R410A/R32

Commercial Air Conditioners

Engineering Data

Four-way Cassette VRF IDU



MIH28Q4N18	MIH90Q4N18
MIH36Q4N18	MIH100Q4N18
MIH45Q4N18	MIH112Q4N18
MIH56Q4N18	MIH140Q4N18
MIH71Q4N18	MIH160Q4N18
MIH80Q4N18	MIH180Q4N18

Four-way Cassette

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1 Specifications

Table 1.1: MIH28(36,45,56)Q4N18 specifications

Model			**MIH28Q4N18**	**MIH36Q4N18**	**MIH45Q4N18**	**MIH56Q4N18**
Power supply			1-phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	2.8	3.6	4.5	5.6
		kBtu/h	9.6	12.3	15.4	19.1
	Power input	W	17	17	23	23
Heating[2]	Capacity	kW	3.2	4.0	5.0	6.3
		kBtu/h	10.9	13.7	17.1	21.5
	Power input	W	17	17	23	23
Fan motor type			DC			
Indoor coil	Number of rows		1	1	2	2
	Tube pitch × row pitch	mm	18×10.72			
	Fin spacing and type	mm	1.2 Hydrophilic aluminum			
	Tube OD and type	mm	Φ5 Inner-groove			
	Dimensions (L×H×W)	mm	2165×144×10.72			
	Number of circuits		4	4	8	8
Air flow rate[3]		m^3/h	790/740/691/641/591/542/492		840/787/733/680/626/573/519	840/791/741/692/642/593/543
Sound pressure level[4]		dB(A)	30/29/28/27.5/27/26/25	30/29/28/27.5/27/26/25	33/32/31/30/29/28/27	33/32/31/30/29/28/27
Sound power level		dB(A)	43/42/41/41/40/39/39	44/43/42/42/41/40/39	49/48/47/46/45/44/43	49/48/48/47/46/45/44
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840			
	Packed dimensions (W×H×D)	mm	940×250×940			
	Net/Gross weight	kg	18/20.5		19.5/22	
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950			
	Packed dimensions (W×H×D)	mm	1020×90×1020			
	Net/Gross weight	kg	5.6/7.3			
Refrigerant type			R410A/R32			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ25			

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. 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 1.5m below the unit in a semi-anechoic chamber.
5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
6. Exposed height of the panel after being installed on the ceiling.

Table 1.2: MIH71(80,90)Q4N18 specifications

Model			MIH71Q4N18	MIH80Q4N18	MIH90Q4N18
Power supply			1-phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	7.1	8.0	9.0
		kBtu/h	24.2	27.3	30.7
	Power input	W	31	41	43
Heating[2]	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
	Power input	W	31	41	43
Fan motor type			DC		
Indoor coil	Number of rows		2	2	2
	Tube pitch × row pitch	mm	18×10.72		
	Fin spacing and type	mm	1.2 Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	2165×198×21.44		
	Number of circuits		11	11	11
Air flow rate[3]		m^3/h	1000/943/886/829/772/715/658	1330/1239/1148/1057/965/874/783	1330/1239/1148/1057/965/874/783
Sound pressure level[4]		dB(A)	37/36/34/33/32/30/29	38/37/35/34/32/31/29	38/37/35/34/32/31/29
Sound power level		dB(A)	51/50/49/48/47/46/46	53/52/51/50/49/48/47	54/53/52/51/50/49/48
Main body	Net dimensions[5] (W×H×D)	mm	840×246×840		
	Packed dimensions (W×H×D)	mm	940×295×940		
	Net/Gross weight	kg	22/24.5		
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950		
	Packed dimensions (W×H×D)	mm	1020×90×1020		
	Net/Gross weight	kg	5.6/7.3		
Refrigerant type			R410A/R32		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9		
	Drain pipe	mm	OD Φ25		

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. 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 1.5m below the unit in a semi-anechoic chamber.
5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
6. Exposed height of the panel after being installed on the ceiling.

Table 1.3: MIH100(112,140)Q4N18 specifications

Model			**MIH100Q4N18**	**MIH112Q4N18**	**MIH140Q4N18**
Power supply			1-phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	10.0	11.2	14.0
		kBtu/h	34.1	38.2	47.8
	Power input	W	54	61	89
Heating[2]	Capacity	kW	11.2	12.5	16.0
		kBtu/h	38.2	42.7	54.6
	Power input	W	54	61	89
Fan motor type			DC		
Indoor coil	Number of rows		2	2	3
	Tube pitch × row pitch	mm	18×10.72		
	Fin spacing and type	mm	1.2 Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	2165×252×21.44		2165×252×32.6
	Number of circuits		14	14	14
Air flow rate[3]		m^3/h	1445/1363/1282/1200/1118/1037/955	1600/1497/1393/1290/1186/1083/979	1730/1624/1518/1412/1306/1200/1094
Sound pressure level[4]		dB(A)	39/38/37/36/35/34/33	41/40/38/37/36/34/33	43/42/40/39/37/36/34
Sound power level		dB(A)	54/53/52/51/50/50/49	57/56/55/54/53/52/51	58/57/56/55/54/53/52
Main body	Net dimensions[5] (W×H×D)	mm	840×288×840		
	Packed dimensions (W×H×D)	mm	940×335×940		
	Net/Gross weight	kg	24/26.5		26.5/29
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950		
	Packed dimensions (W×H×D)	mm	1020×90×1020		
	Net/Gross weight	kg	5.6/7.3		
Refrigerant type			R410A/R32		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9		
	Drain pipe	mm	OD Φ25		

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. 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 1.5m below the unit in a semi-anechoic chamber.
5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
6. Exposed height of the panel after being installed on the ceiling.

Table 1.4: MIH160(180)Q4N18 specifications

Model			MIH160Q4N18	MIH180Q4N18
Power supply			1-phase, 220-240V, 50Hz	
Cooling[1]	Capacity	kW	16.0	18.0
		kBtu/h	54.6	61.4
	Power input	W	110.0	145.0
Heating[2]	Capacity	kW	18.0	20.0
		kBtu/h	61.4	68.2
	Power input	W	110.0	145.0
Fan motor type			DC	
Indoor coil	Number of rows		3	3
	Tube pitch × row pitch	mm	18×10.72	
	Fin spacing and type	mm	1.2 Hydrophilic aluminum	
	Tube OD and type	mm	Φ5 Inner-groove	
	Dimensions (L×H×W)	mm	2165×144×10.72	2165×144×10.72
	Number of circuits		14	14
Air flow rate[3]		m^3/h	2100/1900/1760/1630/1500/1380/1270	2300/2140/1960/1770/1600/1430/1270
Sound pressure level[4]		dB(A)	48/46/44/43/41/39/37	52/49/47/45/42/39/38
Sound power level		dB(A)	57/56/54/52/50/47/46	60/58/56/54/52/49/46
Main body	Net dimensions[5] (W×H×D)	mm	950×300×950	950×300×950
	Packed dimensions (W×H×D)	mm	1050×350×1050	1050×350×1050
	Net/Gross weight	kg	32.6/37.2	32.7/37.3
Panel	Net dimensions[6] (W×H×D)	mm	1050×55×1050	1050×55×1050
	Packed dimensions (W×H×D)	mm	1115×100×1115	1115×100×1115
	Net/Gross weight	kg	7.4/9.7	7.4/9.7
Refrigerant type			R410A/R32	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9	Φ9.52/Φ19.1
	Drain pipe	mm	OD Φ25	

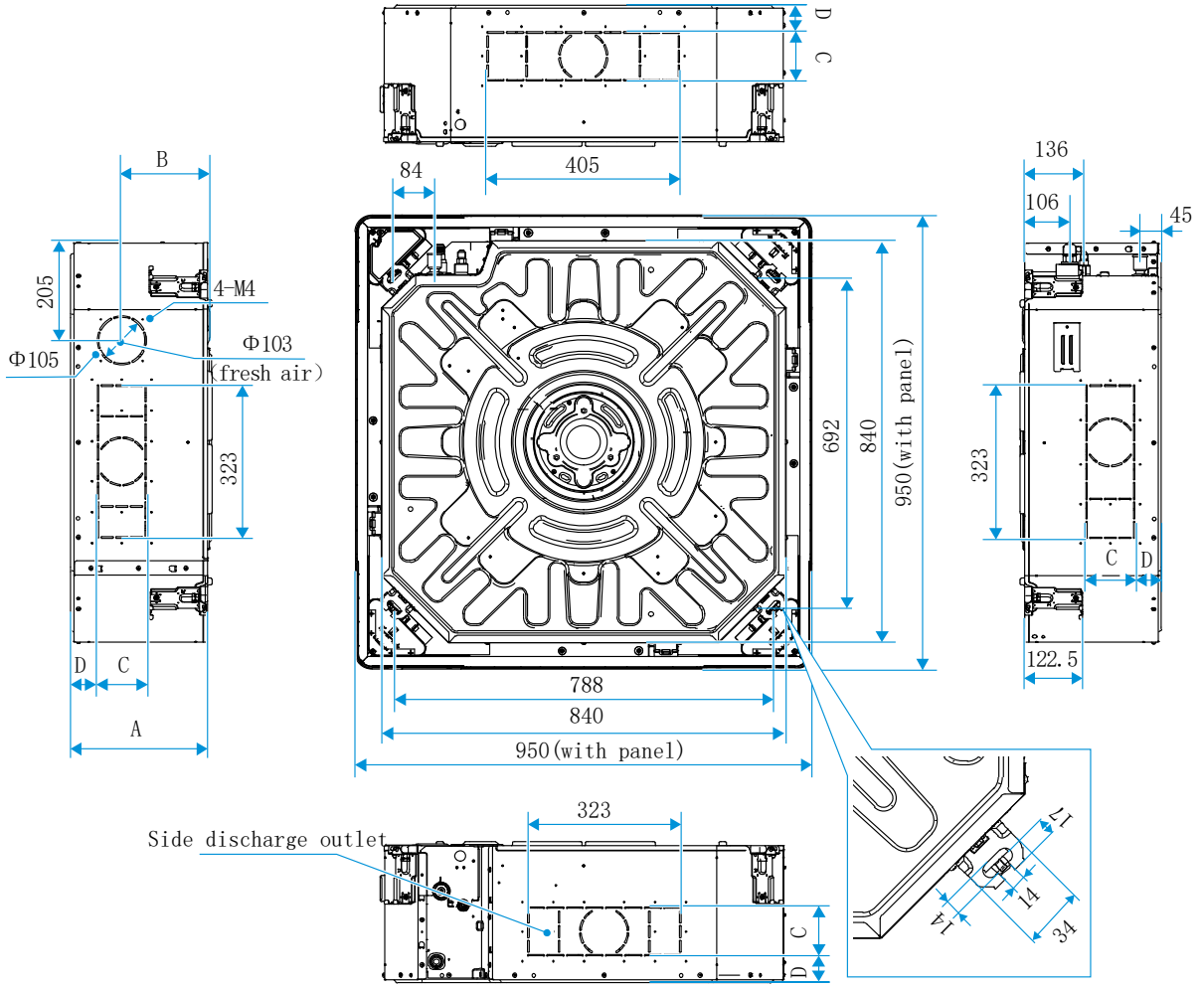
Notes:

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. 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 1.5m below the unit in a semi-anechoic chamber.
5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
6. Exposed height of the panel after being installed on the ceiling.

