

# Engineering Data

## High Static Pressure Duct VRF IDU



MI2-71T1DHN1

MI2-200T1DHN1

MI2-80T1DHN1

MI2-250T1DHN1

MI2-90T1DHN1

MI2-280T1DHN1

MI2-112T1DHN1

MI2-400T1DHN1

MI2-140T1DHN1

MI2-450T1DHN1

MI2-160T1DHN1

MI2-560T1DHN1

# High Static Pressure Duct

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## 1 Specifications

### MI2-71T1DHN1 / MI2-80T1DHN1 / MI2-90T1DHN1

Table 1.1: MI2-71(80,90)T1DHN1 specifications

Model name			MI2-71T1DHN1	MI2-80T1DHN1	MI2-90T1DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling <sup>1</sup>	Capacity	kW	7.1	8	9
		kBut/h	24.2	27.3	30.7
	Input	W	180	180	220
Heating <sup>2</sup>	Capacity	kW	8	9	10
		kBut/h	27.3	30.7	34.1
	Input	W	180	180	220
Fan motor	Model		WZDK240-38G	WZDK240-38G	WZDK750-38G-W
	Type		DC		
	Brand		Panasonic/ Welling		
	Speed (H/M/L)	r/min	1199/1170/1132/1116/1078/1049/1028		983/956/925/895/868/837/810
Coil	Number of rows		2	2	3
	Tube pitch × row	mm	25.4×22	25.4×22	25.4×22
	Fin spacing	mm	1.5	1.5	1.6
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ9.53 Inner groove		
	Dimensions (L×H)	mm	700×356×44	700×356×44	700×356×66
	Number of circuits		3	3	7
Airflow rate <sup>3</sup>		m <sup>3</sup> /h	1360/1327/1293/1260/1227/1193/1160		1420/1373/1327/1280/ 1233/1187/1140
External static pressure <sup>4</sup>		Pa	100 (30~ 200)		
Sound pressure level <sup>5</sup>		dB(A)	42/41/40/40/39/39/38	42/41/40/40/39/39/38	45/44/43/42/41/40/39
Unit	Net dimensions <sup>6</sup>	mm	965×423×690		
	Packed dimensions	mm	1090×440×768		
	Net/Gross weight	kg	41/47	41/47	48/55
Refrigerant type			R410A		
Throttle	Type	Electronic expansion valve			
	Model	BD20FKS(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.

## MI2-112T1DHN1 / MI2-140T1DHN1 / MI2-160T1DHN1

Table 1.2: MI2-112(140,160)T1DHN1 specifications

Model name			MI2-112T1DHN1	MI2-140T1DHN1	MI2-160T1DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling <sup>1</sup>	Capacity	kW	11.2	14	16
		kBut/h	38.2	47.8	54.6
	Input	W	380	420	700
Heating <sup>2</sup>	Capacity	kW	12.5	16	17
		kBut/h	42.7	54.6	58
	Input	W	380	420	700
Fan motor	Model		WZDK750-38G-W	WZDK750-38GS-W	WZDK750-38GS-W
	Type		DC		
	Brand		Panasonic/ Welling		
	Speed (H/M/L)	r/min	1113/1066/1012/971/ 925/876/840	1019/981/941/902/ 855/808/765	1080/1046/996/954/ 910/869/825
Coil	Number of rows		3	4	4
	Tube pitch × row pitch	mm	25.4×22	25.4×22	25.4×22
	Fin spacing	mm	1.6	1.6	1.6
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ9.53 Inner groove		
	Dimensions (L×H ×W)	mm	700×356×66	996×356×88	996×356×88
	Number of circuits		7	7	7
Airflow rate <sup>3</sup>	m <sup>3</sup> /h	1870/1783/1697/1610/ 1523/1437/1350	2240/2133/2027/1920/ 1813/1707/1600	2660/2530/2400/2270/ 2140/2010/1880	
External static pressure <sup>4</sup>	Pa	100 (30~ 200)			
Sound pressure level <sup>5</sup>	dB(A)	48/47/46/45/43/42/41	45/44/43/42/41/40/40	46/45/44/43/42/41/40	
Unit	Net dimensions <sup>6</sup>	mm	965×423×690	1322×423×691	1322×423×691
	Packed dimensions (W×H×D)	mm	1090×440×768	1436×450×768	1436×450×768
	Net/Gross weight	kg	48/55	68/76	68/76
Refrigerant type			R410A		
Throttle	Type	Electronic expansion valve			
	Model	BD20FKS(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.

# The 2<sup>nd</sup> Generation DC Series VRF Indoor Units



## MI2-200T1DHN1 / MI2-250T1DHN1 / MI2-280T1DHN1

Table 1.3: MI2-200(250, 280)T1DHN1 specifications

Model name			MI2-200T1DHN1	MI2-250T1DHN1	MI2-280T1DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling <sup>1</sup>	Capacity	kW	20	25	28
		kBut/h	68.2	85.3	95.5
	Input	W	990	1200	1200
Heating <sup>2</sup>	Capacity	kW	22.5	26	31.5
		kBut/h	76.8	88.7	107.5
	Input	W	990	1200	1200
Fan motor	Model		ZKSN-920-8-12	ZKSN-920-8-12	ZKSN-920-8-12
	Type		DC		
	Brand		Nidec/Yongan		
	Speed (H/M/L)	r/min	1208/1179/1149/1127/1101/1075/1053		
Coil	Number of rows		4	4	4
	Tube pitch × row pitch	mm	25.4×22	25.4×22	25.4×22
	Fin spacing	mm	1.8	1.8	1.8
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ9.53 Inner groove		
	Dimensions (L×H×W)	mm	1125×512×88	1125×512×88	1125×512×88
	Number of circuits		20	20	20
Airflow rate <sup>3</sup>		m <sup>3</sup> /h	4330/4230/4130/4030/3930/3830/3730		
External static pressure <sup>4</sup>		Pa	170 (30~250)		
Sound pressure level <sup>5</sup>		dB(A)	51/50/50/49/49/48/47		
Unit	Net dimensions <sup>6</sup> (W×H×D)	mm	1454×515×931		
	Packed dimensions (W×H×D)	mm	1509×550×990		
	Net/Gross weight	kg	130/142		
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	Φ12.7/Φ22.2		
	Drain pipe	mm	OD Φ32		

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.

## MI2-400T1DHN1 / MI2-450T1DHN1 / MI2-560T1DHN1

Table 1.4: MI2-400(450, 560) T1DHN1 specifications

Model name			MI2-400T1DHN1	MI2-450T1DHN1	MI2-560T1DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling <sup>1</sup>	Capacity	kW	40	45	56
		kBut/h	136.5	153.6	191.1
	Input	W	1800	1800	2272
Heating <sup>2</sup>	Capacity	kW	45	56	63
		kBut/h	153.6	191.1	215.0
	Input	W	1800	1800	2272
Fan motor	Model		ZKSN-920-8-12-1	ZKSN-920-8-12-1	ZKSN-920-8-12-1
	Type		DC		
	Brand		Nidec/Yongan		
	Speed (H/M/L)	r/min	1060/1015/960/900/840/785/735		1103/1043/978/927/869/820/755
Coil	Number of rows		4		5
	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	1602×588×47	1602×588×47	1602×588×53.84
	Number of circuits		28	28	28
Airflow rate <sup>3</sup>		m <sup>3</sup> /h	6500/6150/5800/5450/5100/4750/4400		7400/7000/6600/6200/5800/5400/5000
External static pressure <sup>4</sup>		Pa	300 (100~400)		
Sound pressure level <sup>5</sup>		dB(A)	60/59/58/57/55/54/52		59/58/57/56/55/53/51
Unit	Net dimensions <sup>6</sup> (W×H×D)	mm	2010×680×905		
	Packed dimensions (W×H×D)	mm	2095×800×964		
	Net/Gross weight	kg	220/245		218/248
Refrigerant type			R410A		
Throttle	Type	Electronic expansion valve			
	Model	DPF(TS2)4.5C-02			
Design pressure (H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ15.9/Φ28.6		
	Drain pipe	mm	OD Φ32		

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.

