

Engineering Data

Two-way Cassette VRF IDU



MI2-22Q2DHN1

MI2-45Q2DHN1

MI2-28Q2DHN1

MI2-56Q2DHN1

MI2-36Q2DHN1

MI2-71Q2DHN1

Two-way Cassette

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The 2nd Generation DC Series VRF Indoor Units



1 Specifications

Table 1.1: MI2-22(28,36)Q2DHN1 specifications

Model name			MI2-22Q2DHN1	MI2-28Q2DHN1	MI2-36Q2DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	2.2	2.8	3.6
		kBtu/h	7.5	9.6	12.3
	Power input	W	35	40	40
Heating ²	Capacity	kW	2.6	3.2	4
		kBtu/h	8.9	10.9	13.6
	Power input	W	35	40	40
Fan motor	Type		DC		
	Number		1		
Coil	Number of rows		1		
	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	882×210×13.37		
	Number of circuits		4		
Air flow rate ³		m ³ /h	654/612/571/530/488/449/410		725/679/641/591/554/509/458
Sound pressure level ⁴		dB(A)	33/31/30/29/27/25/24		35/33/32/30/29/27/25
Main body	Net dimensions ⁵ (W×H×D)	mm	1172×299×591		
	Packed dimensions (W×H×D)	mm	1355×400×675		
	Net/Gross weight	kg	33.5/42.0		
Panel	Net dimensions (W×H×D)	mm	1430×53×680		
	Packed dimensions (W×H×D)	mm	1525×130×765		
	Net/Gross weight	kg	10.5/15		
Refrigerant type			R410A		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	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.
- 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.

Table 1.2: MI2-45(56,71)Q2DHN1 specifications

Model name			MI2-45Q2DHN1	MI2-56Q2DHN1	MI2-71Q2DHN1
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
	Power input	W	50	69	98
Heating ²	Capacity	kW	5	6.3	8
		kBtu/h	17.1	21.5	27.3
	Power input	W	50	69	98
Fan motor	Type		DC		
	Number		1		
Coil	Number of rows		2		
	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	882×210×26.74		
	Number of circuits		6		
Air flow rate ³		m ³ /h	850/792/731/670/631 /592/550	980/925/855/800/755 /702/670	1200/1115/1068/1000 /921/808/770
Sound pressure level ⁴		dB(A)	37/36/35/34/32/31/30	39/37/36/35/33/31/30	44/42/41/40/38/36/34
Main body	Net dimensions ⁵ (W×H×D)	mm	1172×299×591		
	Packed dimensions (W×H×D)	mm	1355×400×675		
	Net/Gross weight	kg	35/43.5		
Panel	Net dimensions (W×H×D)	mm	1430×53×680		
	Packed dimensions (W×H×D)	mm	1525×130×765		
	Net/Gross weight	kg	10.5/15		
Refrigerant type			R410A		
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 Φ32		

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. 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.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

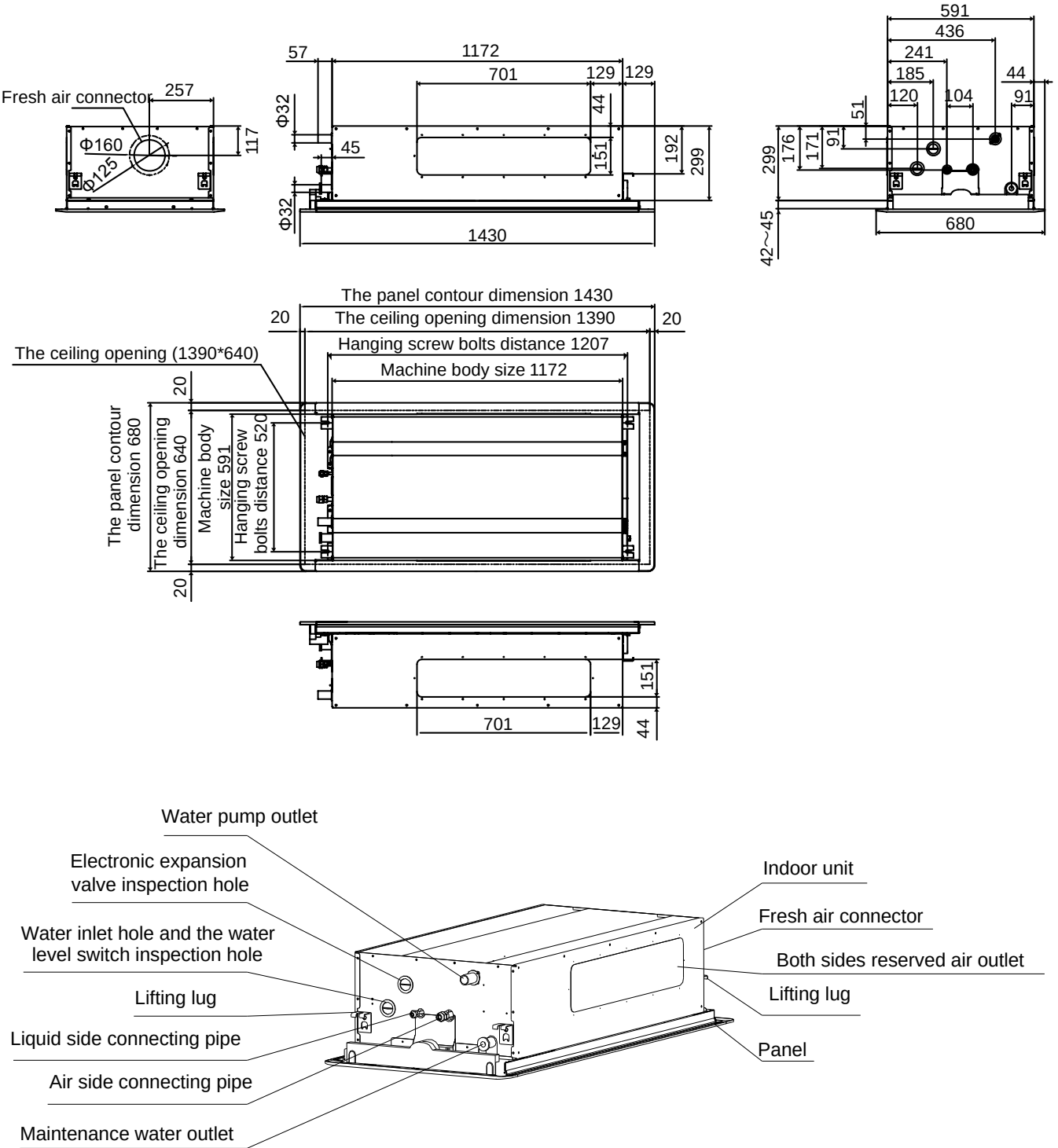
The 2nd Generation DC Series VRF Indoor Units



