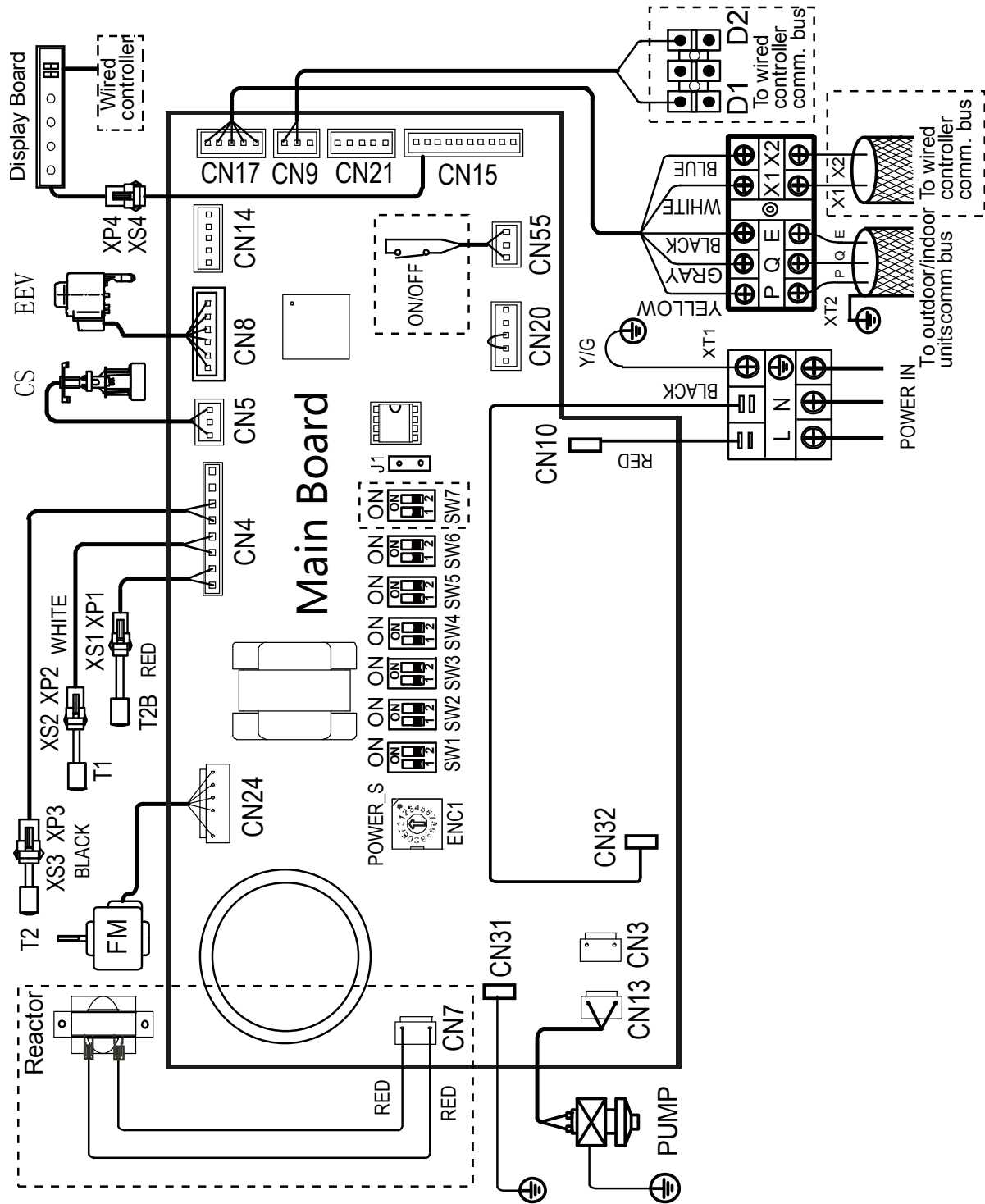
Figure 4.1: Medium Static Pressure Duct piping diagram



