ECOFLEX MINI VRF FLOOR STANDING INDOOR UNIT **TECHNICAL SELECTION DATA**



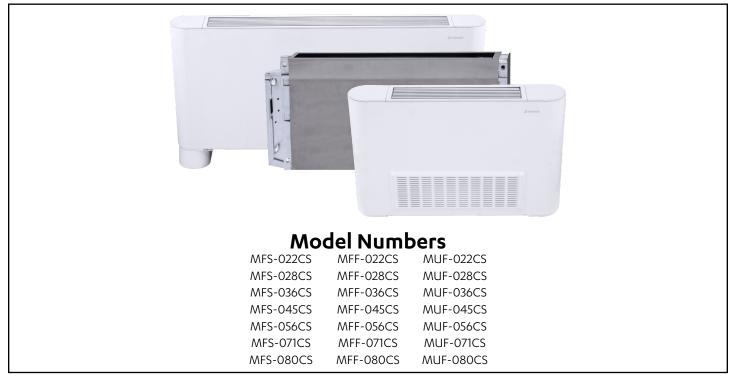


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01.Specification

-			MFS-022CS	MFS-028CS	MFS-036CS	MFS-045CS	MFS-056CS	MFS-071CS	MFS-080CS		
Model				MFF-028CS			MFF-056CS	MFF-071CS	MFF-080CS		
			MUF-022CS	MUF-028CS	MUF-036CS	MUF-045CS	MUF-056CS	MUF-071CS	MUF-080CS		
Power supply				1-phase, 230V, 50Hz							
F F 7		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0		
Cooling ¹	Capacity	kBtu/h	7.5	9.6	12.3	15.4	19.1	24.2	27.3		
5	Power Input	W	35	35	40	44	45	53	62		
		kW	2.4	3.2	4	5	6.3	8.0	9.0		
Heating ²	Capacity	kBtu/h	8.2	10.9	13.7	17.1	21.5	27.3	30.7		
5	Power Input	W	35	35	41	46	47	57	64		
Fan motor	Туре	1			I	DC		1			
type	Number					1					
	Number of rows		2	2	3	3	2	3	3		
	Tube pitch × row pitch	mm		1	I	22×19.05		1	I		
	Fin spacing and type	mm				1.6					
Indoor Coil	Fin type				Hyd	rophilic alumi	num				
	Tube OD and type	mm			Сорре	erØ8Inner-g	roove				
	Number of circuits	1	2	2 4 3					5		
Design pressu	Jre (H/L)	MPa			1	4.4/2.6		1			
Pipe	Liquid and Gas pipe	1		Ø6.35mm ar	Ø9.52mm and Ø15.9mm (3/8" and 5/8")						
connections	Drain pipe	mm				OD Ø 18.5					
Model			MFS-022CS	MFS-028CS	MFS-036CS	MFS-045CS	MFS-056CS	MFS-071CS	MFS-080CS		
Air flow rate ³	(Max / Min) ⁷	l/s	131 / 118	131 / 118	146 / 113	177 / 134	217 / 173	258 / 205	258 / 205		
Sound pressu	re level ⁴ (Max / Min) ⁷	dB(A)	34.5 / 30.5	34.5 / 30.5	36.5 / 31	37 / 30	36.5 / 31.5	40.5 / 34.5	40.5 / 34.5		
External statio	c pressure	Pa				0-60					
Indoor Coil D	imensions (L×H×W)	mm	580×3	8.1×176	580×57.2×176	800×57.2×176	920×38.1×264	920×57	7.2×264		
	Net dimensions ⁶ (W×H×D)	mm		915×470×200		1133× 470×200		1253×566×200)		
Unit	Packed dimensions (W×H×D)	mm		985×555×255		1205× 555×255		1325×650×255			
	Net/Gross weight	kg	16.3/	/20.0	16.9/20.7	20.0/24.4	24.3/30.0	26.1,	/31.8		
Model			MFF-022CS	MFF-028CS	MFF-036CS	MFF-045CS	MFF-056CS	MFF-071CS	MFF-080CS		
Air flow rate ³	(Max / Min) ⁷	l/s	141 / 121	141 / 121	148 / 115	191 / 146	259 / 212	293 / 234	293 / 234		
Sound pressu	re level ⁴ (Max / Min) ⁷	dB(A)	36 / 32	36 / 32	38 / 32	43 / 37	41.5 / 36	46 / 41	46 / 41		
External statio	c pressure	Pa				0-10					
Indoor Coil D	imensions (L×H×W)	mm	580×38.1×176 5			7.2×176	920×38.1×264 920×57.2×264				
	Net dimensions ⁶ (W×H×D)	mm	1020×495×200			1240× 495×200		1360×591×200			
Unit	Packed dimensions (W×H×D)	mm		1125×595×285		1345× 595×285		1465×695×285			
			1								