# The 2<sup>nd</sup> Generation DC Series VRF Indoor Units

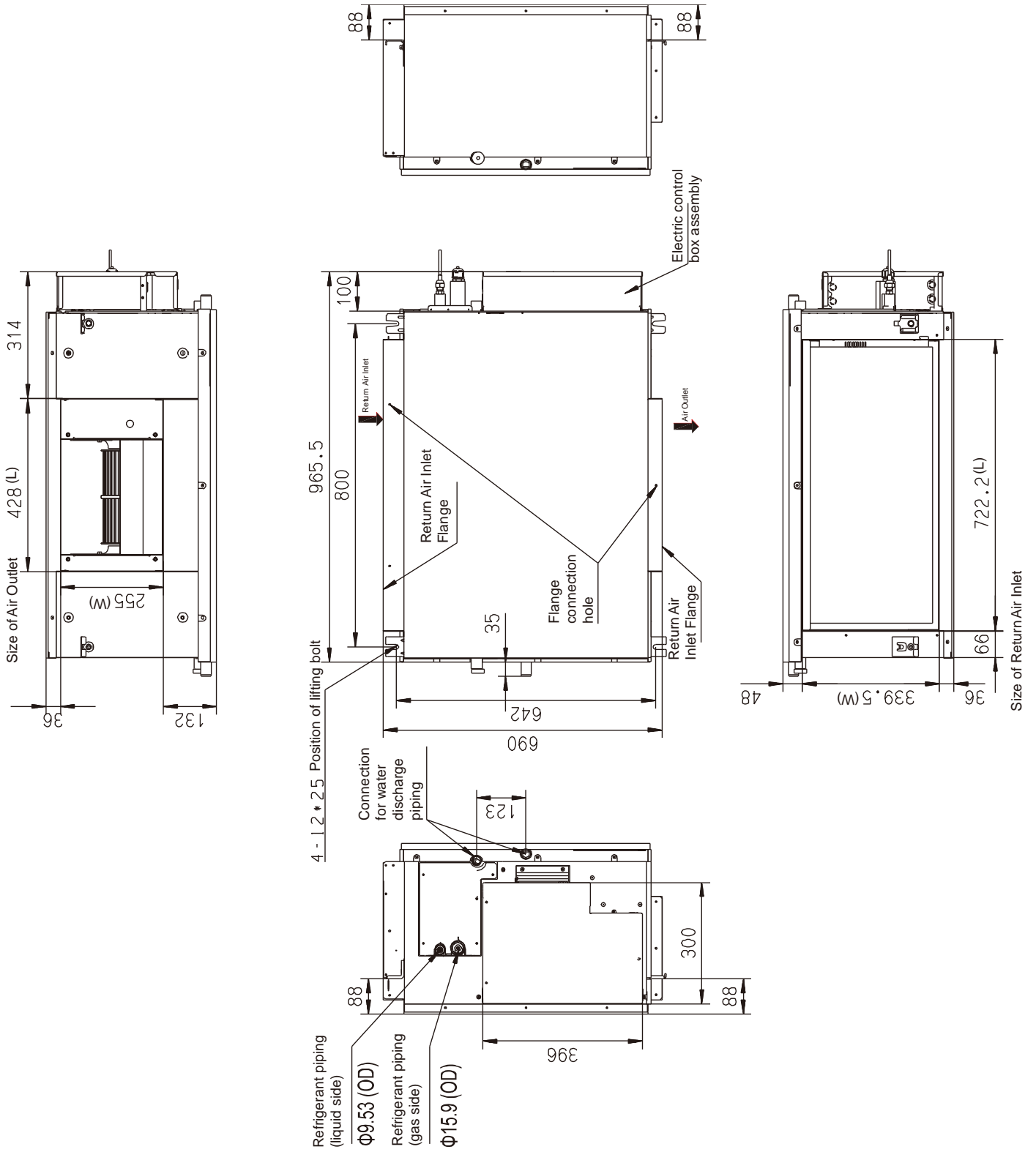


## 2 Dimensions

### 2.1 Unit Dimensions

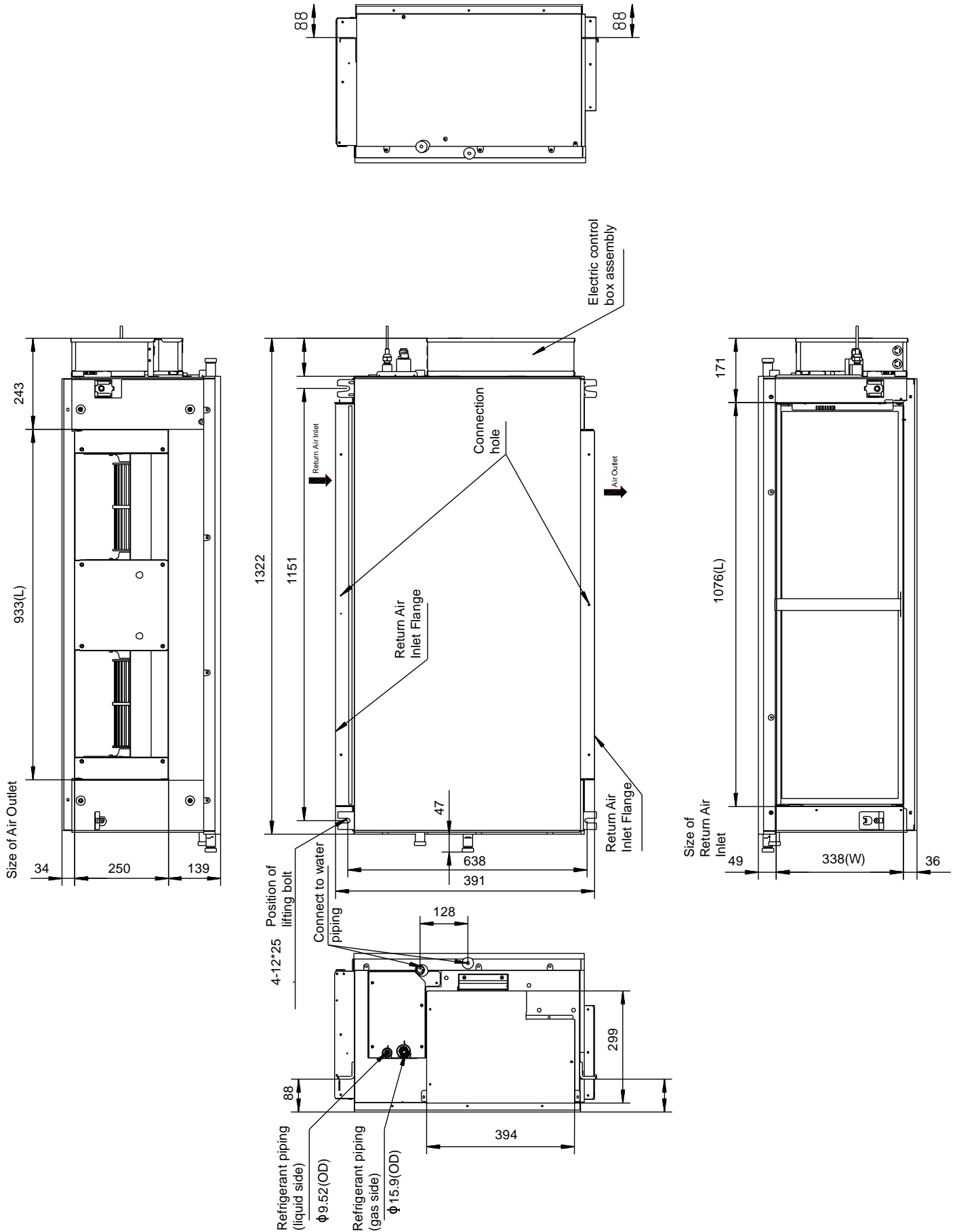
MI2-71T1DHN1 / MI2-80T1DHN1 / MI2-90T1DHN1 / MI2-112T1DHN1

Figure 2.1: MI2-71(80,90,112)T1DHN1 dimensions (unit: mm)



## MI2-140T1DHN1 / MI2-160T1DHN1

Figure 2.2: MI2-140(160)T1DHN1 dimensions (unit: mm)



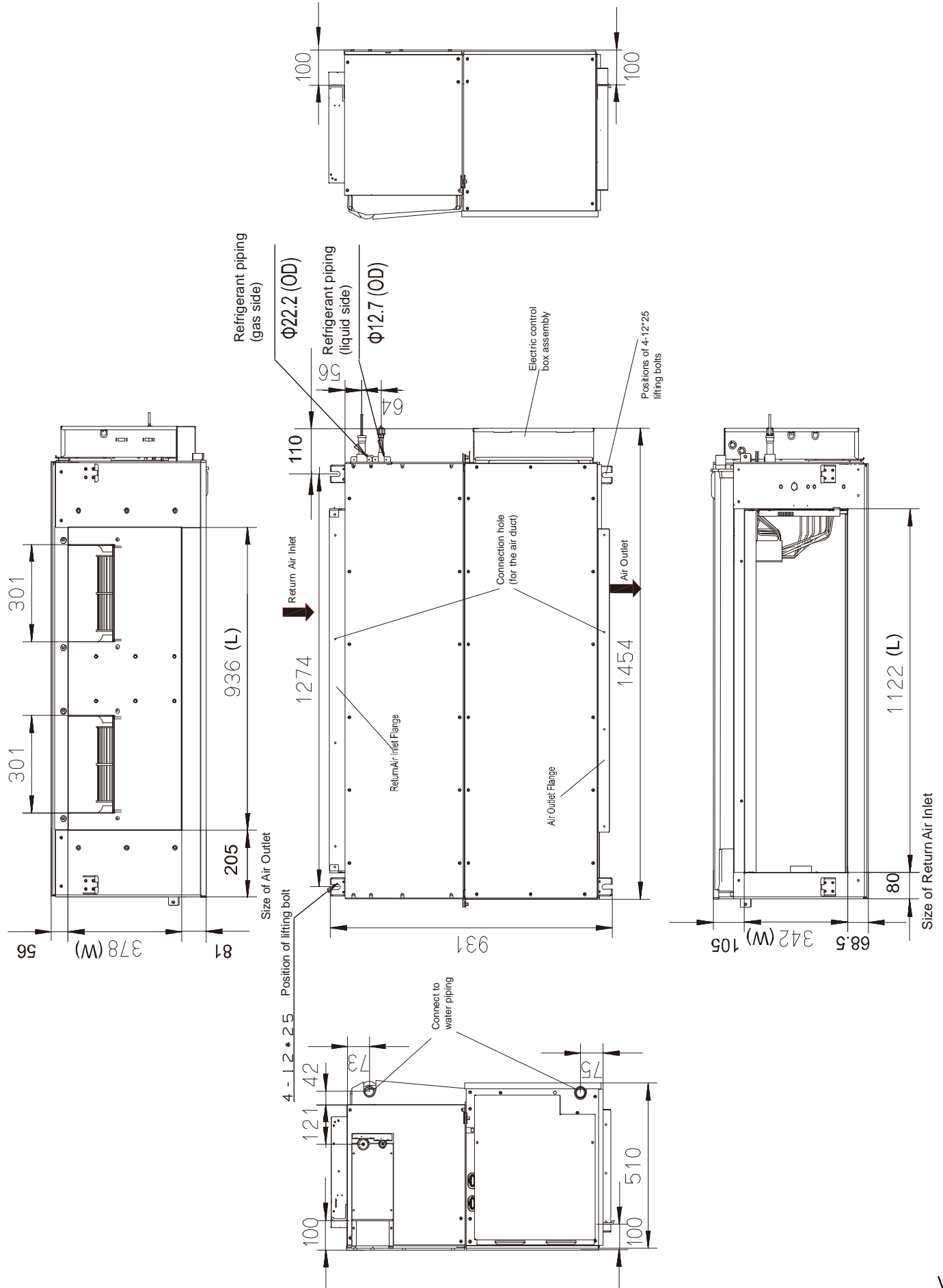


# The 2<sup>nd</sup> Generation DC Series VRF Indoor Units



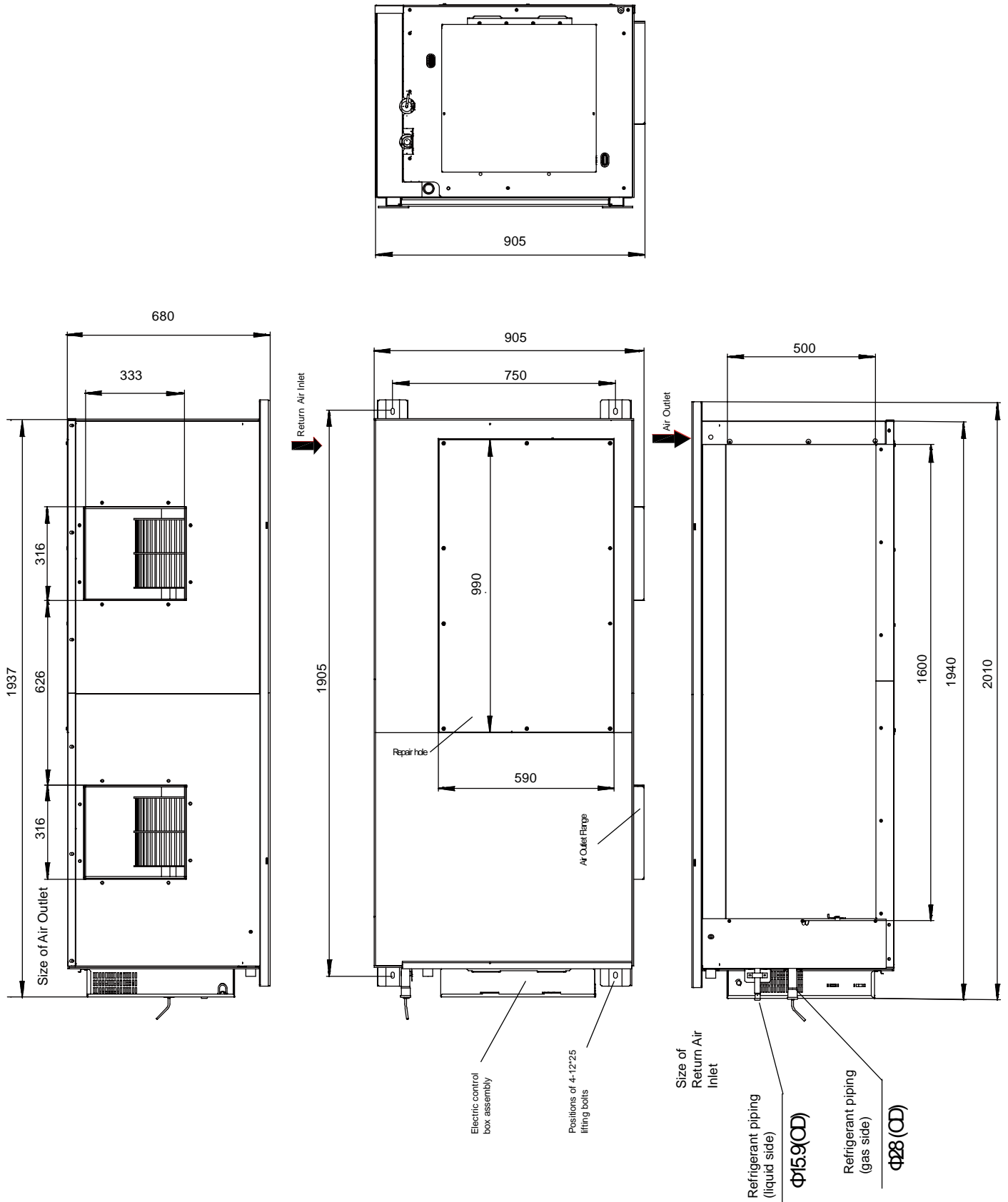
MI2-200T1DHN1 / MI2-250T1DHN1 / MI2-280T1DHN1