2 Dimensions

2.1 Unit Dimensions

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



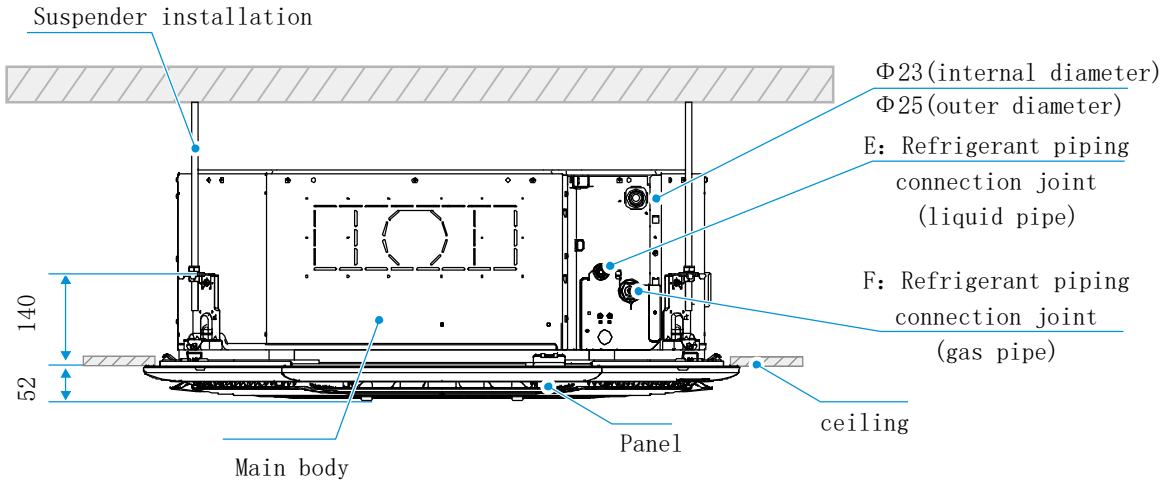
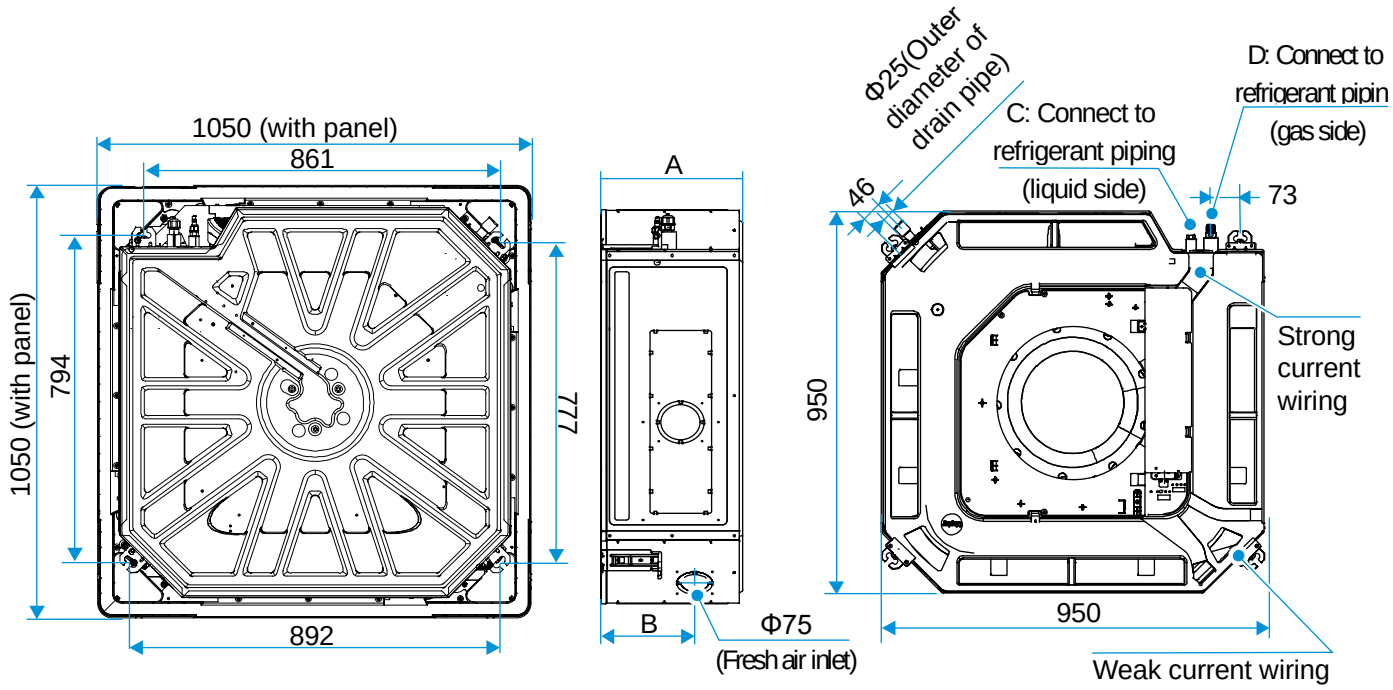


Table 2.1: Four-way Cassette dimensions (unit: mm)

Model(kW)	A	B	C	D	E	F
2.8-5.6	204	141	63	41.5	Φ12.7	Φ6.35
7.1-9.0	246	163	103	41.5	Φ15.9	Φ9.52
10.0-14.0	288	190	103	56.5	Φ15.9	Φ9.52

Figure 2.1: 16.0-18.0kW Four-way Cassette dimensions (unit: mm)



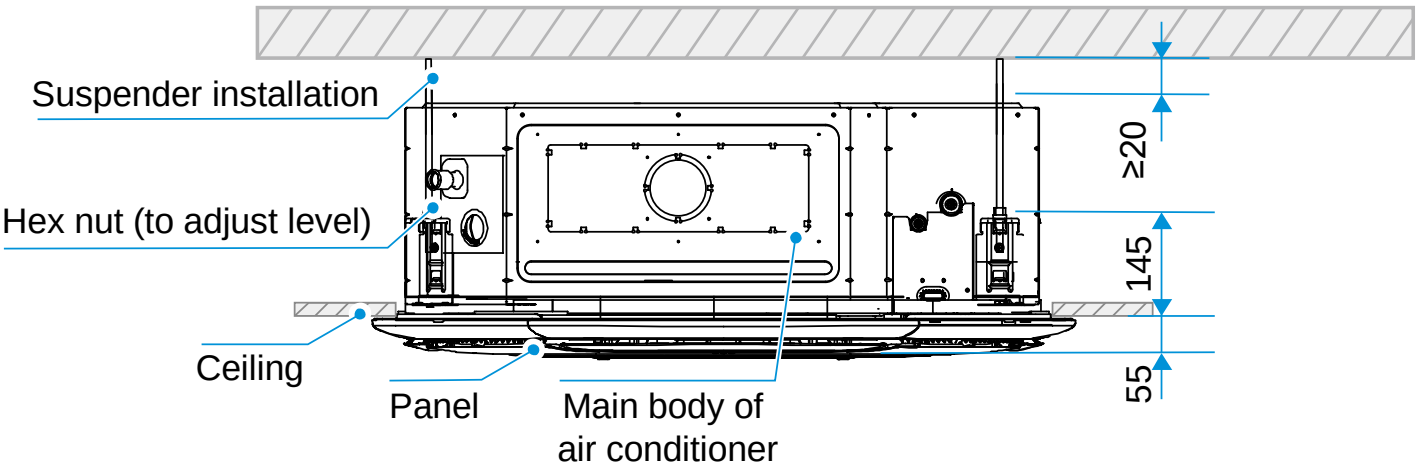


Table 2.1: 16.0-18.0kW Four-way Cassette dimensions (unit: mm)

Model(kW)	A	B	C	D
16.0	300	200	Φ9.52	Φ15.9
18.0	300	200	Φ9.52	Φ19.1

3 Unit Placement

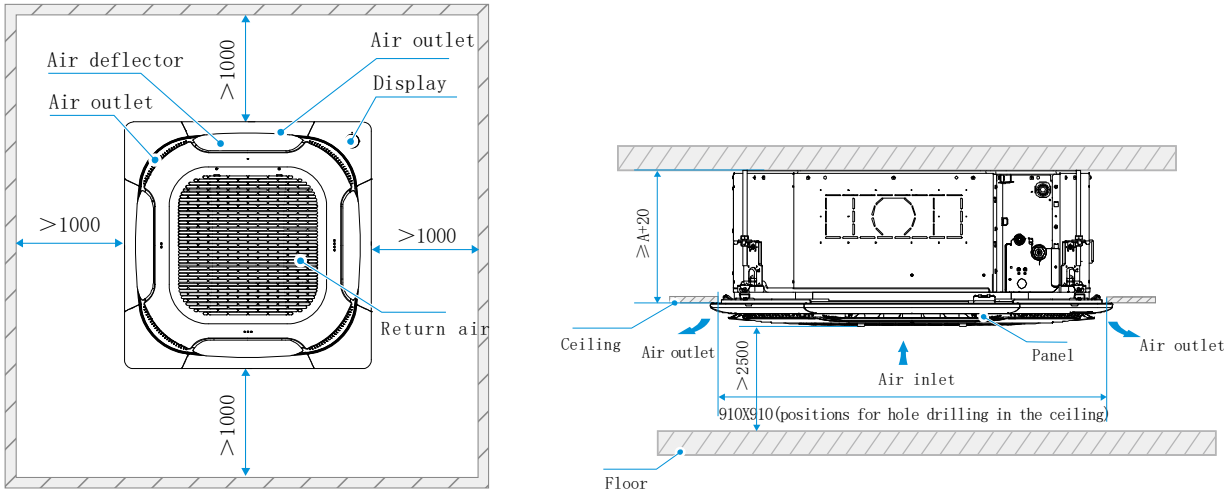
3.1 Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
  - A place filled with mineral oil, fumes or mist, like a kitchen.
  - A place where there are corrosive gases, such as acid or alkaline gases..
  - A place exposed to combustible gases and using volatile combustible gases such as diluent or gasoline.
  - A place where there is equipment emitting electromagnetic radiation.
  - A place where there is a high salt content in the air like a coast.
  - Do not use the air conditioner in an environment where an explosion may occur.
  - Places like in vehicles or cabin rooms.
  - Factories with major voltage fluctuations in the power supplies.
  - Other special environmental conditions.
- Units should be installed in positions where:
  - Ensure that the airflow in and out of the IDU is reasonably organized to form an air circulation in the room.
  - Ensure IDU maintenance space.
  - The nearer the drainage pipe and copper pipe are to the ODU, the lower the pipe cost is.
  - Prevent the air conditioner from blowing directly to the human body.
  - The closer the wiring to the power cabinet, the lower the wiring cost is.
  - Keep the air-conditioning return air away from the setting sun of the room.
  - Be careful not to interfere with the light tank, fire pipe, gas pipe and other facilities.
  - The IDU should not be lifted in the places like load-bearing beam and columns that affect the structural safety of the house.
  - The wired controller and the IDU should be in the same installation space; otherwise, the sampling point setting of the wired controller need to be changed.