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Model			MUF-022CS	MUF-028CS	MUF-036CS	MUF-045CS	MUF-056CS	MUF-071CS	MUF-080CS	
Air flow rate ³ ((Max / Min) ⁷	l/s	138 / 119	138 / 119	141 / 113	192 / 147	225 / 181	258 / 200	258 / 200	
Sound pressu	re level4 (Max / Min)7	dB(A)	32.5/29 32.5/29 35/29			38 / 31.5	35 / 31	39.5 / 34	39.5 / 34	
External static	pressure	Ра	0-10							
Indoor Coil Di	ndoor Coil Dimensions (L×H×W) mm			580×38.1×176 580×57			920×38.1×264 920×57.2×264			
	Net dimensions ⁶ (W×H×D)	mm		1020×495×200)	1240× 495×200		1360×591×200		
Unit	Packed dimensions (W×H×D)	mm	1125×595×285 1345× 595×285		1465×695×285					
	Net/Gross weight	kg	21.1/	26.8	21.9/27.6	26.3/32.4	32.1/39.4	33.3	/41.1	

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.

3. Air flow rates are from the highest speed to the lowest speed, total 7 rates for each model.

4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a Sem-anechoic chamber.

5. Sound power level is from highest level to lowest level, total 7 levels for each model.

6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

7. Refer to the section Sound Levels for more details.



02. Dimensions

02.01. Unit Dimensions

Figure 2.1: MFS series Concealed Floor Standing dimensions

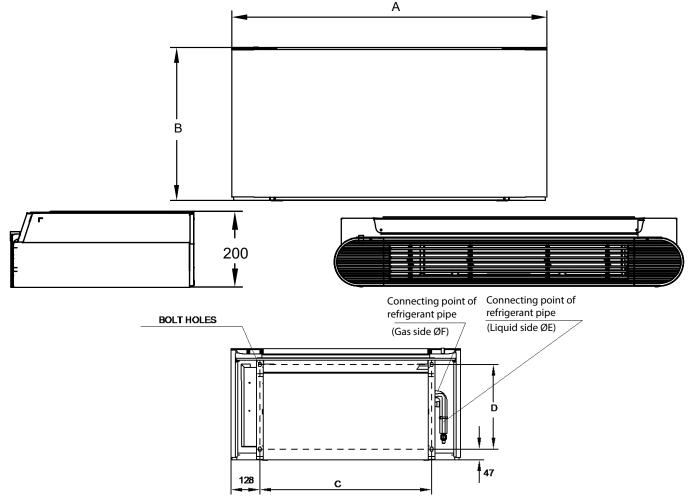


Table 2.1: MFF / MUF series Concealed Floor Standing dimensions

Model	Dimensions(mm)						
Model	Α	В	С	D			
MFF-022CS							
MUF-022CS							
MFF-028CS	1020	495	764	375			
MUF-028CS	1020	495	/04	375			
MFF-036CS							
MUF-036CS							
MFF-045CS	1240	405	00.4	275			
MUF-045CS	1240	495	984	375			
MFF-056CS							
MUF-056CS							
MFF-071CS	12/0	501	1104	201			
MUF-071CS	1360	591	1104	391			
MFF-080CS							
MUF-080CS							