Figure 2.3: MI2-200(250,280)T1DHN1 dimensions (unit: mm)



MI2-400T1DHN1 / MI2-450T1DHN1 / MI2-560T1DHN1

Figure 2.4: MI2-400(450,560)T1DHN1 dimensions (unit: mm)



## 3 Unit Placement

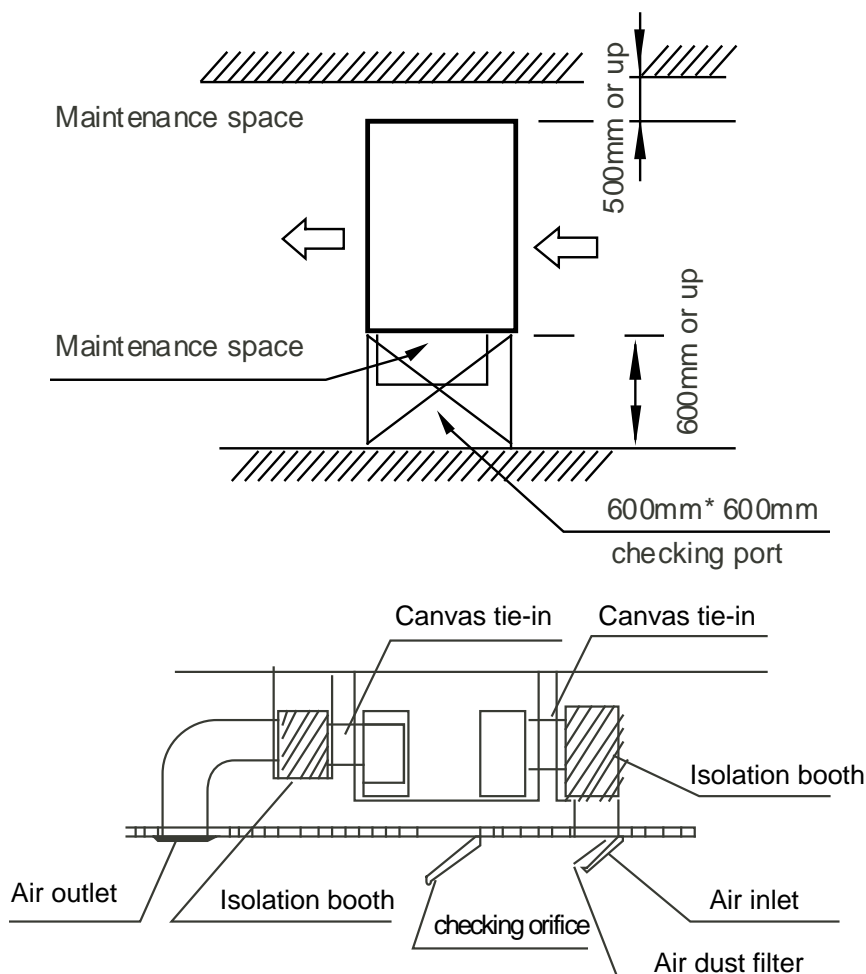
### 3.1 Placement Considerations

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

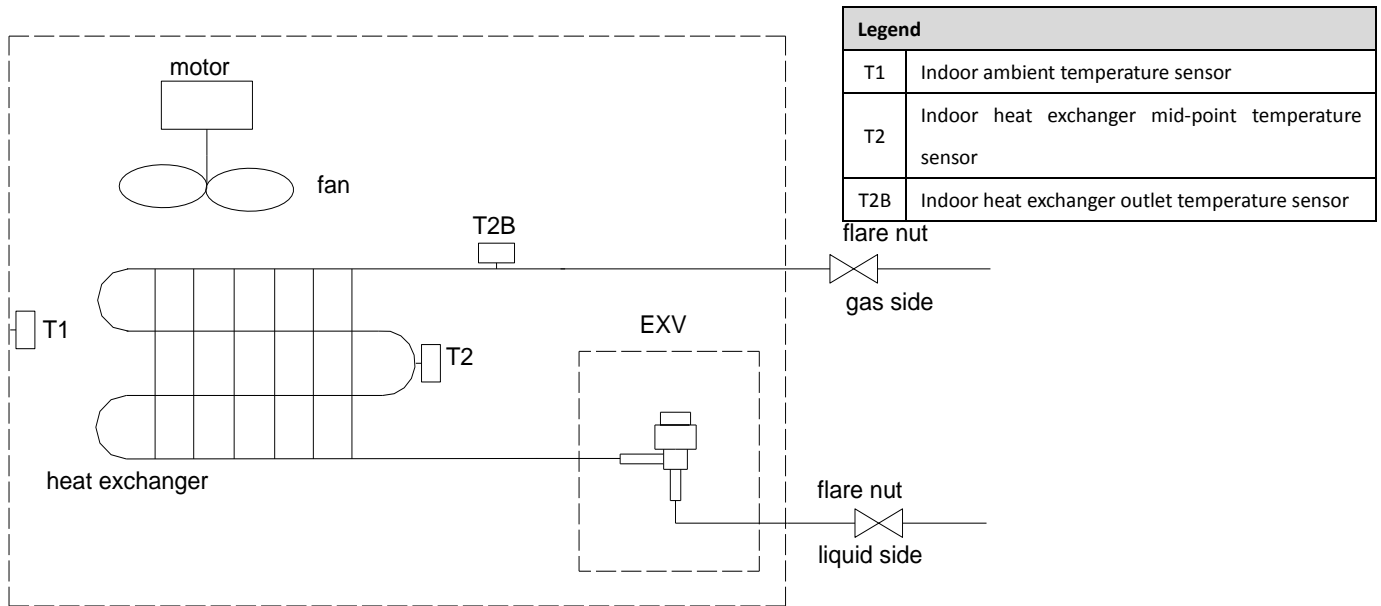
Figure 3.1: High Static Pressure Duct space requirements (unit: mm)



## 4 Piping Diagrams

MI2-71T1DHN1 / MI2-80T1DHN1 / MI2-90T1DHN1 / MI2-112T1DHN1 / MI2-140T1DHN1 / MI2-160T1DHN1 / MI2-200T1DHN1 / MI2-250T1DHN1 / MI2-280T1DHN1 / MI2-400T1DHN1 / MI2-450T1DHN1 / MI2-560T1DHN1

Figure 4.1: MI2-71(80,90,112,140,160,200,250,280,400,450,560)T1DHN1 piping diagram



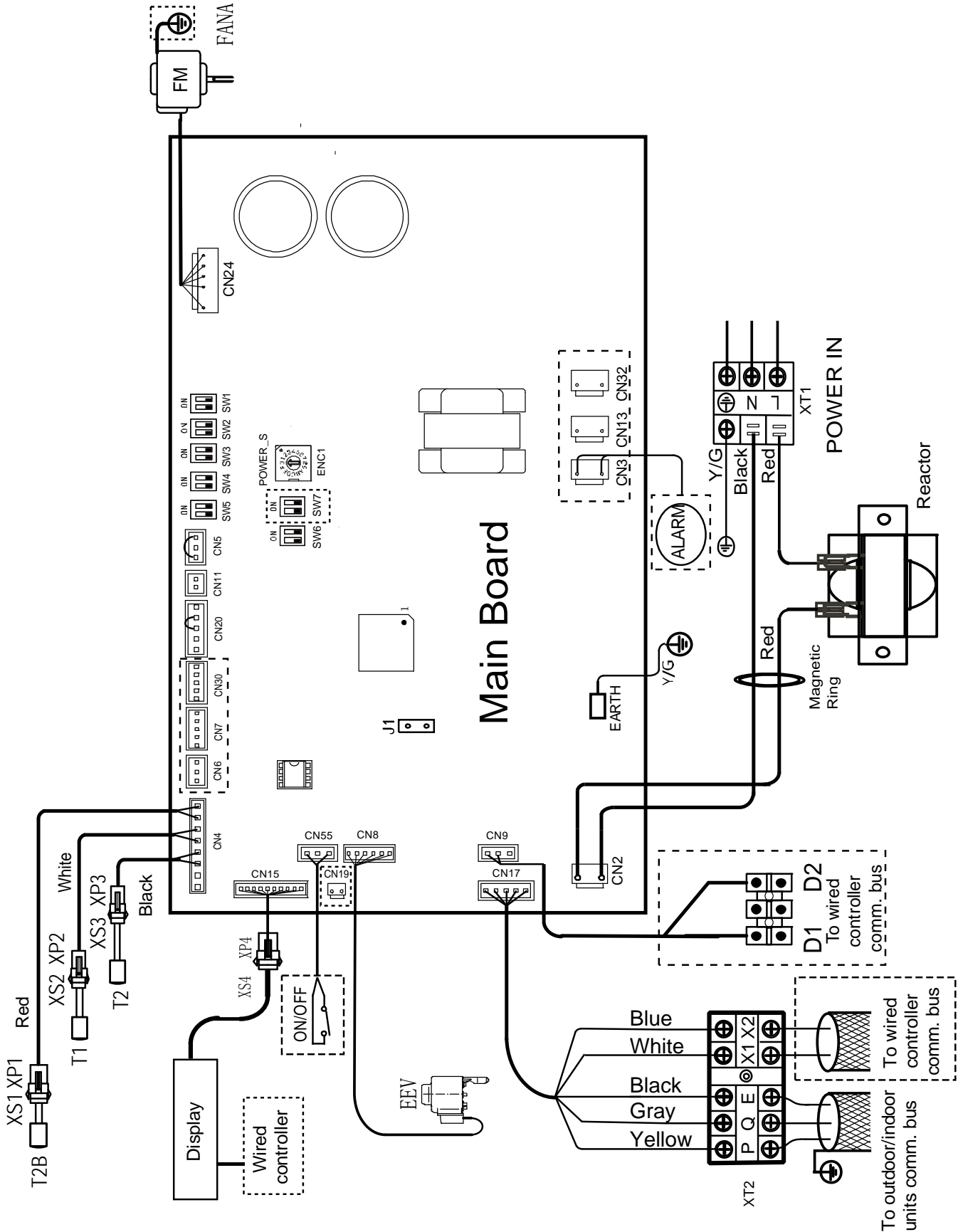
# The 2<sup>nd</sup> Generation DC Series VRF Indoor Units