3.2 Space Requirements

Figure 3.1: Four-way Cassette space requirements (unit: mm)

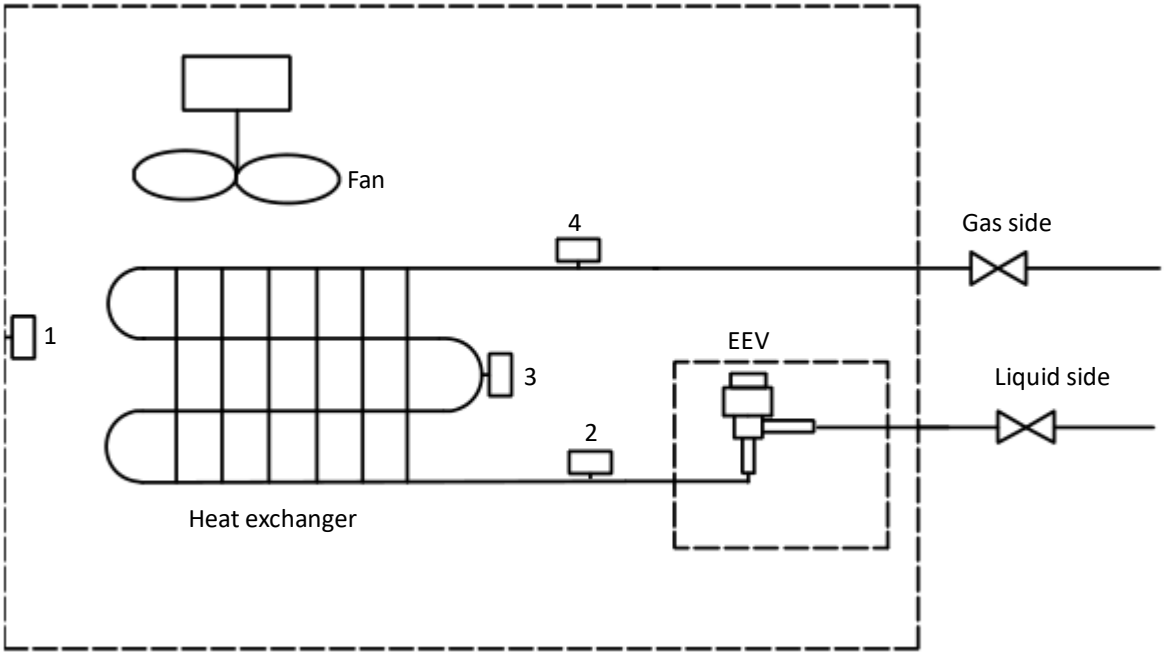


Notes:

1. The centerline of the maintenance hole should be in the same position as the centerline of the indoor unit.
2. The dimensions of A are shown in Table 2,1

4 Piping Diagram

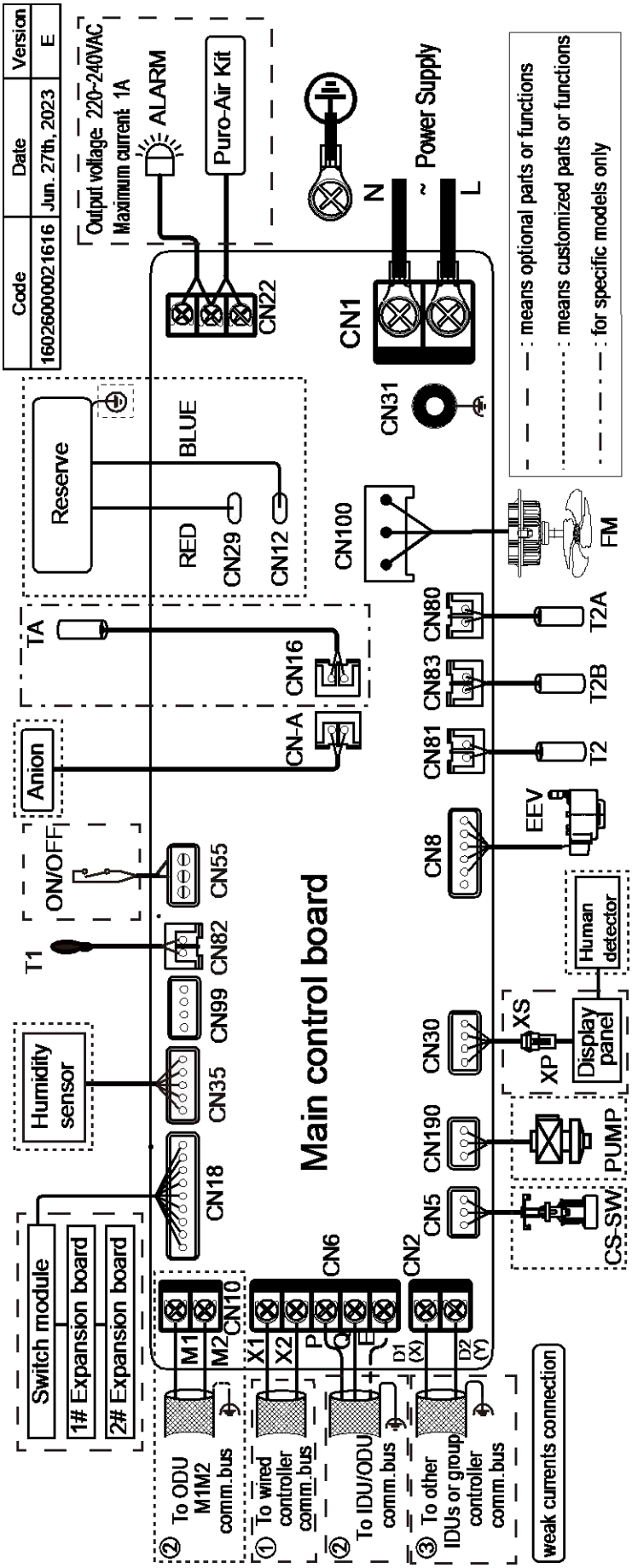
Figure 4.1: Four-way Cassette piping diagram



Legend		
1	T1	Inlet Air Temp. Sensor
2	T2A	Liquid Pipe Temp. Sensor
3	T2	Middle Pipe Temp. Sensor
4	T2B	Gas Pipe Temp. Sensor

5 Wiring Diagram

Figure 5.1: Four-way Cassette wiring diagram



Code	Description	Code	Description
ALARM	Alarm Output	T2	Middle Pipe Temp. Sensor
Anion	Ionic Sterilization Module	T2A	Liquid Pipe Temp. Sensor
CS-SW	Water Level Switch	T2B	Gas Pipe Temp. Sensor
EEV	Electronic Expansion Valve	TA	Discharge Air Temp. Sensor*
FM	DC Fan Motor	ON/OFF	Remote ON/OFF
T0	Outdoor Air Temp. Sensor*	XS/XP	Connectors
T1	Inlet Air Temp. Sensor		

* Indicates that this sensor is only available for Fresh Air Processing Unit.

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.
- The dotted lines indicate the field wiring or optional function.
- PQ and M1M2 communication ports both are used for indoor and outdoor communication, and only one of them can be used at a time. Meanwhile, be sure to connect the same communication ports (PQ to PQ; M1M2 to M1M2) in case of damage of the main control board.
- D1D2 communication ports are used for group control communication. When connecting the group controller, the D1D2 port of the indoor units that are to be group controlled must be connected in daisy chain, and the group controller must be connected to the X1X2 port of one of the indoor units in the group control, and set to group control mode. In addition, D1D2 communication ports can also be connected to the central controller.

6 Capacity Tables

6.1 Cooling Capacity Table

Table 6.1: Four-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
MIH28Q4N18	2.5	2.4	2.7	2.5	2.8	2.5	2.8	2.4	2.9	2.3	2.9	2.2	3.0	2.1
MIH36Q4N18	3.2	3.1	3.4	3.1	3.6	3.2	3.6	3.0	3.7	3.0	3.8	2.8	3.9	2.7
MIH45Q4N18	4.0	3.6	4.3	3.8	4.5	3.8	4.5	3.7	4.6	3.6	4.7	3.4	4.8	3.3
MIH56Q4N18	5.0	4.5	5.3	4.6	5.6	4.7	5.6	4.6	5.7	4.5	5.8	4.2	6.0	4.1
MIH71Q4N18	6.3	5.7	6.7	5.8	7.0	5.9	7.1	5.8	7.2	5.6	7.4	5.4	7.6	5.2
MIH80Q4N18	7.1	6.6	7.6	6.7	7.9	6.8	8.0	6.6	8.1	6.4	8.3	6.1	8.5	5.8
MIH90Q4N18	8.0	7.2	8.5	7.4	8.9	7.5	9.0	7.3	9.1	7.1	9.4	6.8	9.6	6.5
MIH100Q4N18	8.9	8.1	9.5	8.4	9.9	8.4	10.0	8.2	10.1	7.9	10.4	7.6	10.6	7.2
MIH112Q4N18	9.9	9.1	10.6	9.3	11.1	9.4	11.2	9.2	11.3	8.9	11.6	8.4	11.9	8.1
MIH140Q4N18	12.4	11.0	13.2	11.4	13.8	11.5	14.0	11.3	14.2	11.0	14.5	10.5	14.9	10.1
MIH160Q4N18	14.2	12.6	15.1	13.0	15.8	13.2	16.0	12.9	16.2	12.5	16.6	12.0	17.0	11.5
MIH180Q4N18	15.9	14.1	17.0	14.7	17.8	14.8	18.0	14.5	18.2	14.1	18.7	13.5	19.1	12.9

Abbreviations:
TC: Total capacity (kW)
SC: Sensible capacity(kW)

Notes:
1.Shaded cells indicate rating condition.