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

5 Wiring Diagrams

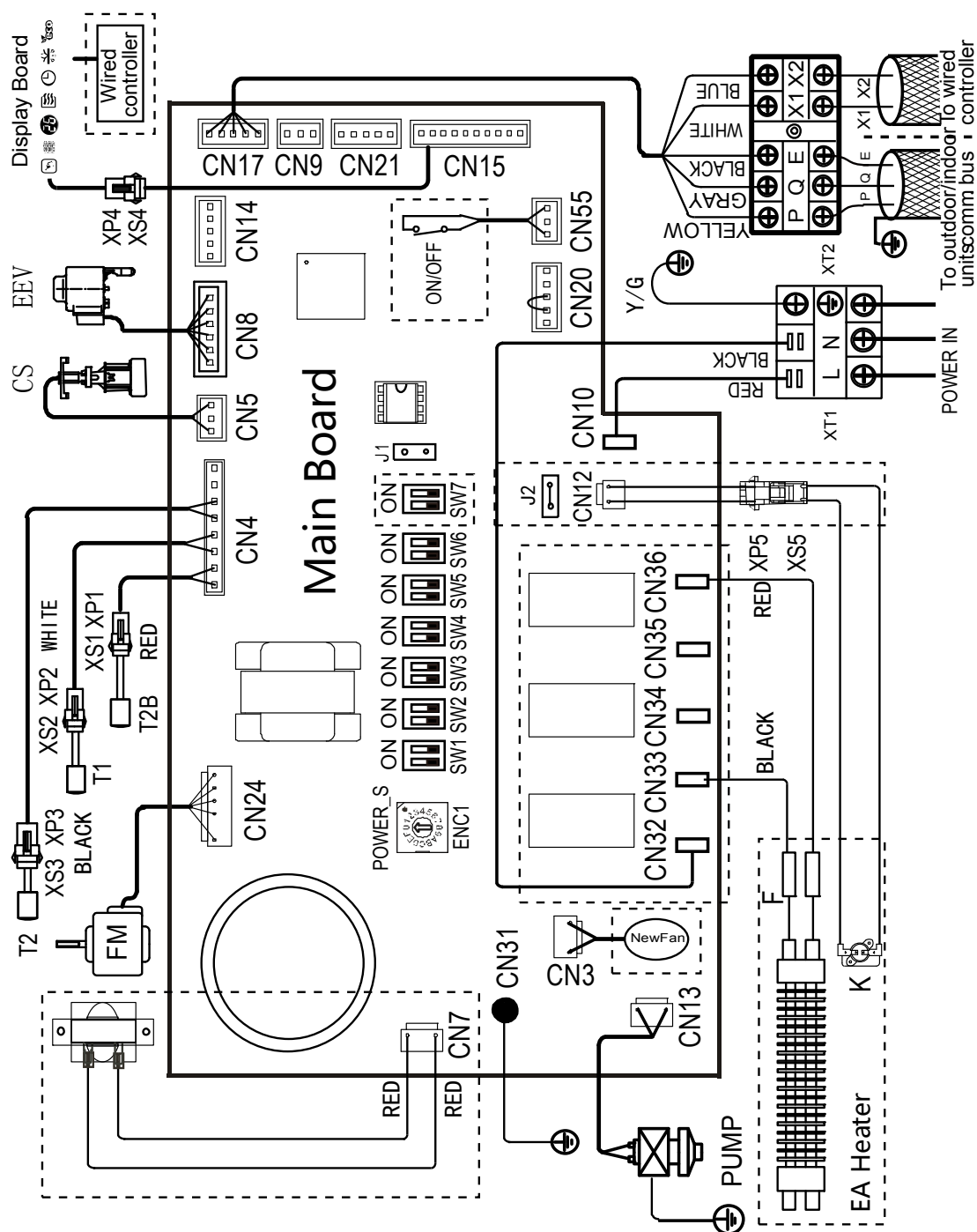
Figure 5.1: MI2-22T2DHN1- MI2-140T2DHN1



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Figure 5.2: MI2-160T2DHN1



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)T2DHN1 fan performance

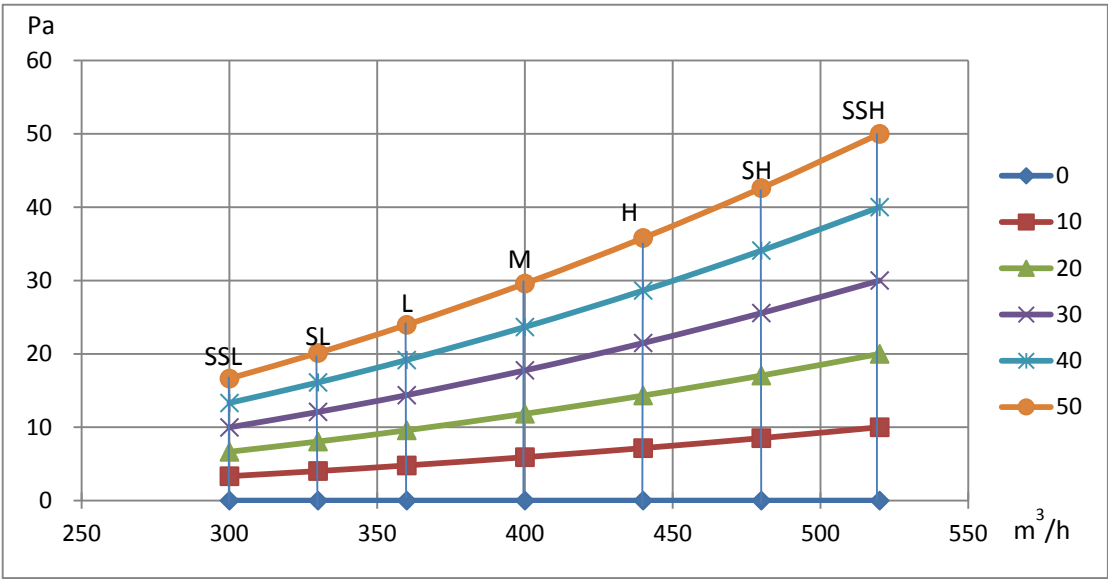