## 5 Wiring Diagrams

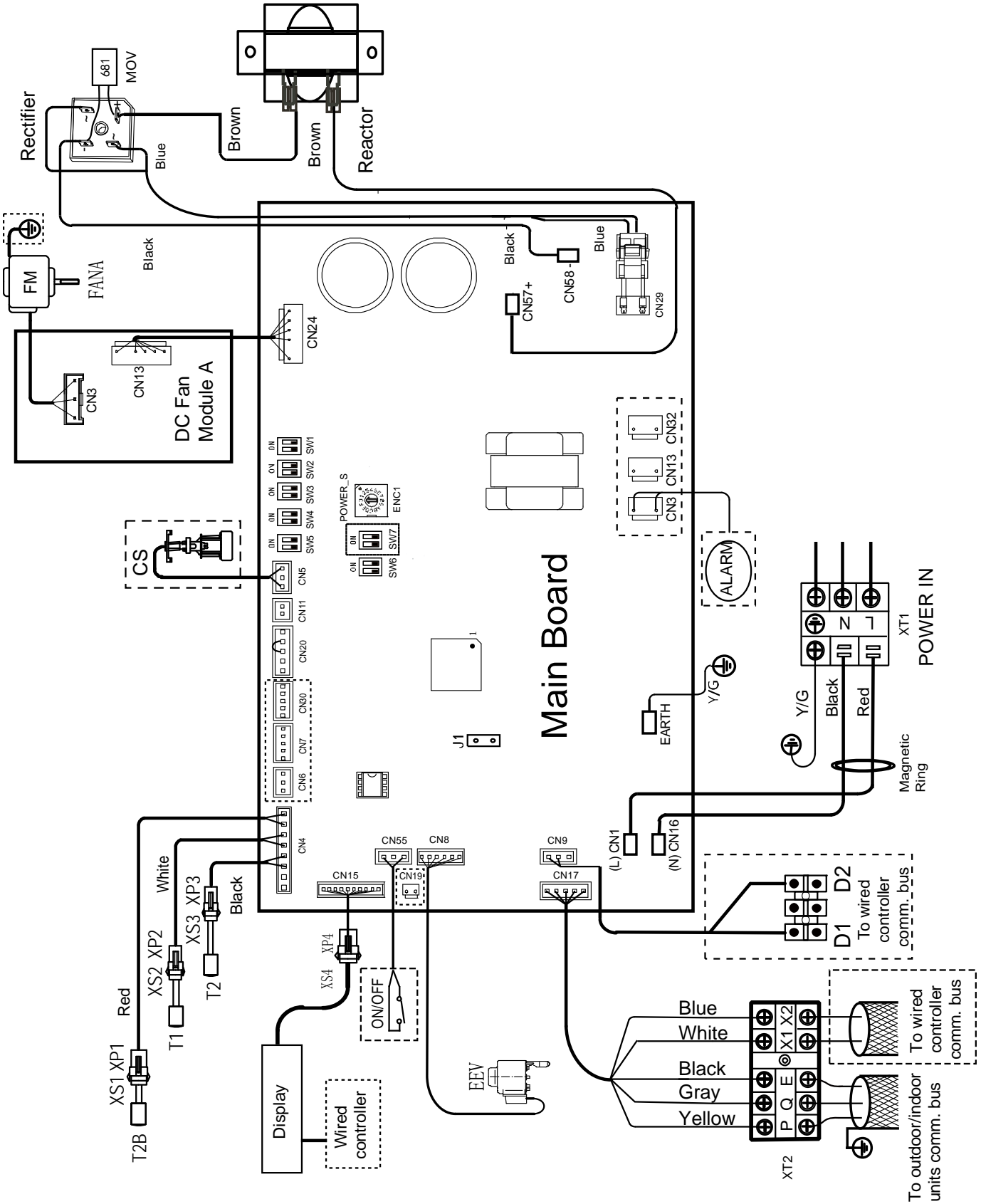
MI2-71T1DHN1 / MI2-80T1DHN1

Figure 5.1: MI2-71(80)T1DHN1 Duct wiring diagram



MI2-90T1DHN1 / MI2-112T1DHN1 / MI2-140T1DHN1 / MI2-160T1DHN1

Figure 5.2: MI2-90(112,140,160)T1DHN1 wiring diagram

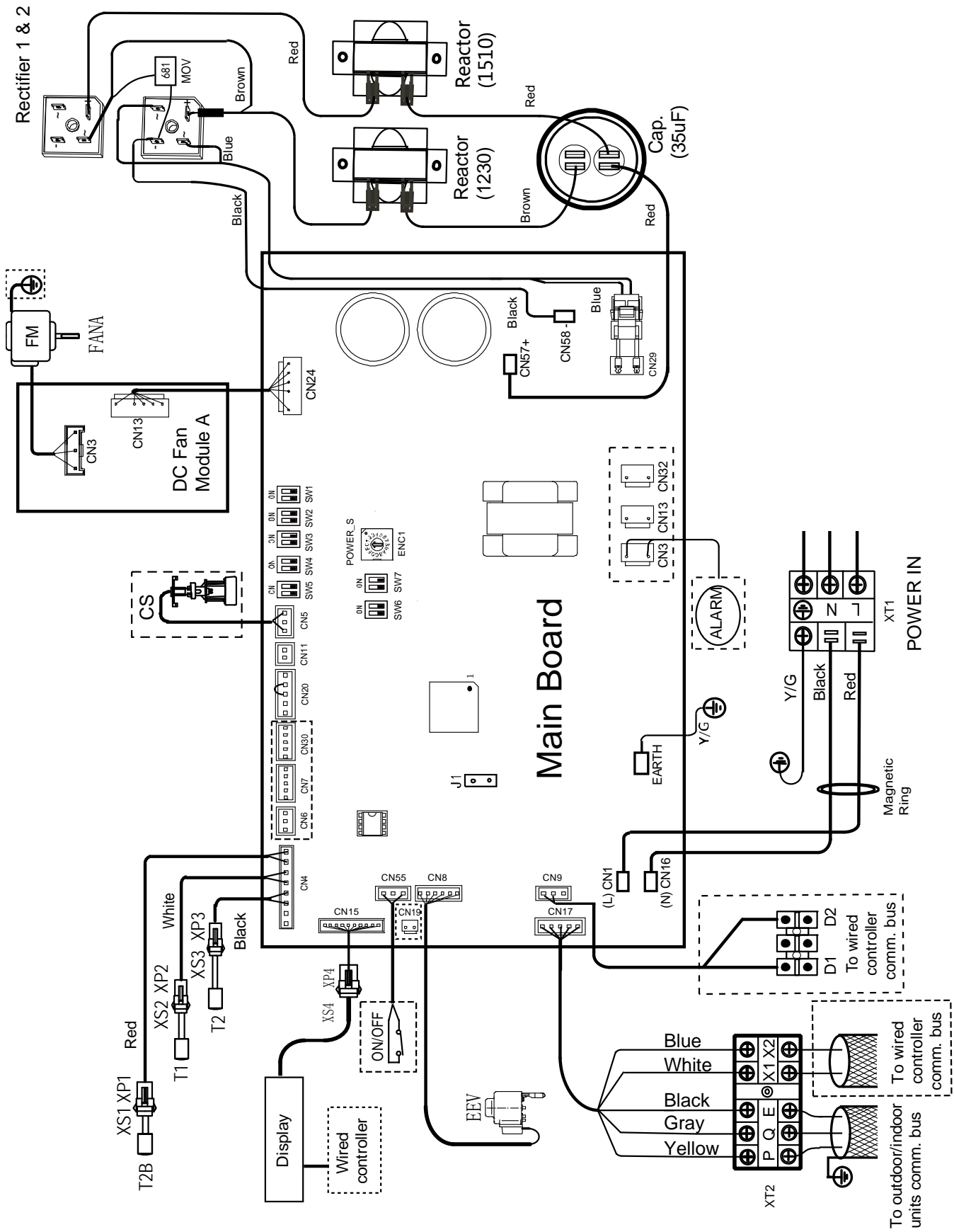


# The 2<sup>nd</sup> Generation DC Series VRF Indoor Units



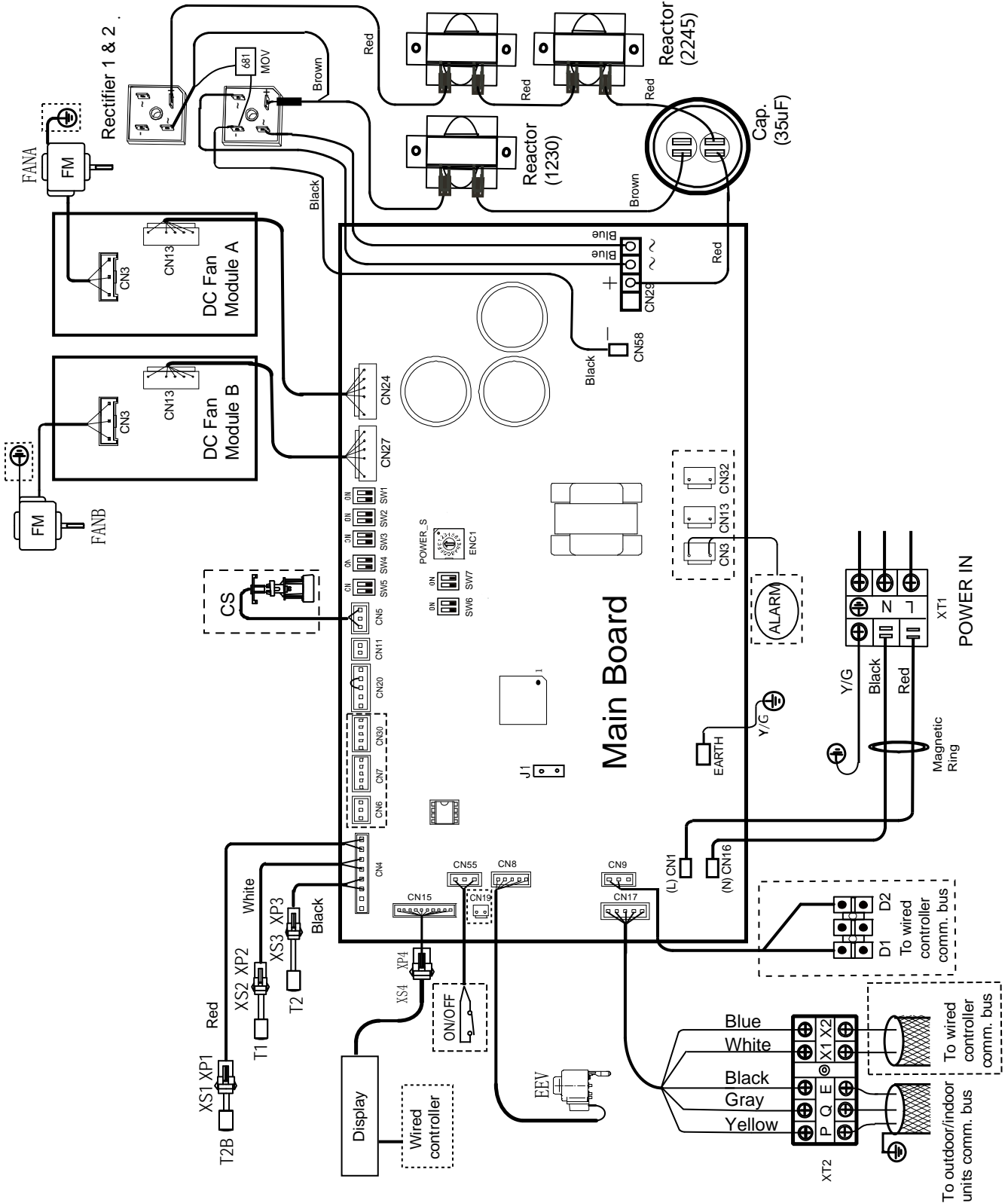
MI2-200T1DHN1 / MI2-250T1DHN1 / MI2-280T1DHN1