6.2 Heating Capacity Table

Table 6.2: Four-way Cassette heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MIH28Q4N18	3.4	3.4	3.2	3.1	3.0	2.8
MIH36Q4N18	4.2	4.2	4.0	3.8	3.8	3.5
MIH45Q4N18	5.3	5.3	5.0	4.8	4.7	4.4
MIH56Q4N18	6.7	6.6	6.3	6.1	5.9	5.5
MIH71Q4N18	8.5	8.4	8.0	7.8	7.5	7.0
MIH80Q4N18	9.5	9.5	9.0	8.7	8.5	7.8
MIH90Q4N18	10.6	10.5	10.0	9.7	9.4	8.8
MIH100Q4N18	11.9	11.8	11.2	10.9	10.5	9.8
MIH112Q4N18	13.3	13.1	12.5	12.1	11.8	10.9
MIH140Q4N18	17.0	16.8	16.0	15.5	15.0	13.9
MIH160Q4N18	19.1	19.1	18.0	17.4	16.9	15.8
MIH180Q4N18	21.3	21.3	20.0	19.4	18.8	17.5

Abbreviations:
TC: Total capacity (kW)

Notes:
1.Shaded cells indicate rating condition.

7 Electrical Characteristics

Table 7.1: Four-way Cassette electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
MIH28Q4N18	50	220-240	198	264	0.51	15	0.045	0.41
MIH36Q4N18	50	220-240	198	264	0.51	15	0.045	0.41
MIH45Q4N18	50	220-240	198	264	0.59	15	0.045	0.47
MIH56Q4N18	50	220-240	198	264	0.59	15	0.045	0.47
MIH71Q4N18	50	220-240	198	264	0.94	15	0.125	0.75
MIH80Q4N18	50	220-240	198	264	1.05	15	0.125	0.84
MIH90Q4N18	50	220-240	198	264	1.09	15	0.125	0.87
MIH100Q4N18	50	220-240	198	264	0.95	15	0.125	0.76
MIH112Q4N18	50	220-240	198	264	1.18	15	0.125	0.94
MIH140Q4N18	50	220-240	198	264	1.41	15	0.125	1.13
MIH160Q4N18	50	220-240	198	264	2.30	15	0.125	1.83
MIH180Q4N18	50	220-240	198	264	2.73	15	0.125	2.10

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

8 Sound Levels

8.1 Overall

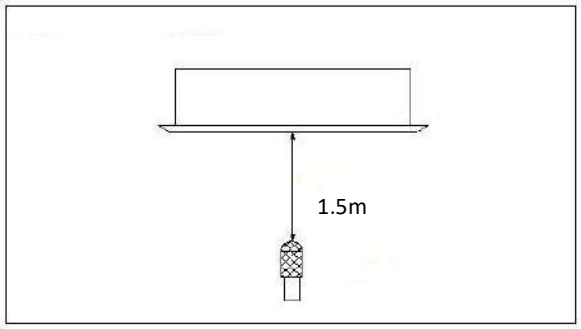
Table 8.1: Four-way Cassette sound pressure levels[1]

Model name	Sound pressure levels dB						
	SSH	SH	H	M	L	SL	SSL
MIH28Q4N18	30	29	28	27	26.5	26	25
MIH36Q4N18	30	29	28	27	26.5	26	25
MIH45Q4N18	33	32	31	30	29	28	27
MIH56Q4N18	33	32	31	30	29	28	27
MIH71Q4N18	37	36	34	33	32	30	29
MIH80Q4N18	38	37	35	34	32	31	29
MIH90Q4N18	38	37	35	34	32	31	29
MIH100Q4N18	39	38	37	36	35	34	33
MIH112Q4N18	41	40	38	37	36	34	33
MIH140Q4N18	43	42	40	39	37	36	34
MIH160Q4N18	48	46	44	43	41	39	37
MIH180Q4N18	52	49	47	45	42	39	38

Notes:

1. Sound pressure levels are measured 1.5m below the unit in a semi-anechoic chamber at 0 Pa. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Figure 8.1: Four-way Cassette sound pressure level measurement