2 Dimensions

2.1 Unit Dimensions

Figure 2.1: Two-way Cassette dimensions (unit: mm)



3 Unit Placement

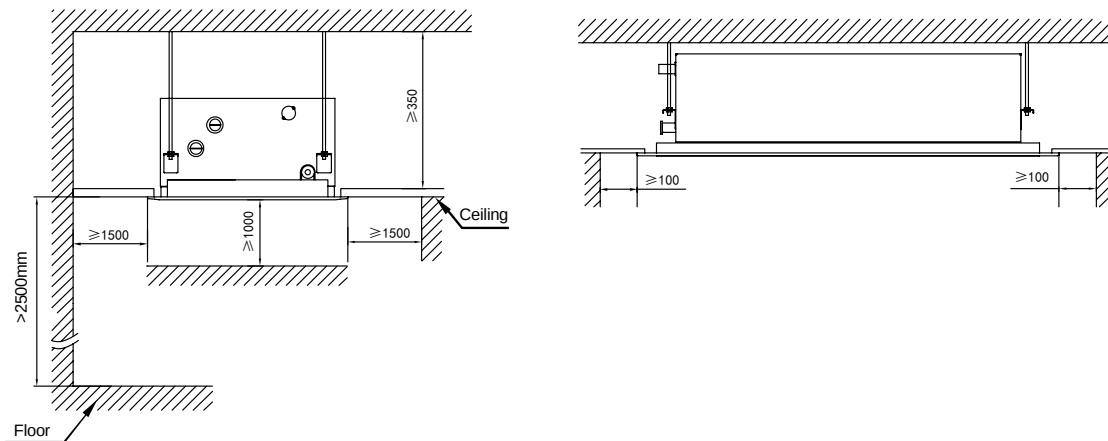
3.1 Placement Considerations

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: Two-way Cassette space requirements (unit: mm)



Notes:

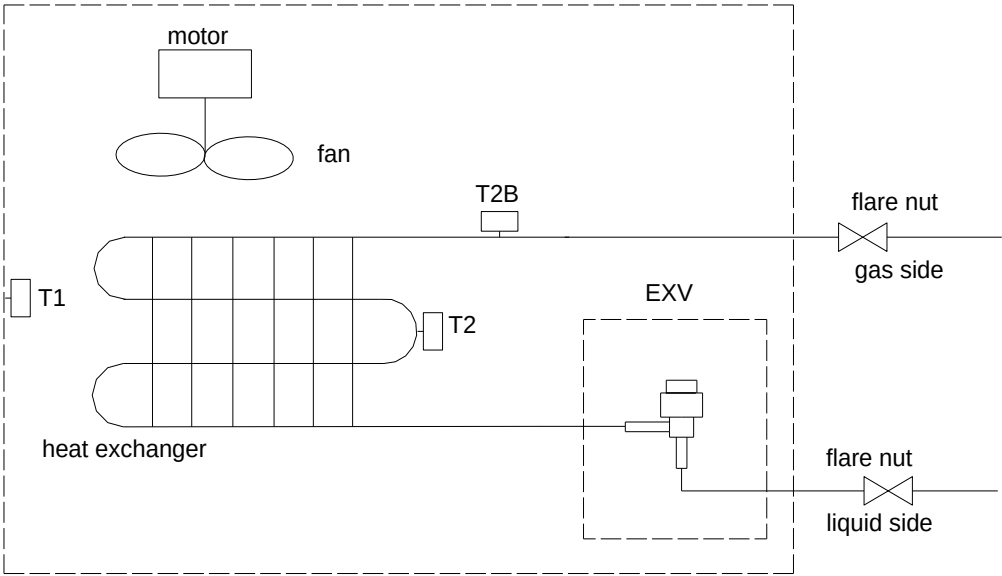
1. The centerline of the maintenance hole should be in the same position as the centerline of the indoor unit.