Figure 5.3: MI2-200(250,280)T1DHN1 wiring diagram



## MI2-400T1DHN1/ MI2-450T1DHN1/MI2-560T1DHN1

Figure 5.4: MI2-400(450,560)T1DHN1 wiring diagram





## 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.

## 6 Fan Performance

Figure 6.1: MI2-71(80)T1DHN1 fan performance

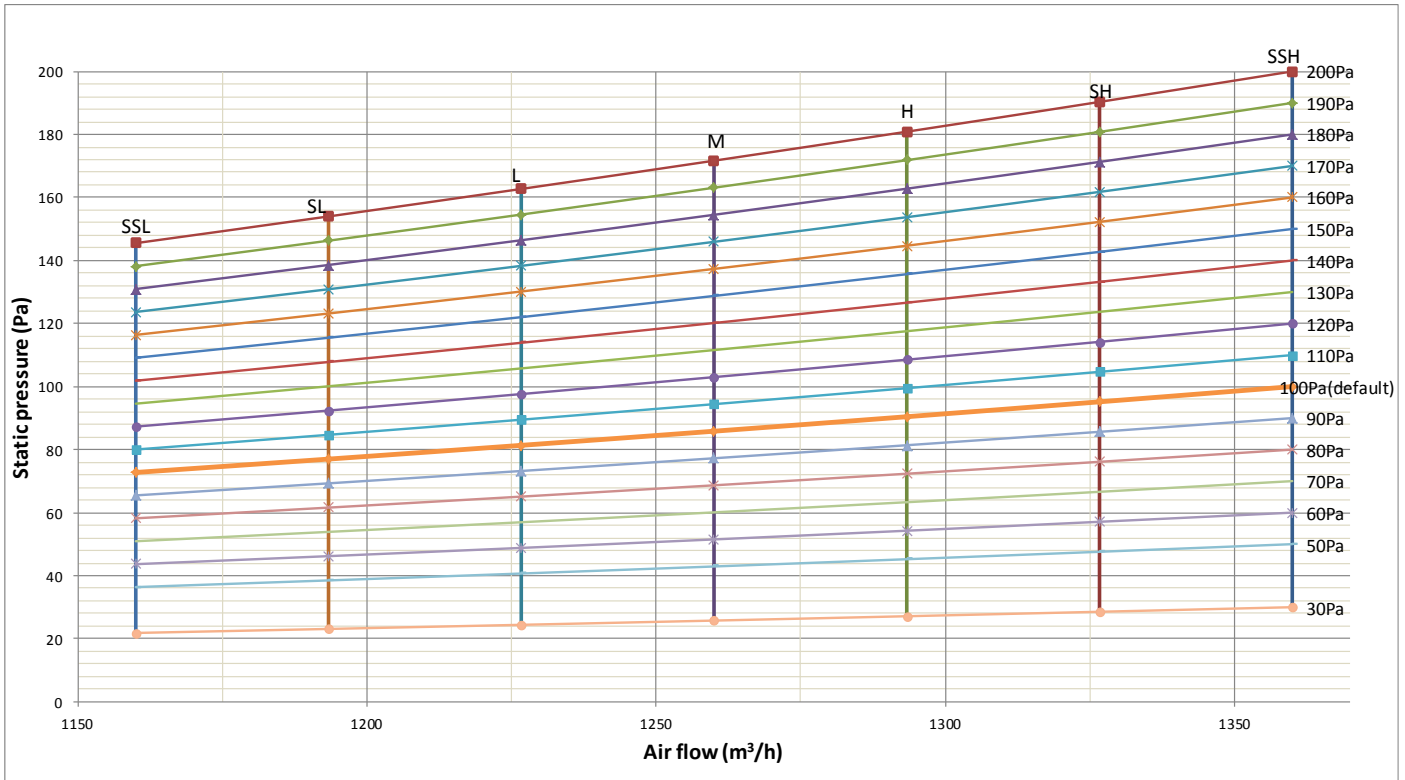
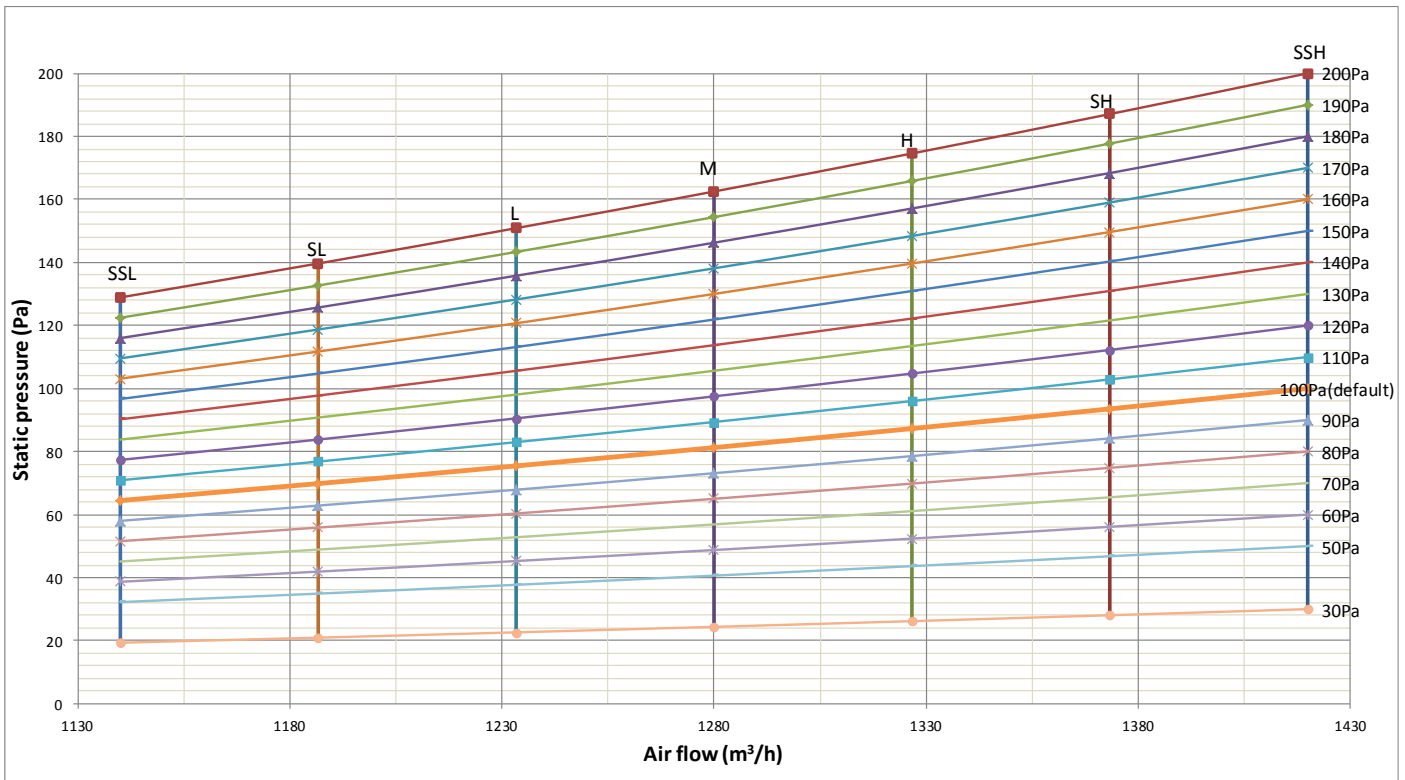


Figure 6.2: MI2-90T1DHN1 fan performance



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Figure 6.3: MI2-112T1DHN1 fan performance