8.2 Octave Band Levels

Figure 8.2: MIH28Q4N18 octave band levels

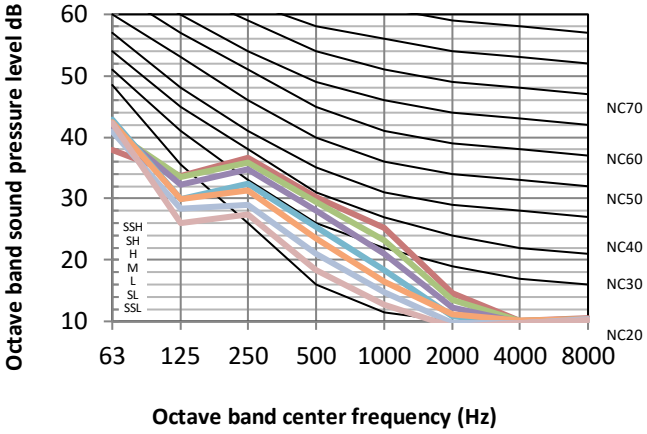


Figure 8.3: MIH36Q4N18 octave band levels

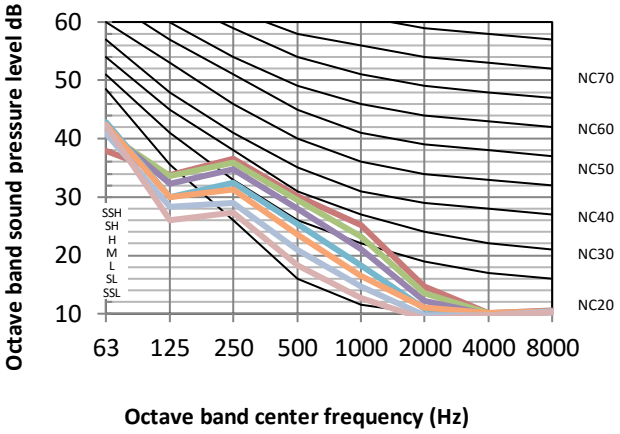


Figure 8.4: MIH45Q4N18 octave band levels

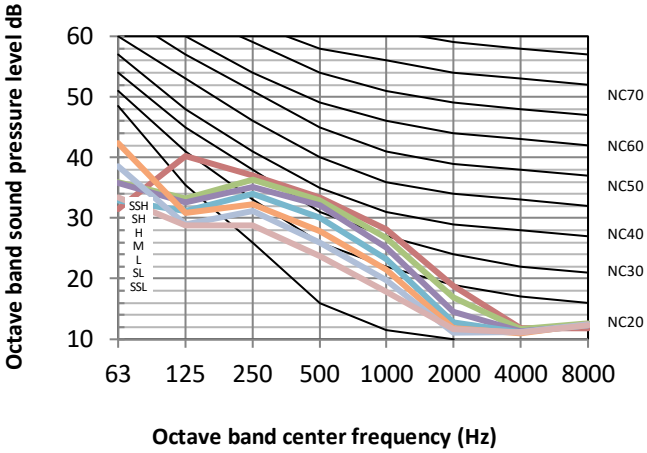


Figure 8.5: MIH56Q4N18 octave band levels

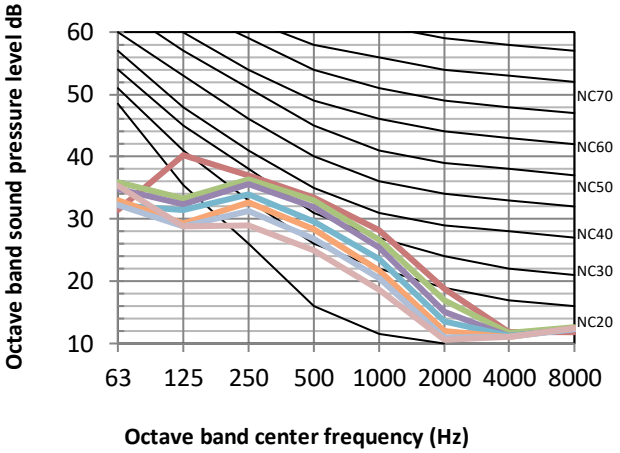


Figure 8.6: MIH71Q4N18 octave band levels

Figure 8.7: MIH80Q4N18 octave band levels

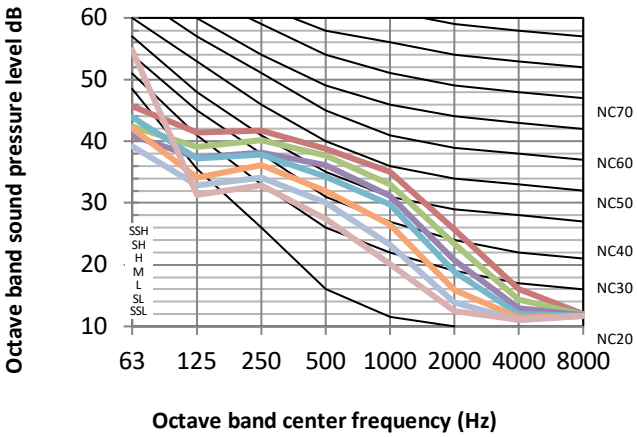


Figure 8.8: MIH90Q4N18 octave band levels

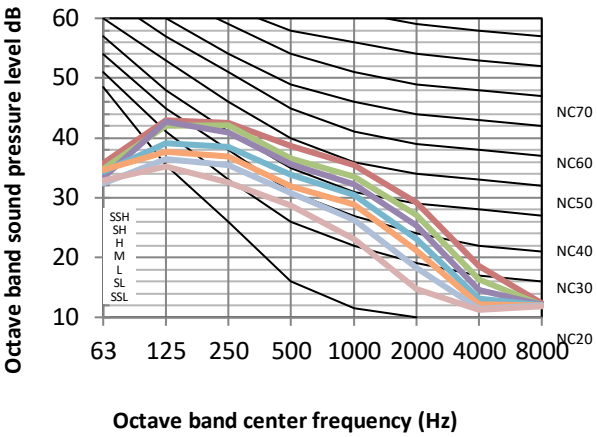


Figure 8.9: MIH100Q4N18 octave band levels

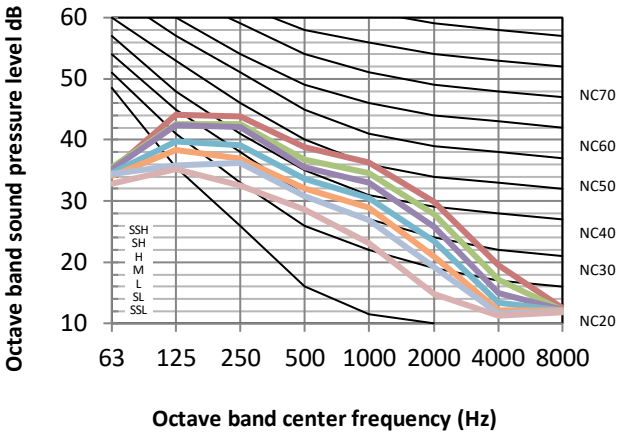


Figure 8.10: MIH112Q4N18 octave band levels

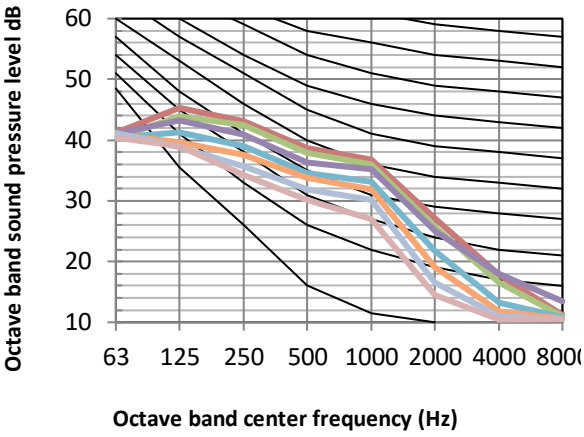


Figure 8.11: MIH140Q4N18 octave band levels

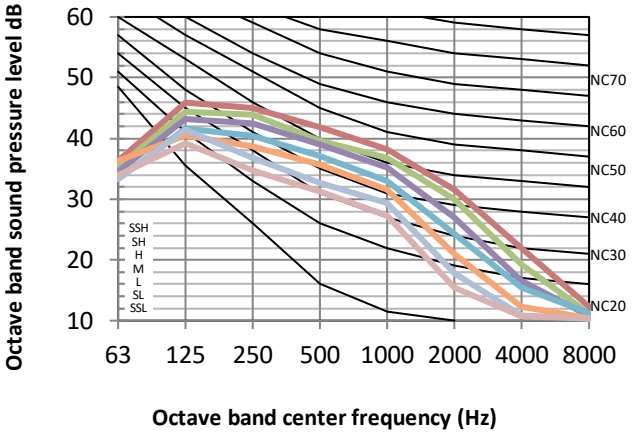


Figure 8.2: MIH28Q4N18 octave band levels

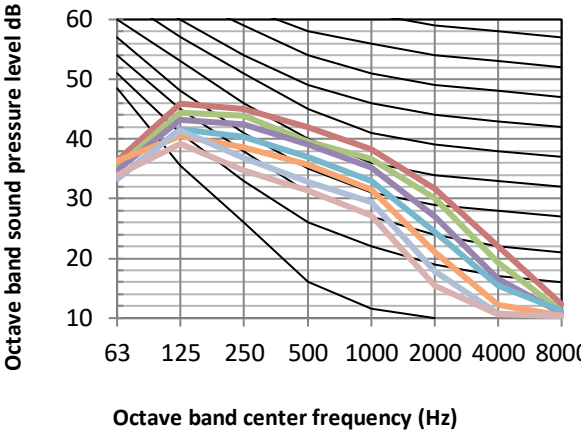
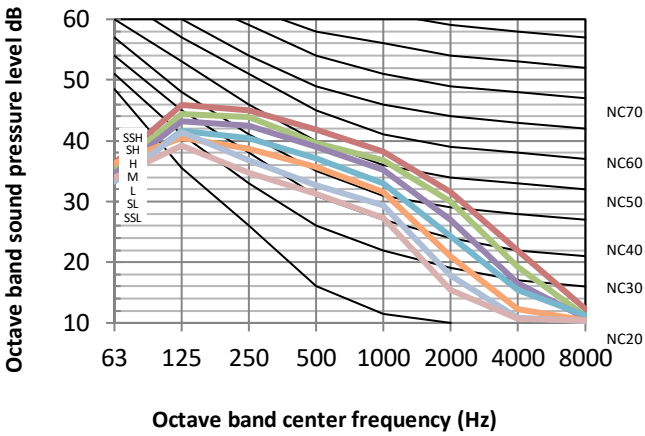
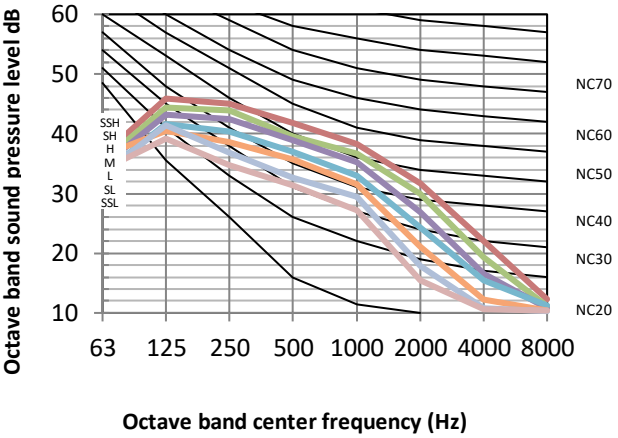


Figure 8.3: MIH36Q4N18 octave band levels





9 Temperature and Airflow Distributions

9.1 Simulate condition

Table 9.1: Four-way Cassette simulate condition

Model name	Room size (m)	Ceiling height (m)	Flow angle (Cooling/Heating)	Placing
MIH28Q4N18	6×6	2.7	30° /65°	Center
MIH36Q4N18	6×6	2.7	30° /65°	Center
MIH45Q4N18	6×6	2.7	30° /65°	Center
MIH56Q4N18	8×8	2.7	30° /65°	Center
MIH71Q4N18	8×8	2.7	30° /65°	Center
MIH80Q4N18	8×8	2.7	30° /65°	Center
MIH90Q4N18	10×10	2.7	30° /65°	Center
MIH100Q4N18	10×10	2.7	30° /65°	Center
MIH112Q4N18	10×10	2.7	30° /65°	Center
MIH140Q4N18	10×10	2.7	30° /65°	Center
MIH160Q4N18	10×10	2.7	30° /65°	Center
MIH180Q4N18	10×10	2.7	30° /65°	Center

Note:

1. 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

Figure 9.1: MIH28Q4N18 cooling at 300s

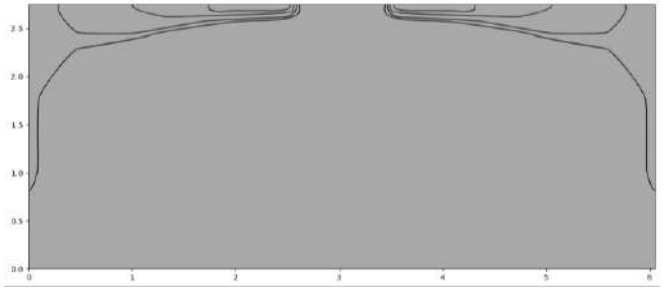


Figure 9.2: MIH28Q4N18 heating at 300s

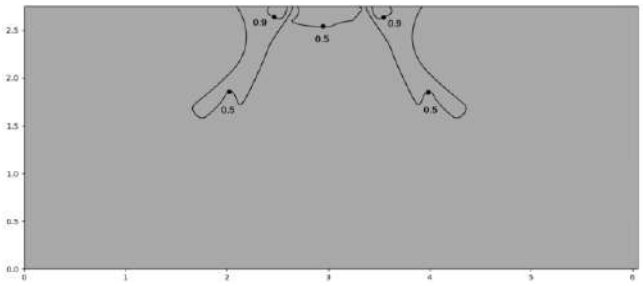


Figure 9.3: MIH36Q4N18 cooling at 300s

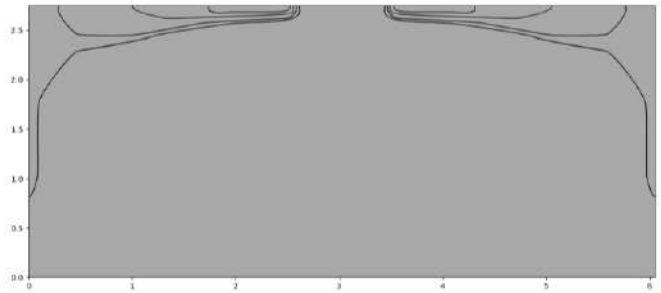


Figure 9.4: MIH36Q4N18 heating at 300s

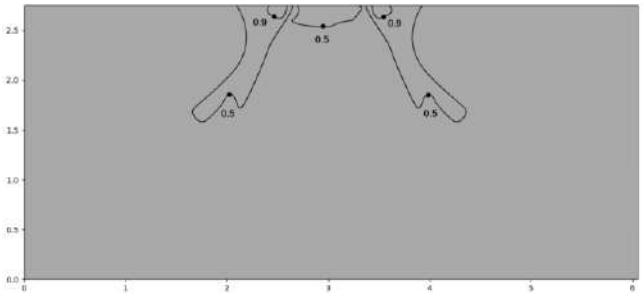


Figure 9.5: MIH45Q4N18 cooling at 300s

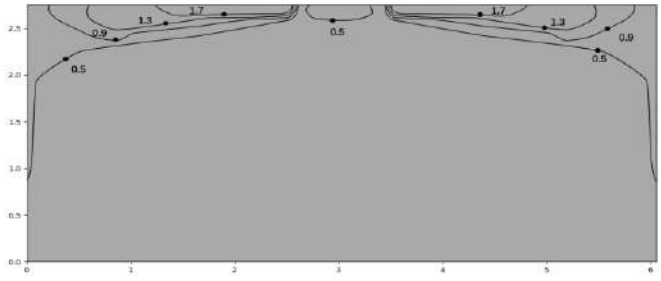


Figure 9.6: MIH45Q4N18 heating at 300s

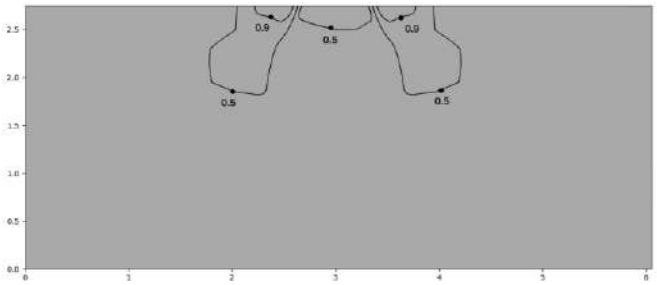


Figure 9.7: MIH56Q4N18 cooling at 300s

Figure 9.8: MIH56Q4N18 heating at 300s

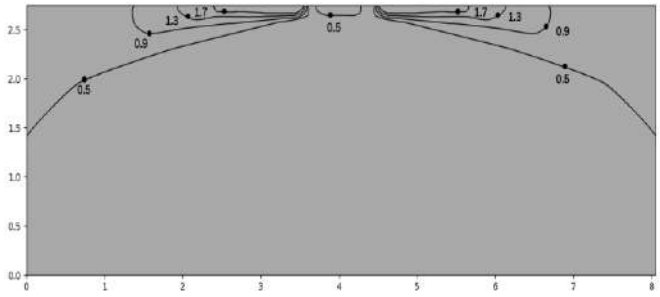


Figure 9.9: MIH71Q4N18 cooling at 300s

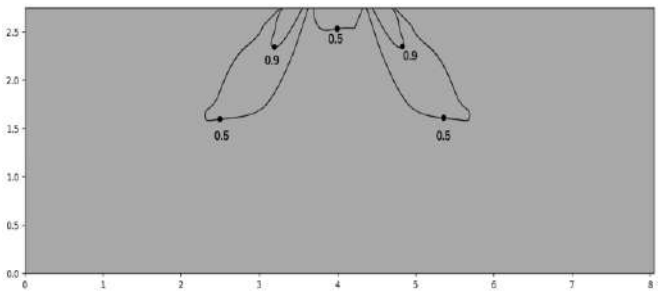


Figure 9.10: MIH71Q4N18 heating at 300s

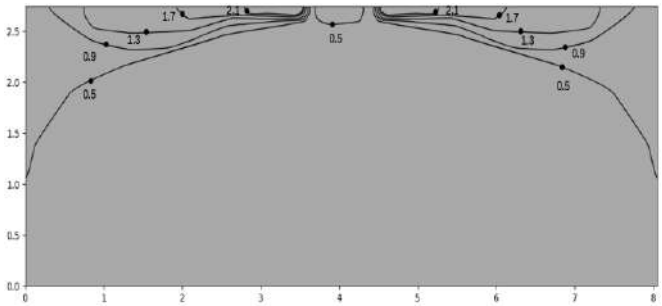


Figure 9.11: MIH80Q4N18 cooling at 300s

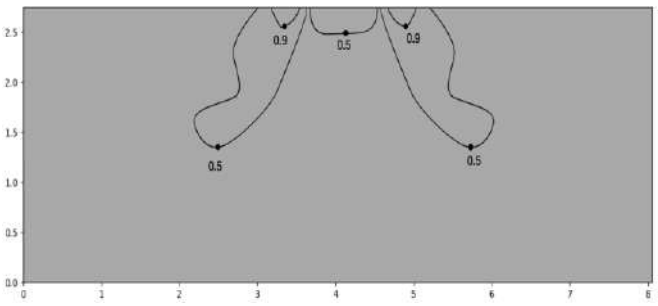


Figure 9.12: MIH80Q4N18 heating at 300s

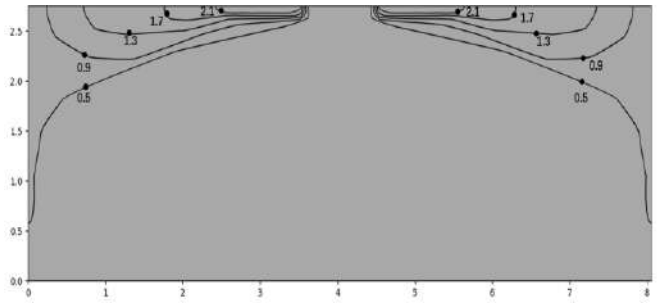


Figure 9.13: MIH90Q4N18 cooling at 300s

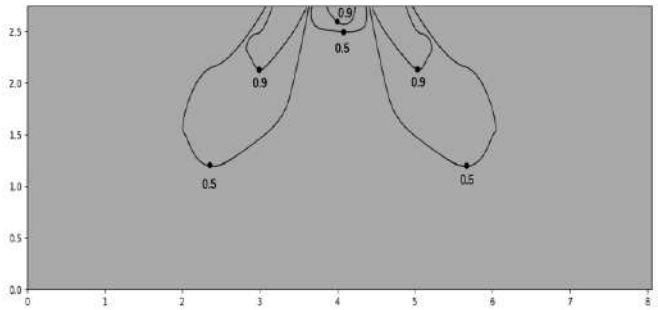


Figure 9.14: MIH90Q4N18 heating at 300s

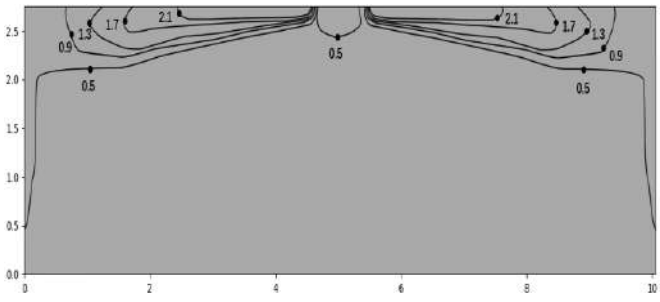


Figure 9.15: MIH100Q4N18 cooling at 300s

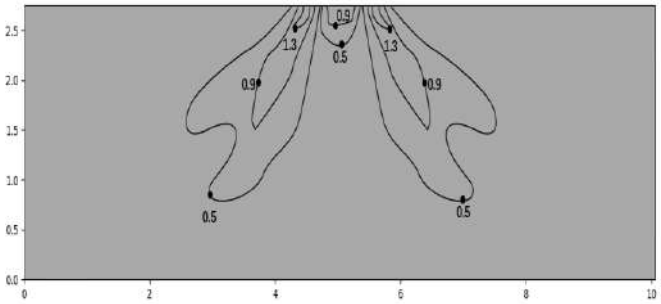


Figure 9.16: MIH100Q4N18 heating at 300s

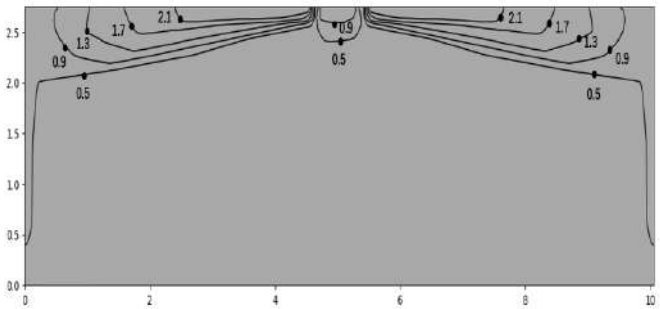


Figure 9.17: MIH112Q4N18 cooling at 300s

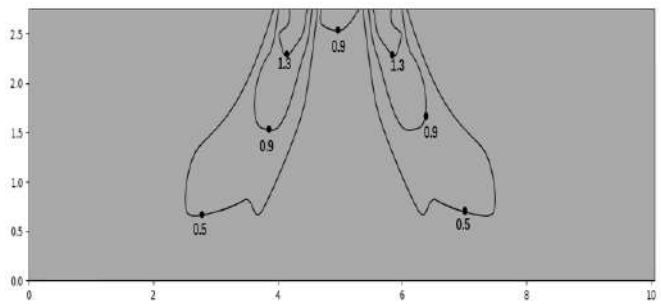


Figure 9.18: MIH112Q4N18 heating at 300s

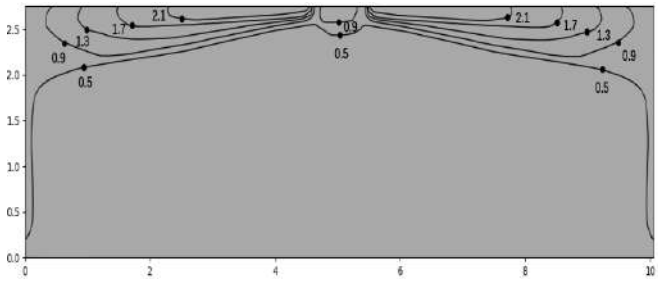


Figure 9.19: MIH140Q4N18 cooling at 300s

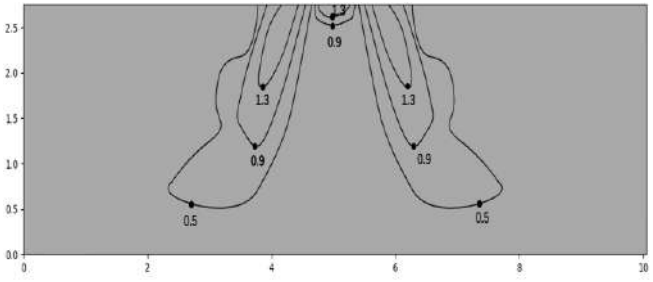


Figure 9.20: MIH140Q4N18 heating at 300s

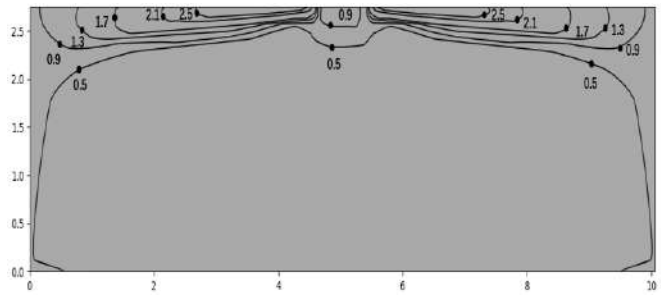


Figure 9.21: MIH160Q4N18 cooling at 300s

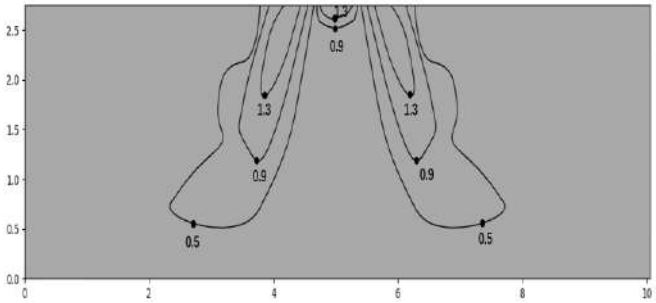


Figure 9.22: MIH160Q4N18 heating at 300s

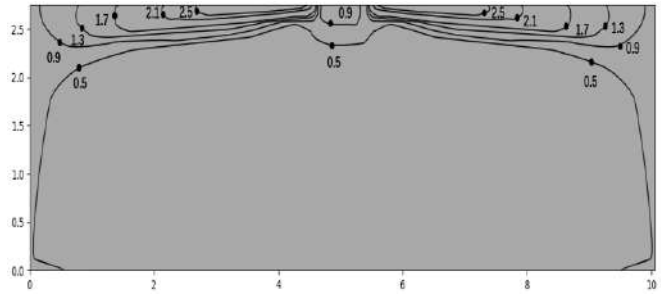


Figure 9.23: MIH180Q4N18 cooling at 300s

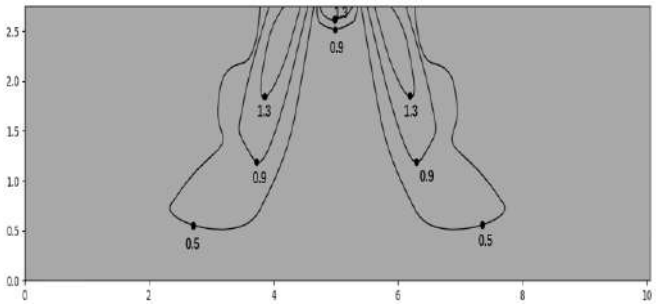
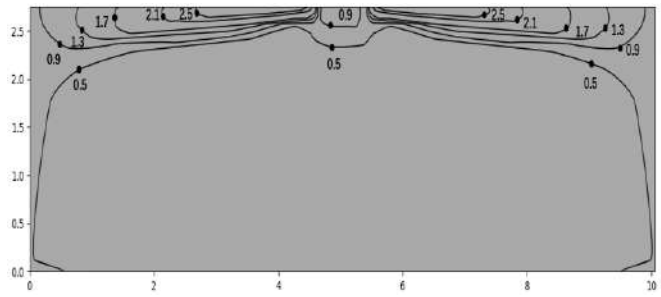
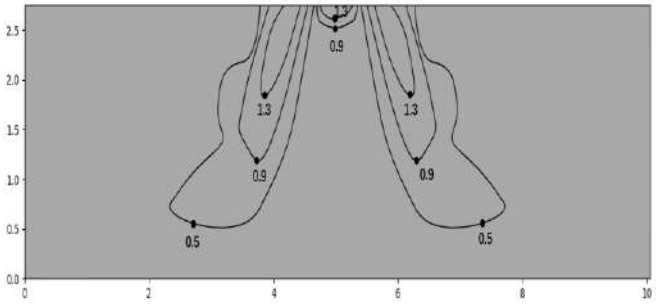


