



**Commercial Air Conditioners** 

# **Engineering Data**

# Floor Standing VRF IDU







MIH22F3HN18	MIH22F4HN18	MIH22F5HN18
MIH28F3HN18	MIH28F4HN18	MIH28F5HN18
MIH36F3HN18	MIH36F4HN18	MIH36F5HN18
MIH45F3HN18	MIH45F4HN18	MIH45F5HN18
MIH56F3HN18	MIH56F4HN18	MIH56F5HN18
MIH71F3HN18	MIH71F4HN18	MIH71F5HN18
MIH80F3HN18	MIH80F4HN18	MIH80F5HN18





# Floor Standing

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# 1 Specifications

Table 1.1: MIH22(28,36,45)F4HN18, MIH22(28,36,45)F5HN18 specifications

			MIH22F4HN18	MIH28F4HN18	MIH36F4HN18	MIH45F4HN18
Model			MIH22F5HN18	MIH28F5HN18	MIH36F5HN18	MIH45F5HN18
Power supply	1			1 phase, 220-2	240V, 50/60Hz	
		kW	2.2	2.8	3.6	4.5
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	35	35	40	44
		kW	2.4	3.2	4	5
Heating <sup>2</sup>	Capacity	kBtu/h	8.2	10.9	13.7	17.1
	Power input	W	35	35	41	46
		Pa(F4)		0-	10	
External stati	c pressure	Pa(F5)		0-	10	
	Туре			С	OC .	
Fan motor	Number			:	1	
	Number of rows		2	2	3	3
	Tube pitch × row pitch	mm		22×1	19.05	
	Fin spacing	mm		1	.6	
Indoor coil	Fin type			Hydrophili	c aluminum	
	Tube OD and type	mm		Ф8 Inne	r-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
		m³/h(F4)	507/490/482/4	66/449/450/435	532/512/501/483/ 466/435/414	689/663/639/608/ 575/560/526
Air flow rate <sup>3</sup>		m³/h(F5)	498/486/475/4	64/453/441/430	508/491/474/458/ 441/424/407	692/665/637/610/ 582/555/528
Carried analysis	ura lavral4	dB(A) (F4)	36/35/34.5/3	34/33/32.5/32	38/37/36/35/34/3 3/32	43/42/41/40/39/3 8/37
Sound pressu	re ievei	dB(A) (F5)	32.5/32/31.5/	31/30.5/30/29	35/34/33/32/31/3 0/29	38/37/36/35/34/3 2.5/31.5
	Net dimensions <sup>5</sup>	mm (F4)		1020×495×200		1240×495×200
	(W×H×D)	mm (F5)		1020×495×200		1240×495×200
	Packed dimensions	mm (F4)		1125×595×285		1345×595×285
Unit	(W×H×D)	mm (F5)		1125×595×285		1345×595×285
		kg (F4)	21.1,	/27.9	21.9/28.6	26.3/32.9
	Net/Gross weight	kg (F5)	21.1	/26.8	21.9/27.6	26.3/32.4
Refrigerant ty	ype			R410	A/R32	
Design pressu	ure (H/L)	Мра		4.4	/2.6	
Refrigerant piping	Liquid/Gas side	mm		Ф6.35	/Ф12.7	
Drain piping		mm		OD	D18.5	

- 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)F4HN18, MIH56(71,80)F5HN18 specifications

Model			MIH56F4HN18	MIH71F4HN18	MIH80F4HN18
Model			MIH56F5HN18	MIH71F5HN18	MIH80F5HN18
Power supply			1	phase, 220-240V, 50/60Hz	
	Canacity	kW	5.6	7.1	8.0
Cooling <sup>1</sup>	Capacity	kBtu/h	19.1	24.2	27.3
	Power input	W	45	53	62
	Canaaih	kW	6.3	8.0	9.0
Heating <sup>2</sup>	Capacity	kBtu/h	21.5	27.3	30.7
	Power input	W	47	57	64
External static	proceuro	Pa(F4)		0~10	
External static	pressure	Pa(F5)		0~10	
	Туре			DC	
Fan motor	Number			1	
	Number of rows		2	3	3
	Tube pitch × row			00 40	ı
	pitch	mm		22×19.05	
	Fin spacing	mm		1.6	
Indoor coil	Fin type			Hydrophilic aluminum	
	Tube OD and type	mm		Ф8 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
		m³/h(F4)	934/904/888/860/821/786 /764	1054/1011/992/9	955/924/889/841
Air flow rate <sup>3</sup>		m <sup>3</sup> /h(F5)	811/785/759/732/706/680 /653	930/895/860/82	25/790/755/721
		dB(A) (F4)	41.5/41/40/39/38/37/36	46/45.5/45/	44/43/42/41
Sound pressur	e level <sup>4</sup>	dB(A) (F5)	35/34.5/34/33/32.5/32/31	39.5/39/38/	37/36/35/34
	Net dimensions <sup>5</sup>	mm (F4)		1360×591×200	
	(W×H×D)	mm (F5)		1360×591×200	
	Packed dimensions	mm (F4)		1465×695×285	
Unit	(W×H×D)	mm (F5)		1465×695×285	
		kg (F4)	32.1/41.0	33.3/41.1	33.3/42.1
	Net/Gross weight	kg (F5)	32.1/39.4	33.3/41.1	33.3/41.1
Refrigerant ty	pe			R410A/R32	
Design pressu	re (H/L)	Мра		4.4/2.6	
Refrigerant piping	Liquid/Gas side	mm	Ф6.35/Ф12.7		/Ф15.9
Drain piping		mm		OD Φ18.5	

