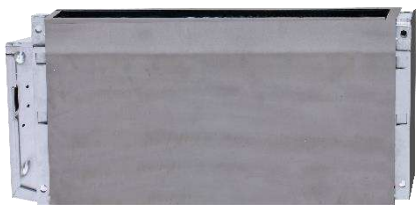
R410A/R32

Commercial Air Conditioners

Engineering Data

Floor Standing

VRF IDU







MIH22F3N18	MIH22F4N18	MIH22F5N18
MIH28F3N18	MIH28F4N18	MIH28F5N18
MIH36F3N18	MIH36F4N18	MIH36F5N18
MIH45F3N18	MIH45F4N18	MIH45F5N18
MIH56F3N18	MIH56F4N18	MIH56F5N18
MIH71F3N18	MIH71F4N18	MIH71F5N18
MIH80F3N18	MIH80F4N18	MIH80F5N18

Floor Standing

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1 Specifications

Table 1.1: MIH22(28,36,45)F4N18, MIH22(28,36,45)F5N18 specifications

Model			MIH22F4N18 / MIH22F5N18	MIH28F4N18 / MIH28F5N18	MIH36F4N18 / MIH36F5N18	MIH45F4N18 / MIH45F5N18
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	35	35	40	44
Heating[2]	Capacity	kW	2.4	3.2	4	5
		kBtu/h	8.2	10.9	13.7	17.1
	Power input	W	35	35	41	46
External static pressure		Pa(F4)	0-10			
		Pa(F5)	0-10			
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		2	2	3	3
	Tube pitch × row pitch	mm	22×19.05			
	Fin spacing	mm	1.6			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ8 Inner-groove			
	Dimensions (L×H×W)	mm	580×38.1×176	580×38.1×176	580×57.2×176	800×57.2×176
	Number of circuits		2	2	4	4
Air flow rate[3]		m^3/h(F4)	507/490/482/466/449/450/435		532/512/501/483/466/435/414	689/663/639/608/575/560/526
		m^3/h(F5)	498/486/475/464/453/441/430		508/491/474/458/441/424/407	692/665/637/610/582/555/528
Sound pressure level[4]		dB(A) (F4)	36/35/34.5/34/33/32.5/32		38/37/36/35/34/33/32	43/42/41/40/39/38/37
		dB(A) (F5)	32.5/32/31.5/31/30.5/30/29		35/34/33/32/31/30/29	38/37/36/35/34/32.5/31.5
Sound power level[4]		dB(A) (F4)	52/51/51/50/50/49/49		52/52/51/50/49/48/47	55/54/54/53/52/51/51
		dB(A) (F5)	51/50/49/49/48/48/48		51/50/49/48/47/47/46	53/53/52/51/50/49/48
Unit	Net dimensions[5] (W×H×D)	mm (F4)	1020×495×200			1240×495×200
		mm (F5)	1020×495×200			1240×495×200
	Packed dimensions (W×H×D)	mm (F4)	1125×595×285			1345×595×285
		mm (F5)	1125×595×285			1345×595×285
	Net/Gross weight	kg (F4)	21.1/27.9		21.9/28.6	26.3/32.9
		kg (F5)	21.1/26.8		21.9/27.6	26.3/32.4
Refrigerant type			R410A/R32			
Design pressure (H/L)		Mpa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7			
Drain piping		mm	OD Φ18.5			

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 to the lowest, 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 at 1m in front of the unit and at a height of 1.5m in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Table 1.2: MIH56(71,80)F4N18, MIH56(71,80)F5N18 specifications

Model			MIH56F4N18 MIH56F5N18	MIH71F4N18 MIH71F5N18	MIH80F4N18 MIH80F5N18
Power supply			1 phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
	Power input	W	45	53	62
Heating[2]	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
	Power input	W	47	57	64
External static pressure		Pa(F4)	0~10		
		Pa(F5)	0~10		
Fan motor	Type		DC		
	Number		1		
Indoor coil	Number of rows		2	3	3
	Tube pitch × row pitch	mm	22×19.05		
	Fin spacing	mm	1.6		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ8 Inner-groove		
	Dimensions (L×H×W)	mm	920×38.1×264	920×57.2×264	920×57.2×264
	Number of circuits		3	5	5
Air flow rate[3]		m^3/h(F4)	934/904/888/860/821/786/764	1054/1011/992/955/924/889/841	
		m^3/h(F5)	811/785/759/732/706/680/653	930/895/860/825/790/755/721	
Sound pressure level[4]		dB(A) (F4)	41.5/41/40/39/38/37/36	46/45.5/45/44/43/42/41	
		dB(A) (F5)	35/34.5/34/33/32.5/32/31	39.5/39/38/37/36/35/34	
Sound power level[4]		dB(A) (F4)	53/52/52/52/51/51/50	57/56/55/54/53/53/52	
		dB(A) (F5)	51/50/50/50/49/49/48	54/53/52/51/50/50/49	
Unit	Net dimensions[5] (W×H×D)	mm (F4)	1360×591×200		
		mm (F5)	1360×591×200		
	Packed dimensions (W×H×D)	mm (F4)	1465×695×285		
		mm (F5)	1465×695×285		
	Net/Gross weight	kg (F4)	32.1/41.0	33.3/41.1	33.3/42.1
		kg (F5)	32.1/39.4	33.3/41.1	33.3/41.1
Refrigerant type			R410A/R32		
Design pressure (H/L)		Mpa	4.4/2.6		
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.9	
Drain piping		mm	OD Φ18.5		

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 to the lowest, 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 at 1m in front of the unit and at a height of 1.5m in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Table 1.3: MIH22(28,36,45)F3N18 specifications

Model			MIH22F3N18	MIH28F3N18	MIH36F3N18	MIH45F3N18
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	35	35	40	44
Heating[2]	Capacity	kW	2.4	3.2	4.0	5.0
		kBtu/h	8.2	10.9	13.6	17.1
	Power input	W	35	35	41	46
External static pressure		Pa	0-60			
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		2	2	3	3
	Tube pitch × row pitch	mm	22×19.05			
	Fin spacing	mm	1.6			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ8 Inner-groove			
	Dimensions (L×H×W)	mm	580×38.1×176	580×38.1×176	580×57.2×176	800×57.2×176
	Number of circuits		2	2	4	4
Air flow rate[3]		m^3/h	473/464/454/449/439/431/426		524/503/488/471/450/427/408	636/611/584/557/533/507/483
Sound pressure level[4]		dB(A)	34.5/34/33.5/32.5/32/31/30.5		36.5/35.5/34.5/34/33/32/31	37/36/35/34/33/32/30
Sound power level[4]		dB(A)	49/48/48/47/47/46/46		51/50/49/48/47/46/46	52/51/50/49/48/47/46
Unit	Net dimensions[5] (W×H×D)	mm	915×470×200			1133×470×200
	Packed dimensions (W×H×D)	mm	985×555×255			1205×555×255
	Net/Gross weight	kg	16.3/20.0		16.9/20.7	20.0/24.4
Refrigerant type			R410A/R32			
Design pressure (H/L)		Mpa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7			
Drain piping		mm	OD Φ18.5			

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 to the lowest, 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 anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Table 1.4: MIH56(71,80)F3N18 specifications

Model			MIH56F3N18	MIH71F3N18	MIH80F3N18
Power supply			1 phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
	Power input	W	45	53	62
Heating[2]	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
	Power input	W	47	57	64
External static pressure		Pa	0-60		
Fan motor	Type		DC		
	Number		1		
Indoor coil	Number of rows		2	3	3
	Tube pitch × row pitch	mm	22×19.05		
	Fin spacing	mm	1.6		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ8 Inner-groove		
	Dimensions (L×H×W)	mm	920×38.1×264	920×57.2×264	920×57.2×264
	Number of circuits		3	5	5
Air flow rate[3]		m^3/h	781/756/738/717/683/651/624	928/893//865/834/803/770/739	
Sound pressure level[4]		dB(A)	36.5/36/35/34/33.5/32.5/31.5	40.5/39.5/38.5/37.5/36.5/36/34.5	
Sound power level[4]		dB(A)	51/51/50/49/48/48/47	55/54/53/52/52/51/50	
Unit	Net dimensions[5] (W×H×D)	mm	1253×566×200		
	Packed dimensions (W×H×D)	mm	1325×650×255		
	Net/Gross weight	kg	24.3/30.0	26.1/31.8	
Refrigerant type			R410A/R32		
Design pressure (H/L)		Mpa	4.4/2.6		
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.9	
Drain piping		mm	OD Φ18.5		

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 to the lowest, 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 anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

2 Dimensions

2.1 Unit Dimensions

Figure 2.1: F4/F5 series Exposed Floor Standing dimensions

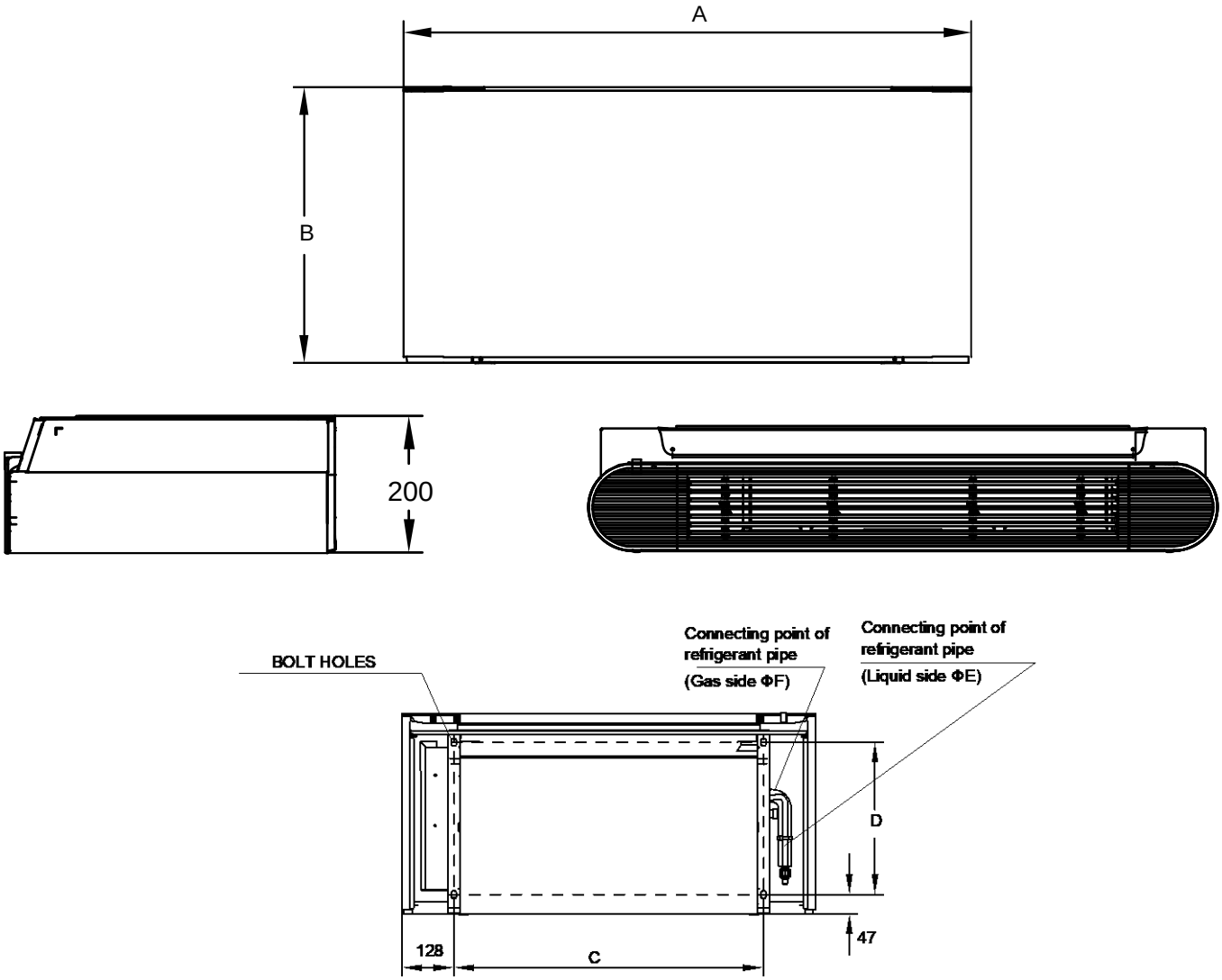


Table 2.1: F4/F5 series Exposed Floor Standing dimensions

Model	Dimensions(mm)			
	A	B	C	D
MIH22F4N18 MIH22F5N18 MIH28F4N18 MIH28F5N18 MIH36F4N18 MIH36F5N18	1020	495	764	375
MIH45F4N18 MIH45F5N18	1240	495	984	375
MIH56F4N18 MIH56F5N18 MIH71F4N18 MIH71F5N18 MIH80F4N18 MIH80F5N18	1360	591	1104	391