Figure 9.24: MIH180Q4N18 heating at 300s





9.3 Temperature distributions

Figure 9.25: MIH28Q4N18 cooling at 300s

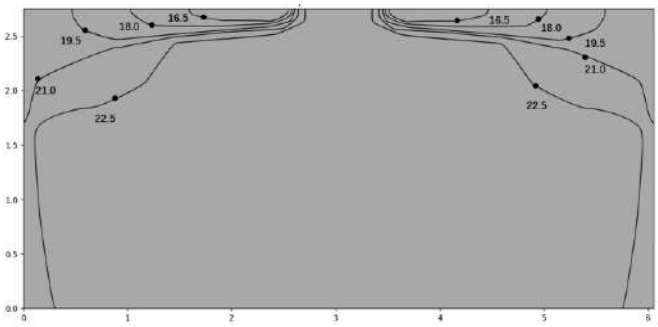


Figure 9.26: MIH28Q4N18 heating at 300s

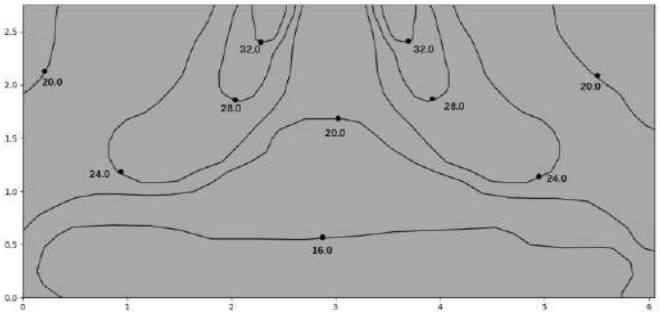


Figure 9.27: MIH36Q4N18 cooling at 300s

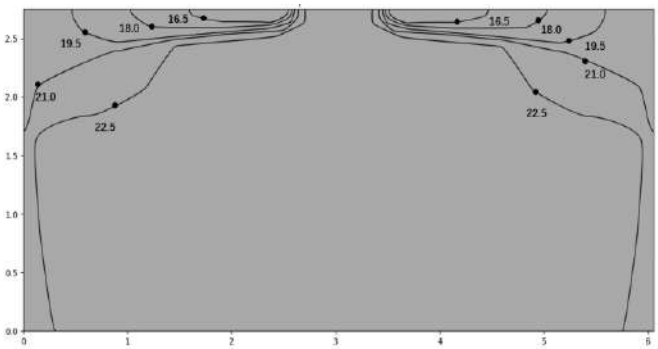


Figure 9.28: MIH36Q4N18 heating at 300s

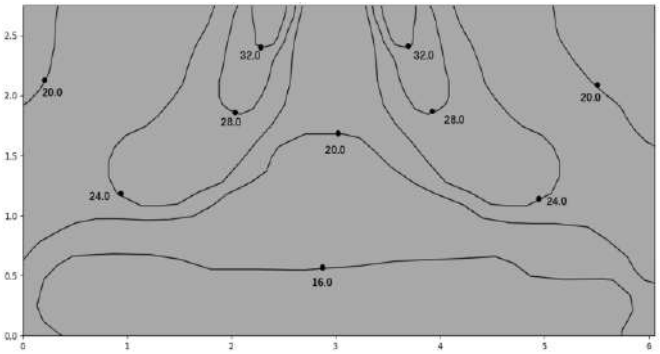


Figure 9.29: MIH45Q4N18 cooling at 300s

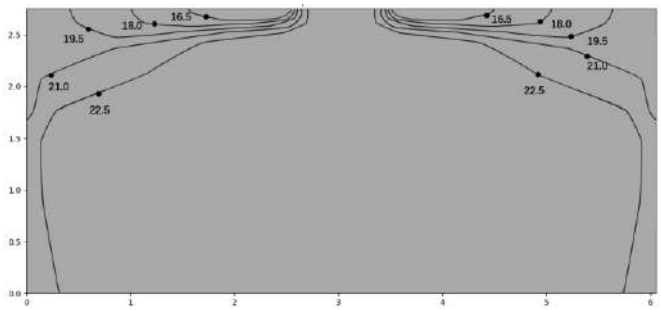


Figure 9.30: MIH45Q4N18 heating at 300s

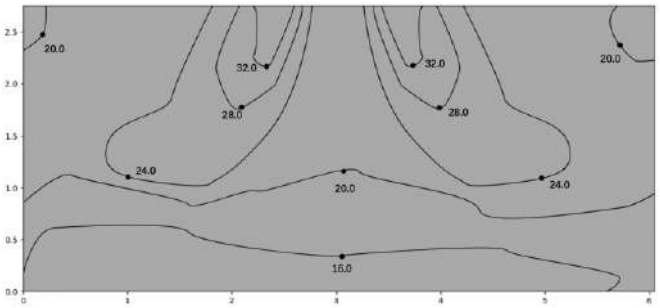


Figure 9.31: MIH56Q4N18 cooling at 300s

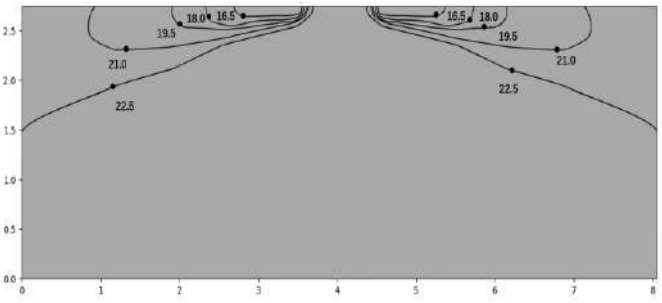


Figure 9.32: MIH56Q4N18 heating at 300s

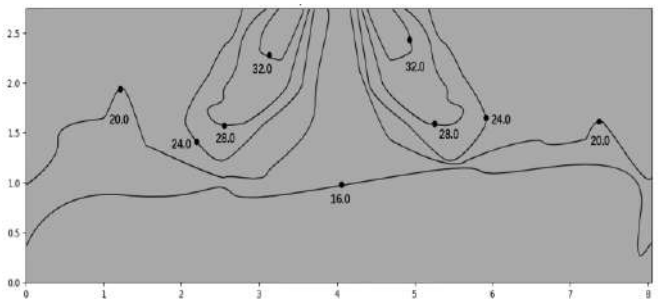


Figure 9.33: MIH71Q4N18 cooling at 300s

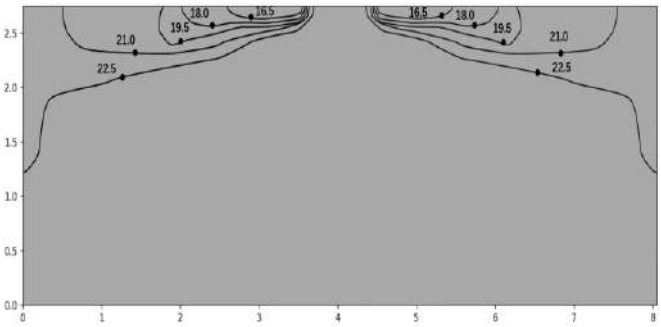


Figure 9.34: MIH71Q4N18 heating at 300s

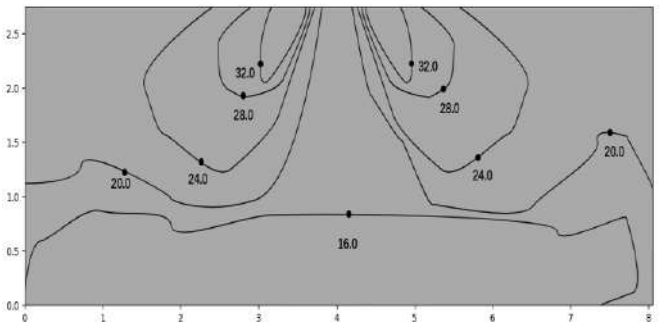


Figure 9.35: MIH80Q4N18 cooling at 300s

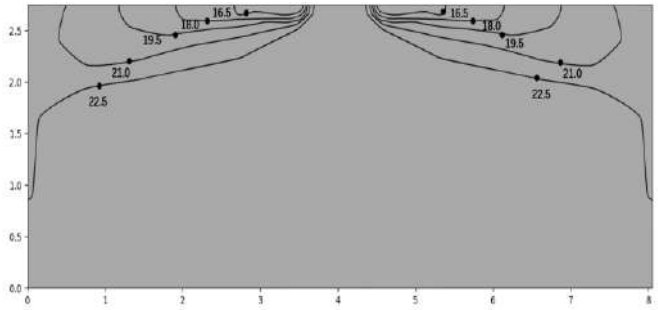


Figure 9.36: MIH80Q4N18 heating at 300s

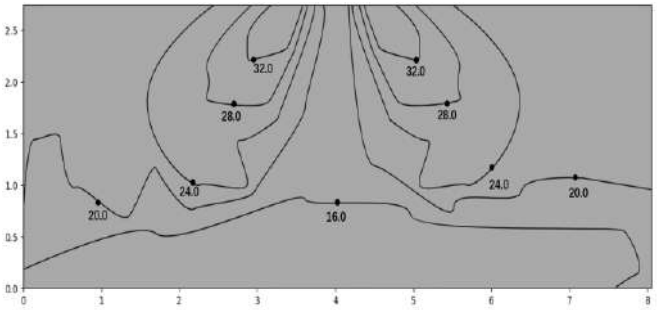