- 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)F3HN18 specifications

Model			MIH22F3HN18	MIH28F3HN18	MIH36F3HN18	MIH45F3HN18
Power supply	/			1 phase, 220-2	240V, 50/60Hz	
	Consolita	kW	2.2	2.8	3.6	4.5
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	35	35	40	44
	Conneit	kW	2.4	3.2	4.0	5.0
Heating <sup>2</sup>	Capacity	kBtu/h	8.2	10.9	13.6	17.1
	Power input	W	35	35	41	46
External stati	c pressure	Pa		0-6	60	
F	Туре			D	С	
Fan motor	Number			1	L	
	Number of rows		2	2	3	3
	Tube pitch × row			224	0.05	
	pitch	mm		22×1	9.05	
	Fin spacing	mm		1.	6	
Indoor coil	Fin type			Hydrophilic	aluminum	
	Tube OD and type	mm		Ф8 Inner	-groove	
	Dimensions	mm	580×38.1×176	580×38.1×176	580×57.2×176	800×57.2×176
	(L×H×W)					
	Number of circuits		2	2	4	4
Air flow rate <sup>3</sup>	3	m³/h	473/464/454/44	9/439/431/426	524/503/488/471 /450/427/408	636/611/584/557 /533/507/483
Sound pressu	ura laval4	dB(A)	34.5/34/33.5/32	) E /22 /21 /20 E	36.5/35.5/34.5/34	37/36/35/34/33/
Journa pressu	are level	UB(A)	34.3/34/33.3/32		/33/32/31	32/30
	Net dimensions <sup>5</sup> (W×H×D)	mm		915×470×200		1133×470×200
Unit	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 t	ype			R410	\/R32	1
Design press	ure (H/L)	Мра		4.4/	<sup>7</sup> 2.6	
Refrigerant	. , ,			,		
piping	Liquid/Gas side	mm		Ф6.35/	′Ф12.7	
Drain piping		mm		OD ¢	18.5	

- 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)F3HN18 specifications

Model			MIH56F3HN18	MIH71F3HN18	MIH80F3HN18
Power supply	у		1	phase, 220-240V, 50/60H	Iz
		kW	5.6	7.1	8.0
Cooling <sup>1</sup>	Capacity	kBtu/h	19.1	24.2	27.3
	Power input	W	45	53	62
	Conneitu	kW	6.3	8.0	9.0
Heating <sup>2</sup>	Capacity	kBtu/h	21.5	27.3	30.7
	Power input	W	47	57	64
External stat	ic pressure	Pa		0-60	
Fan motor	Туре			DC	
ו מוז וווטנטו	Number			1	
	Number of rows		2	3	3
	Tube pitch × row pitch	mm		22×19.05	
	Fin spacing	mm		1.6	
Indoor coil	Fin type			Hydrophilic aluminum	
	Tube OD and type	mm		Ф8 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	m³/h	781/756/738/717/683 /651/624	928/893//865/8	34/803/770/739
Sound pressu	ure level <sup>4</sup>	dB(A)	36.5/36/35/34/33.5/3 2.5/31.5	40.5/39.5/38.5/3	7.5/36.5/36/34.5
	Net dimensions <sup>5</sup> (W×H×D)	mm		1253×566×200	
Unit	Packed dimensions (W×H×D)	mm		1325×650×255	
	Net/Gross weight	kg	24.3/30.0	26.1,	/31.8
Refrigerant t	уре			R410A/R32	
Design press	ure (H/L)	Мра		4.4/2.6	
Refrigerant piping	Liquid/Gas side	mm	Ф6.35/Ф12.7	Ф9.52,	/Ф15.9
Drain piping		mm		OD Ф18.5	

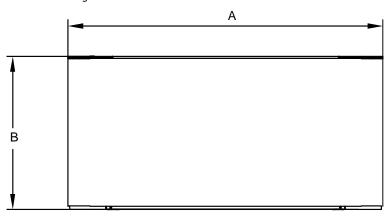
- 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference
- 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference
- 3. Fan motor speed and 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.

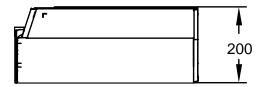


#### 2 Dimensions

#### 2.1 Unit Dimensions

Figure 2.1: F4/F5 series Exposed Floor Standing dimensions







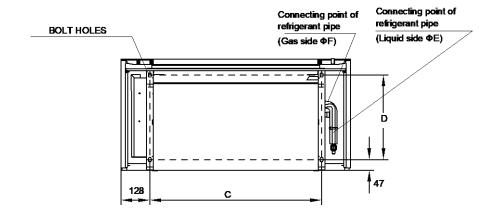


Table 2.1: F4/F5 series Exposed Floor Standing dimensions

Dimensions(mm) Model D MIH22F4HN18 MIH22F5HN18 MIH28F4HN18 1020 495 764 375 MIH28F5HN18 MIH36F4HN18 MIH36F5HN18 MIH45F4HN18 1240 495 984 375 MIH45F5HN18 MIH56F4HN18 MIH56F5HN18 MIH71F4HN18 1360 591 1104 391 MIH71F5HN18 MIH80F4HN18 MIH80F5HN18

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

Model	E(mm)	F(mm)
MIH22F4HN18		
MIH22F5HN18		
MIH28F4HN18		
MIH28F5HN18		
MIH36F4HN18	6.25	12.7
MIH36F5HN18	6.35	12.7
MIH45F4HN18		
MIH45F5HN18		
MIH56F4HN18		
MIH56F5HN18		
MIH71F4HN18		
MIH71F5HN18	0.53	15.0
MIH80F4HN18	9.52	15.9
MIH80F5HN18		