Table 2.2: MFF / MUF series Exposed Floor Standing piping connections

Model	E (mm)	F (mm)
MFF-022CS		
MUF-022CS		
MFF-028CS		
MUF-028CS		
MFF-036CS	6.35	12.7
MUF-036CS	0.35	12.7
MFF-045CS		
MUF-045CS		
MFF-056CS		
MUF-056CS		
MFF-071CS		
MUF-071CS	0.52	15.0
MFF-080CS	9.52	15.9
MUF-080CS		



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06.Capacity Tables

06.01. Cooling Capacity Table

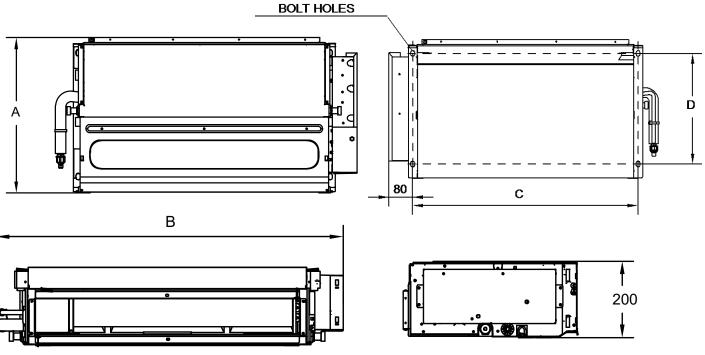


Table 2.3: MFS series Exposed Floor Standing dimensions

Model		Dimensions(mm)								
Model	Α	В	С	D						
MFS-022CS										
MFS-028CS	470	915	764	375						
MFS-036CS										
MFS-045CS	470	1133	984	375						
MFS-056CS										
MFS-071CS	566	1253	1104	391						
MFS-080CS										

Figure 2.3: MFS series Concealed Floor Standing piping connections Connecting point of Connecting point of

Connecting point of refrigerant pipe

(Gas side ØF)

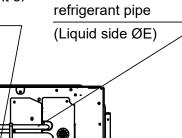


Table 2.4: MFS series Exposed Floor Standing piping connections

Model	Α	В
MFS-022CS		
MFS-028CS	(25	10 7
MFS-036CS	6.35mm (1/4")	12.7mm (1/2")
MFS-045CS		(1/2)
MFS-056CS		
MFS-071CS	9.52mm	15.9mm
MFS-080CS	(3/8")	(5/8")



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03.Unit Placement

03.01. Placement Considerations

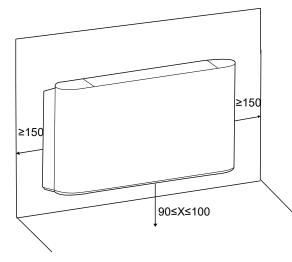
Unit placement should take account of the following considerations:

• 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 e.g. coastal environment.
- 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.

03.02. Space Requirements

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



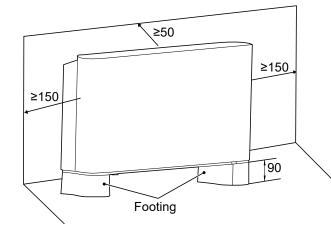
Notes:

- 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.
- 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.



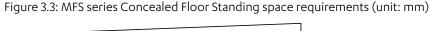
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Figure 3.2: MUF series (air inlet from bottom) Exposed Floor Standing space requirements (unit: mm)



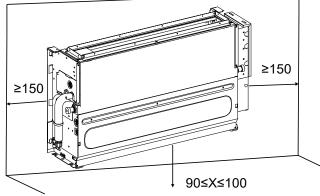
Notes:

- 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.