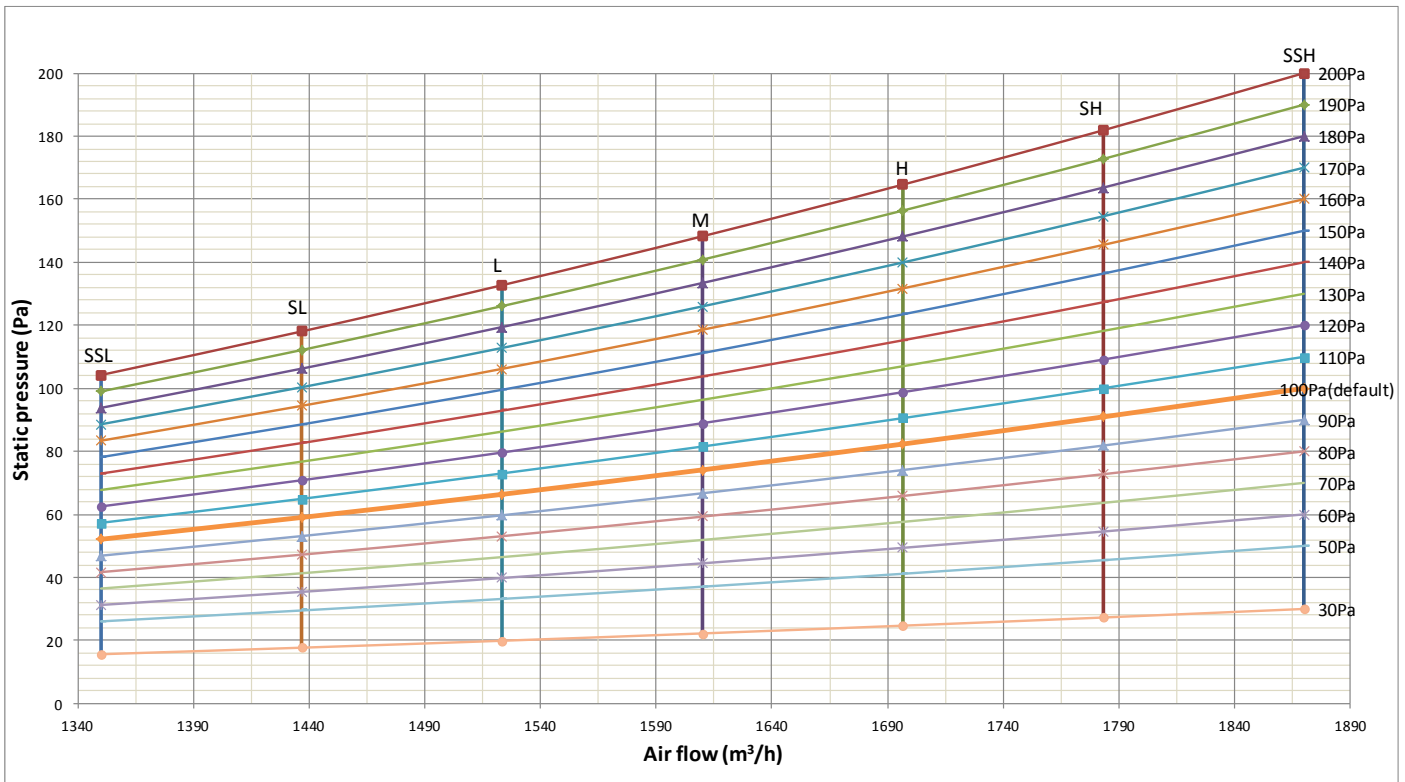


Figure 6.4: MI2-140T1DHN1 fan performance

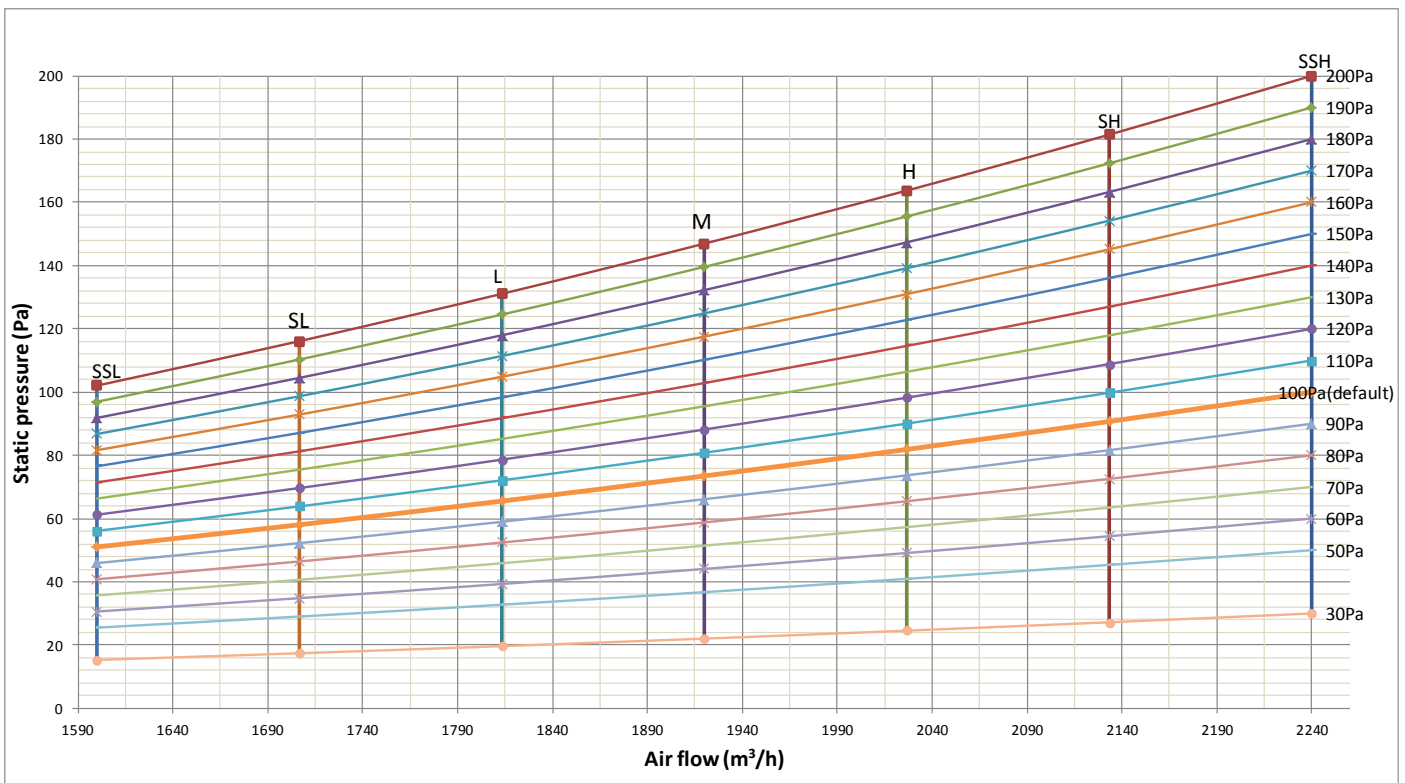


Figure 6.5: MI2-160T1DHN1 fan performance

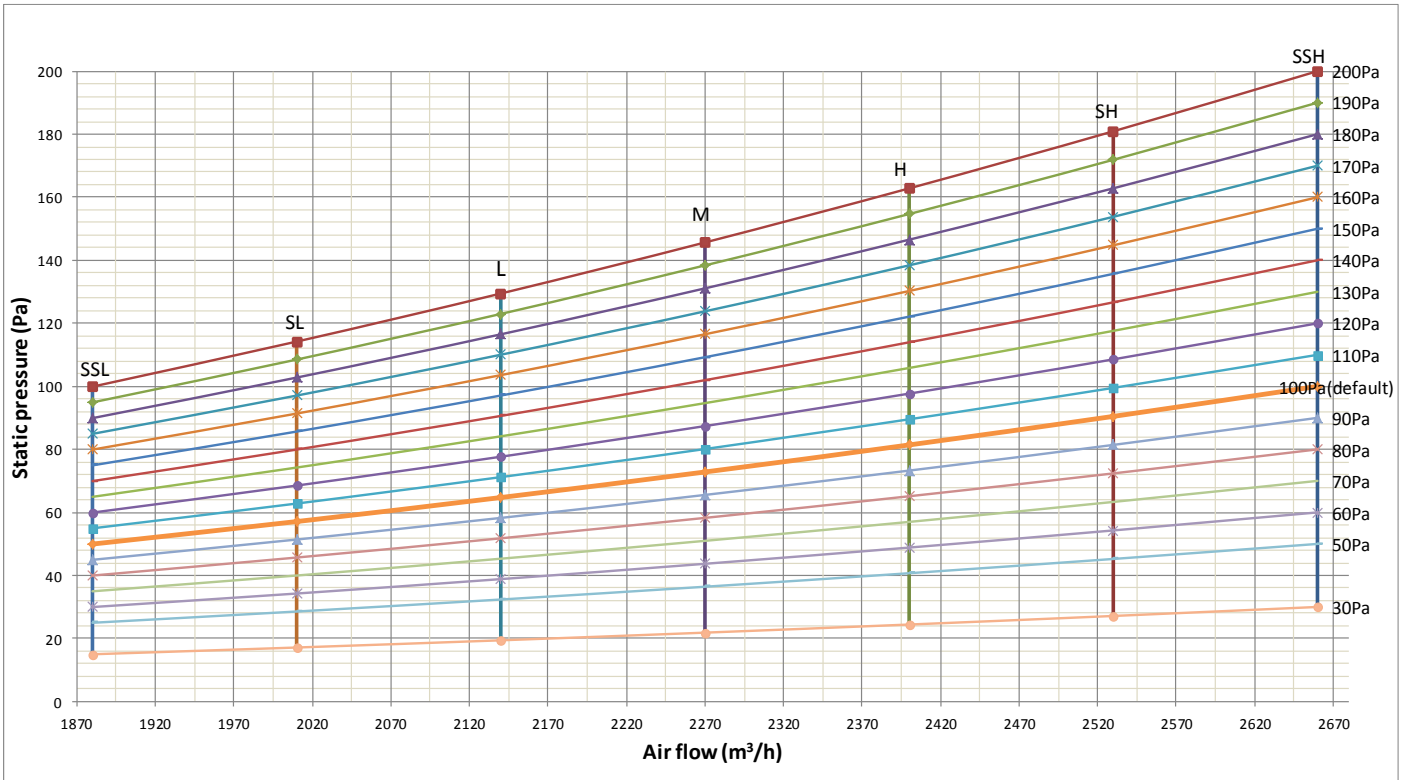
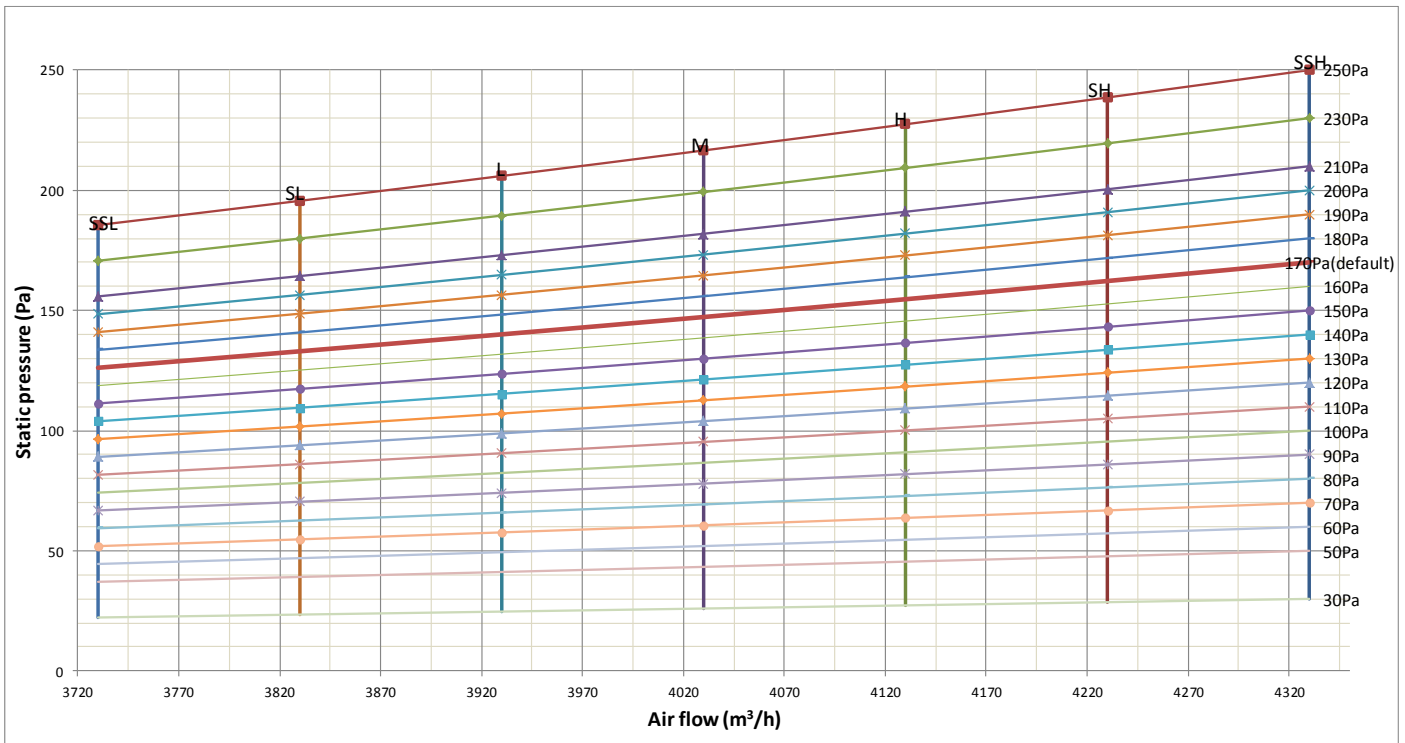


Figure 6.6: MI2-200(250,280)T1DHN1 fan performance



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Figure 6.7: MI2-400(450)T1DHN1 fan performance