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4 Piping Diagram

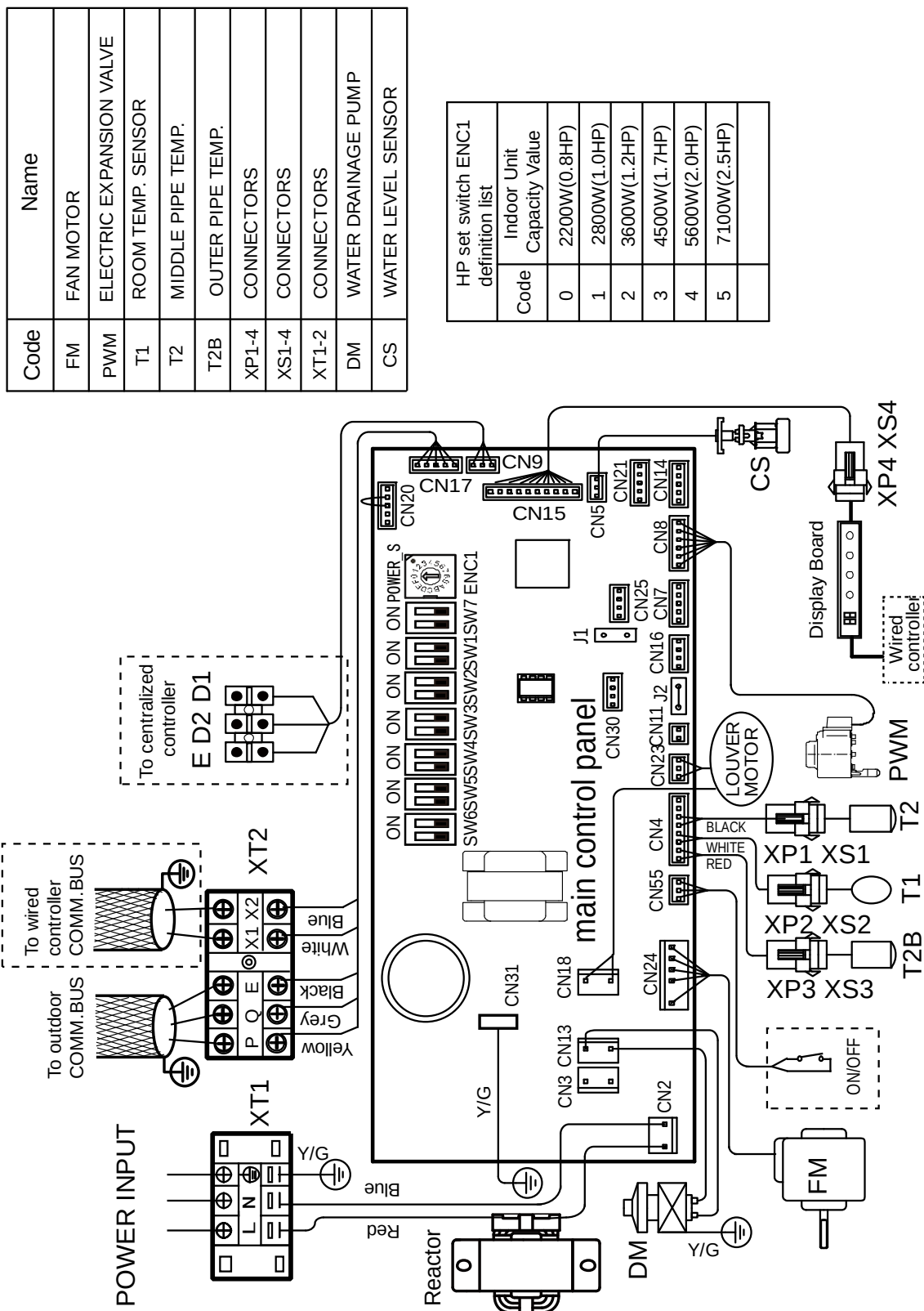
Figure 4.1: Two-way Cassette piping diagram



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

5 Wiring Diagram

Figure 5.1: Two-way Cassette wiring diagram



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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 Capacity Tables

6.1 Cooling Capacity Table

Table 6.1: Two-way Cassette 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
MI2-22Q2DHN1	2.0	2.0	2.1	2.1	2.2	2.0	2.2	1.9	2.3	1.9	2.3	1.7	2.4	1.7
MI2-28Q2DHN1	2.5	2.5	2.7	2.6	2.8	2.5	2.8	2.4	2.9	2.4	2.9	2.2	3.0	2.1
MI2-36Q2DHN1	3.2	3.2	3.4	3.3	3.6	3.3	3.6	3.1	3.7	3.0	3.8	2.9	3.9	2.7
MI2-45Q2DHN1	4.0	4.0	4.3	4.0	4.5	3.9	4.5	3.8	4.6	3.7	4.7	3.5	4.8	3.3
MI2-56Q2DHN1	5.0	5.0	5.3	5.0	5.6	4.9	5.6	4.7	5.7	4.6	5.8	4.3	6.0	4.1
MI2-71Q2DHN1	6.3	6.3	6.7	6.3	7.0	6.2	7.1	6.0	7.2	5.8	7.4	5.5	7.6	5.2