Figure 2.2: F3 series Concealed Floor Standing dimensions

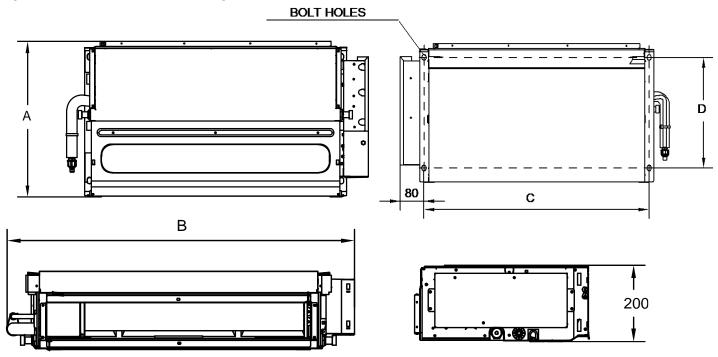


Table 2.3: F3 series Concealed Floor Standing dimensions

0.0		Dimensi	ons(mm)	
Model	Α	В	С	D
MIH22F3HN18				
MIH28F3HN18	470	915	764	375
MIH36F3HN18				
MIH45F3HN18	470	1133	984	375
MIH56F3HN18				
MIH71F3HN18	566	1253	1104	391
MIH80F3HN18				

Figure 2.3: F3 series Concealed Floor Standing piping connections

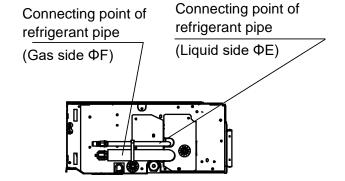


Table 2.4: F3 series Concealed Floor Standing piping connections

Model	E(mm)	F(mm)
MIH22F3HN18		
MIH28F3HN18		
MIH36F3HN18	6.35	12.7
MIH45F3HN18		
MIH56F3HN18		
MIH71F3HN18	0.52	45.0
MIH80F3HN18	9.52	15.9



#### 3 Unit Placement

#### 3.1 Placement Considerations

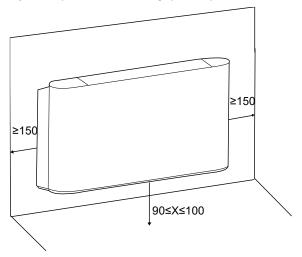
Unit placement should take account of the following considerations:

- 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

Midea V8 Series VRF Indoor Units Engineering Data Book

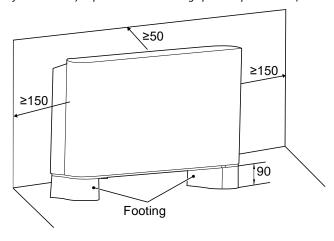
Figure 3.1: F4 series (air inlet from front) Exposed Floor Standing space requirements (unit: mm)



- 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.
- 2. Additionally, it is required to keep 50mm between the rear and wall; 600mm between the front face and the obstacle. 1700mm vertical distance between the top of unit (outlet) and the upper obstacle.



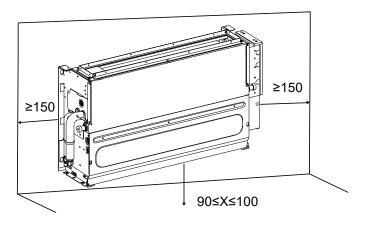
Figure 3.2: F5 series (air inlet from bottom) Exposed Floor Standing space requirements (unit: mm)



#### 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. Additionally, it is required to keep 50mm between the rear and wall; 600mm between the front face and the obstacle. 1700mm vertical distance between the top of unit (outlet) and the upper obstacle.
- 3. The footings are optional. You can purchase them separately.

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

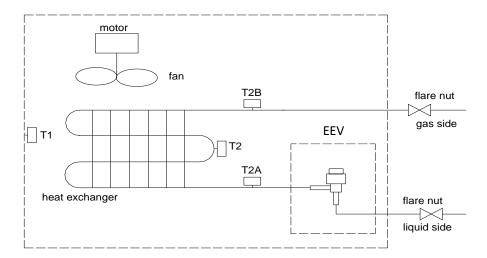


- 1. Vertical unit for building-in, with air intake from below and air outlet on top, for installation on a wall.
- 2. Additionally, it is required to keep 20mm between the rear and wall; 600mm between the front face and the obstacle. 1700mm vertical distance between the top of unit (outlet) and the upper obstacle.



# 4 Piping Diagram

Figure 4.1: Floor Standing piping diagram

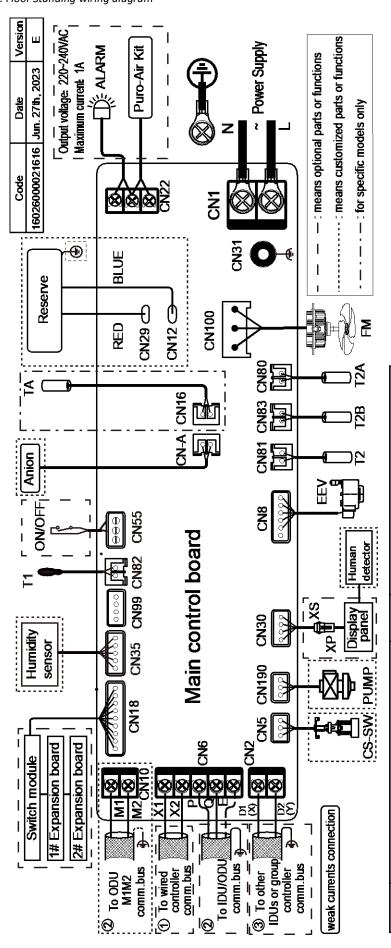


Legen	d
T1	Inlet Air Temp. Sensor
T2A	Liquid Pipe Temp. Sensor
T2	Middle Pipe Temp. Sensor
T2B	Gas Pipe Temp. Sensor
EEV	Electronic Expansion Valve
FAN	DC Fan Motor