Figure 9.37: MIH90Q4N18 cooling at 300s

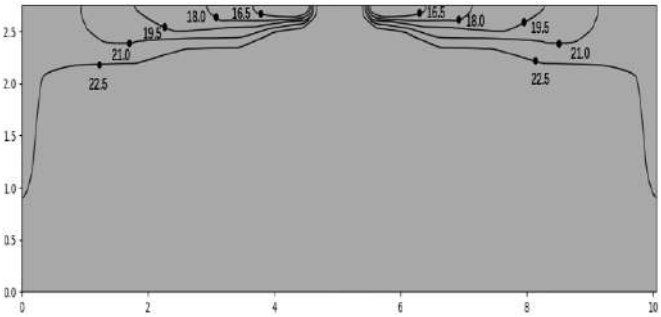


Figure 9.38: MIH90Q4N18 heating at 300s

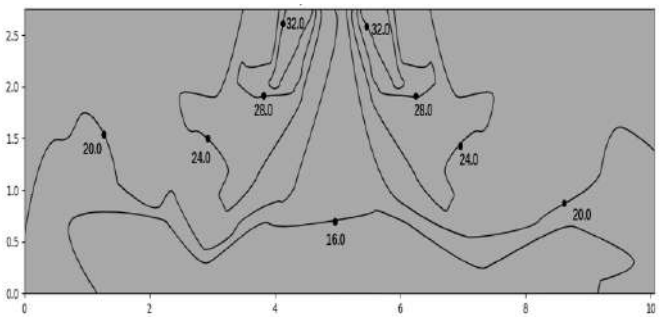


Figure 9.39: MIH100Q4N18 cooling at 300s

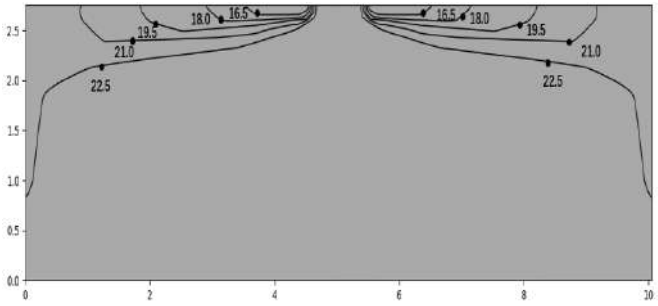


Figure 9.40: MIH100Q4N18 heating at 300s

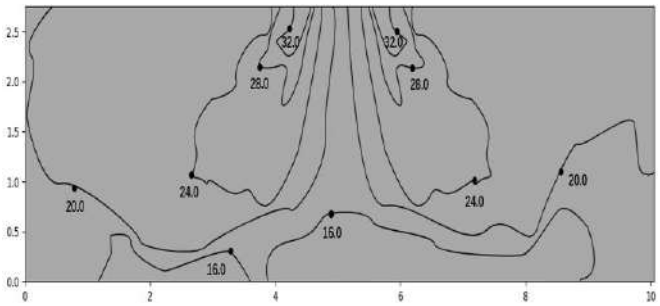


Figure 9.41: MIH112Q4N18 cooling at 300s

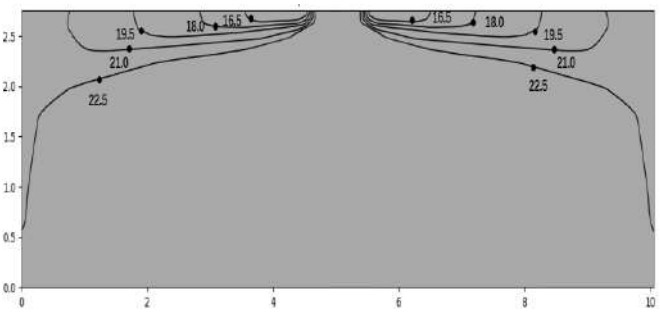


Figure 9.42: MIH112Q4N18 heating at 300s

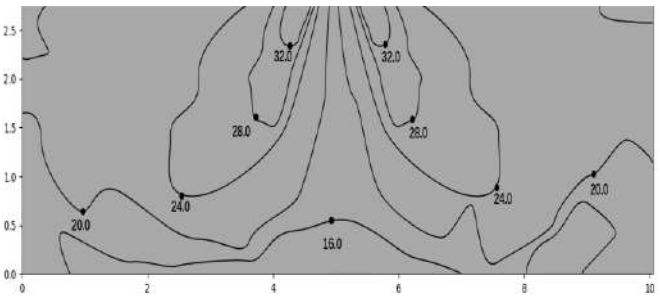


Figure 9.43: MIH140Q4N18 cooling at 300s

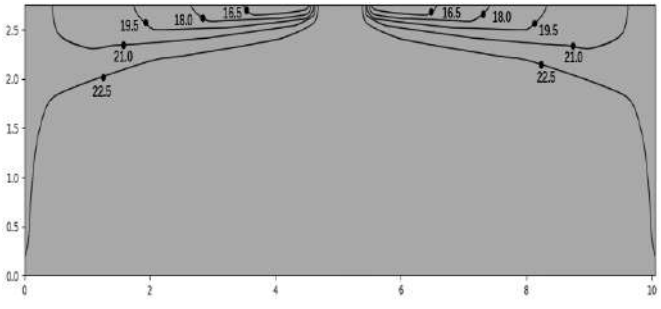


Figure 9.44: MIH140Q4N18 heating at 300s

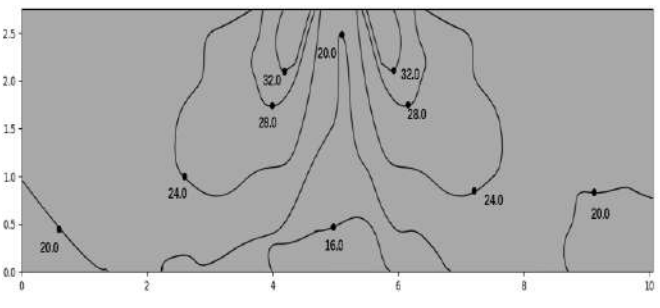


Figure 9.45: MIH160Q4N18 cooling at 300s

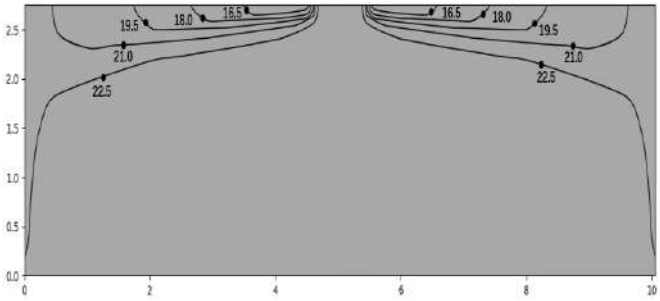


Figure 9.46: MIH160Q4N18 heating at 300s

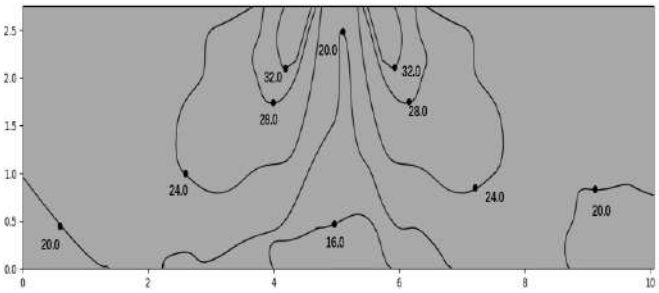


Figure 9.47: MIH180Q4N18 cooling at 300s

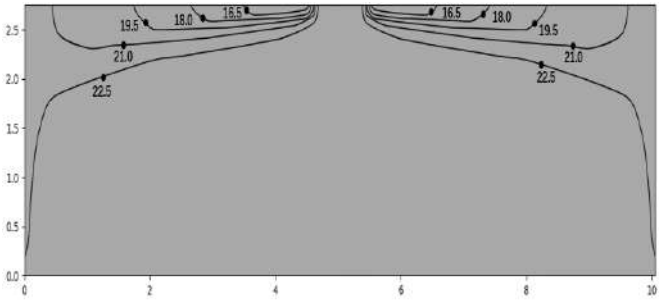
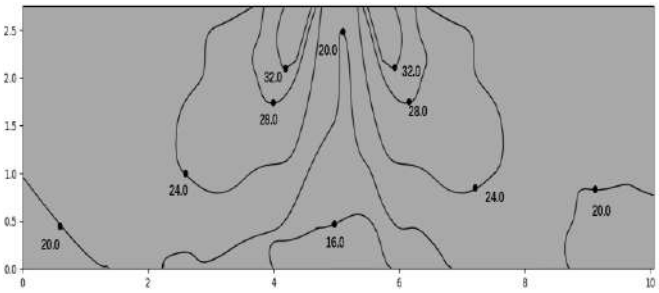


Figure 9.48: MIH180Q4N18 heating at 300s



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