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity(kW)

Notes:

1.Shaded cells indicate rating condition

6.2 Heating Capacity Table

Table 6.2: Two-way Cassette heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MI2-22Q2DHN1	2.8	2.8	2.6	2.5	2.4	2.3
MI2-28Q2DHN1	3.4	3.4	3.2	3.1	3.0	2.8
MI2-36Q2DHN1	4.2	4.2	4.0	3.8	3.8	3.5
MI2-45Q2DHN1	5.3	5.3	5.0	4.8	4.7	4.4
MI2-56Q2DHN1	6.7	6.6	6.3	6.1	5.9	5.5
MI2-71Q2DHN1	8.5	8.4	8.0	7.8	7.5	7.0

Abbreviations:

TC: Total capacity (kW)

Notes:

1.Shaded cells indicate rating condition

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7 Electrical Characteristics

Table 7.1: Two-way Cassette electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
MI2-22Q2DHN1	50/60	220-240	198	264	0.47	15	0.1	0.38
MI2-28Q2DHN1	50/60	220-240	198	264	0.47	15	0.1	0.38
MI2-36Q2DHN1	50/60	220-240	198	264	0.52	15	0.1	0.42
MI2-45Q2DHN1	50/60	220-240	198	264	0.59	15	0.1	0.47
MI2-56Q2DHN1	50/60	220-240	198	264	0.9	15	0.1	0.72
MI2-71Q2DHN1	50/60	220-240	198	264	1.3	15	0.1	1.04

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

8 Sound Levels

8.1 Overall

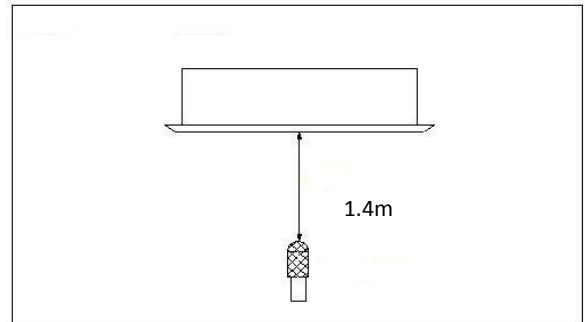
Table 8.1: Two-way Cassette sound pressure levels¹

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
MI2-22Q2DHN1	33	31	30	29	27	25	24
MI2-28Q2DHN1	33	31	30	29	27	25	24
MI2-36Q2DHN1	35	33	32	30	29	27	25
MI2-45Q2DHN1	37	36	35	34	32	31	30
MI2-56Q2DHN1	39	37	36	35	33	31	30
MI2-71Q2DHN1	44	42	41	40	38	36	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 8.1: Two-way Cassette sound pressure level measurement