Figure 6.2: MI2-36T2DHN1 fan performance

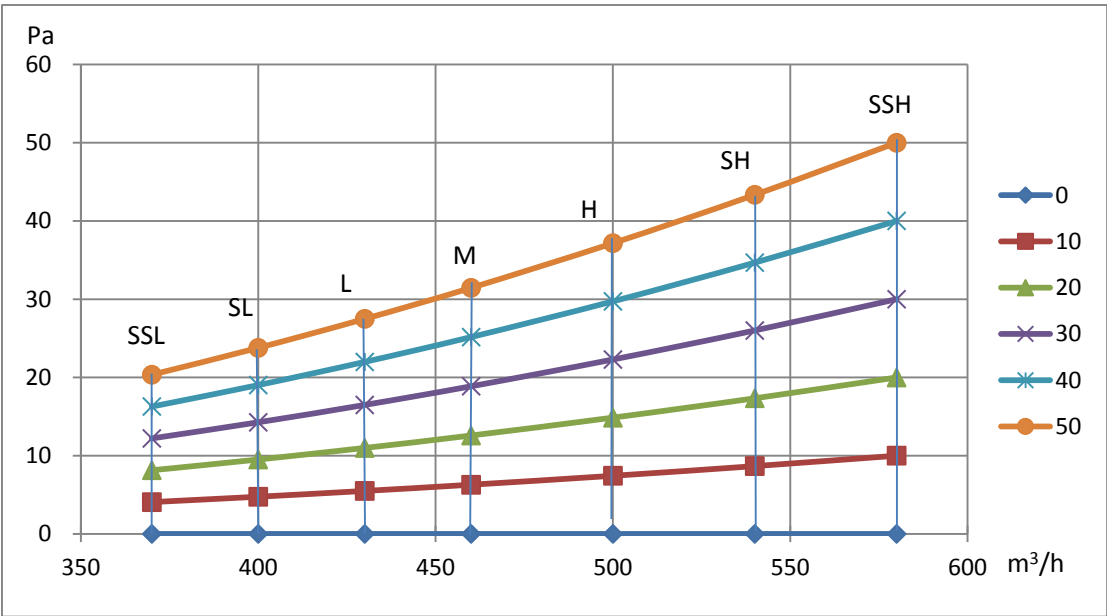


Figure 6.3: MI2-45T2DHN1 fan performance

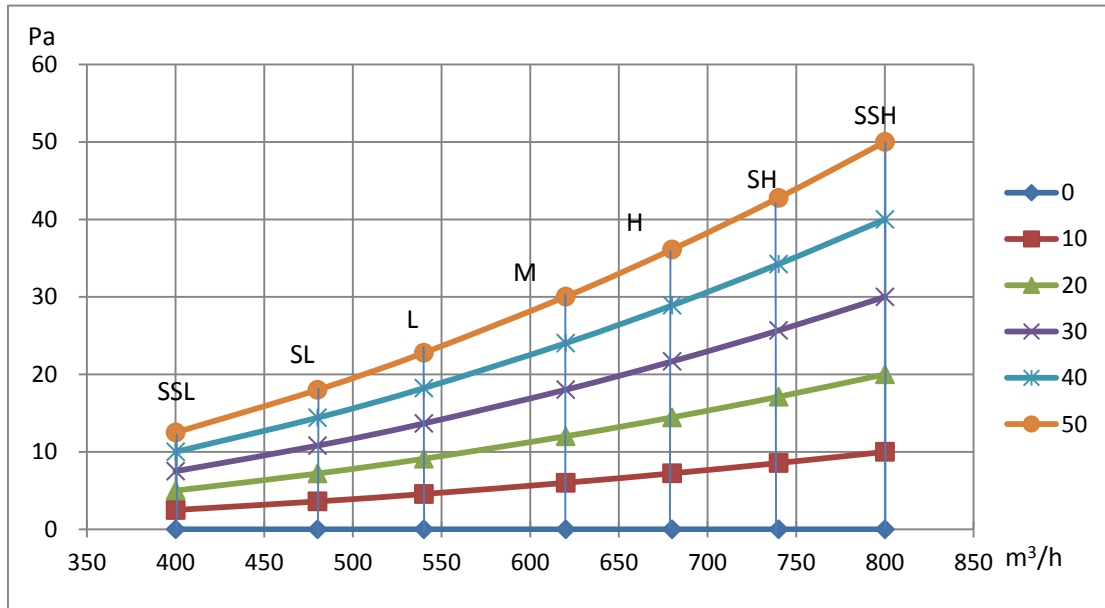
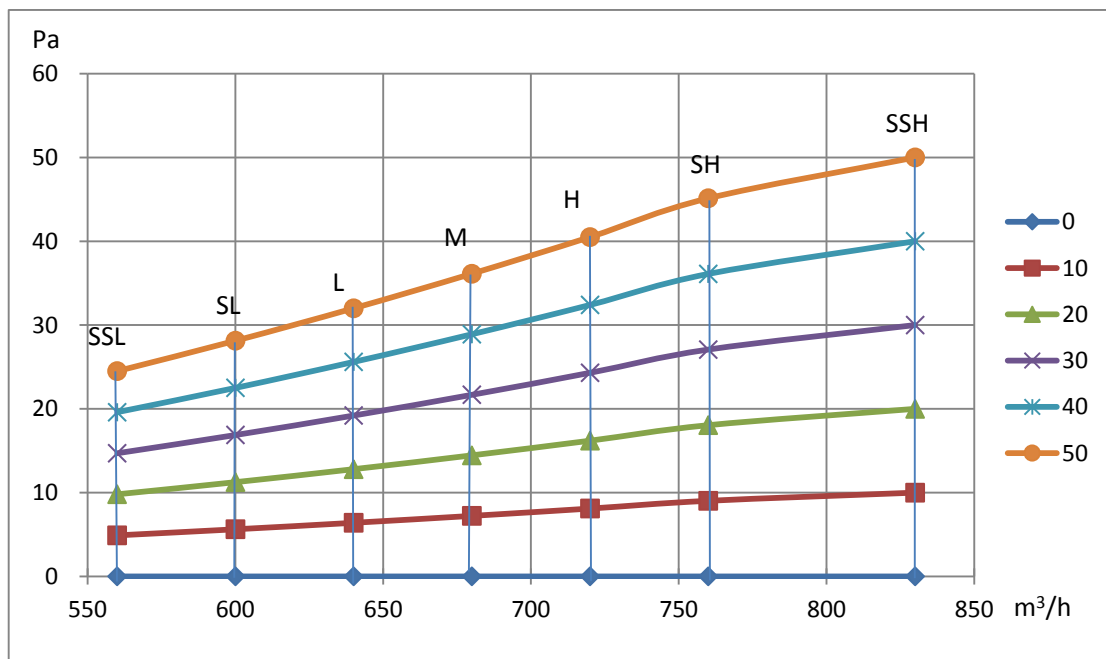


Figure 6.4: MI2-56T2DHN1 fan performance



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Figure 6.5: MI2-71T2DHN1 fan performance