# 5 Wiring Diagram

Figure 5.1: Floor Standing wiring diagram



Code	Description	Code	Description
ALARM	ALARM Alam Output	7.5	T2 Middle Pipe Temp. Sensor
Anion	Anion Ionic Sterilization Module	T2A	T2A Liquid Pipe Temp. Sensor
CS-SW	CS-SW Water Level Switch	128	T2B Gas Pipe Temp. Sensor
EEV	EEV   Electronic Expansion Valve	TA	TA Discharge Air Temp. Sensor*
ΕM	FM DC Fan Motor	ON/OFF	ON/OFF Remote ON/OFF
T0	Outdoor Air Temp. Sensor*	dX/SX	XS/XP Connectors
I	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

	Indoor air temperature (°C WB/DB)													
Model	14,	/20	16,	/23	18,	/26	19,	/27	20,	/28	22,	/30	24,	/32
	тс	sc	TC	sc	тс	sc	TC	sc	TC	sc	тс	sc	тс	sc
MIH22F3HN18														
MIH22F4HN18	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
MIH22F5HN18														
MIH28F3HN18														
MIH28F4HN18	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
MIH28F5HN18														
MIH36F3HN18														
MIH36F4HN18	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
MIH36F5HN18														
MIH45F3HN18														
MIH45F4HN18	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
MIH45F5HN18														
MIH56F3HN18														
MIH56F4HN18	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
MIH56F5HN18														
MIH71F3HN18														
MIH71F4HN18	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
MIH71F5HN18														
MIH80F3HN18														
MIH80F4HN18	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
MIH80F5HN18														

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

	Indoor air temperature (°C DB)								
Model	16	18	20	21	22	24			
	SHC	SHC	SHC	SHC	SHC	SHC			
MIH22F3HN18									
MIH22F4HN18	2.6	2.6	2.4	2.3	2.3	2.1			
MIH22F5HN18									
MIH28F3HN18									
MIH28F4HN18	3.4	3.4	3.2	3.1	3.0	2.8			
MIH28F5HN18									
MIH36F3HN18									
MIH36F4HN18	4.2	4.2	4.0	3.8	3.8	3.5			
MIH36F5HN18									
MIH45F3HN18									
MIH45F4HN18	5.3	5.3	5.0	4.8	4.7	4.4			
MIH45F5HN18									
MIH56F3HN18									
MIH56F4HN18	6.7	6.6	6.3	6.1	5.9	5.5			
MIH56F5HN18									
MIH71F3HN18									
MIH71F4HN18	8.5	8.4	8.0	7.8	7.5	7.0			
MIH71F5HN18									
MIH80F3HN18									
MIH80F4HN18	9.5	9.5	9.0	8.7	8.5	7.8			
MIH80F5HN18									

Abbreviations:

SHC: Sensible heating capacity(kW)

Notes

1. Shaded cells indicate rating condition



# **7 Electrical Characteristics**

Table 7.1: Floor Standing electrical characteristics

			Power s	upply			Indoor fa	an motors
Model	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (W)	FLA
MIH22F3HN18								
MIH22F4HN18	50/60	220-240	198	264	0.3	15	50	0.5
MIH22F5HN18								
MIH28F3HN18								
MIH28F4HN18	50/60	220-240	198	264	0.3	15	50	0.5
MIH28F5HN18								
MIH36F3HN18								
MIH36F4HN18	50/60	220-240	198	264	0.3	15	50	0.5
MIH36F5HN18								
MIH45F3HN18								
MIH45F4HN18	50/60	220-240	198	264	0.3	15	50	0.5
MIH45F5HN18								
MIH56F3HN18								
MIH56F4HN18	50/60	220-240	198	264	0.4	15	60	0.6
MIH56F5HN18								
MIH71F3HN18								
MIH71F4HN18	50/60	220-240	198	264	0.4	15	60	0.6
MIH71F5HN18								
MIH80F3HN18								
MIH80F4HN18	50/60	220-240	198	264	0.4	15	60	0.6
MIH80F5HN18								

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

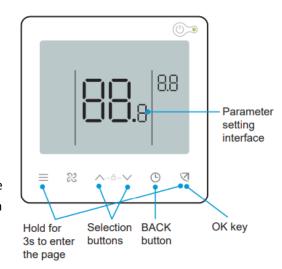


Table 8.1: External static pressure setting (Concealed)-F3

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
NOO	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: MIH22F3HN18 fan performance