8.2 Octave Band Levels

Figure 8.2: MI2-22(28)Q2DHN1 octave band levels

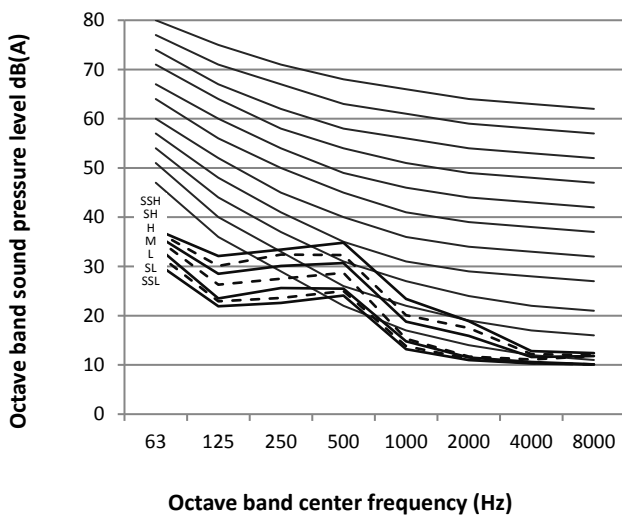


Figure 8.3: MI2-36Q2DHN1 octave band levels

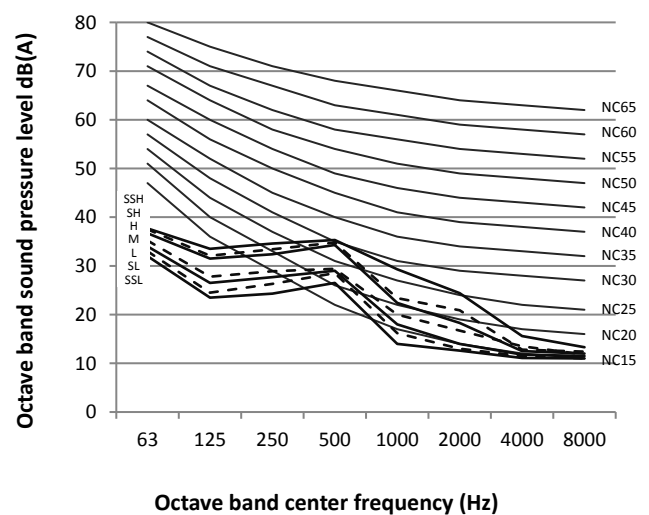


Figure 8.4: MI2-45Q2DHN1 octave band levels

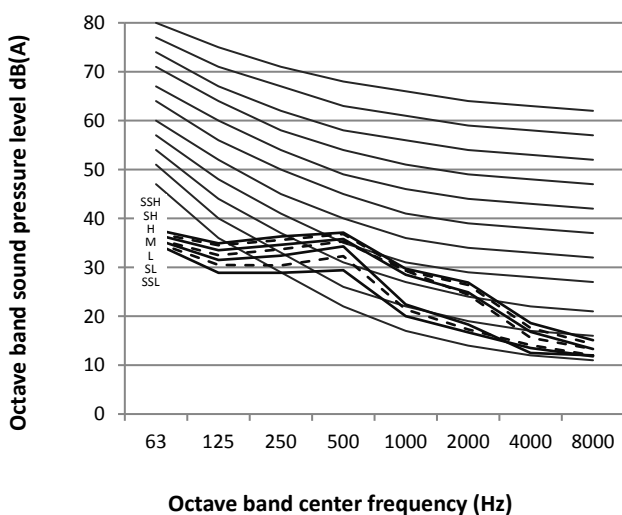
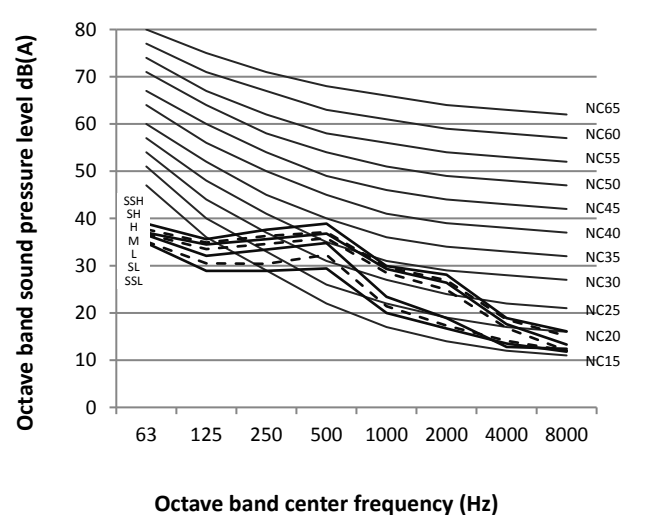


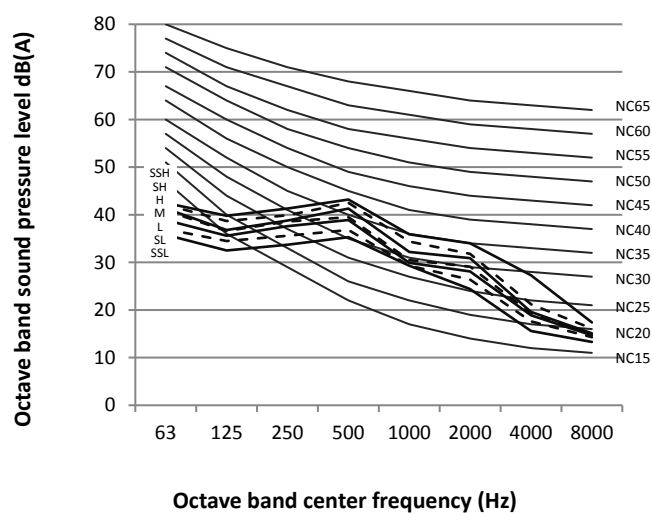
Figure 8.5: MI2-56Q2DHN1 octave band levels



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Figure 8.6: MI2-71Q2DHN1 octave band levels



9 Temperature and Airflow Distributions

9.1 Simulate condition

Table 9.1: Two-way Cassette simulate condition

Model name	Room size (m)	Ceiling height (m)	Flow angle (Cooling/Heating)	Placing
MI2-22Q2DHN1	6*6	2.7	35° /55°	Cassette
MI2-28Q2DHN1	6*6	2.7	35° /55°	Cassette
MI2-36Q2DHN1	6*6	2.7	35° /55°	Cassette
MI2-45Q2DHN1	8*8	2.7	35° /55°	Cassette
MI2-56Q2DHN1	8*8	2.7	35° /55°	Cassette
MI2-71Q2DHN1	8*8	2.7	35° /55°	Cassette

Note:

- These figures and videos are based on software simulation. They show typical temperature and airflow distributions in the conditions above. In the actual installation, they may differ from these figures and videos under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