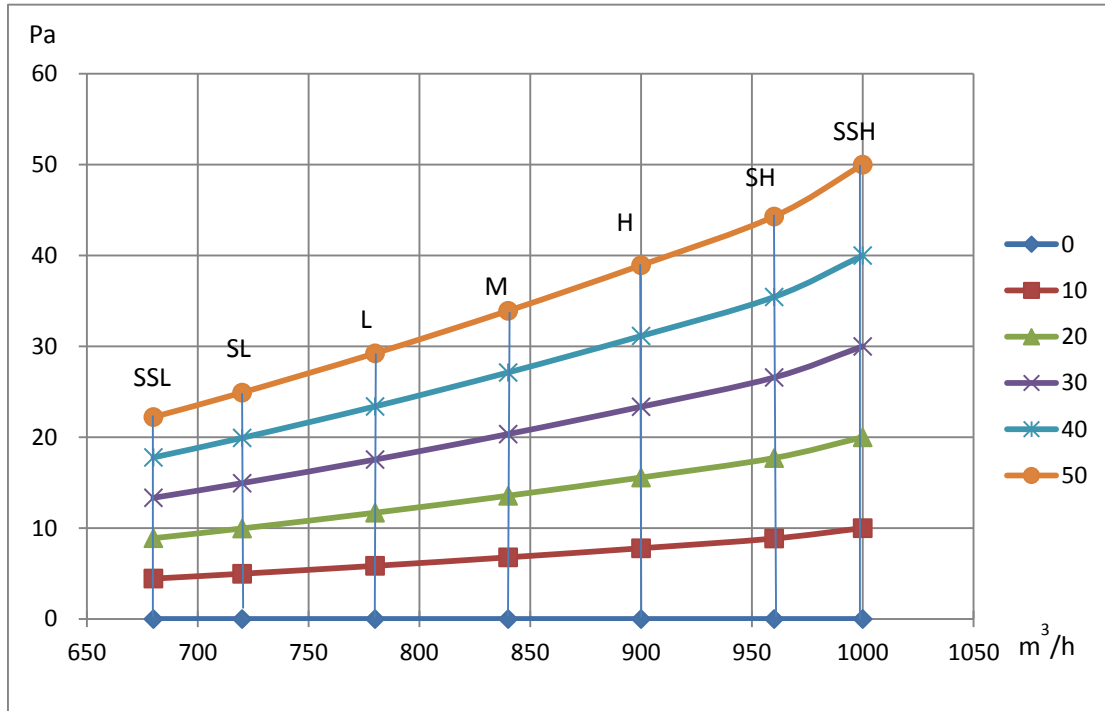


Figure 6.6: MI2-80(90)T2DHN1 fan performance

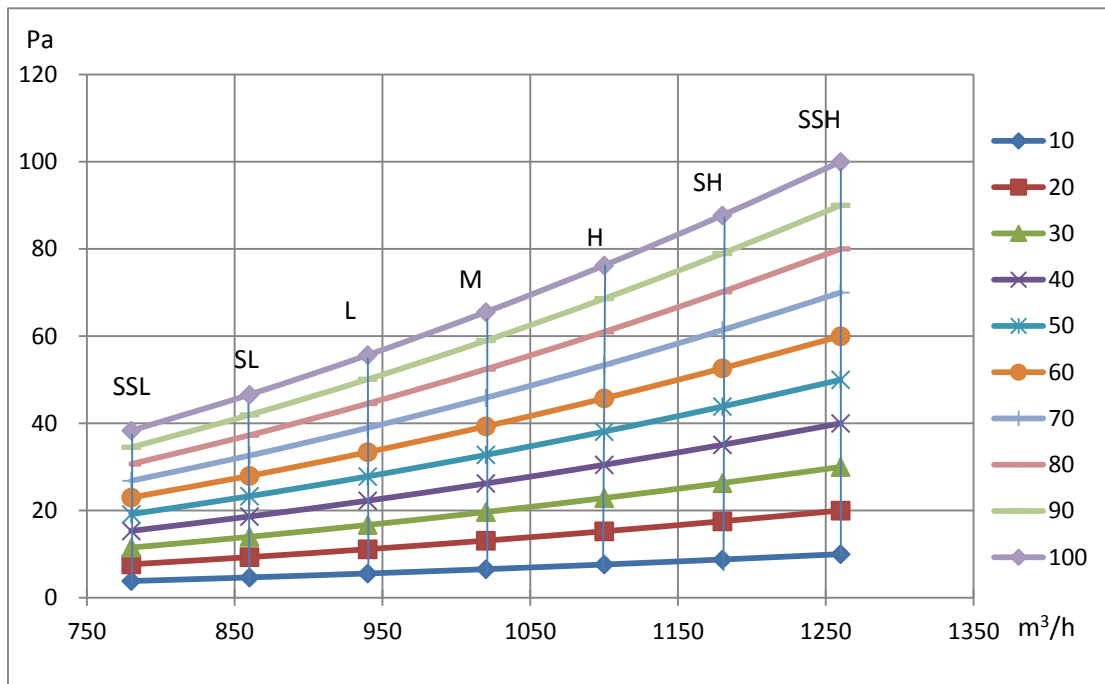


Figure 6.7: MI2-112T2DHN1 fan performance

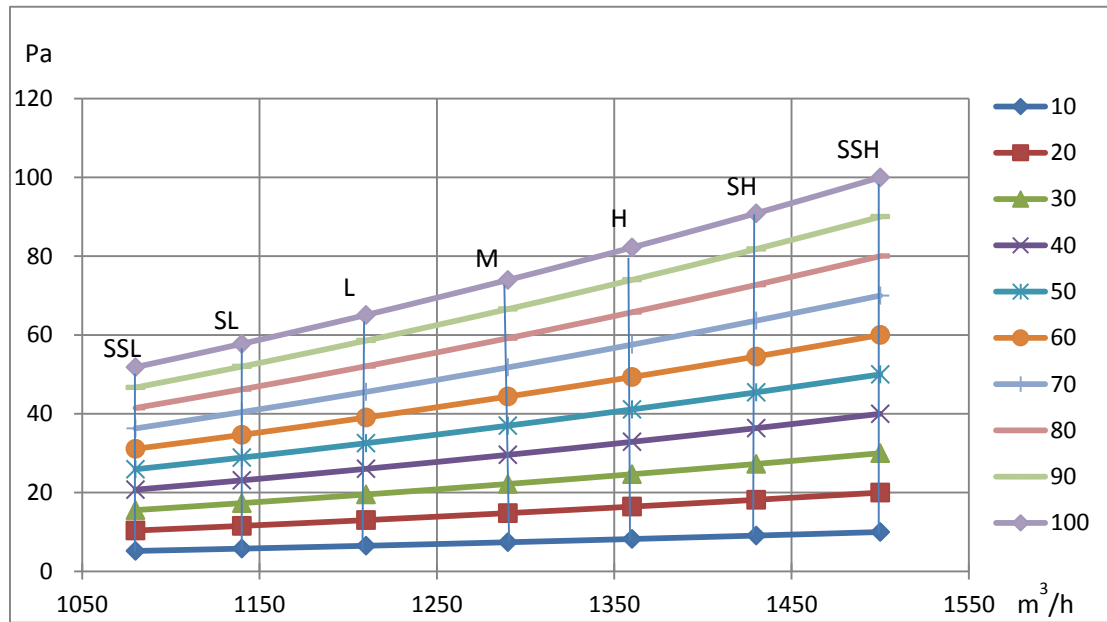