Table 2.2: F4/F5 series Exposed Floor Standing piping connections

Model	E(mm)	F(mm)
MIH22F4N18 MIH22F5N18 MIH28F4N18 MIH28F5N18 MIH36F4N18 MIH36F5N18 MIH45F4N18 MIH45F5N18 MIH56F4N18 MIH56F5N18	6.35	12.7
MIH71F4N18 MIH71F5N18 MIH80F4N18 MIH80F5N18	9.52	15.9

Figure 2.2: F3 series Concealed Floor Standing dimensions

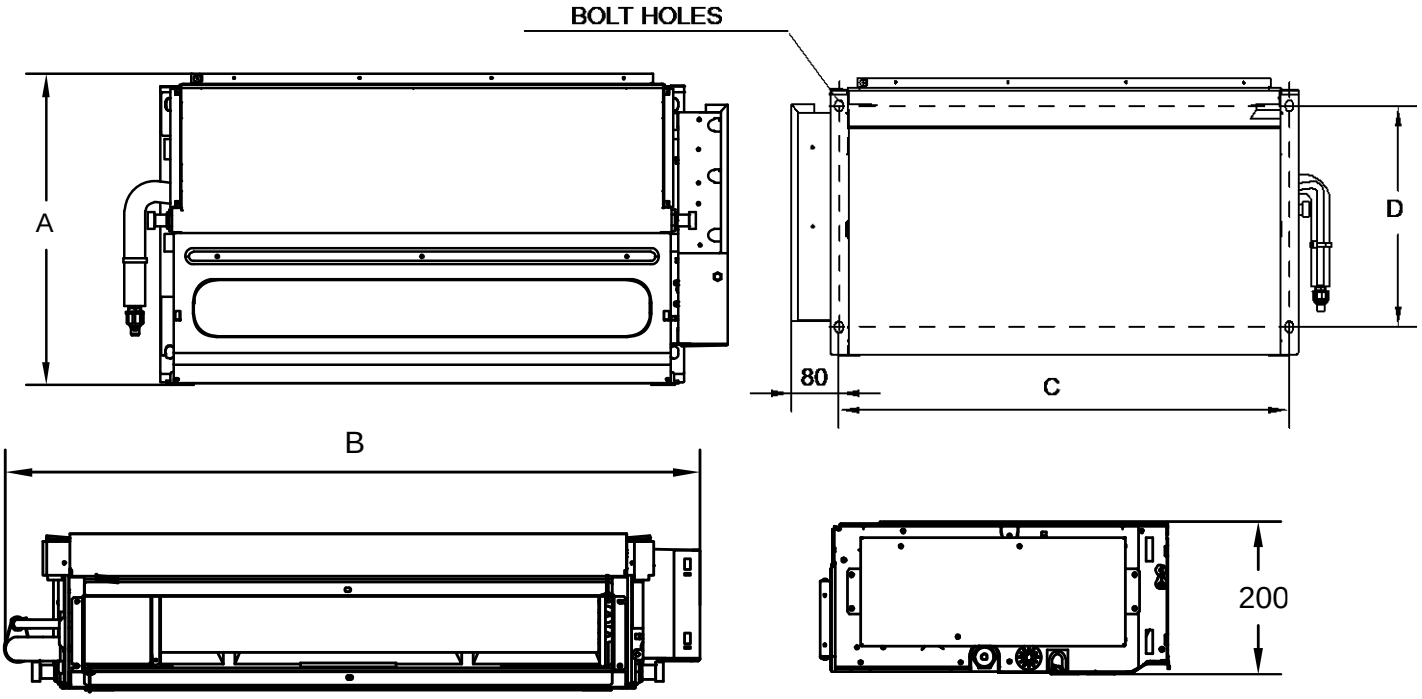


Table 2.3: F3 series Concealed Floor Standing dimensions

Model	Dimensions(mm)			
	A	B	C	D
MIH22F3N18 MIH28F3N18 MIH36F3N18	470	915	764	375
MIH45F3N18	470	1133	984	375
MIH56F3N18 MIH71F3N18 MIH80F3N18	566	1253	1104	391

Figure 2.3: F3 series Concealed Floor Standing piping connections

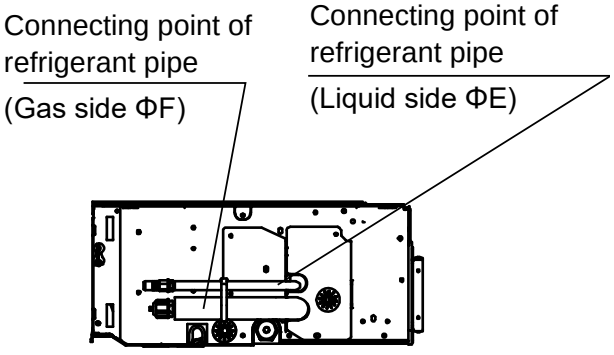


Table 2.4: F3 series Concealed Floor Standing piping connections

Model	E(mm)	F(mm)
MIH22F3N18 MIH28F3N18 MIH36F3N18 MIH45F3N18 MIH56F3N18	6.35	12.7
MIH71F3N18 MIH80F3N18	9.52	15.9

3 Unit Placement

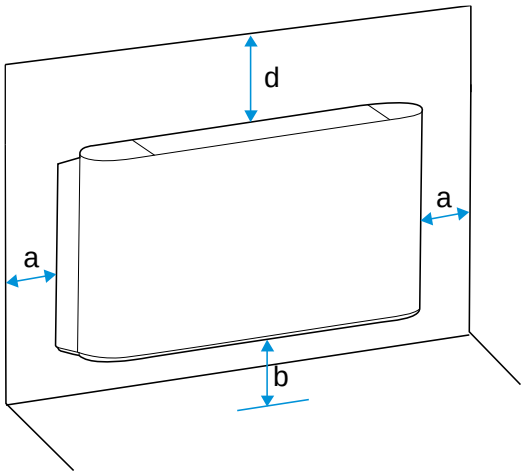
3.1 Placement Considerations

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: F4 series (air inlet from front) Exposed Floor Standing space requirements (unit: mm)

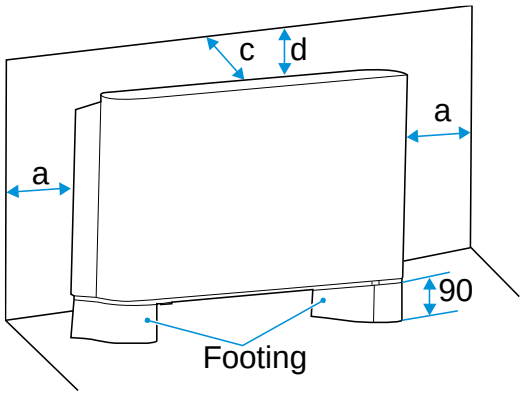


a	b	c	d
a≥150	90≤b≤100	c≥50	c≥1500

Notes:

1. Vertical unit with casing, with air intake from front and air outlet on top, for installation on a wall or on feet on the floor.

Figure 3.2: F5 series (air inlet from bottom) Exposed Floor Standing space requirements (unit: mm)

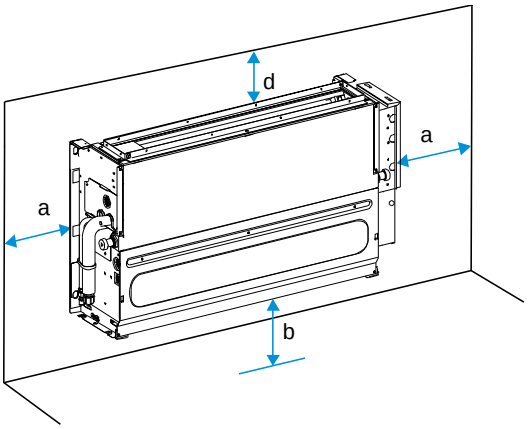


a	b	c	d
a≥150	90≤b≤100	c≥50	c≥1500

Notes:

1. Vertical unit with casing, with air intake from below and air outlet on top, for installation on a wall or on feet on the floor.
2. The footings are optional. You can purchase them separately.

Figure 3.3: F3 series Concealed Floor Standing space requirements (unit: mm)



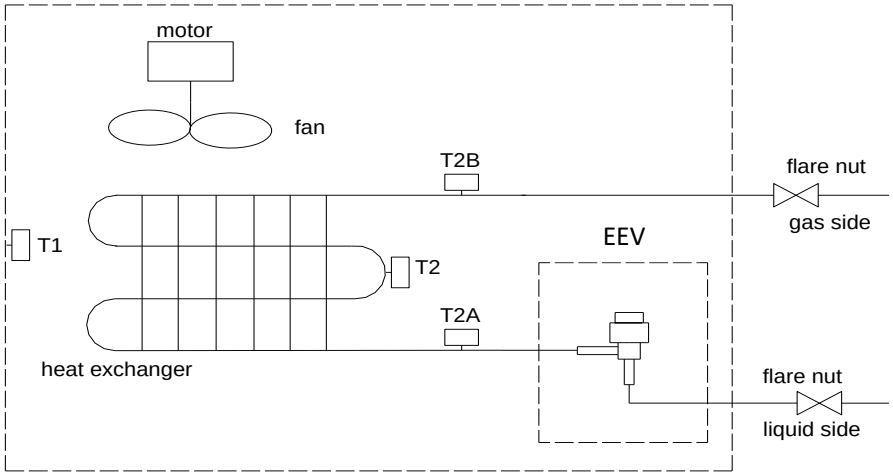
a	b	c	d
a≥150	90≤b≤100	c≥50	c≥1500

Notes:

1. Vertical unit for building-in, with air intake from below and air outlet on top, for installation on a wall.

4 Piping Diagram

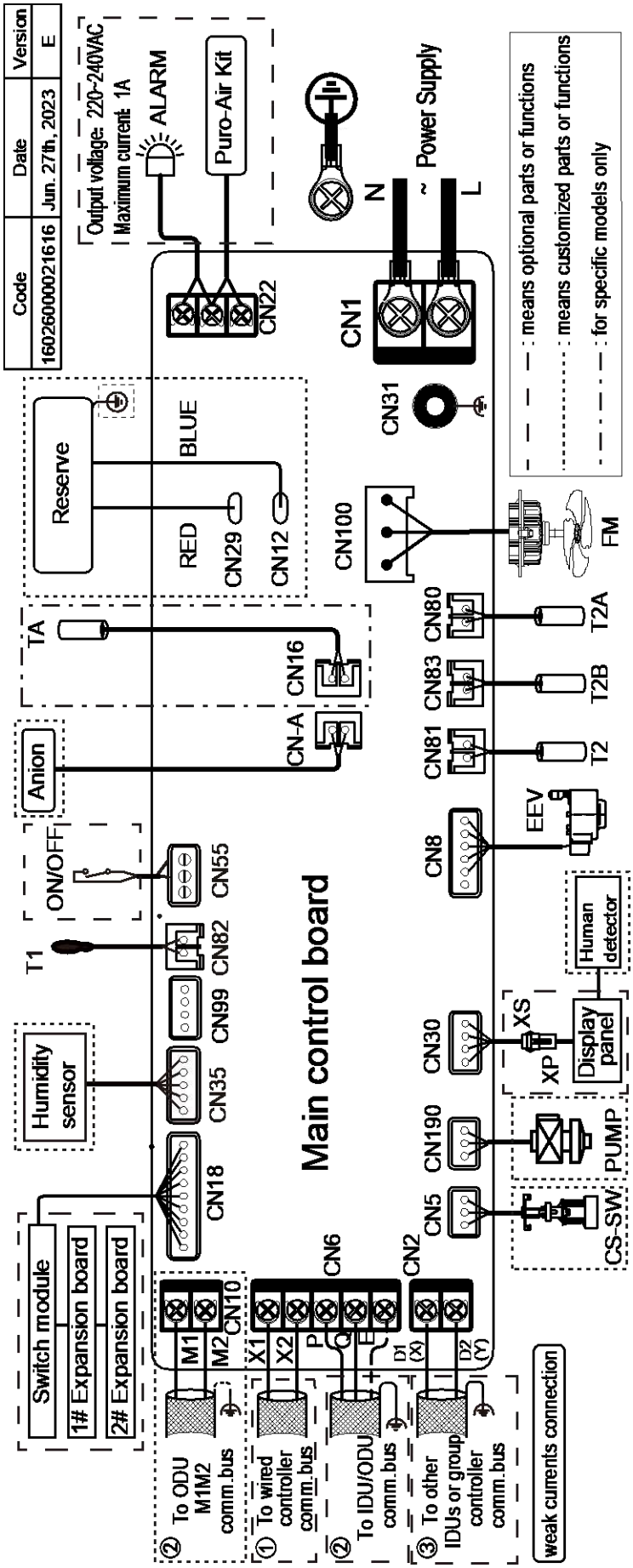
Figure 4.1: Floor Standing piping diagram



Legend	
T1	Inlet Air Temp. Sensor
T2A	Liquid Pipe Temp. Sensor
T2	Middle Pipe Temp. Sensor
T2B	Gas Pipe Temp. Sensor
EEV	Electronic Expansion Valve
FAN	DC Fan Motor

5 Wiring Diagram

Figure 5.1: Floor Standing 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: Floor Standing 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
MIH22F3N18 MIH22F4N18 MIH22F5N18	2.0	1.9	2.1	1.9	2.2	1.9	2.2	1.8	2.3	1.8	2.3	1.7	2.4	1.7
MIH28F3N18 MIH28F4N18 MIH28F5N18	2.5	2.3	2.7	2.4	2.8	2.4	2.8	2.3	2.9	2.3	2.9	2.2	3.0	2.1
MIH36F3N18 MIH36F4N18 MIH36F5N18	3.2	3.0	3.4	3.1	3.6	3.1	3.6	3.0	3.7	3.0	3.8	2.8	3.9	2.7
MIH45F3N18 MIH45F4N18 MIH45F5N18	4.0	3.7	4.3	3.8	4.5	3.9	4.5	3.7	4.6	3.6	4.7	3.5	4.8	3.3
MIH56F3N18 MIH56F4N18 MIH56F5N18	5.0	4.6	5.3	4.7	5.6	4.8	5.6	4.6	5.7	4.5	5.8	4.3	6.0	4.1
MIH71F3N18 MIH71F4N18 MIH71F5N18	6.3	5.8	6.7	5.9	7.0	6.0	7.1	5.8	7.2	5.7	7.4	5.4	7.6	5.2
MIH80F3N18 MIH80F4N18 MIH80F5N18	7.1	6.3	7.6	6.5	7.9	6.6	8.0	6.5	8.1	6.3	8.3	6.0	8.5	5.8

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

Notes:
1.Shaded cells indicate rating condition

6.2 Heating Capacity Table

Table 6.2: Floor Standing heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	SHC	SHC	SHC	SHC	SHC	SHC
MIH22F3N18 MIH22F4N18 MIH22F5N18	2.6	2.6	2.4	2.3	2.3	2.1
MIH28F3N18 MIH28F4N18 MIH28F5N18	3.4	3.4	3.2	3.1	3.0	2.8
MIH36F3N18 MIH36F4N18 MIH36F5N18	4.2	4.2	4.0	3.8	3.8	3.5
MIH45F3N18 MIH45F4N18 MIH45F5N18	5.3	5.3	5.0	4.8	4.7	4.4
MIH56F3N18 MIH56F4N18 MIH56F5N18	6.7	6.6	6.3	6.1	5.9	5.5
MIH71F3N18 MIH71F4N18 MIH71F5N18	8.5	8.4	8.0	7.8	7.5	7.0
MIH80F3N18 MIH80F4N18 MIH80F5N18	9.5	9.5	9.0	8.7	8.5	7.8

Abbreviations:
SHC: Sensible heating capacity(kW)

Notes:
1.Shaded cells indicate rating condition

7 Electrical Characteristics

Table 7.1: Floor Standing electrical characteristics

Model	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (W)	FLA
MIH22F3N18 MIH22F4N18 MIH22F5N18	50	220-240	198	264	0.3	15	50	0.5
MIH28F3N18 MIH28F4N18 MIH28F5N18	50	220-240	198	264	0.3	15	50	0.5
MIH36F3N18 MIH36F4N18 MIH36F5N18	50	220-240	198	264	0.3	15	50	0.5
MIH45F3N18 MIH45F4N18 MIH45F5N18	50	220-240	198	264	0.3	15	50	0.5
MIH56F3N18 MIH56F4N18 MIH56F5N18	50	220-240	198	264	0.4	15	60	0.6
MIH71F3N18 MIH71F4N18 MIH71F5N18	50	220-240	198	264	0.4	15	60	0.6
MIH80F3N18 MIH80F4N18 MIH80F5N18	50	220-240	198	264	0.4	15	60	0.6

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

8 Set external static pressure parameters

①In the main interface, press "☰" +"⧉" for 3 seconds at the same time, and the main interface will display "CC". Press the "▲" and "▼" to select the indoor unit ("n00-n63" is displayed, and the last two digits are the indoor unit addresses). Press the "⧉" to enter the parameter setting interface, and "n00" will be displayed.

②When "n00" is displayed, press the "⧉" to enter the static pressure setting. Use the "▲" and "▼" keys to adjust to the demand parameter values, and press the "⧉" to confirm.

③Press the "🕒" button to return to the previous menu and exit the parameter setting. Parameter setting will also exit after 60 s of no operation

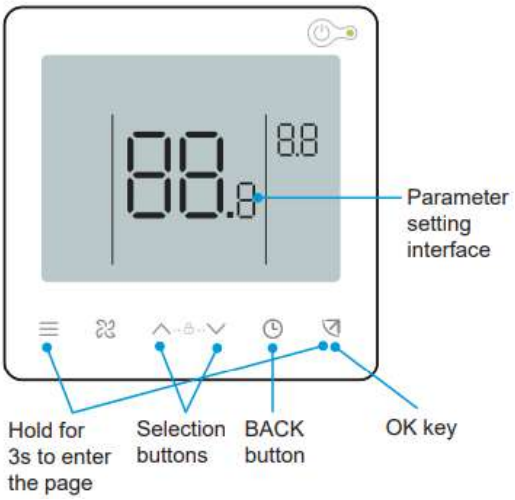


Table 8.1: External static pressure setting (Concealed)-F3

First level menu	Second level menu	Description	Default
N00	02/04/06/07/08/09/10	Static pressure level	02

Level	02	04	06	07	08	09	10
Static pressure(Pa)	0	10	20	30	40	50	60

Table 8.2: External static pressure setting (Exposed)-F4/F5

First level menu	Second level menu	Description	Default
N00	02/04/06/07/08/09/10	Static pressure level	02

Level	02	04	06	07	08	09	10
Static pressure(Pa)	0	10	10	10	10	10	10

Notes:

1. The above is only an example of 86S wired controller. If you choose other controllers, please refer to their manuals for setting.