9.2 Airflow distributions (unit: m/s)

Figure 9.1: MI2-22Q2DHN1 cooling at 300S

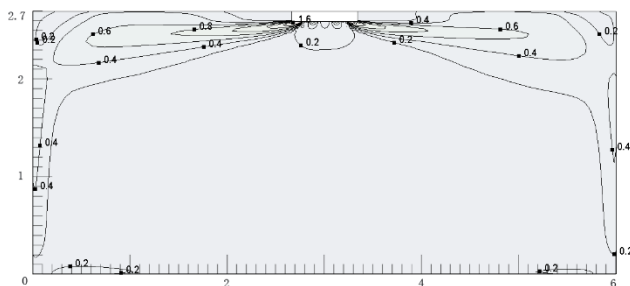


Figure 9.2: MI2-22Q2DHN1 heating at 300S

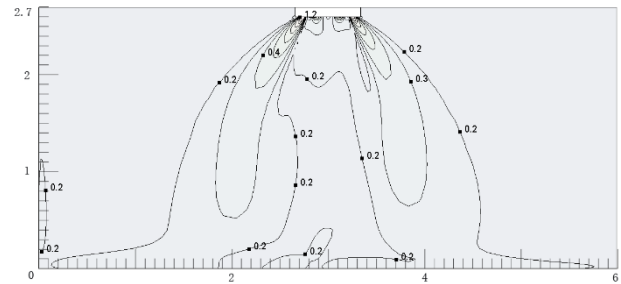


Figure 9.3: MI2-28Q2DHN1 cooling at 300S

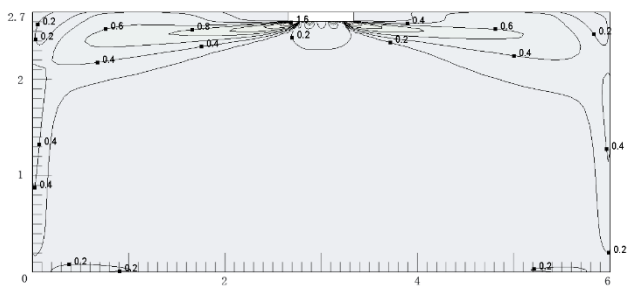


Figure 9.4: MI2-28Q2DHN1 heating at 300S

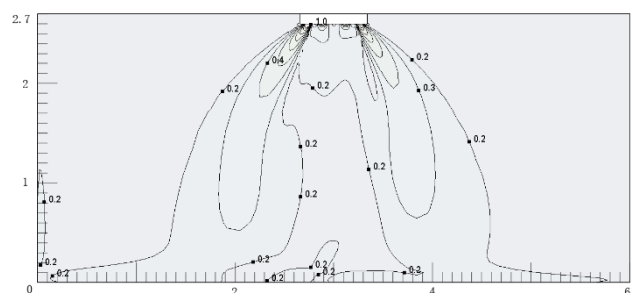


Figure 9.5: MI2-36Q2DHN1 cooling at 300S

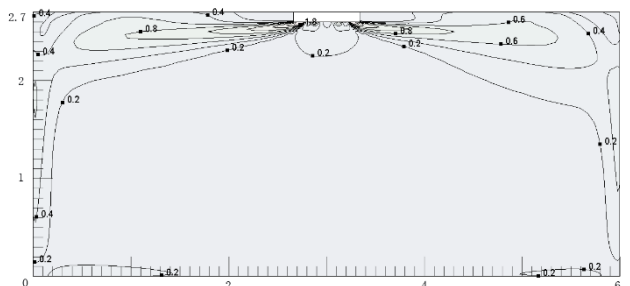
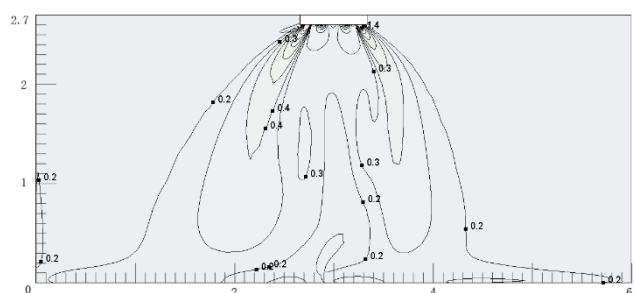


Figure 9.6: MI2-36Q2DHN1 heating at 300S



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Figure 9.7: MI2-45Q2DHN1 cooling at 300S