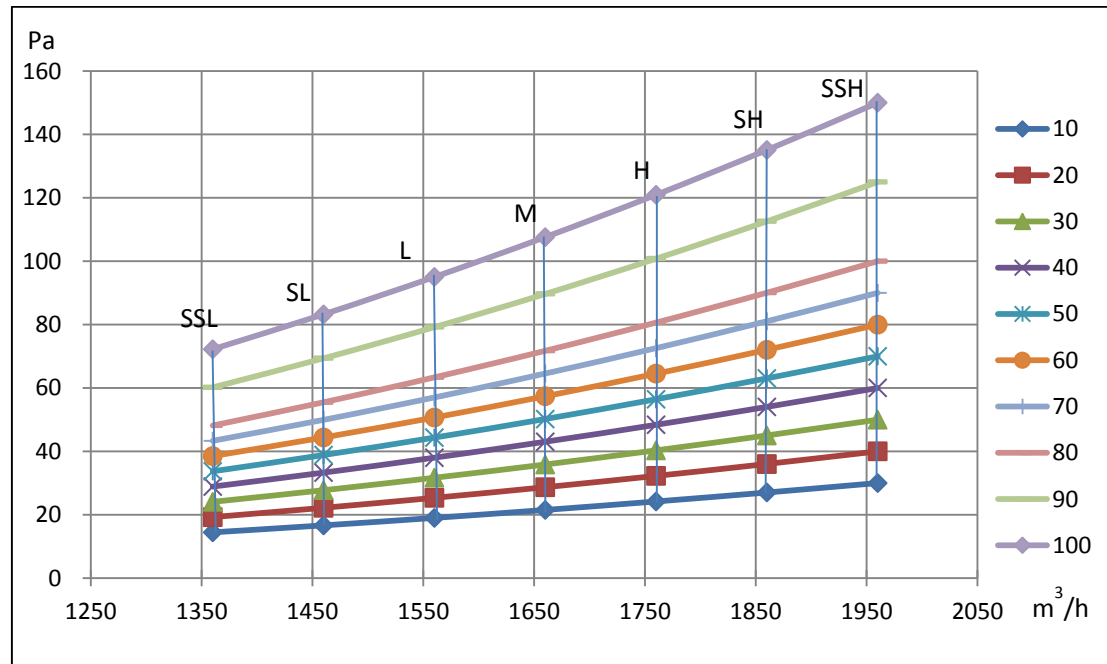


Figure 6.8: MI2-140T2DHN1 fan performance



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Figure 6.9: MI2-160T2DHN1 fan performance