9 Fan Performance

Figure 9.1: MIH22F3N18 fan performance

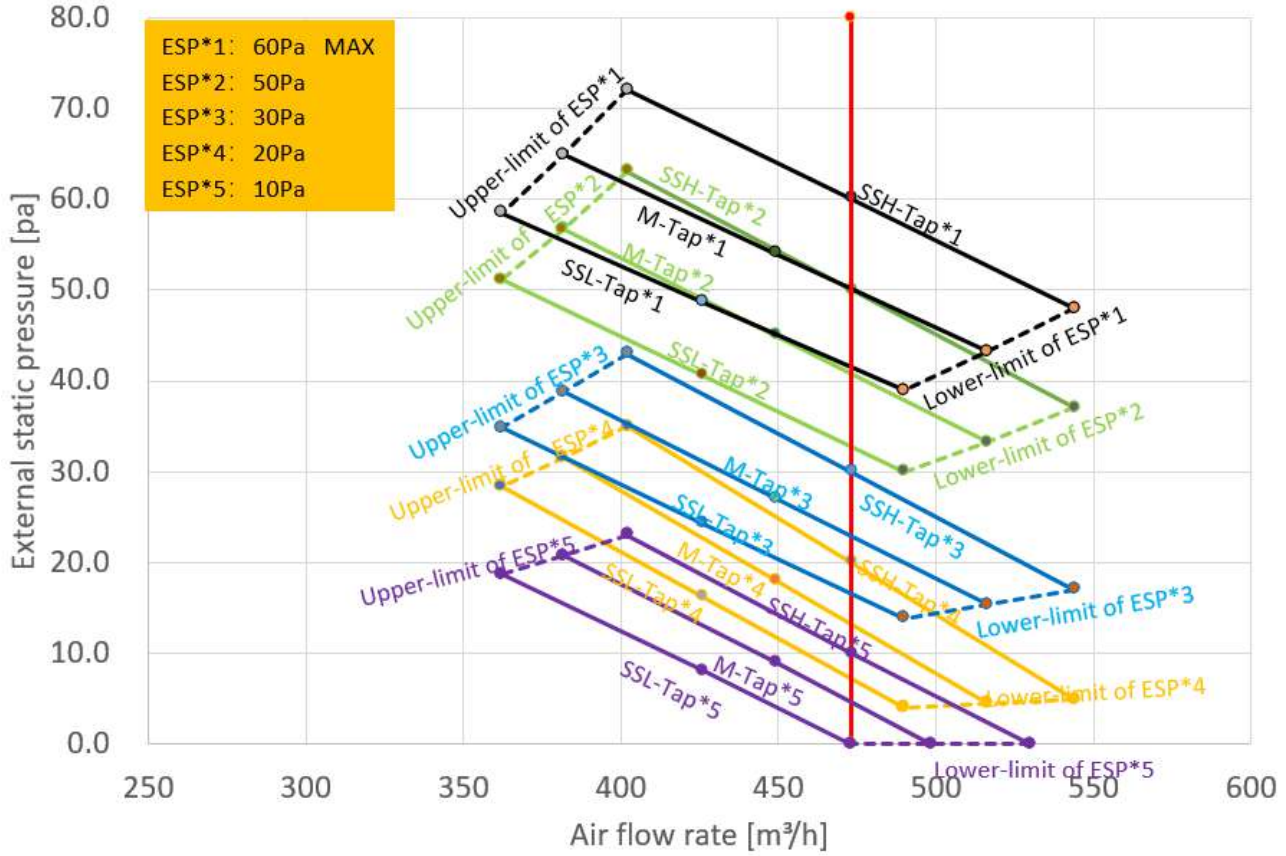


Figure 9.2: MIH28F3N18 fan performance

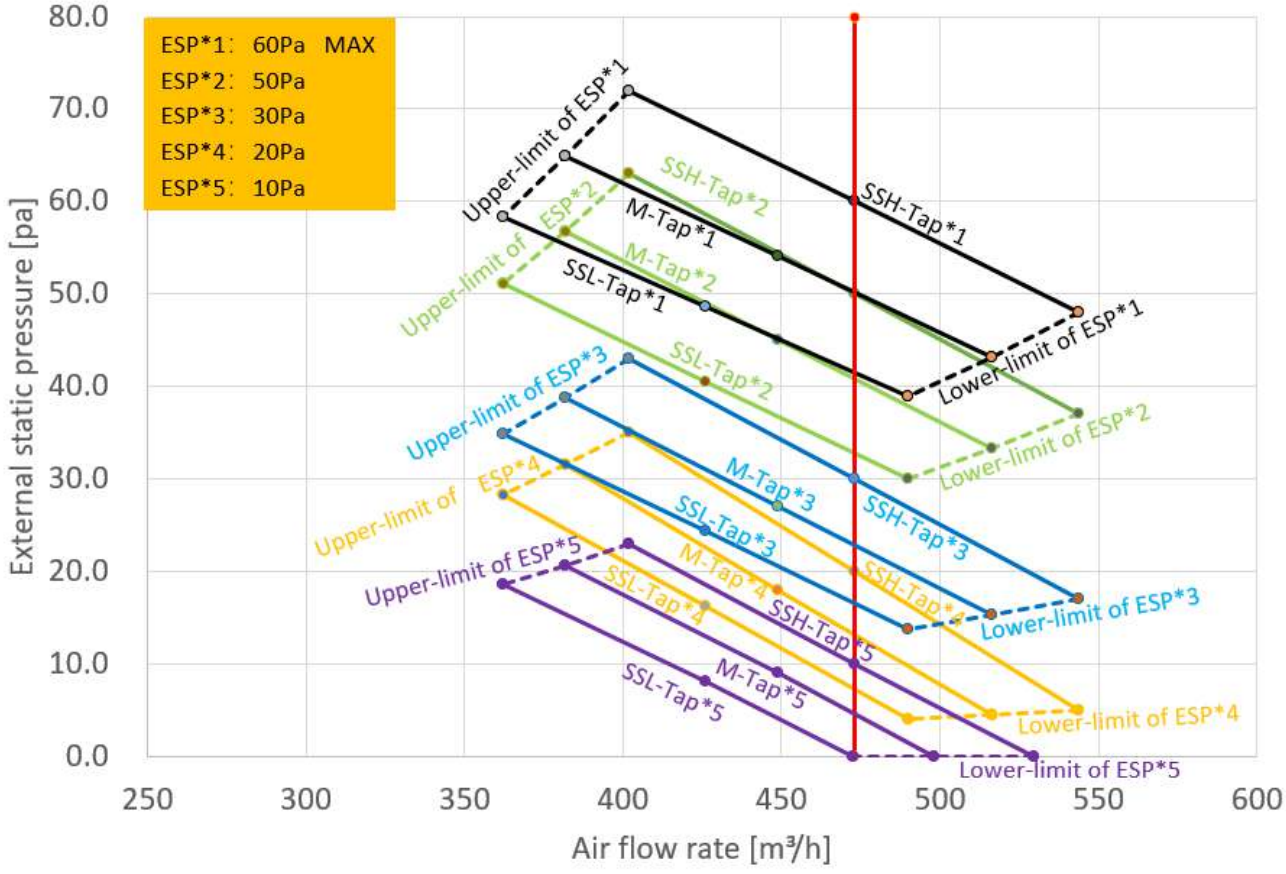


Figure 9.3: MIH36F3N18 fan performance

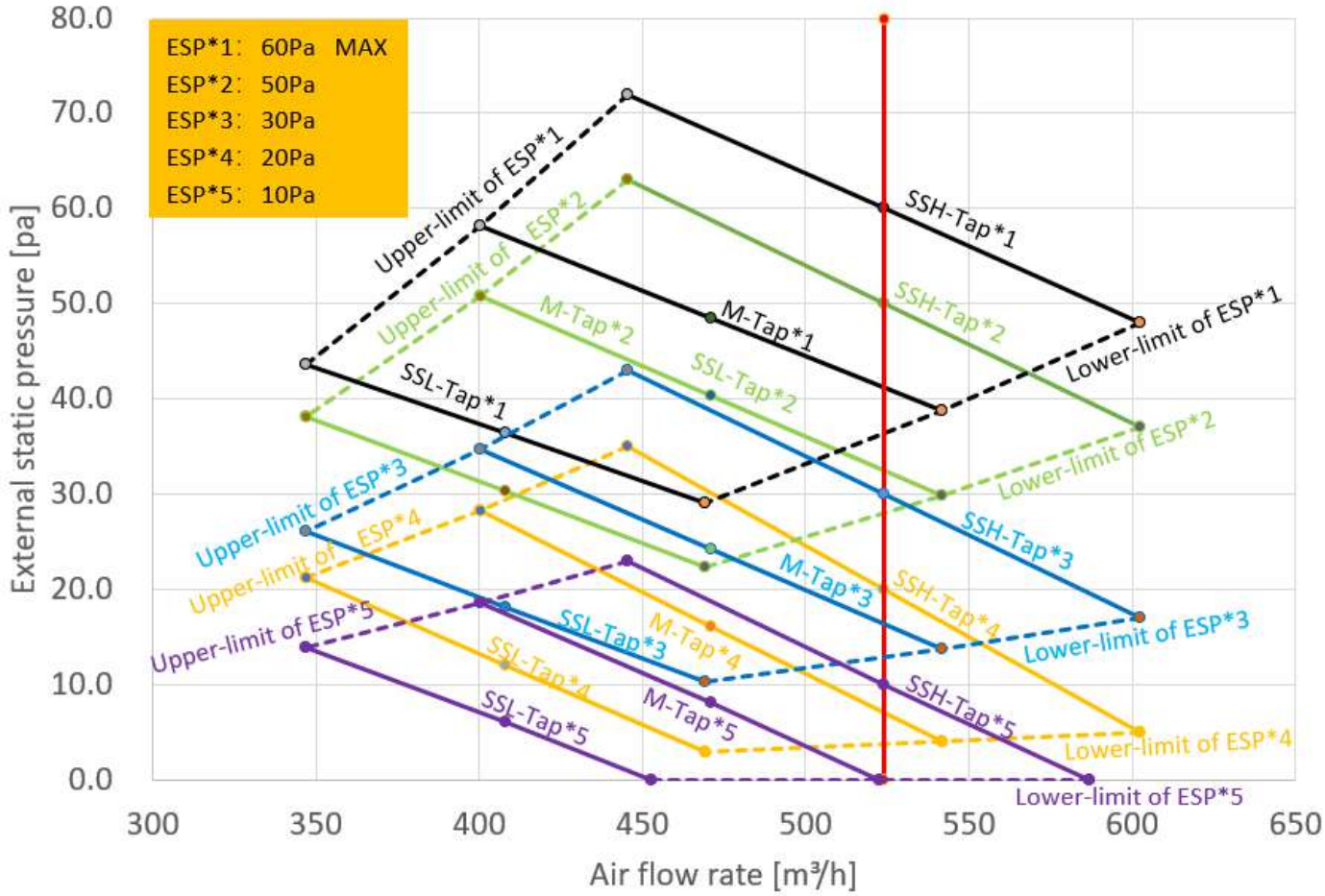


Figure 9.4: MIH45F3N18 fan performance

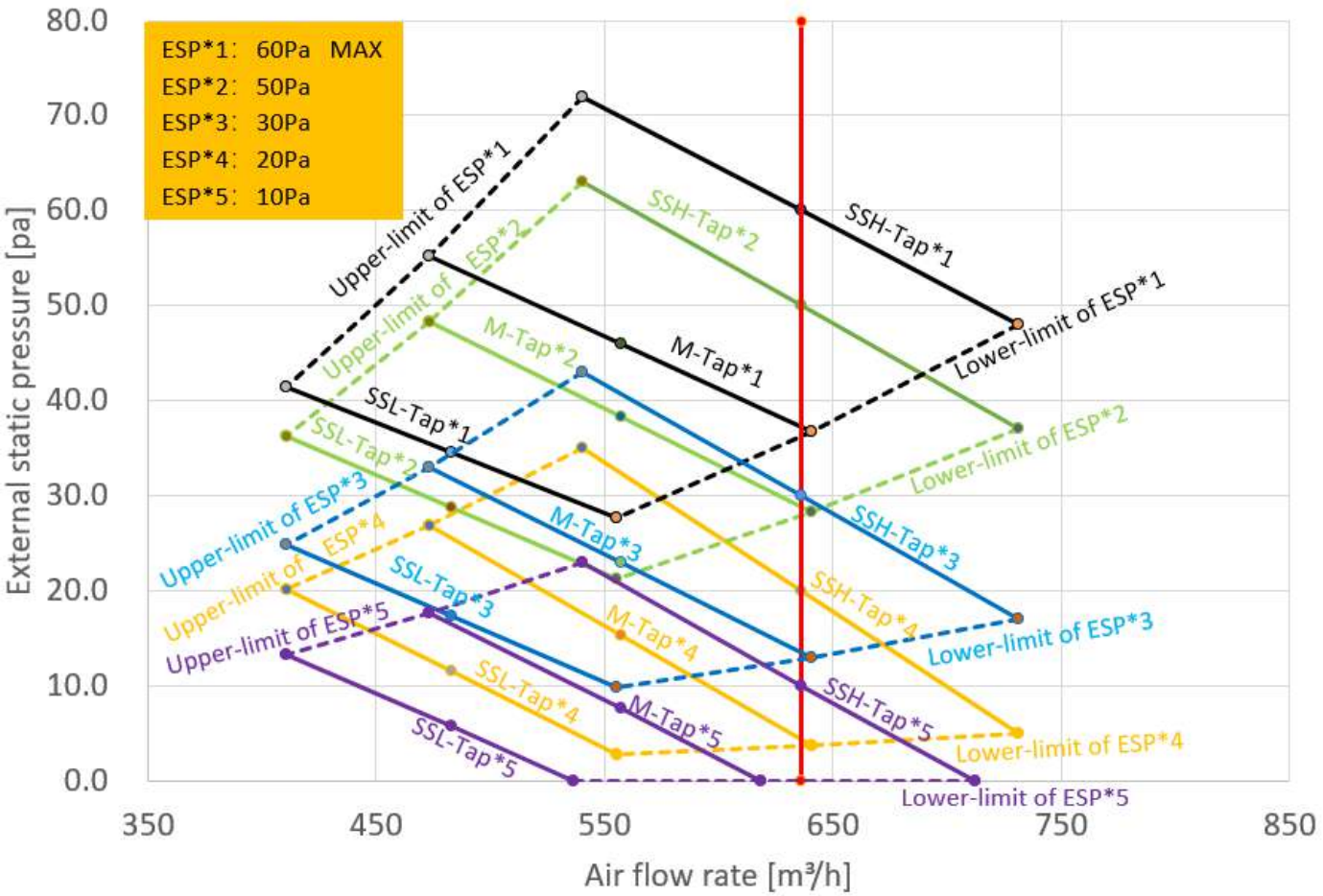