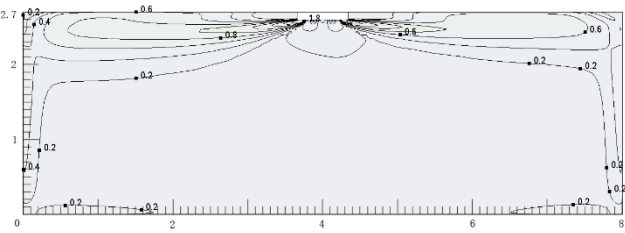


Figure 9.8: MI2-45Q2DHN1 heating at 300S

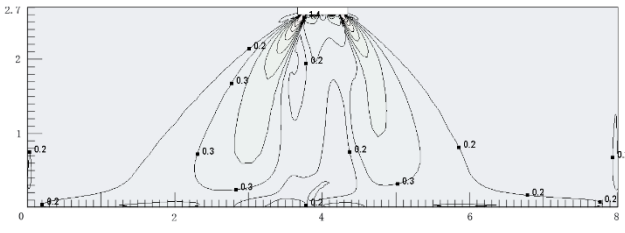


Figure 9.9: MI2-56Q2DHN1 cooling at 300S

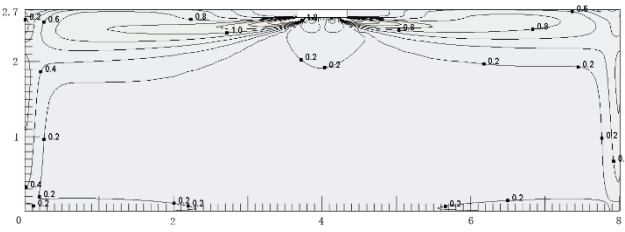


Figure 9.10: MI2-56Q2DHN1 heating at 300S

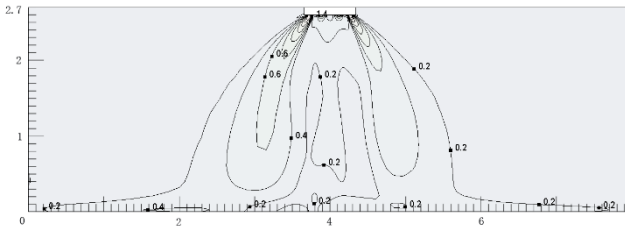


Figure 9.11: MI2-71Q2DHN1 cooling at 300S

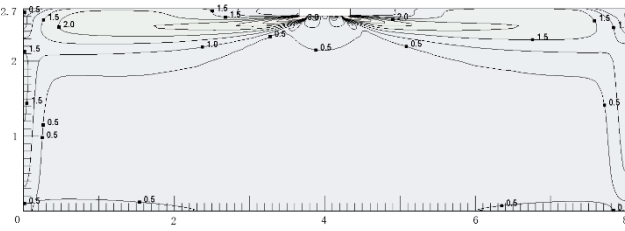
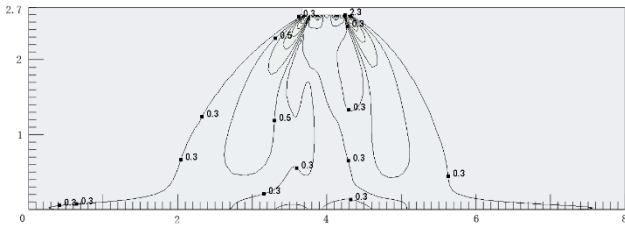