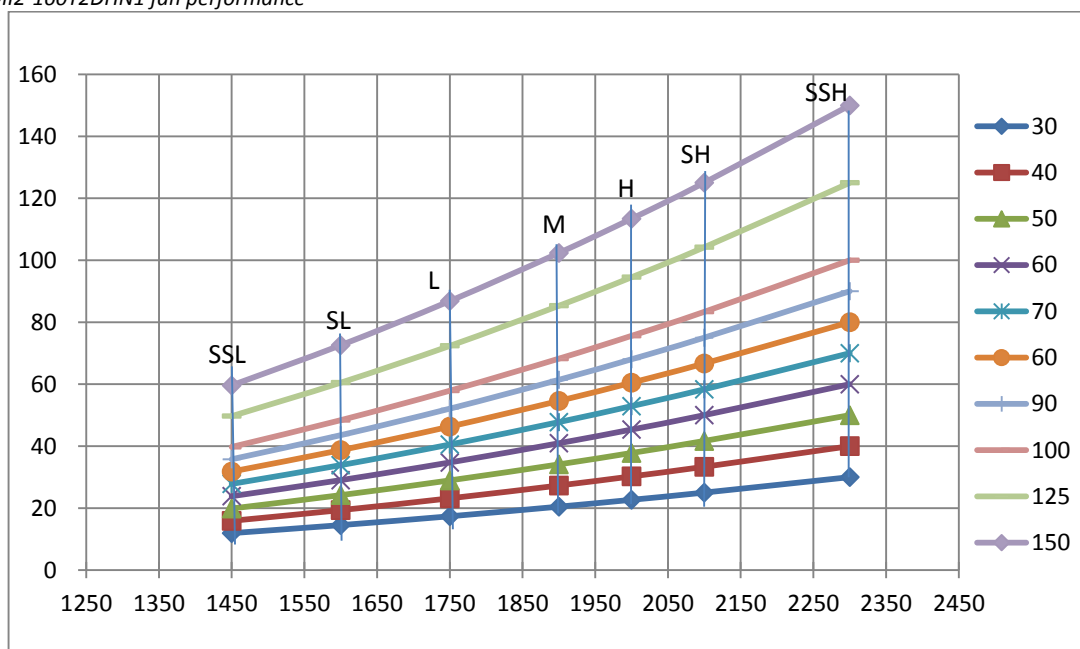


Table 6.1: ESP settings through DIP switch SW2

Capacity	ESP1	ESP2	ESP3	ESP4
2.2-7.1kW	10Pa	0Pa	30Pa	50Pa
8-11.2kW	20Pa	40Pa	70Pa	100Pa
14-16kW	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
2.2-7.1kW	0Pa	10Pa	20Pa	30Pa	40Pa	50Pa	50Pa	50Pa	50Pa	50Pa
8-11.2kW	10Pa	20Pa	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa
14-16kW	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa	125Pa	150Pa

7 Capacity Tables

7.1 Cooling Capacity Table

Table 7.1: Medium 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	2.0	2.0	2.1	2.0	2.2	1.9	2.2	1.8	2.3	1.8	2.3	1.7	2.4	1.7
MI2-28T2DHN1	2.5	2.5	2.7	2.5	2.8	2.4	2.8	2.3	2.9	2.3	2.9	2.2	3.0	2.1
MI2-36T2DHN1	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	4.0	3.9	4.3	3.9	4.5	3.9	4.5	3.7	4.6	3.6	4.7	3.5	4.8	3.3
MI2-56T2DHN1	5.0	4.9	5.3	4.9	5.6	4.9	5.6	4.6	5.7	4.5	5.8	4.3	6.0	4.1
MI2-71T2DHN1	6.3	6.1	6.7	6.1	7.0	6.0	7.1	5.8	7.2	5.7	7.4	5.4	7.6	5.2
MI2-80T2DHN1	7.1	6.6	7.6	6.7	7.9	6.7	8.0	6.5	8.1	6.3	8.3	6.0	8.5	5.8
MI2-90T2DHN1	8.0	7.5	8.5	7.5	8.9	7.5	9.0	7.3	9.1	7.1	9.4	6.8	9.6	6.5
MI2-112T2DHN1	9.9	9.3	10.6	9.4	11.1	9.3	11.2	9.0	11.3	8.8	11.6	8.4	11.9	8.1
MI2-140T2DHN1	12.4	11.6	13.2	11.7	13.8	11.6	14.0	11.3	14.2	11.0	14.5	10.5	14.9	10.1
MI2-160T2DHN1	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 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	2.8	2.8	2.6	2.5	2.4	2.3
MI2-28T2DHN1	3.4	3.4	3.2	3.1	3.0	2.8
MI2-36T2DHN1	4.2	4.2	4.0	3.8	3.8	3.5
MI2-45T2DHN1	5.3	5.3	5.0	4.8	4.7	4.4
MI2-56T2DHN1	6.7	6.6	6.3	6.1	5.9	5.5
MI2-71T2DHN1	8.5	8.4	8.0	7.8	7.5	7.0
MI2-80T2DHN1	9.5	9.5	9.0	8.7	8.5	7.8
MI2-90T2DHN1	10.6	10.5	10.0	9.7	9.4	8.8
MI2-112T2DHN1	13.3	13.1	12.5	12.1	11.8	10.9
MI2-140T2DHN1	17.0	16.8	16.0	15.5	15.0	13.9
MI2-160T2DHN1	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 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	50/60	220-240	198	264	0.74	15	0.03	0.59
MI2-28T2DHN1	50/60	220-240	198	264	0.74	15	0.03	0.59
MI2-36T2DHN1	50/60	220-240	198	264	0.77	15	0.03	0.62
MI2-45T2DHN1	50/60	220-240	198	264	1	15	0.03	0.80
MI2-56T2DHN1	50/60	220-240	198	264	1	15	0.03	0.80
MI2-71T2DHN1	50/60	220-240	198	264	1.1	15	0.06	0.88
MI2-80T2DHN1	50/60	220-240	198	264	1.3	15	0.15	1.04
MI2-90T2DHN1	50/60	220-240	198	264	1.3	15	0.15	1.04
MI2-112T2DHN1	50/60	220-240	198	264	1.5	15	0.15	1.20
MI2-140T2DHN1	50/60	220-240	198	264	2.6	15	0.24	2.08
MI2-160T2DHN1	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

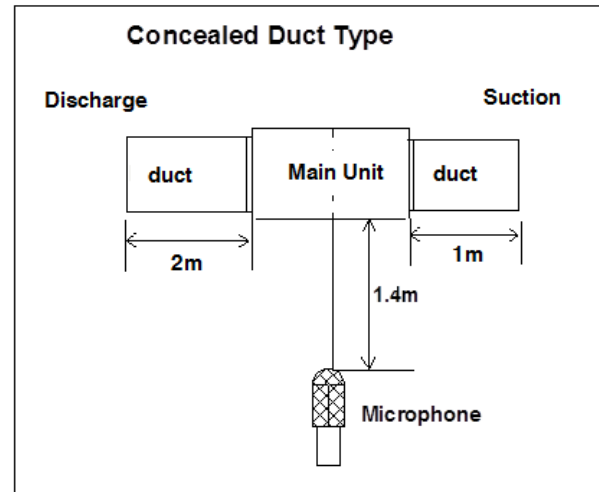
Table 9.1: Medium Static Pressure Duct sound pressure levels¹