Figure 9.5: MIH56F3N18 fan performance

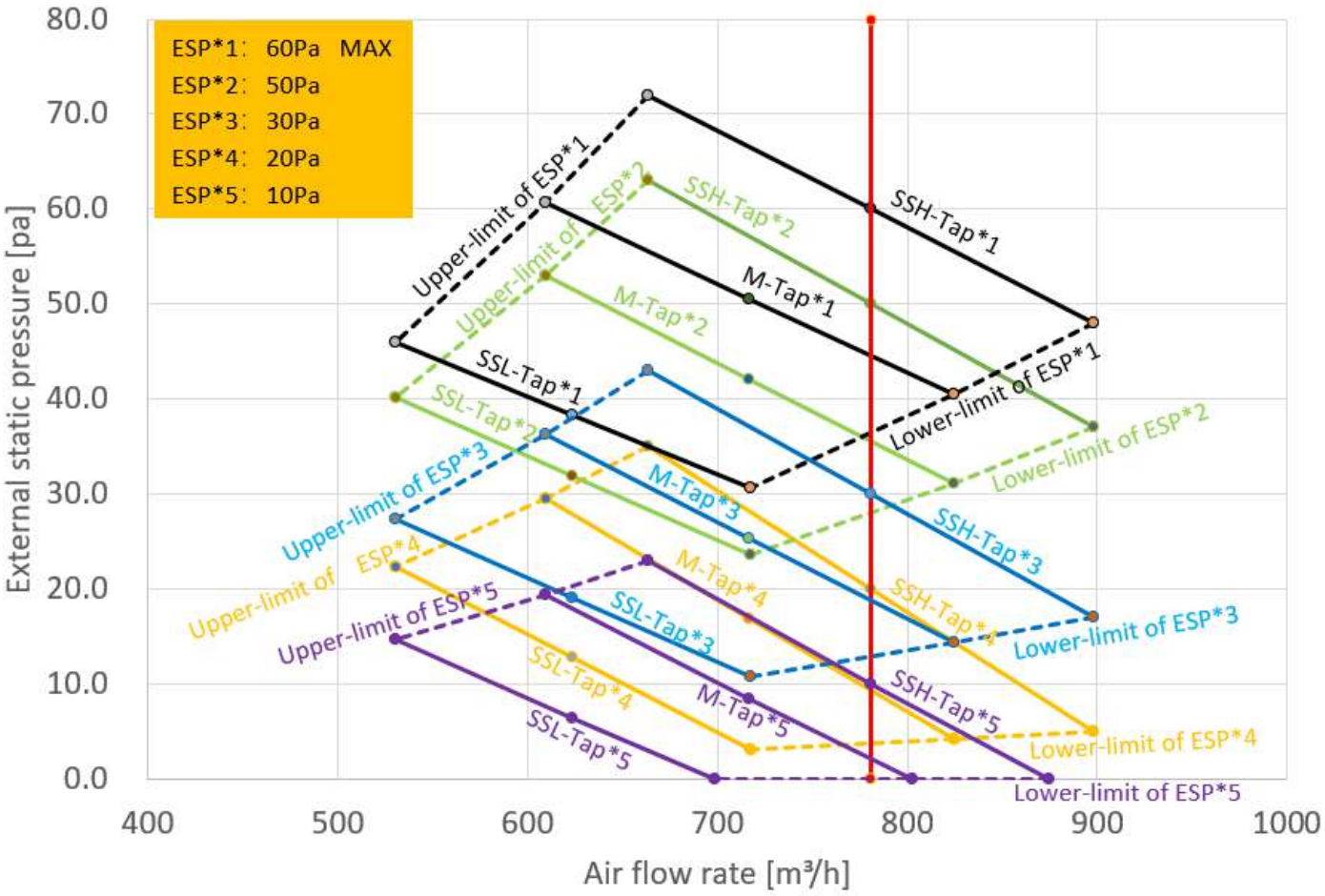


Figure 9.6: MIH71F3N18 fan performance

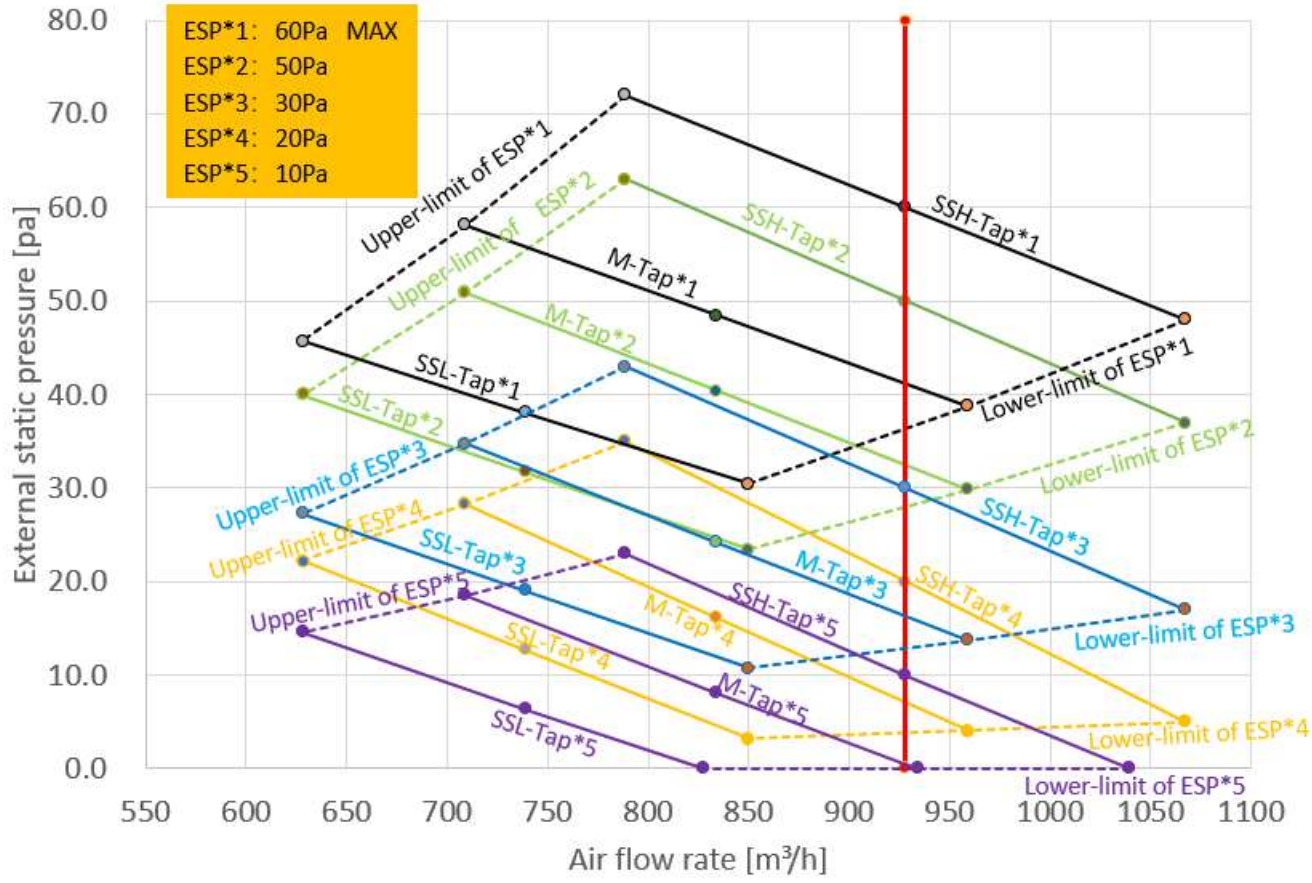
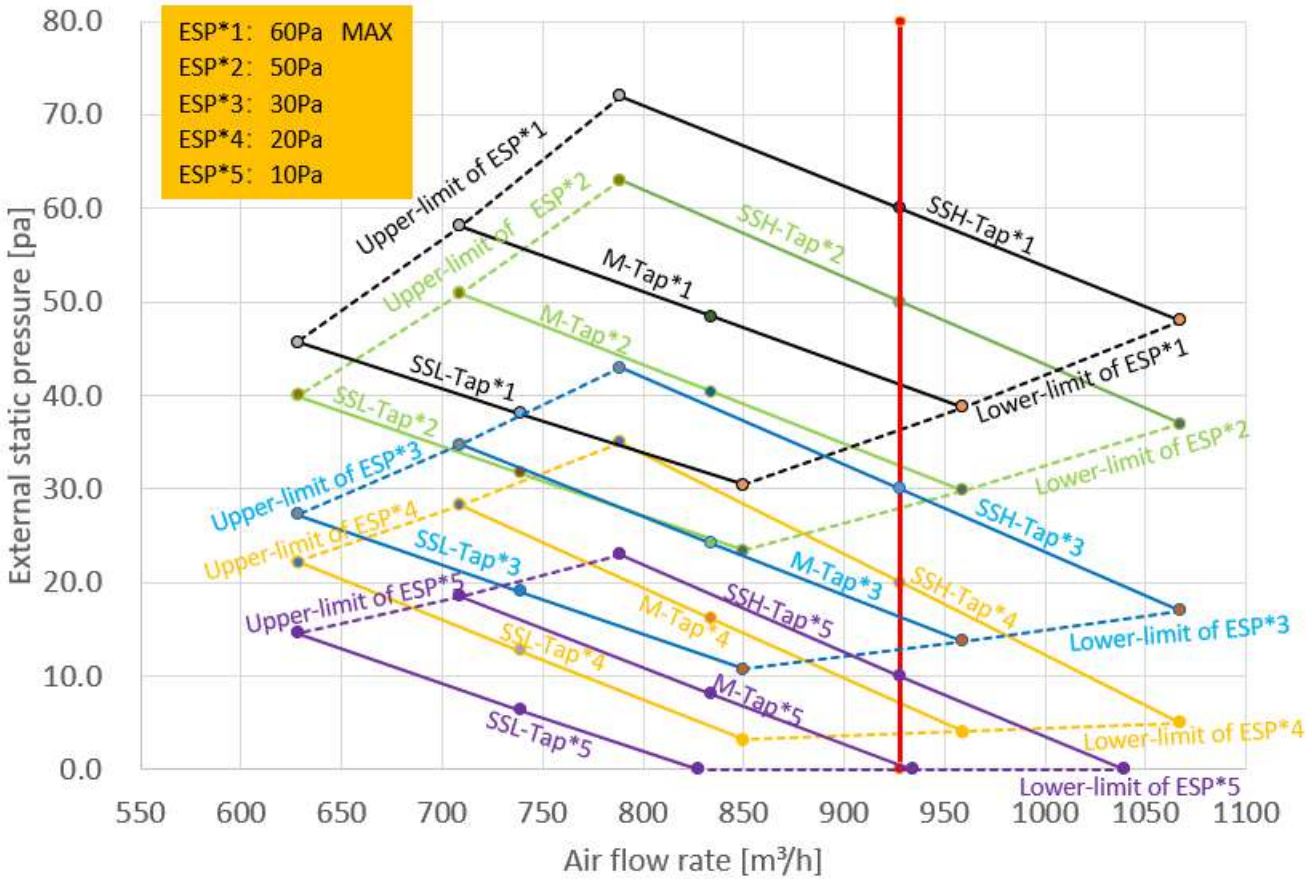


Figure 9.7: MIH80F3N18 fan performance



10 Sound Levels

10.1 Overall

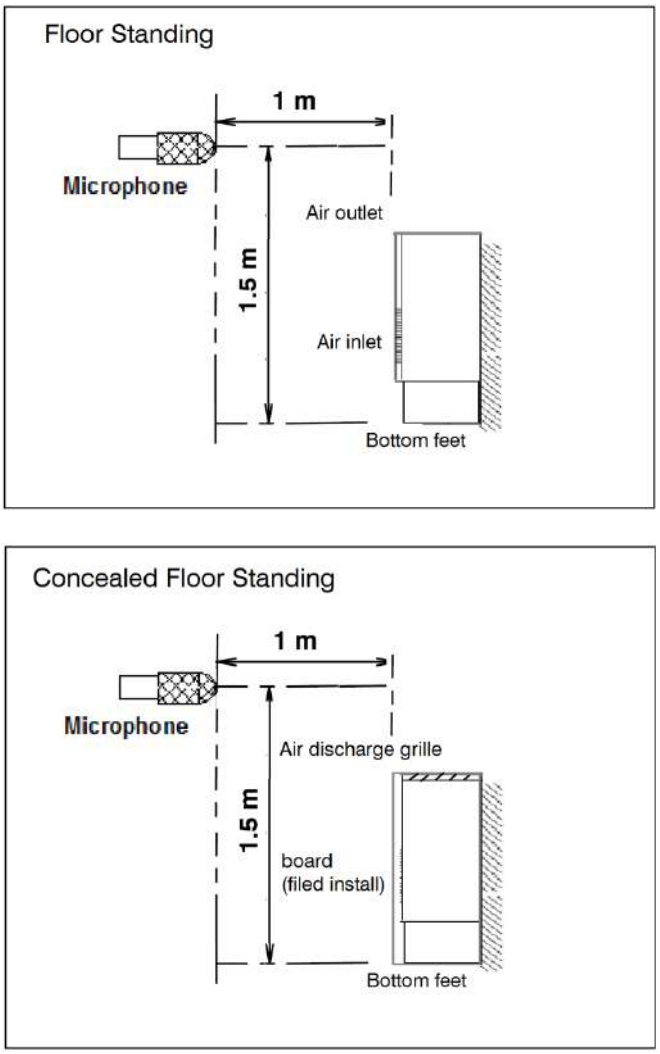
Table 10.1: Floor Standing sound pressure levels[1]