Figure 9.12: MI2-71Q2DHN1 heating at 300S



9.3 Temperature distributions (unit: °C)

Figure 9.13: MI2-22Q2DHN1 cooling at 300S

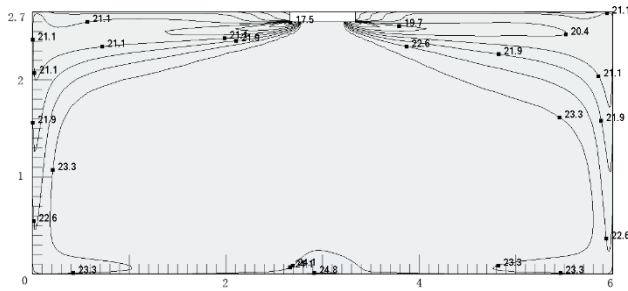


Figure 9.14: MI2-22Q2DHN1 heating at 300S

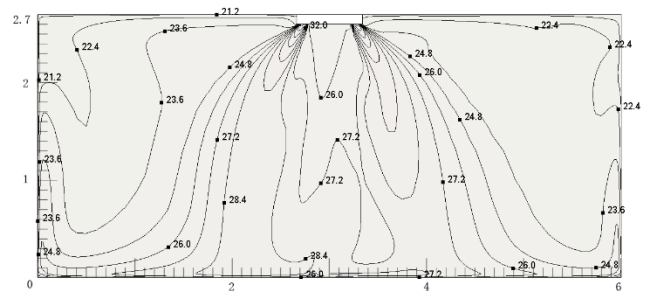


Figure 9.15: MI2-28Q2DHN1 cooling at 300S

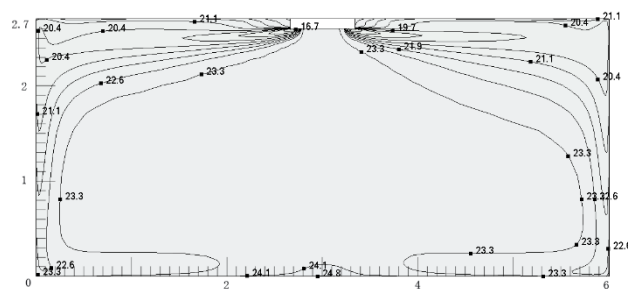


Figure 9.16: MI2-28Q2DHN1 heating at 300S

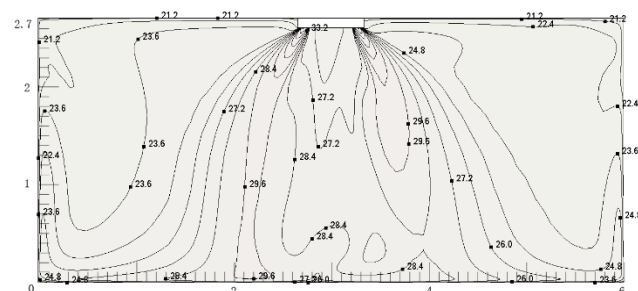


Figure 9.17: MI2-36Q2DHN1 cooling at 300S

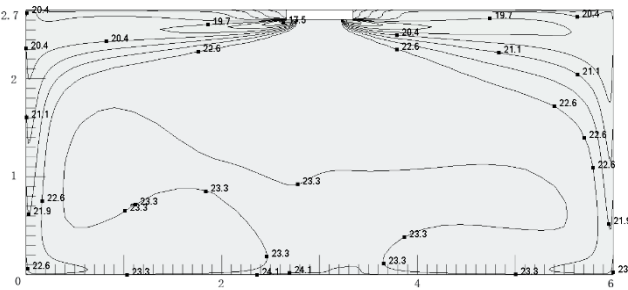


Figure 9.18: MI2-36Q2DHN1 heating at 300S

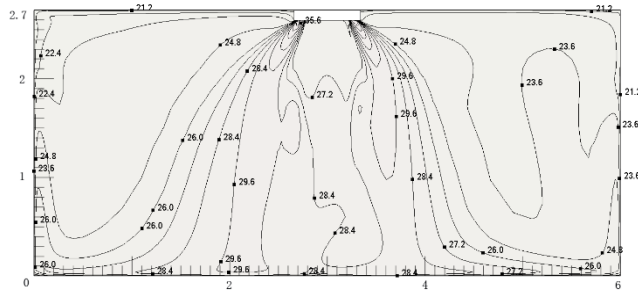


Figure 9.19: MI2-45Q2DHN1 cooling at 300S

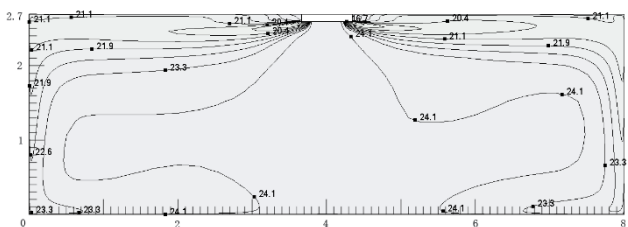
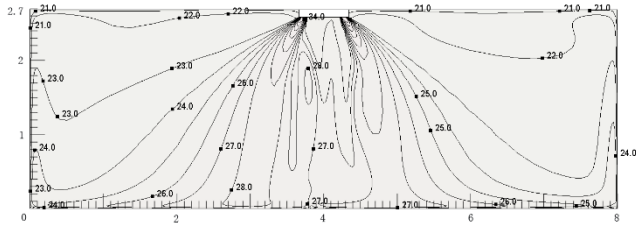


Figure 9.20: MI2-45Q2DHN1 heating at 300S



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Figure 9.21: MI2-56Q2DHN1 cooling at 300S

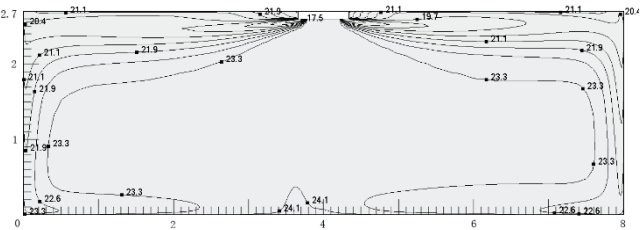


Figure 9.22: MI2-56Q2DHN1 heating at 300S

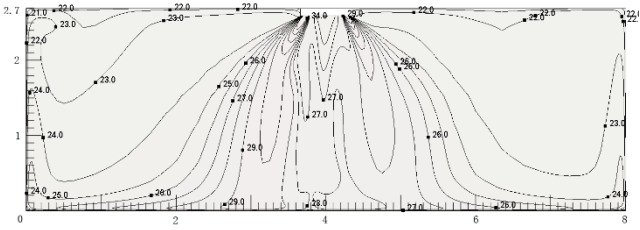


Figure 9.23: MI2-71Q2DHN1 cooling at 300S

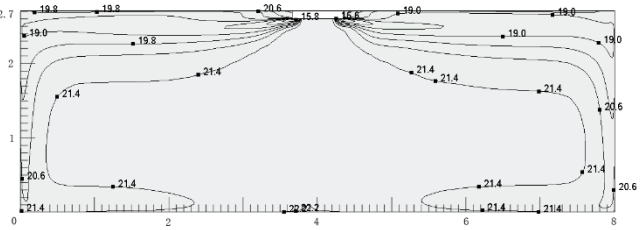
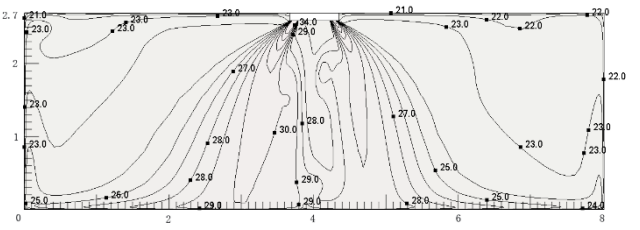


Figure 9.24: MI2-71Q2DHN1 heating at 300S



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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.



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