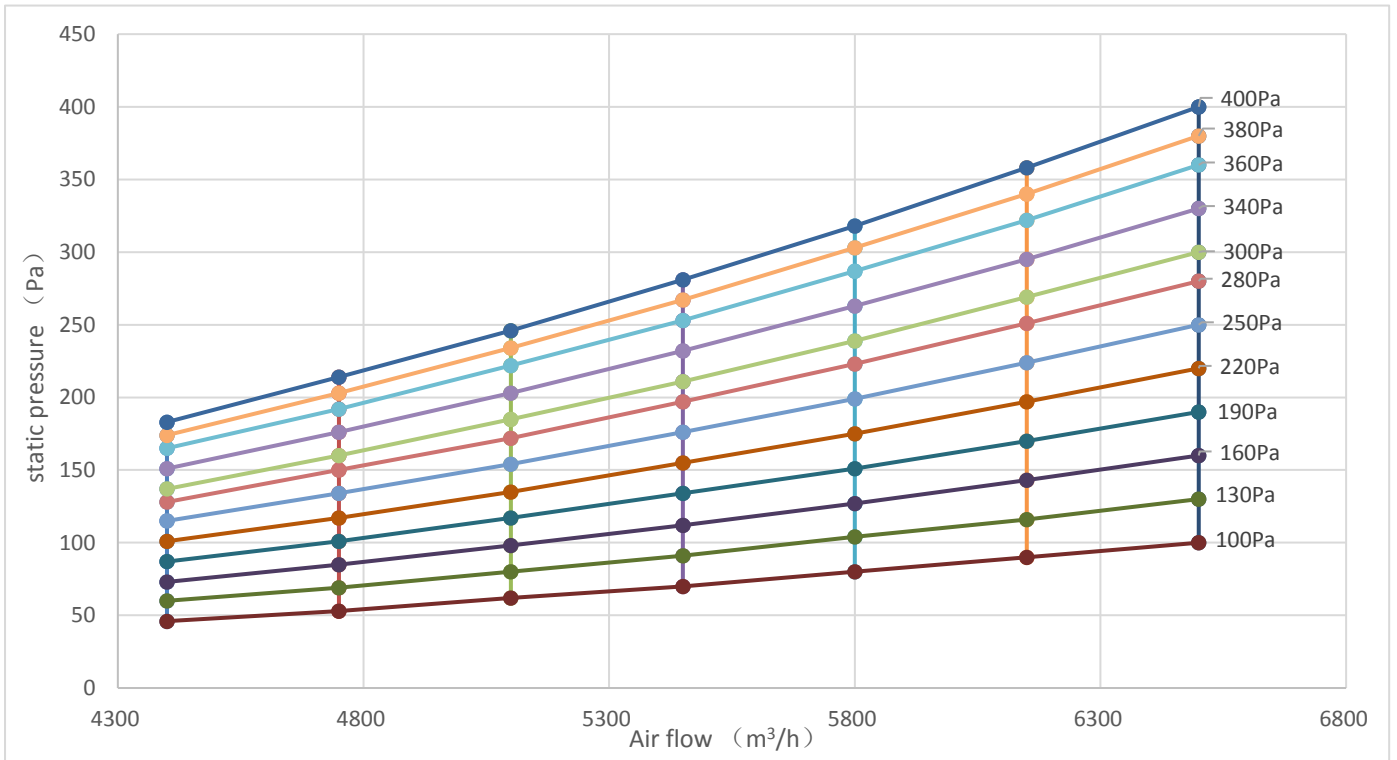


Figure 6.8: MI2-560T1DHN1 fan performance

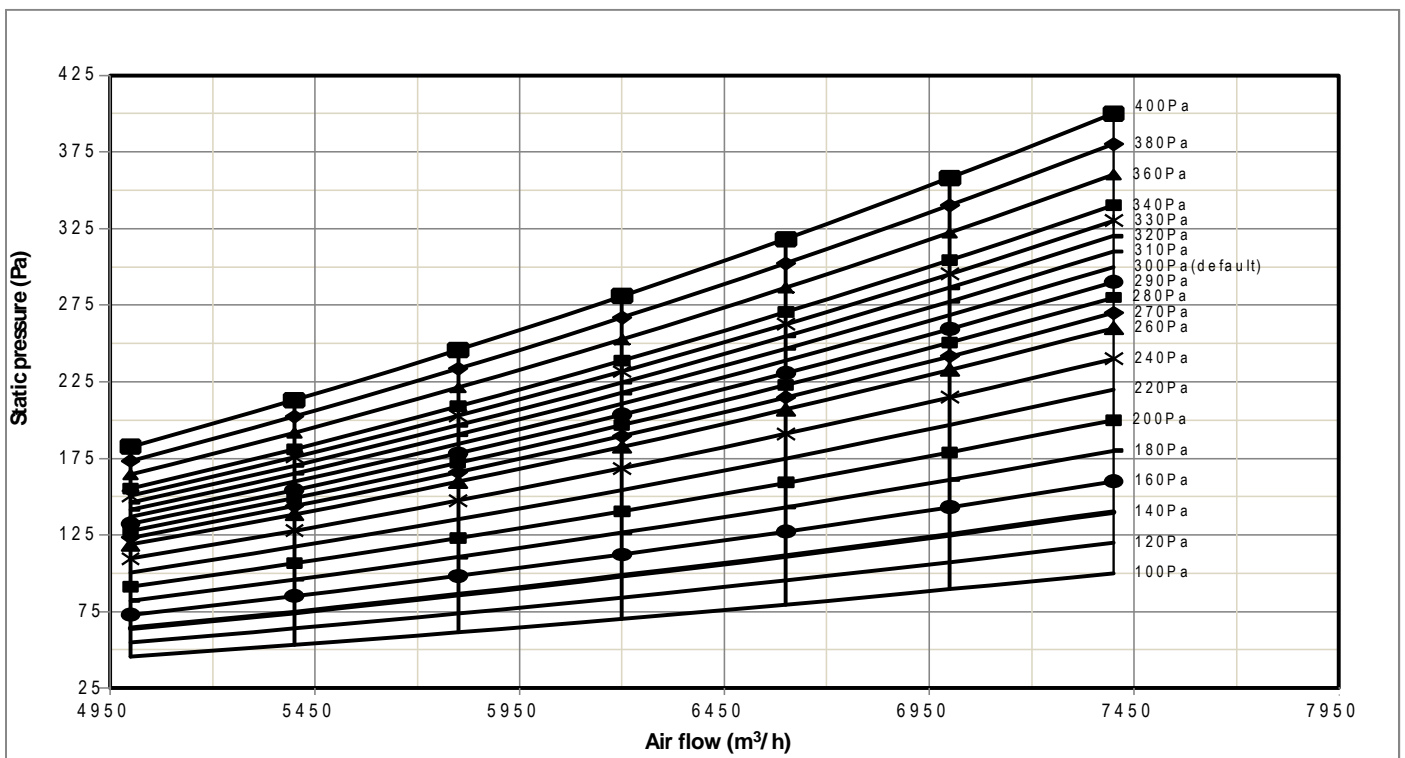


Table 6.1: ESP settings through DIP switch SW2

Capacity	ESP1	ESP2	ESP3	ESP4
7.1-16.0kW	100Pa	50Pa	170Pa	200Pa
20.0-28.0kW	170Pa	100Pa	200Pa	250Pa
40-56kW	300Pa	100Pa	200Pa	400Pa

Table 6.2: ESP settings through the new wired controller

Capacity	00	01	02	03	04	05	06	07	08	09
7.1-16.0kW	30Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa	110Pa	120Pa	130Pa
20.0-28.0kW	30Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa	110Pa	120Pa	130Pa
40-56kW	100Pa	120Pa	140Pa	160Pa	180Pa	200Pa	220Pa	240Pa	260Pa	270Pa
Capacity	10	11	12	13	14	15	16	17	18	19
7.1-16.0kW	140Pa	150Pa	160Pa	170Pa	180Pa	190Pa	200Pa	200Pa	200Pa	200Pa
20.0-28.0kW	140Pa	150Pa	160Pa	170Pa	180Pa	190Pa	200Pa	210Pa	230Pa	250Pa
40-56kW	280Pa	290Pa	300Pa	310Pa	320Pa	330Pa	340Pa	360Pa	380Pa	400Pa

## 7 Capacity Tables

### 7.1 Cooling Capacity Table

Table 7.1: 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
MI2-71T1DHN1	6.3	6.3	6.7	6.3	7.0	6.1	7.1	5.9	7.2	5.8	7.4	5.5	7.6	5.2
MI2-80T1DHN1	7.1	7.1	7.6	7.1	7.9	6.9	8.0	6.7	8.1	6.5	8.3	6.1	8.5	5.8
MI2-90T1DHN1	8.0	7.7	8.5	7.7	8.9	7.6	9.0	7.4	9.1	7.1	9.4	6.8	9.6	6.5
MI2-112T1DHN1	9.9	9.7	10.6	9.7	11.1	9.6	11.2	9.2	11.3	8.9	11.6	8.5	11.9	8.1
MI2-140T1DHN1	12.4	11.8	13.2	11.8	13.8	11.7	14.0	11.4	14.2	11.1	14.5	10.5	14.9	10.1
MI2-160T1DHN1	14.2	13.6	15.1	13.6	15.8	13.4	16.0	13.0	16.2	12.6	16.6	12.0	17.0	11.5
MI2-200T1DHN1	17.7	16.9	18.9	17.0	19.8	16.8	20.0	16.3	20.2	15.8	20.8	15.1	21.2	14.4
MI2-250T1DHN1	22.1	21.1	23.6	21.2	24.7	21.0	25.0	20.3	25.3	19.7	25.9	18.7	26.5	18.0
MI2-280T1DHN1	24.8	23.7	26.4	23.7	27.6	23.5	28.0	22.7	28.3	22.1	29.0	21.0	29.7	20.1
MI2-400T1DHN1	35.4	33.6	37.7	33.7	39.5	33.4	40.0	32.4	40.4	31.4	41.5	30.0	42.4	28.7
MI2-450T1DHN1	39.8	37.8	42.4	37.8	44.4	37.6	45.0	36.4	45.4	35.3	46.6	33.7	47.6	32.2
MI2-560T1DHN1	49.5	46.6	52.8	46.8	55.2	46.5	56.0	45.2	56.5	43.8	58.0	41.8	59.3	40.1

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity (kW)

Notes:

1. Shaded cells indicate rating condition

### 7.2 Heating Capacity Table

Table 7.2: High Static Pressure Duct heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MI2-71T1DHN1	8.5	8.4	8.0	7.8	7.5	7.0
MI2-80T1DHN1	9.5	9.5	9.0	8.7	8.5	7.8
MI2-90T1DHN1	10.6	10.5	10.0	9.7	9.4	8.8
MI2-112T1DHN1	13.3	13.1	12.5	12.1	11.8	10.9
MI2-140T1DHN1	17.0	16.8	16.0	15.5	15.0	13.9
MI2-160T1DHN1	18.0	17.9	17.0	16.5	16.0	14.8
MI2-200T1DHN1	23.9	23.6	22.5	21.8	21.2	19.6
MI2-250T1DHN1	27.6	27.3	26.0	25.2	24.4	22.6
MI2-280T1DHN1	33.4	33.1	31.5	30.6	29.6	27.4
MI2-400T1DHN1	47.7	47.3	45.0	43.7	42.3	39.2
MI2-450T1DHN1	53.0	52.5	50.0	48.5	47.0	43.5
MI2-560T1DHN1	66.8	66.2	63.0	61.1	59.2	54.8

Abbreviations:

TC: Total capacity (kW)

Notes:

1. Shaded cells indicate rating condition

## 8 Electrical Characteristics

Table 8.1: High 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
MI2-71T1DHN1	50/60	220-240	198	264	2.1	15	0.15	1.7
MI2-80T1DHN1	50/60	220-240	198	264	2.1	15	0.15	1.7
MI2-90T1DHN1	50/60	220-240	198	264	2.2	15	0.18	1.7
MI2-112T1DHN1	50/60	220-240	198	264	2.9	15	0.31	2.3
MI2-140T1DHN1	50/60	220-240	198	264	4.5	15	0.34	3.6
MI2-160T1DHN1	50/60	220-240	198	264	4.7	15	0.56	3.8
MI2-200T1DHN1	50/60	220-240	198	264	6.7	15	0.80	5.4
MI2-250T1DHN1	50/60	220-240	198	264	6.7	15	0.96	5.4
MI2-280T1DHN1	50/60	220-240	198	264	6.7	15	0.96	5.4
MI2-400T1DHN1	50/60	220-240	198	264	12.5	30	1.84	12.4
MI2-450T1DHN1	50/60	220-240	198	264	12.5	30	1.84	12.4
MI2-560T1DHN1	50/60	220-240	198	264	15.4	30	1.84	12.4

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps



## 9 Sound Levels

### 9.1 Overall

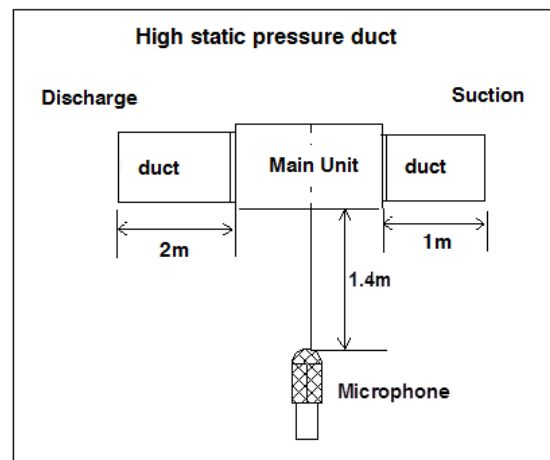
Table 9.1: High Static Pressure Duct sound pressure levels<sup>1</sup>