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
MI2-22T2DHN1	32	31	29	28	26	25	23
MI2-28T2DHN1	32	31	29	28	26	25	23
MI2-36T2DHN1	33	32	31	30	28	27	25
MI2-45T2DHN1	36	34	32	31	29	27	25
MI2-56T2DHN1	36	34	33	32	30	29	28
MI2-71T2DHN1	37	35	33	32	30	29	28
MI2-80T2DHN1	37	35	34	33	31	29	28
MI2-90T2DHN1	37	35	34	33	31	29	28
MI2-112T2DHN1	39	38	38	37	35	34	33
MI2-140T2DHN1	41	39	38	37	36	35	33
MI2-160T2DHN1	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 octave band levels

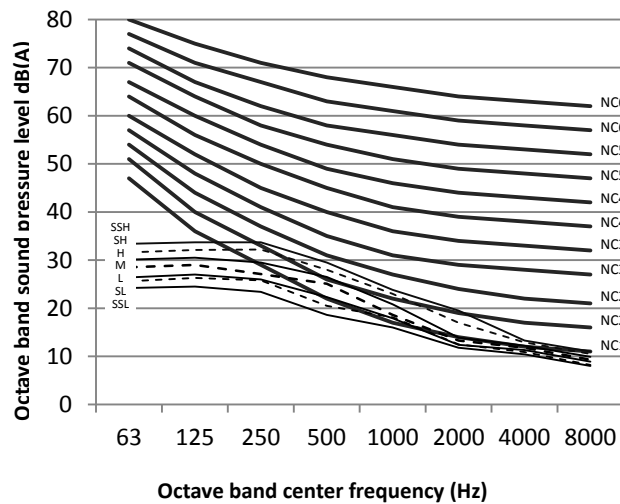
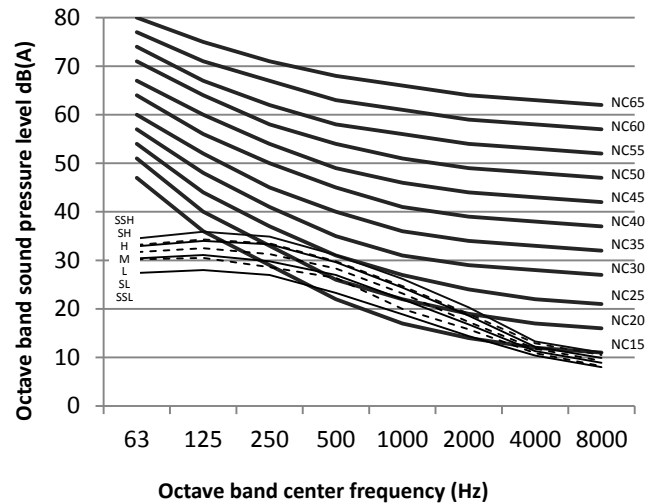