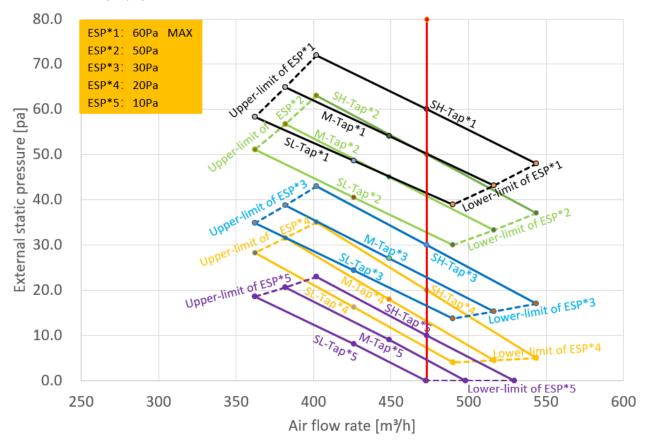


Figure 9.2: MIH28F3HN18 fan performance

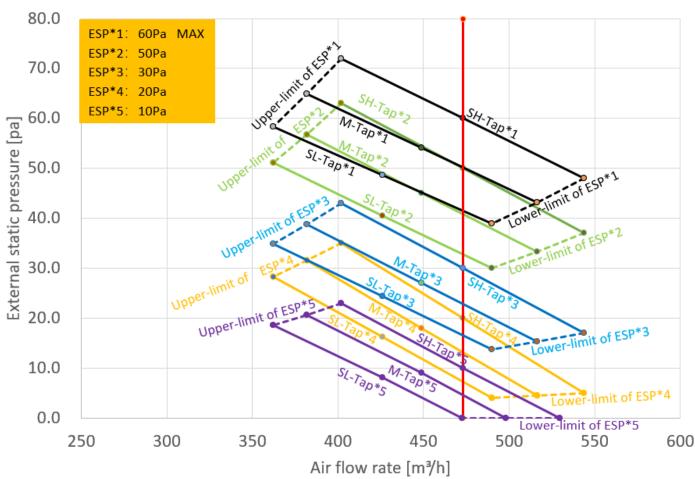


Figure 9.3: MIH36F3HN18 fan performance

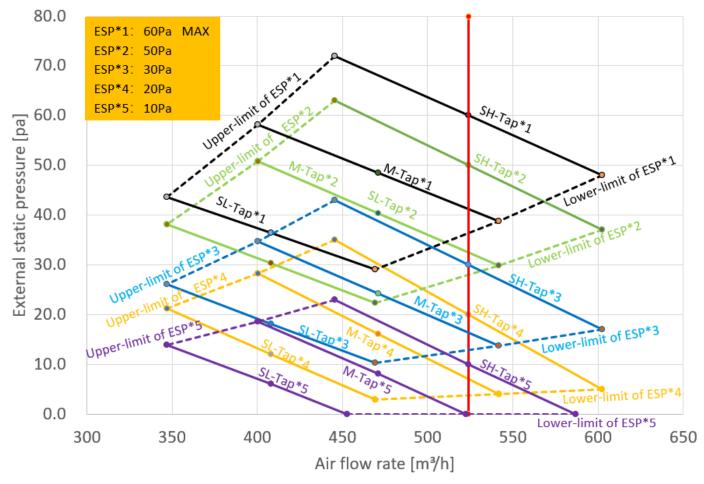


Figure 9.4: MIH45F3HN18 fan performance

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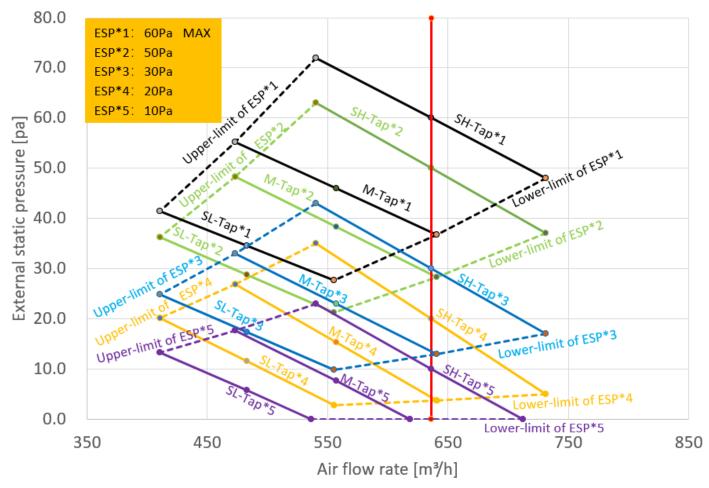