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
MIH22F3N18	34.5	34	33.5	32.5	32	31	30.5
MIH22F4N18	36	35	34.5	34	33	32.5	32
MIH22F5N18	32.5	32	31.5	31	30.5	30	29
MIH28F3N18	34.5	34	33.5	32.5	32	31	30.5
MIH28F4N18	36	35	34.5	34	33	32.5	32
MIH28F5N18	32.5	32	31.5	31	30.5	30	29
MIH36F3N18	36.5	35.5	34.5	34	33	32	31
MIH36F4N18	38	37	36	35	34	33	32
MIH36F5N18	35	34	33	32	31	30	29
MIH45F3N18	37	36	35	34	33	32	30
MIH45F4N18	43	42	41	40	39	38	37
MIH45F5N18	38	37	36	35	34	32.5	31.5
MIH56F3N18	36.5	36	35	34	33.5	32.5	31.5
MIH56F4N18	41.5	41	40	39	38	37	36
MIH56F5N18	35	34.5	34	33	32.5	32	31
MIH71F3N18	40.5	39.5	38.5	37.5	36.5	36	34.5
MIH71F4N18	46	45.5	45	44	43	42	41
MIH71F5N18	39.5	39	38	37	36	35	34
MIH80F3N18	40.5	39.5	38.5	37.5	36.5	36	34.5
MIH80F4N18	46	45.5	45	44	43	42	41
MIH80F5N18	39.5	39	38	37	36	35	34

Notes:

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

Figure 10.1: Floor Standing sound pressure level measurement



10.2 Octave Band Levels

Figure 10.2: MIH22F3N18 octave band levels

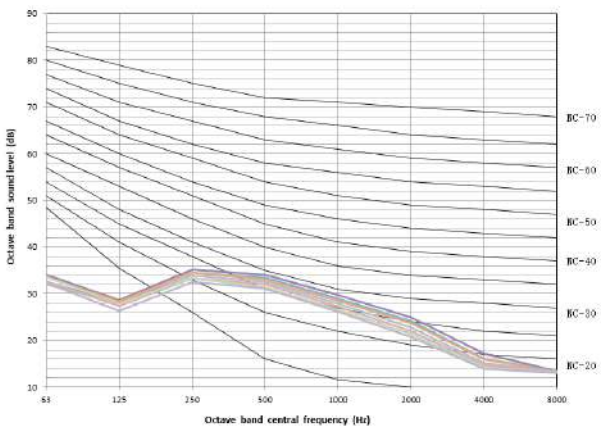


Figure 10.3: MIH28F3N18 octave band levels

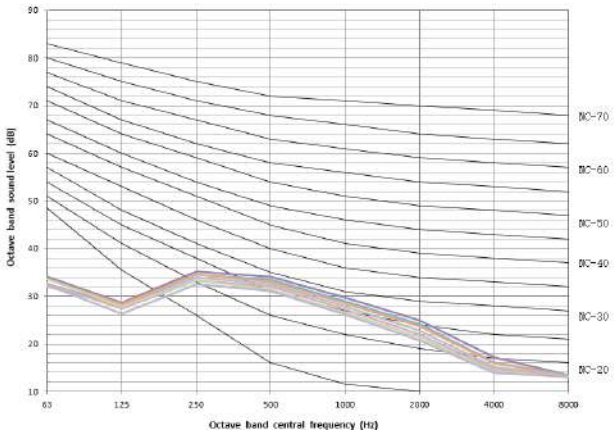


Figure 10.4: MIH36F3N18 octave band levels

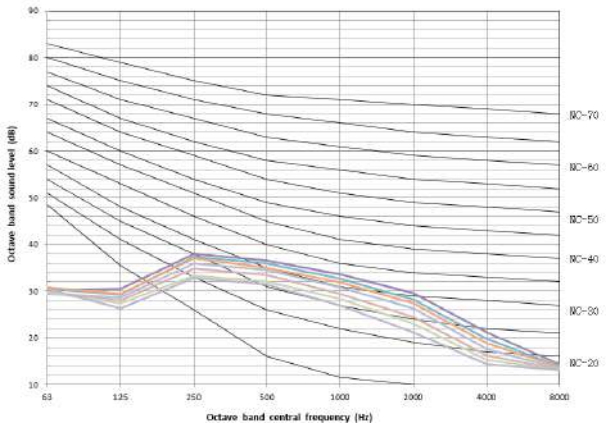


Figure 10.5: MIH45F3N18 octave band levels

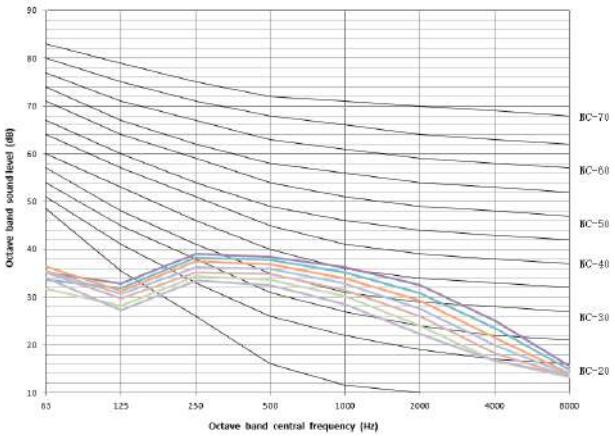


Figure 10.6: MIH56F3N18 octave band levels

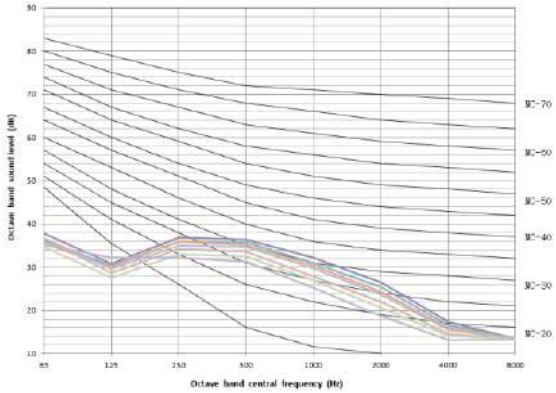


Figure 10.7: MIH71F3N18 octave band levels

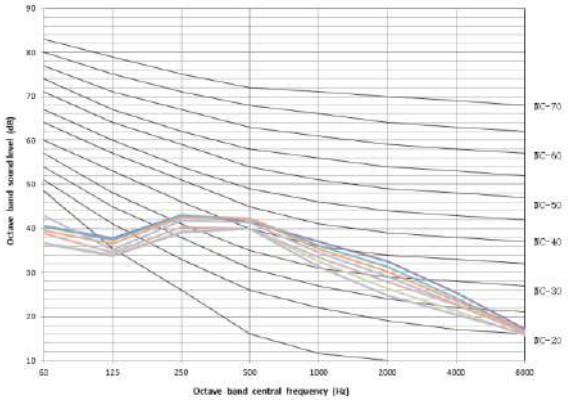


Figure 10.8: MIH80F3N18 octave band levels

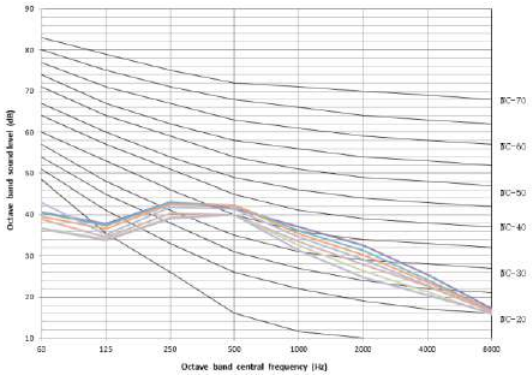


Figure 10.9: MIH22F4N18, MIH22F5N18 octave band levels

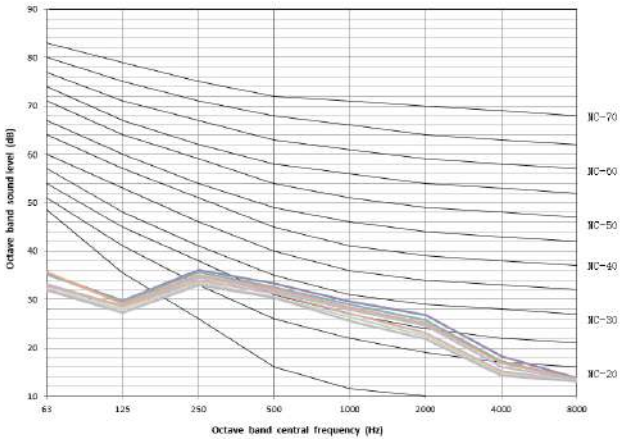


Figure 10.10:MIH28F4N18,MIH28F5N18 octave band levels

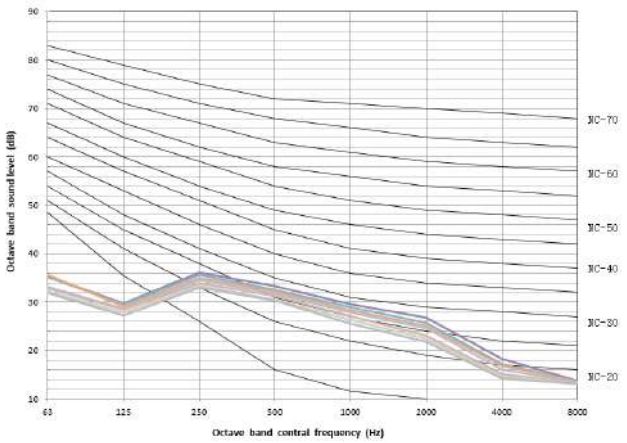


Figure 10.11:MIH36F4N18,MIH36F5N18 octave band levels

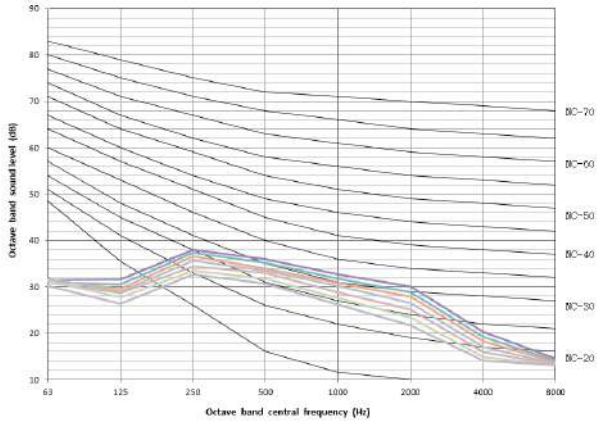


Figure 10.12:MIH45F4N18,MIH45F5N18 octave band levels

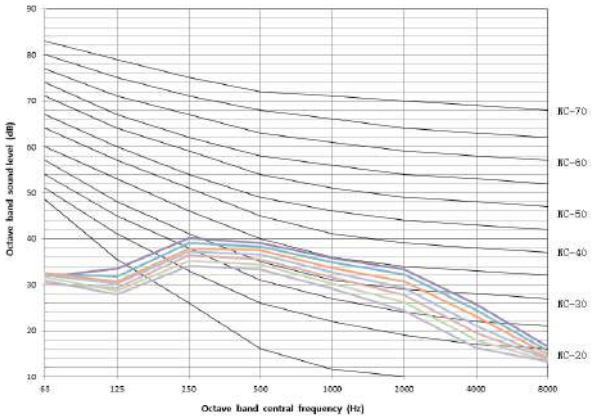


Figure 10.13:MIH56F4N18,MIH56F5N18 octave band levels

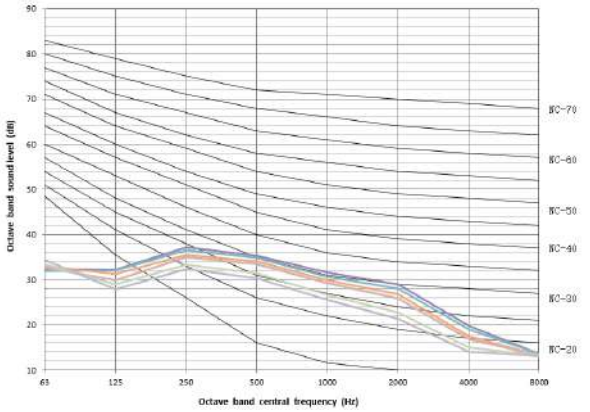


Figure 10.14:MIH71F4N18,MIH71F5N18 octave band levels

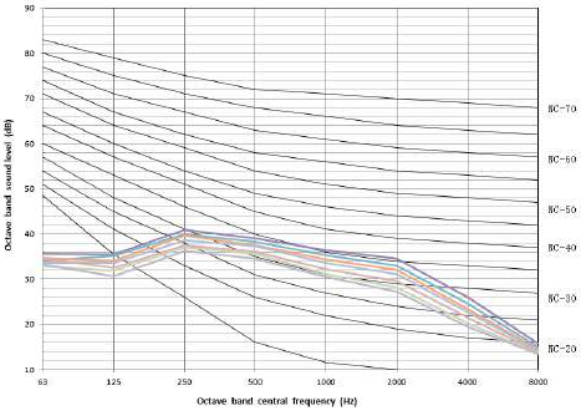
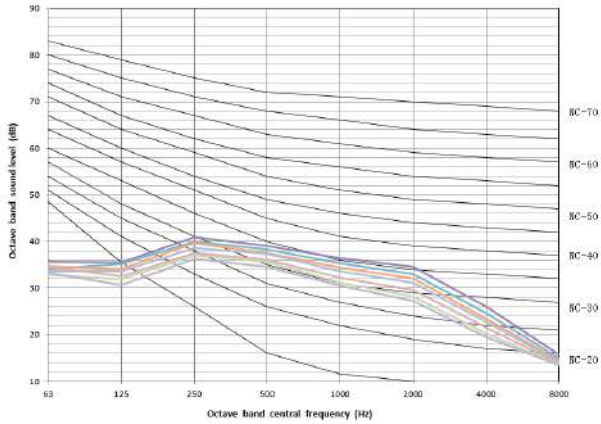


Figure 10.15:MIH80F4N18,MIH80F5N18 octave band levels



11 Temperature and Airflow Distributions

11.1 Simulate condition

Table 11.1: Floor standing simulate condition

Model name	Room size (m)	Ceiling height (m)	Flow angle (Cooling/Heating)	Placing
MIH22F3(4,5)N18	6×6	2.4	90° /125°	Standing
MIH28F3(4,5)N18	6×6	2.4	90° /125°	Standing
MIH36F3(4,5)N18	6×6	2.4	90° /125°	Standing
MIH45F3(4,5)N18	6×6	2.4	90° /125°	Standing
MIH56F3(4,5)N18	6×6	2.4	90° /125°	Standing
MIH71F3(4,5)N18	6×6	2.4	90° /125°	Standing
MIH80F3(4,5)N18	6×6	2.4	90° /125°	Standing

Note:

1. These figures 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 under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

11.2 Airflow distributions (unit: m/s)

Figure 11.1: MIH22 F3(4,5)N18 *cooling at 300S*

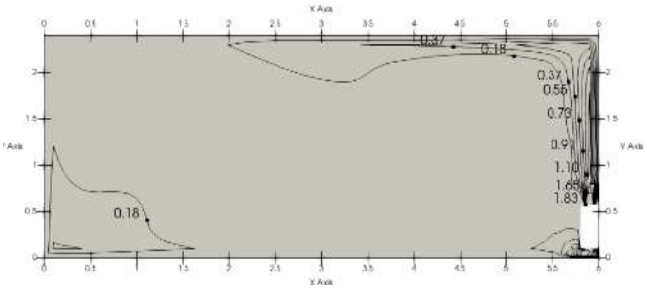


Figure 11.2: MIH22 F3(4,5)N18 *heating at 300S*

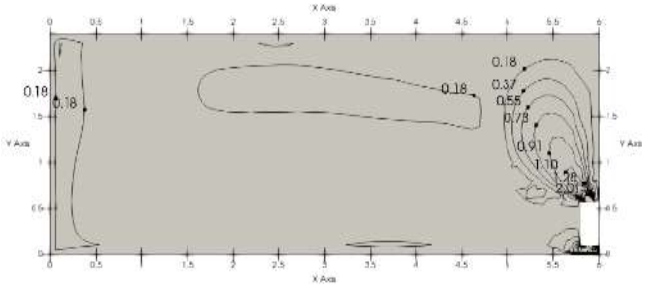


Figure 11.3: MIH28 F3(4,5)N18 *cooling at 300S*

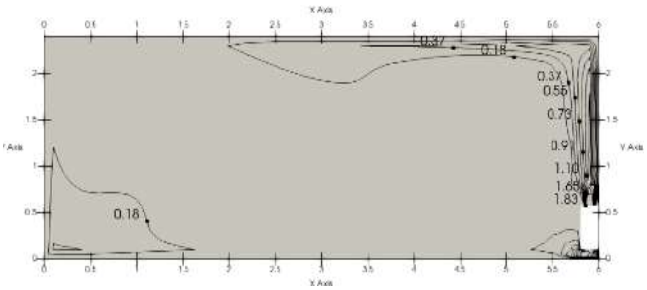


Figure 11.4: MIH28 F3(4,5)N18 *heating at 300S*

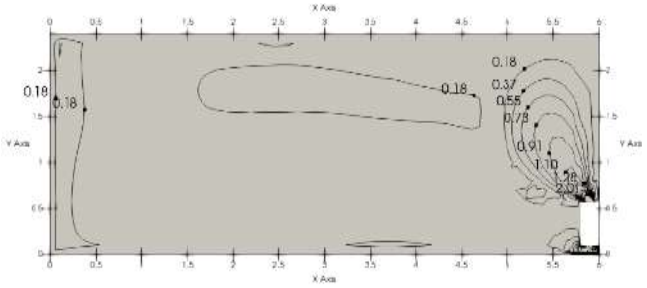


Figure 11.5: MIH36 F3(4,5)N18 *cooling at 300S*

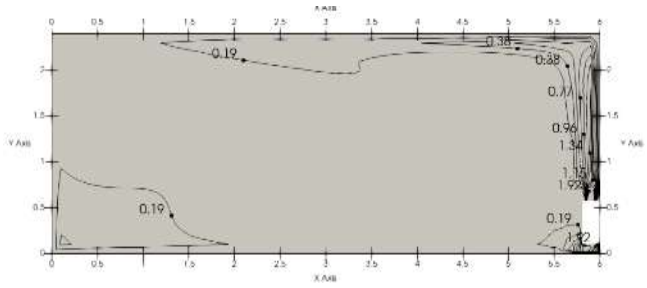


Figure 11.6: MIH36 F3(4,5)N18 *heating at 300S*

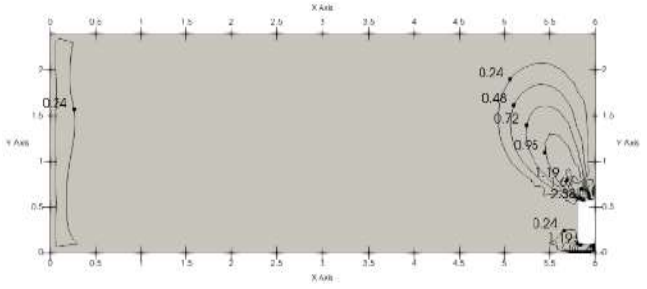


Figure 11.7: MIH45 F3(4,5)N18 *cooling at 300S*

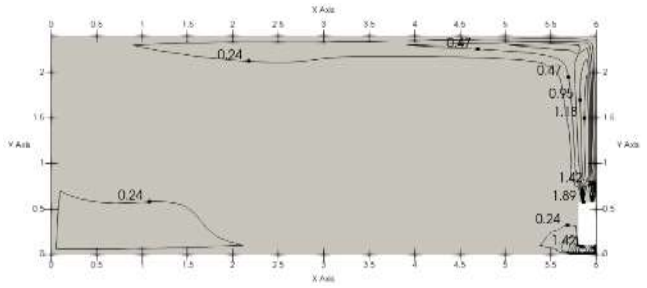


Figure 11.8: MIH45 F3(4,5)N18 *heating at 300S*

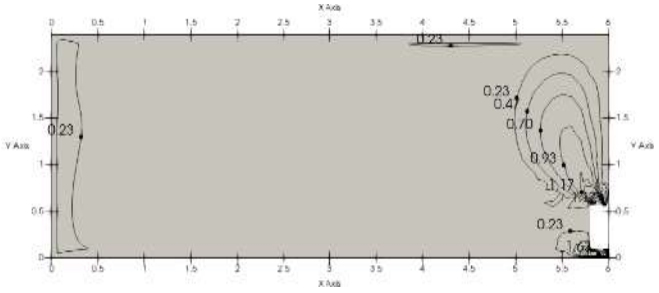


Figure 11.9: MIH56 F3(4,5)N18 *cooling at 300S*

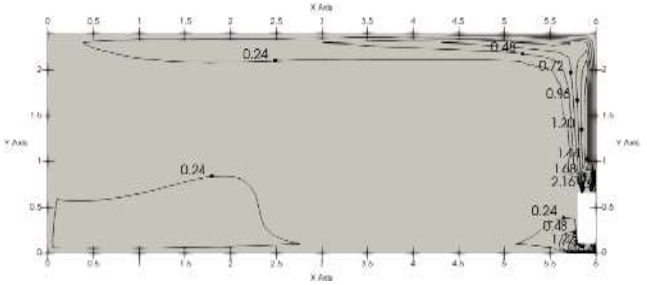


Figure 11.10: MIH56 F3(4,5)N18 *heating at 300S*

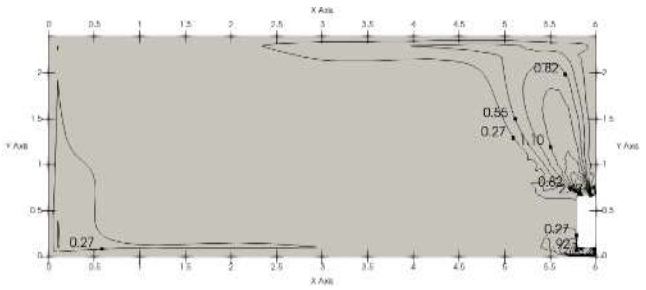


Figure 11.11: MIH71 F3(4,5)N18 *cooling at 300S*

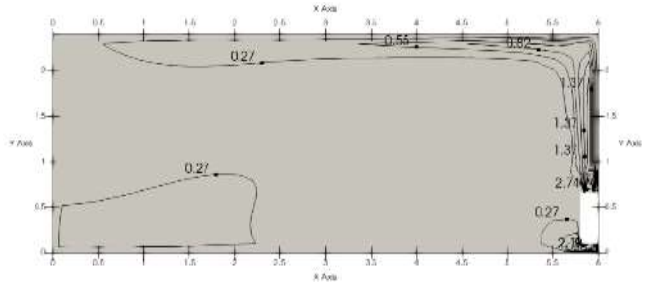


Figure 11.12: MIH71 F3(4,5)N18 *heating at 300S*

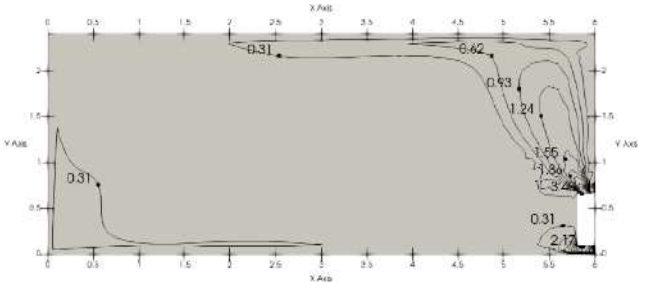


Figure 11.13: MIH80 F3(4,5)N18 *cooling at 300S*

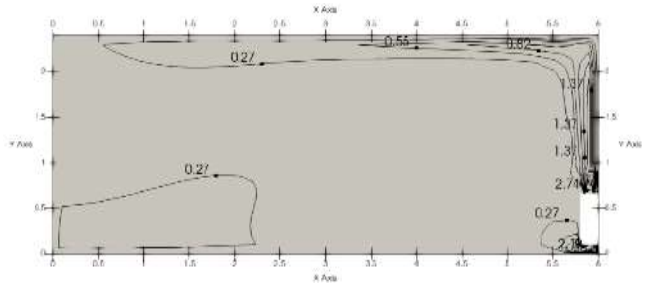
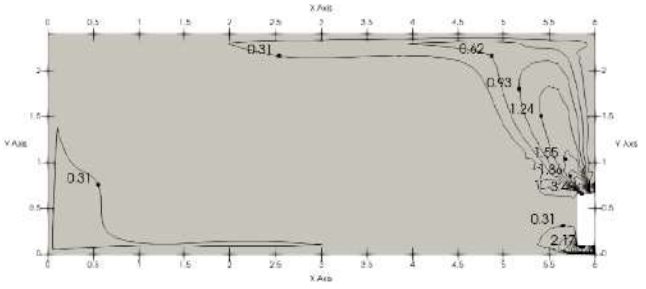