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
MI2-71T1DHN1	42	41	40	40	39	39	38
MI2-80T1DHN1	42	41	40	40	39	39	38
MI2-90T1DHN1	45	44	43	42	41	40	39
MI2-112T1DHN1	48	47	46	45	43	42	41
MI2-140T1DHN1	45	44	43	42	41	40	40
MI2-160T1DHN1	46	45	44	43	42	41	40
MI2-200T1DHN1	51	50	50	49	49	48	47
MI2-250T1DHN1	51	50	50	49	49	48	47
MI2-280T1DHN1	51	50	50	49	49	48	47
MI2-400T1DHN1	60	59	58	57	55	54	52
MI2-450T1DHN1	60	59	58	57	55	54	52
MI2-560T1DHN1	59	58	57	56	55	53	51

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: High Static Pressure Duct sound pressure level measurement



### 9.2 Octave Band Levels

Figure 9.2: MI2-71(80)T1DHN1 octave band levels

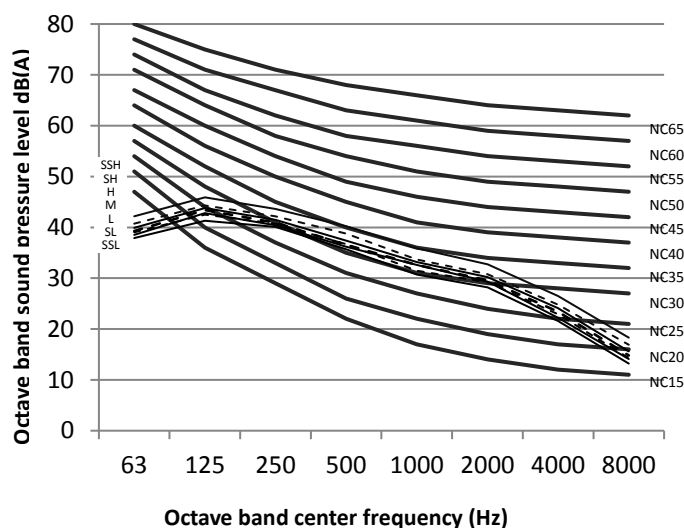


Figure 9.3: MI2-90T1DHN1 octave band levels

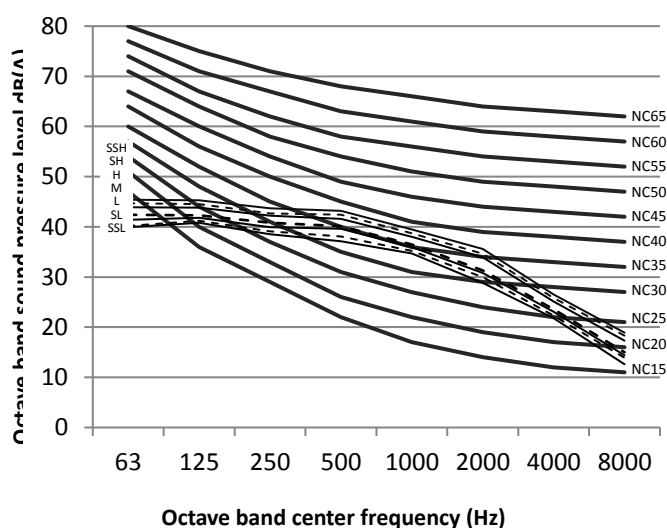


Figure 9.4: MI2-112T1DHN1 octave band levels

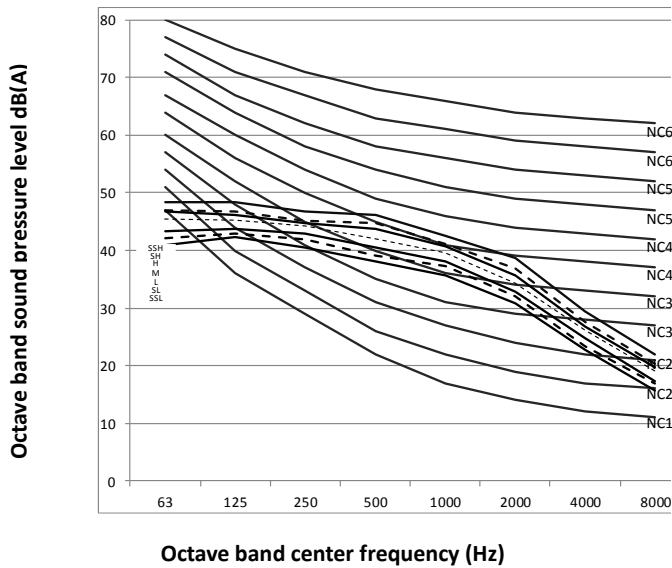


Figure 9.5: MI2-140T1DHN1 octave band levels

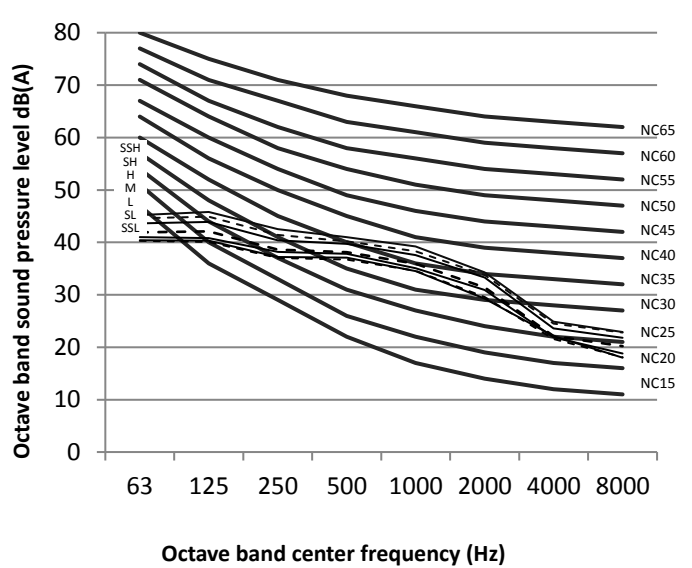


Figure 9.6: MI2-160T1DHN1 octave band levels

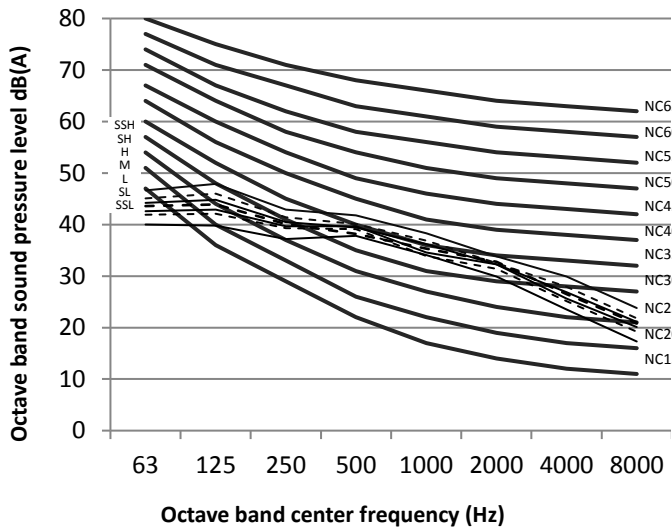


Figure 9.7: MI2-200(250,280)T1DHN1 octave band levels

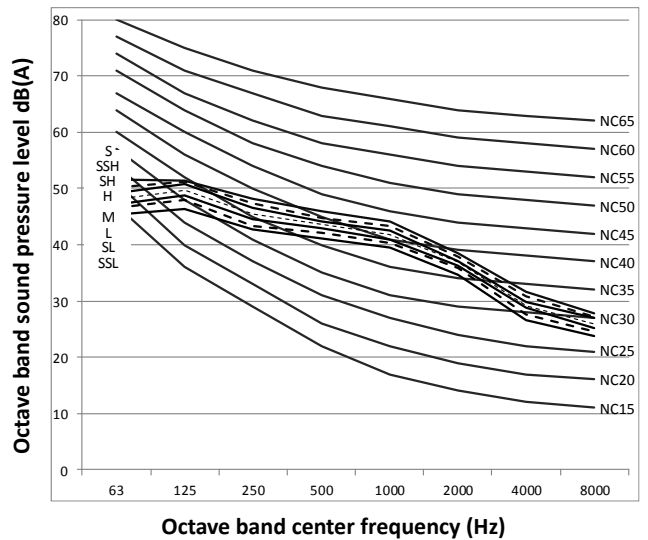


Figure 9.8: MI2-400(450)T1DHN1 octave band levels

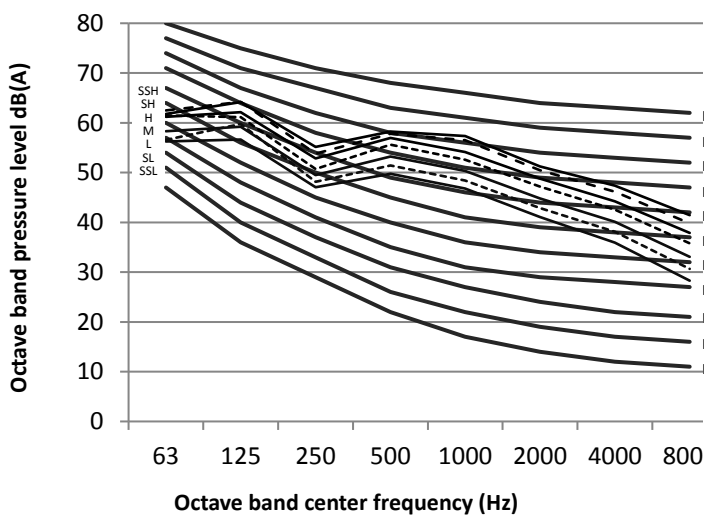
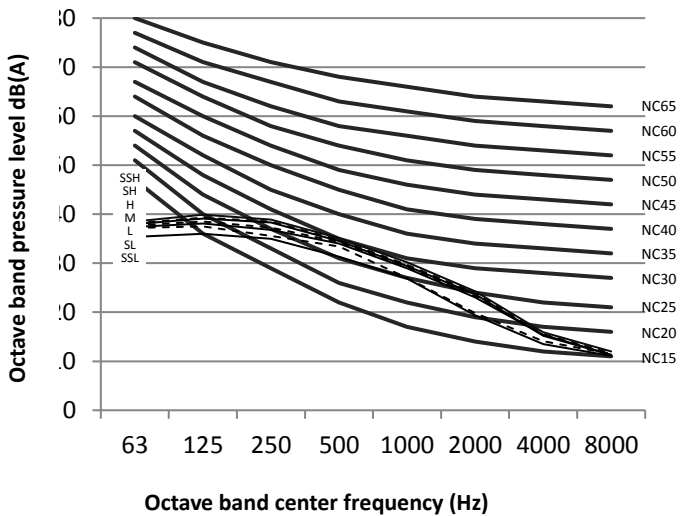


Figure 9.9: MI2-560T1DHN1 octave band levels



**Commercial Air Conditioner Division**  
**Midea Group**

**Add.:** Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

**Postal code:** 528311

[cac.midea.com](http://cac.midea.com) / [global.midea.com](http://global.midea.com)

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