Figure 9.3: MI2-36T2DHN1 octave band levels



The 2nd Generation DC Series VRF Indoor Units



Figure 9.4: MI2-45T2DHN1 octave band levels

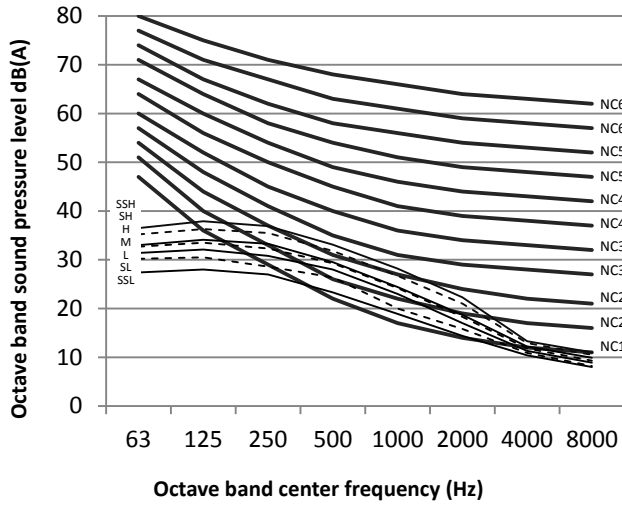


Figure 9.5: MI2-56T2DHN1 octave band levels

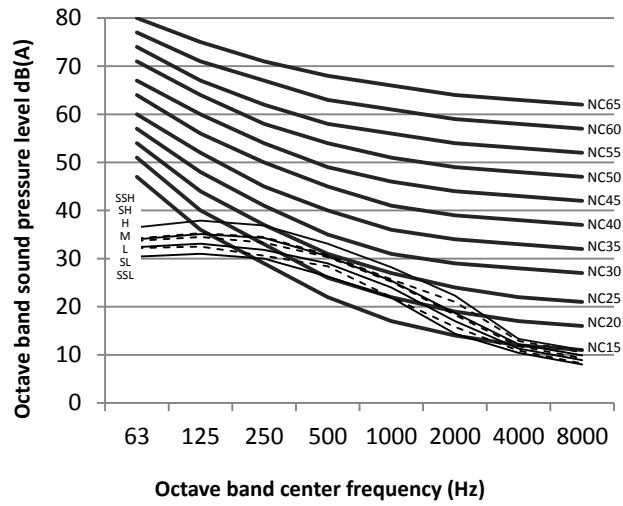


Figure 9.6: MI2-71T2DHN1 octave band levels

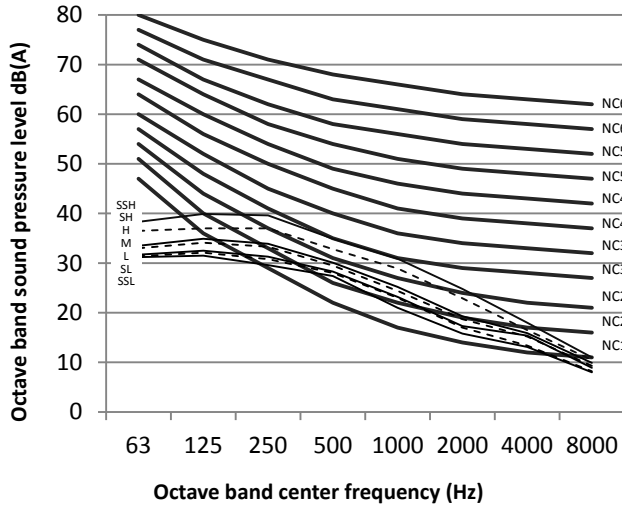


Figure 9.7: MI2-80(90)T2DHN1 octave band levels

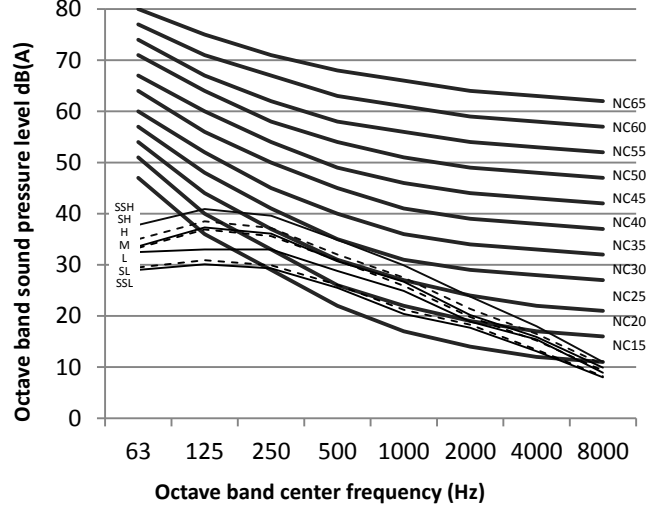


Figure 9.8: MI2-112T2DHN1 octave band levels

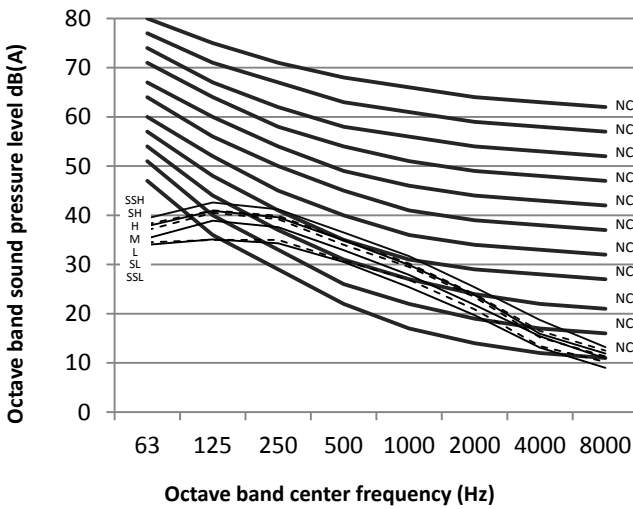


Figure 9.9: MI2-140T2DHN1 octave band levels

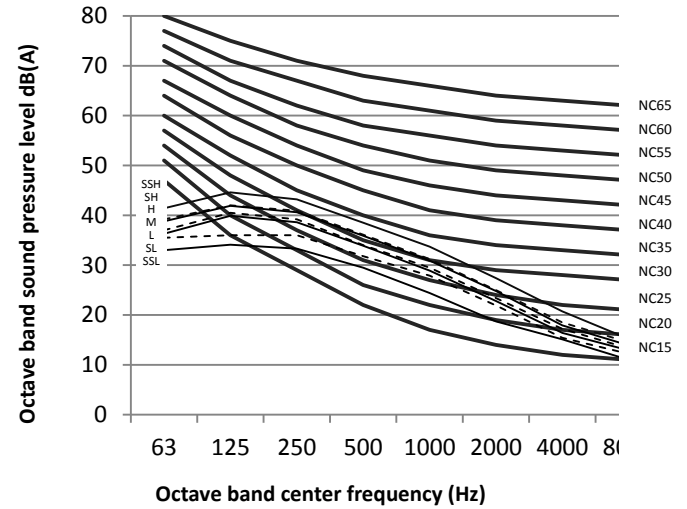
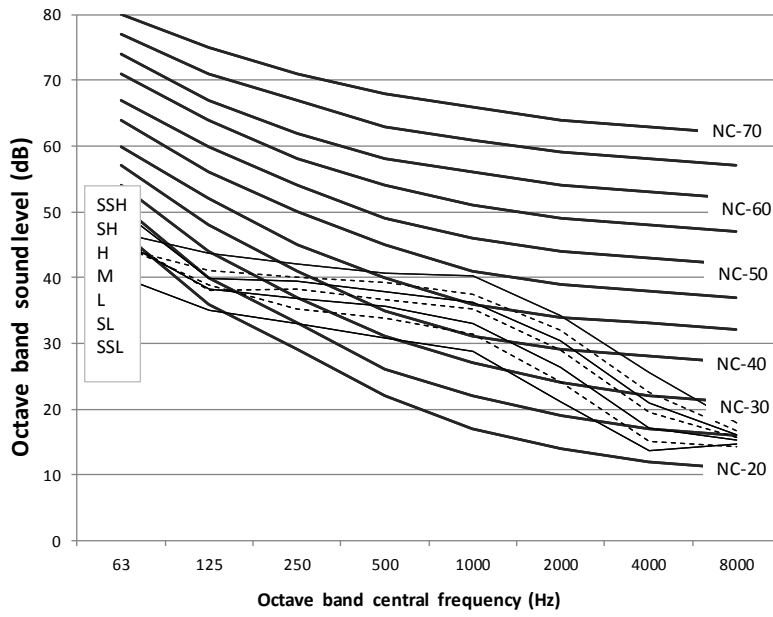


Figure 9.10: MI2-160T2DHN1 octave band levels



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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