Figure 9.5: MIH56F3HN18 fan performance

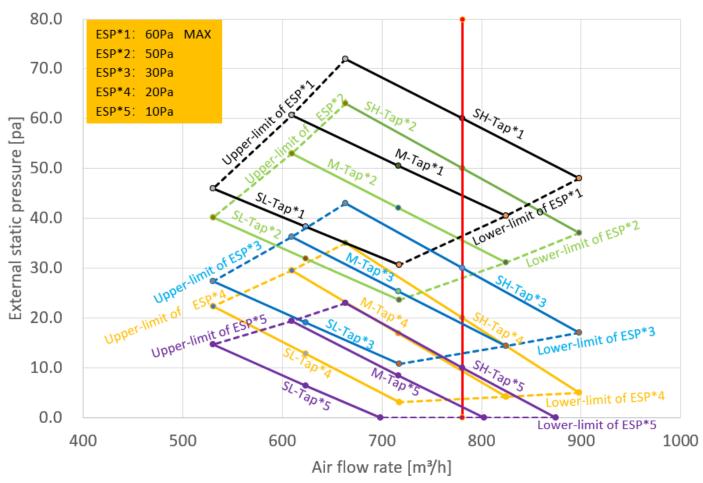


Figure 9.6: MIH71F3HN18 fan performance

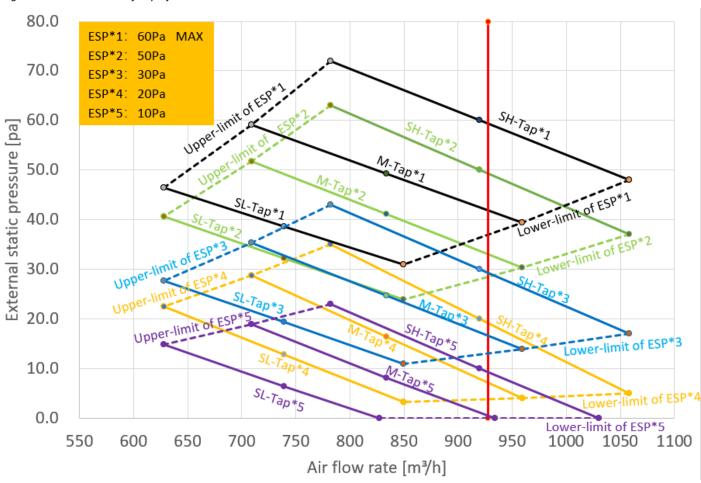
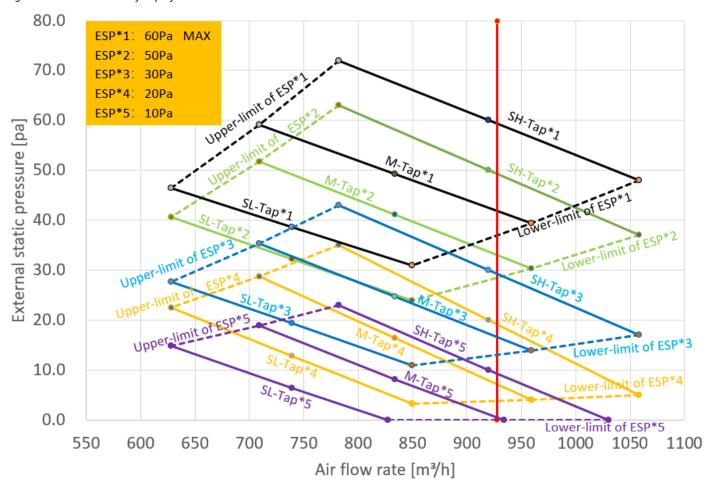




Figure 9.7: MIH80F3HN18 fan performance





#### **10 Sound Levels**

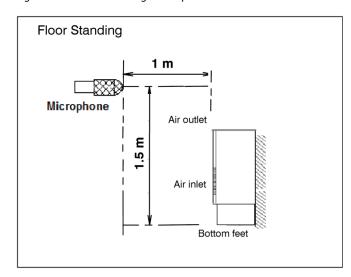
#### 10.1 Overall

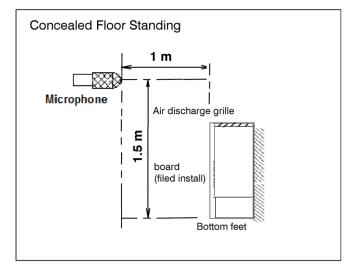
Table 10.1: Floor Standing sound pressure levels<sup>1</sup>

No. del.	Sound pressure levels dB(A)									
Model name	SSH	SH	Н	М	L	SL	SSL			
MIH22F3HN18	34.5	34	33.5	32.5	32	31	30.5			
MIH22F4HN18	36	35	34.5	34	33	32.5	32			
MIH22F5HN18	32.5	32	31.5	31	30.5	30	29			
MIH28F3HN18	34.5	34	33.5	32.5	32	31	30.5			
MIH28F4HN18	36	35	34.5	34	33	32.5	32			
MIH28F5HN18	32.5	32	31.5	31	30.5	30	29			
MIH36F3HN18	36.5	35.5	34.5	34	33	32	31			
MIH36F4HN18	38	37	36	35	34	33	32			
MIH36F5HN18	35	34	33	32	31	30	29			
MIH45F3HN18	37	36	35	34	33	32	30			
MIH45F4HN18	43	42	41	40	39	38	37			
MIH45F5HN18	38	37	36	35	34	32.5	31.5			
MIH56F3HN18	36.5	36	35	34	33.5	32.5	31.5			
MIH56F4HN18	41.5	41	40	39	38	37	36			
MIH56F5HN18	35	34.5	34	33	32.5	32	31			
MIH71F3HN18	40.5	39.5	38.5	37.5	36.5	36	34.5			
MIH71F4HN18	46	45.5	45	44	43	42	41			
MIH71F5HN18	39.5	39	38	37	36	35	34			
MIH80F3HN18	40.5	39.5	38.5	37.5	36.5	36	34.5			
MIH80F4HN18	46	45.5	45	44	43	42	41			
MIH80F5HN18	39.5	39	38	37	36	35	34			

#### Notes:

Figure 10.1: Floor Standing sound pressure level measurement





#### 10.2 Octave Band Levels

Figure 10.2: MIH22F3HN18 octave band levels

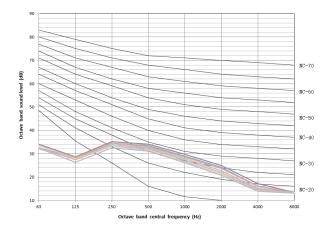
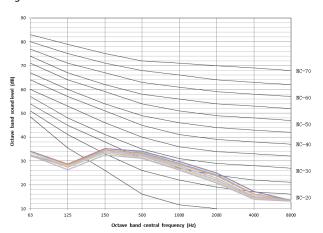


Figure 10.3: MIH28F3HN18 octave band levels



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 10.4: MIH36F3HN18 octave band levels