Figure 11.14: MIH80 F3(4,5)N18 *heating at 300S*



11.3 Temperature distributions

Figure 11.15: MIH22 F3 (4,5)N18 *cooling at 300S*

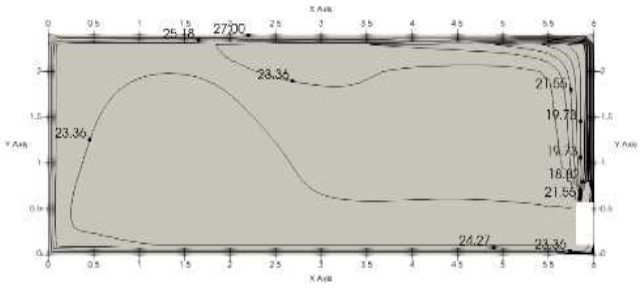


Figure 11.16: MIH22 F3 (4,5)N18 *heating at 300S*

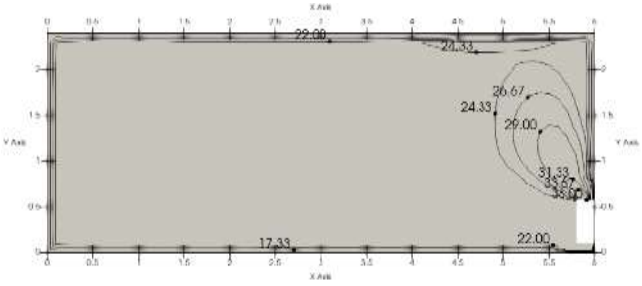


Figure 11.17: MIH28 F3 (4,5)N18 *cooling at 300S*

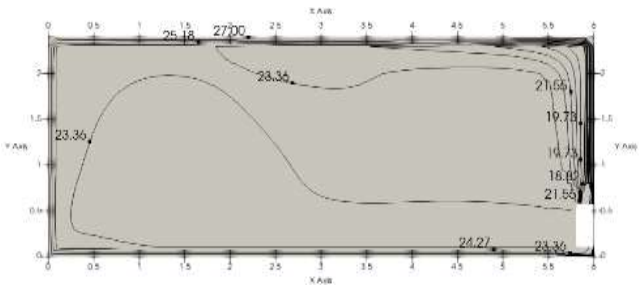


Figure 11.18: MIH28 F3 (4,5)N18 *heating at 300S*

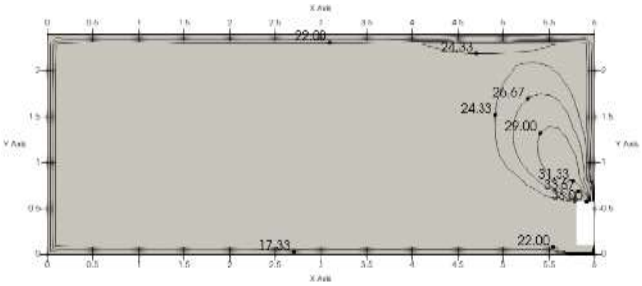


Figure 11.19: MIH36 F3 (4,5)N18 *cooling at 300S*

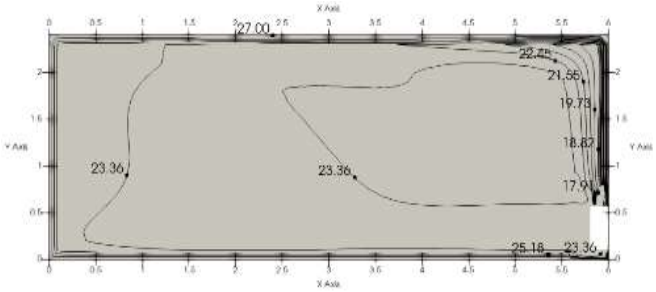


Figure 11.20: MIH36 F3 (4,5)N18 *heating at 300S*

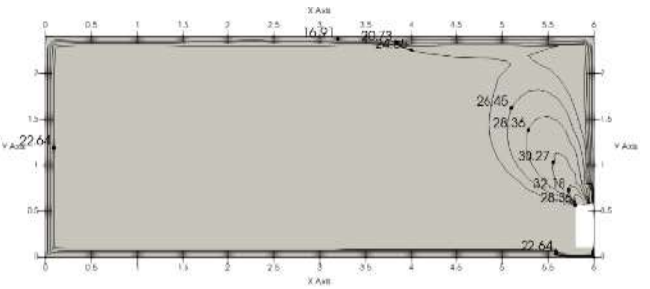


Figure 11.21: MIH45 F3 (4,5)N18 *cooling at 300S*

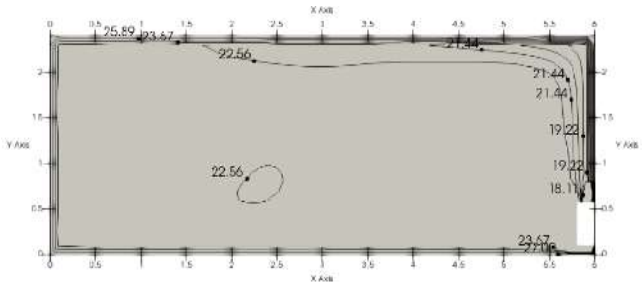


Figure 11.22: MIH45 F3 (4,5)N18 *heating at 300S*

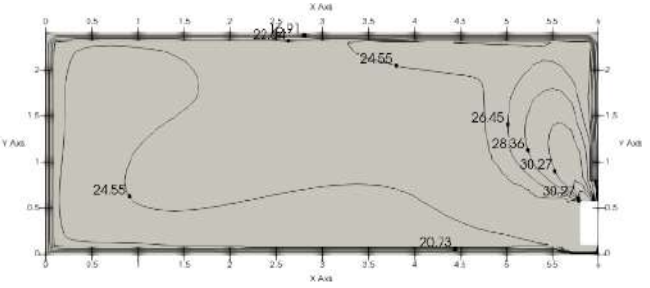


Figure 11.23: MIH56 F3 (4,5)N18 *cooling at 300S*

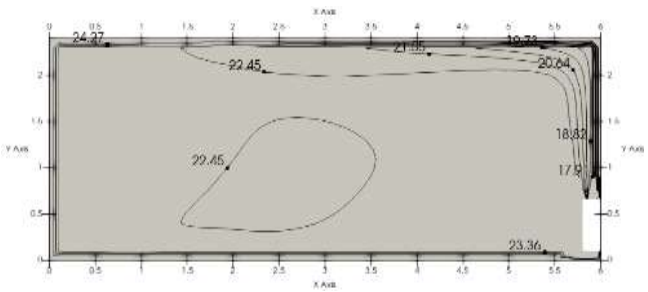


Figure 11.24: MIH56 F3 (4,5)N18 *heating at 300S*

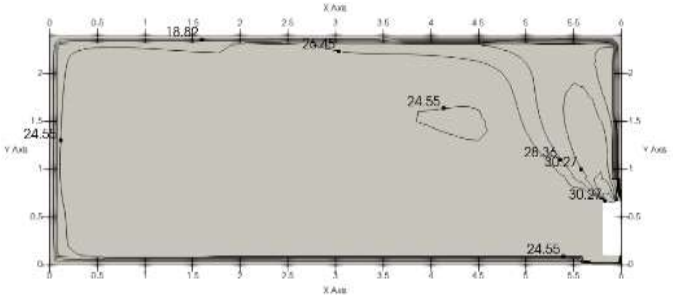


Figure 11.25: MIH71 F3 (4,5)N18 *cooling at 300S*

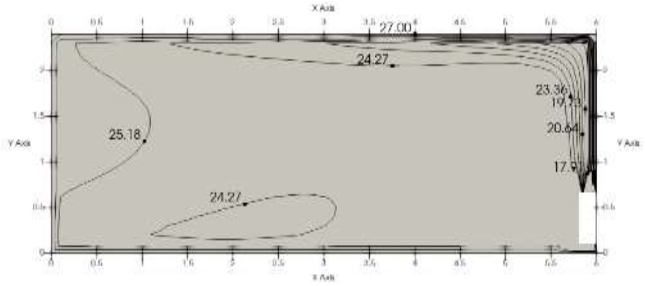


Figure 11.26: MIH71 F3 (4,5)N18 *heating at 300S*

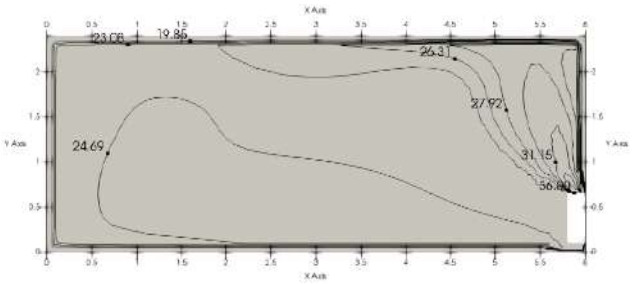


Figure 11.27: MIH80 F3 (4,5)N18 *cooling at 300S*

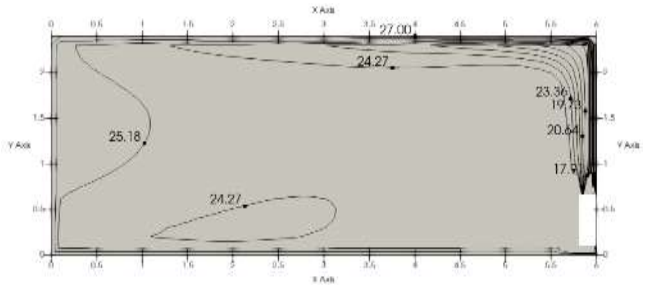
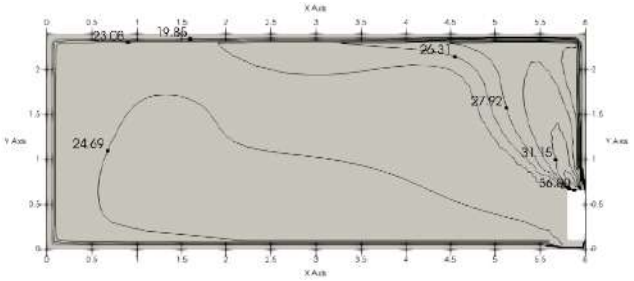


Figure 11.28: MIH80 F3 (4,5)N18 *heating at 300S*



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