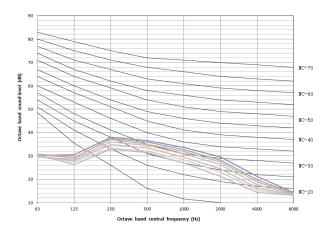


Figure 10.6: MIH56F3HN18 octave band levels

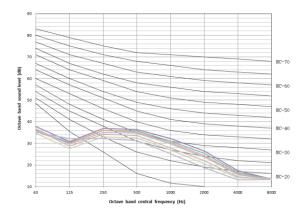


Figure 10.8: MIH80F3HN18 octave band levels

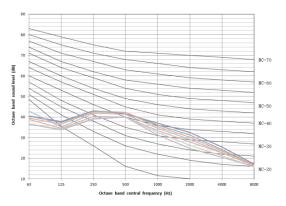


Figure 10.9: MIH22F4HN18, MIH22F5HN18 octave band levels

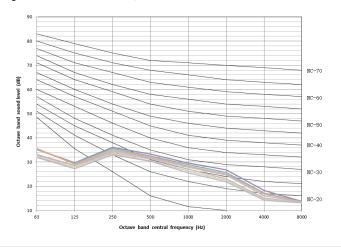


Figure 10.5: MIH45F3HN18 octave band levels

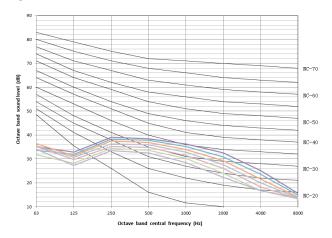


Figure 10.7: MIH71F3HN18 octave band levels

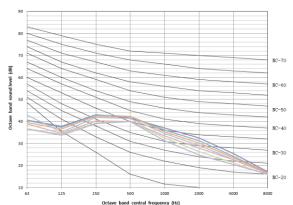


Figure 10.10:MIH28F4HN18,MIH28F5HN18 octave band levels

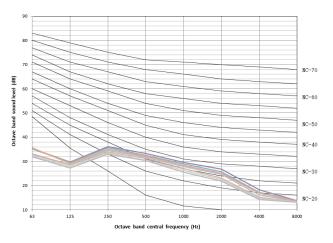




Figure 10.11:MIH36F4HN18,MIH36F5HN18 octave band levels

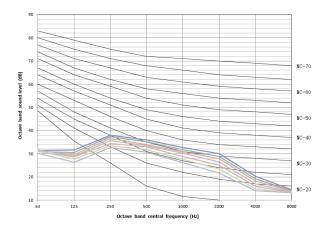


Figure 10.13:MIH56F4HN18,MIH56F5HN18 octave band levels

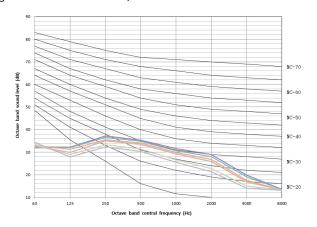


Figure 10.15:MIH80F4HN18,MIH80F5HN18 octave band levels

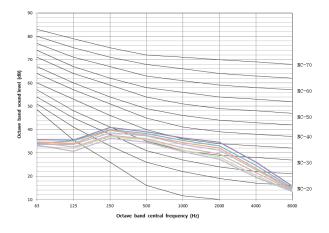


Figure 10.12:MIH45F4HN18,MIH45F5HN18 octave band levels

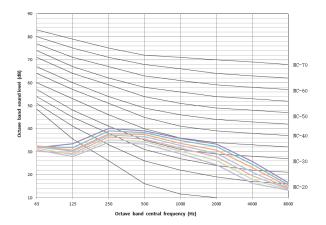
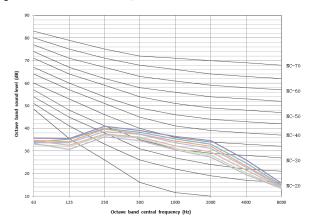


Figure 10.14:MIH71F4HN18,MIH71F5HN18 octave band levels





# 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)HN18	6×6	2.4	90° /125°	Standing
MIH28F3(4,5)HN18	6×6	2.4	90° /125°	Standing
MIH36F3(4,5)HN18	6×6	2.4	90° /125°	Standing
MIH45F3(4,5)HN18	6×6	2.4	90° /125°	Standing
MIH56F3(4,5)HN18	6×6	2.4	90° /125°	Standing
MIH71F3(4,5)HN18	6×6	2.4	90° /125°	Standing
MIH80F3(4,5)HN18	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)HN18 cooling at 300S

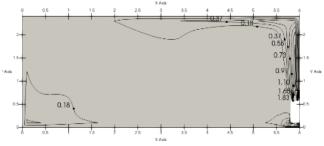


Figure 11.3: MIH28 F3(4,5)HN18 cooling at 300S

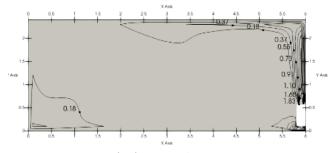


Figure 11.5: MIH36 F3(4,5)HN18 cooling at 300S

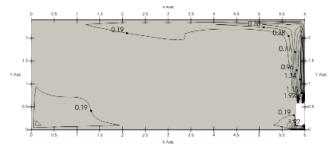


Figure 11.2: MIH22 F3(4,5)HN18 heating at 300S

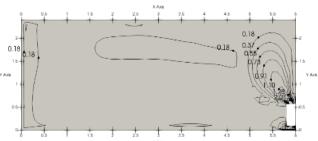


Figure 11.4: MIH28 F3(4,5)HN18 heating at 300S

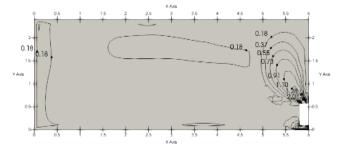


Figure 11.6: MIH36 F3(4,5)HN18 heating at 300S

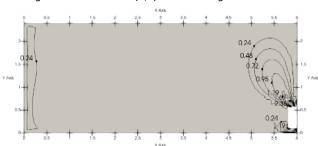




Figure 11.7: MIH45 F3(4,5)HN18 cooling at 300S

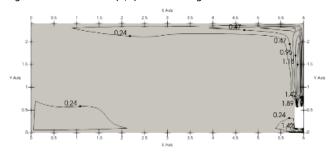


Figure 11.9: MIH56 F3(4,5)HN18 cooling at 300S

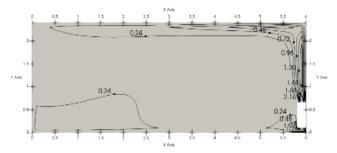


Figure 11.11: MIH71 F3(4,5)HN18 cooling at 300S

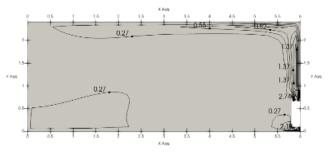


Figure 11.13: MIH80 F3(4,5)HN18 cooling at 300S

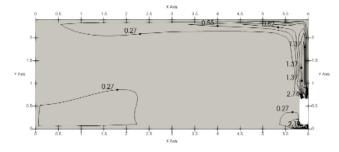


Figure 11.8: MIH45 F3(4,5)HN18 heating at 300S

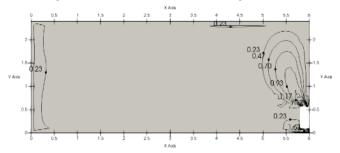


Figure 11.10: MIH56 F3(4,5)HN18 heating at 300S

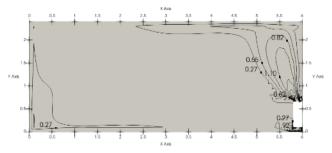


Figure 11.12: MIH71 F3(4,5)HN18 heating at 300S

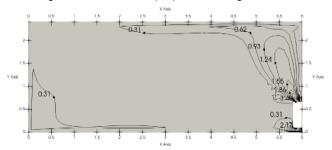
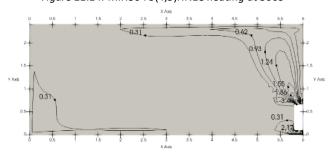


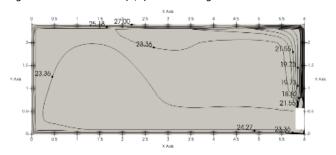
Figure 11.14: MIH80 F3(4,5)HN18 heating at 300S



# Midea

#### 11.3 Temperature distributions

Figure 11.15: MIH22 F3 (4,5)HN18 cooling at 300S



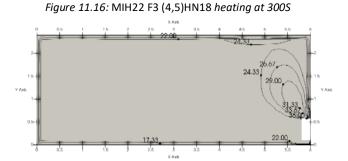


Figure 11.17: MIH28 F3 (4,5)HN18 cooling at 300S

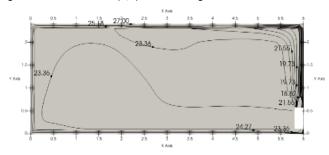


Figure 11.19: MIH36 F3 (4,5)HN18 cooling at 300S

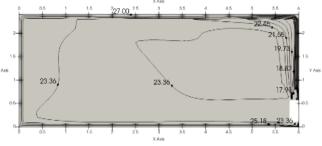


Figure 11.21: MIH45 F3 (4,5)HN18 cooling at 300S

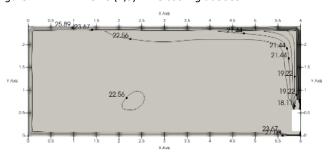


Figure 11.23: MIH56 F3 (4,5)HN18 cooling at 300S

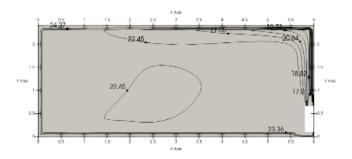


Figure 11.18: MIH28 F3 (4,5)HN18 heating at 300S

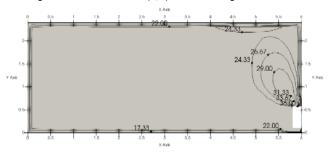


Figure 11.20: MIH36 F3 (4,5)HN18 heating at 300S

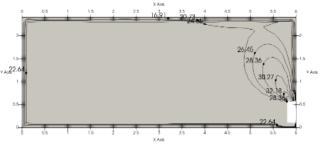


Figure 11.22: MIH45 F3 (4,5)HN18 heating at 300S

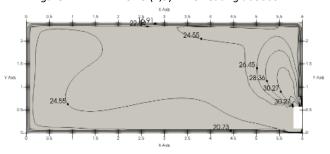


Figure 11.24: MIH56 F3 (4,5)HN18 heating at 300S

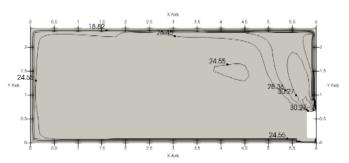




Figure 11.25: MIH71 F3 (4,5)HN18 cooling at 300S

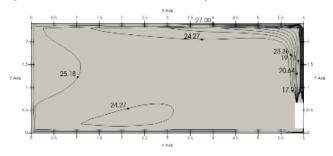


Figure 11.27: MIH80 F3 (4,5)HN18 cooling at 300S

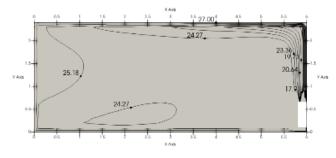


Figure 11.26: MIH71 F3 (4,5)HN18 heating at 300S

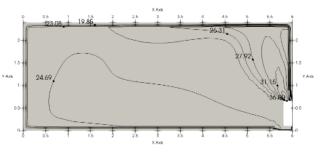
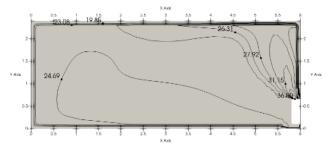


Figure 11.28: MIH80 F3 (4,5)HN18 heating at 300S



T-V8FH Ver. 2023-7

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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.