Notes:

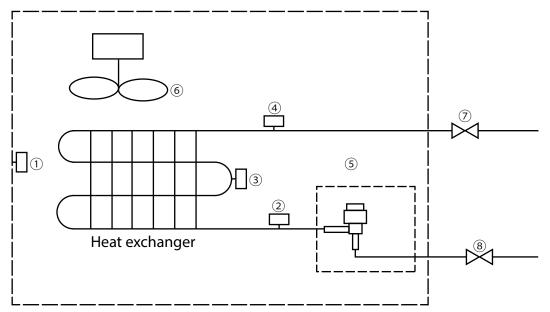
- 1. Vertical unit for building-in, with air intake from below and air outlet on top, for installation on a wall.
- 2. Additionally, it is required to keep 20mm between the rear and wall; 600mm between the front face and the obstacle. 1700mm vertical distance between the top of unit (outlet) and the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





04. Piping Diagram

Figure 4.1: Floor Standing piping diagram



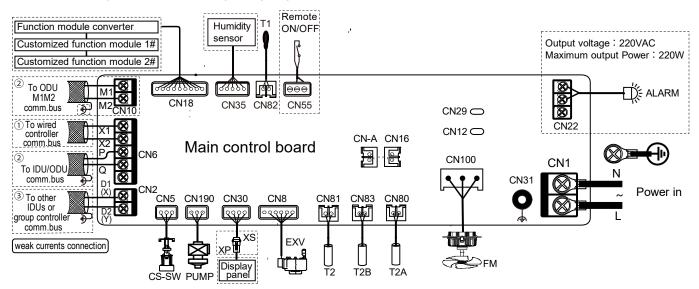
Legend		
1	T1	Inlet Air Temp. Sensor
2	T2A	Liquid Pipe Temp. Sensor
3	T2	Middle Pipe Temp. Sensor
4	T2B	Gas Pipe Temp. Sensor
5	EXV	Electronic expansion valve
6	FM	Fan motor
7	-	Gas side (Flare Nut)
8	-	Liquid side (Flare Nut)



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05. Wiring Diagram

Figure 5.1: Floor Standing wiring diagram



Installation Notes

- 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 must 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) to prevent damage to 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 a 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.



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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	тс	SC	тс	SC	тс	SC	тс	SC	тс	SC	тс	SC
MFS / MFF / MUF-022CS	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
MFS / MFF / MUF-028CS	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
MFS / MFF / MUF-036CS	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
MFS / MFF / MUF-045CS	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
MFS / MFF / MUF-056CS	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
MFS / MFF / MUF-071CS	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
MFS / MFF / MUF-080CS	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 rated conditions.

06.02. 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				
MFS / MFF / MUF-022CS	2.6	2.6	2.4	2.3	2.3	2.1				
MFS / MFF / MUF-028CS	3.4	3.4	3.2	3.1	3.0	2.8				
MFS / MFF / MUF-036CS	4.2	4.2	4.0	3.8	3.8	3.5				
MFS / MFF / MUF-045CS	5.3	5.3	5.0	4.8	4.7	4.4				
MFS / MFF / MUF-056CS	6.7	6.6	6.3	6.1	5.9	5.5				
MFS / MFF / MUF-071CS	8.5	8.4	8.0	7.8	7.5	7.0				
MFS / MFF / MUF-080CS	9.5	9.5	9.0	8.7	8.5	7.8				

Abbreviations:

SHC: Sensible heating capacity(kW)

Notes:

1. Shaded cells indicate rated conditions.



07. Electrical Characteristics

Table 7.1: Floor Standing electrical characteristics

			Indoor Fan Motors					
Model	Hz	Rated Volts	Min. volts	Max. volts	МСА	MFA	Rated motor output (kW)	FLA
MFS / MFF / MUF-022CS	50	230	217	243	0.3	15	50	0.5
MFS / MFF / MUF-028CS	50	230	217	243	0.3	15	50	0.5
MFS / MFF / MUF-036CS	50	230	217	243	0.3	15	50	0.5
MFS / MFF / MUF-045CS	50	230	217	243	0.3	15	50	0.5
MFS / MFF / MUF-056CS	50	230	217	243	0.4	15	60	0.6
MFS / MFF / MUF-071CS	50	230	217	243	0.4	15	60	0.6
MFS / MFF / MUF-080CS	50	230	217	243	0.4	15	60	0.6

Abbreviations:

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

08. Set external static pressure parameters

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

When "n00" is displayed, press the " \checkmark " to enter the static pressure setting. Use the " \blacktriangle " and " \checkmark " keys to adjust to the demand parameter values, and press the " \checkmark " to confirm.

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.

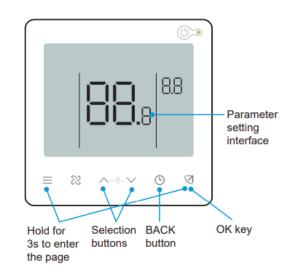


Table 8.1: External static pressure setting (Concealed)-MFS

First level menu	Second level menu				Description				Default
n00	02/0	02/04/06/07/08/09/10				tic pres	el	2	
Level		2	4	6	7	8	9	10	7
Static pressure(Pa)		0	10	20	30	40	50	60	

Table 8.2: External static pressure setting (Exposed)-MFF / MUF

First level menu	Se	cond l	evel me	nu		Descri		Default		
n00	02/0	04/06/	07/08/0	9/10	Stat	tic pres	el	2		
Level	2	4	6	7	8	9	10	7		
Static pressure(Pa	0	10	20	30	40	50	60			

Notes:

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



09. Fan Performance

Figure 9.1: MFS-022CS fan performance

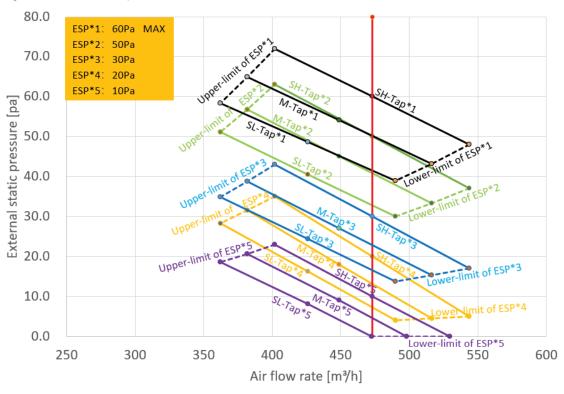


Figure 9.1: MFS-028CS fan performance

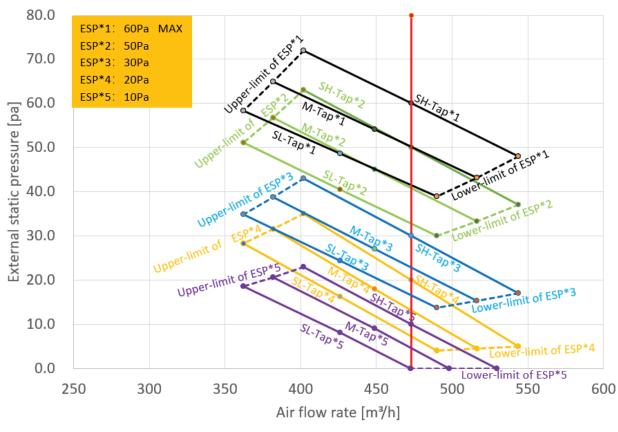




Figure 9.3: MFS-036CS fan performance

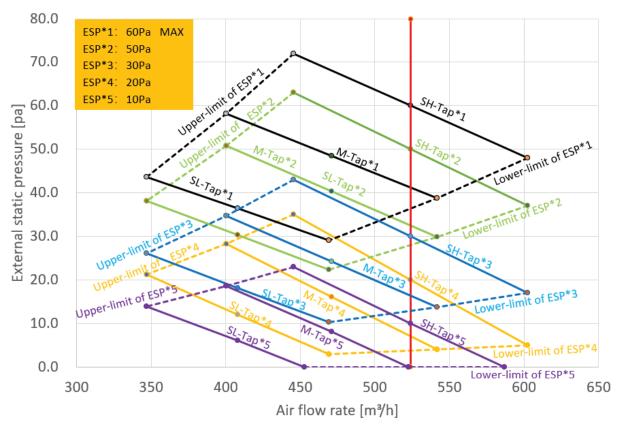
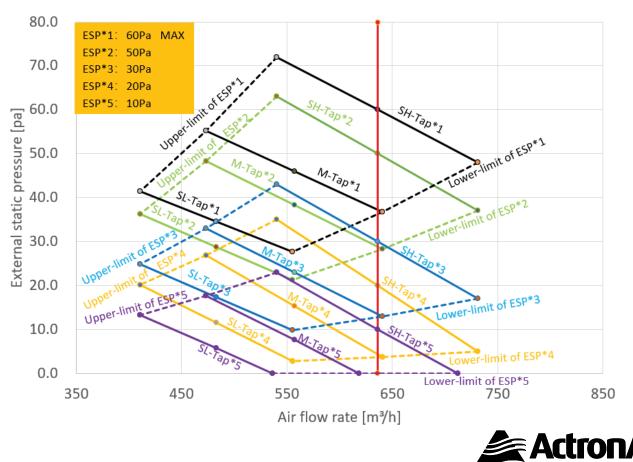


Figure 9.4: MFS-045CS fan performance



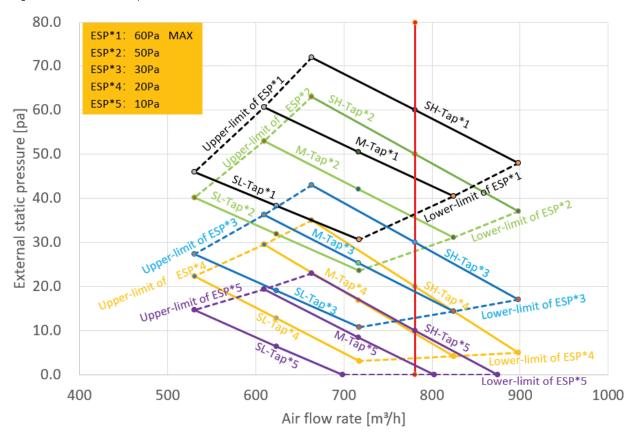
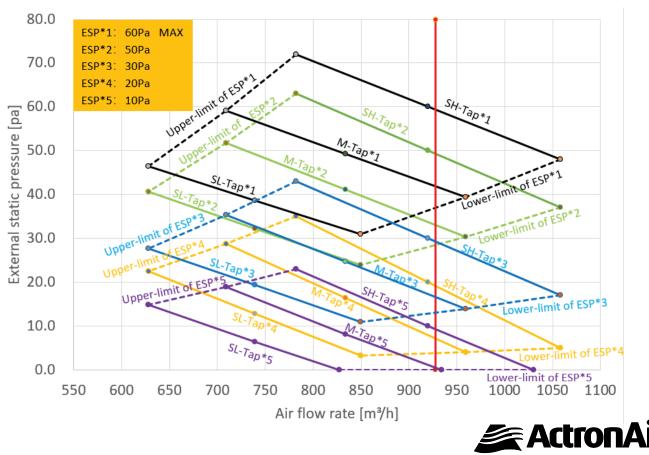


Figure 9.5: MFS-056CS fan performance

Figure 9.6: MFS-071CS fan performance



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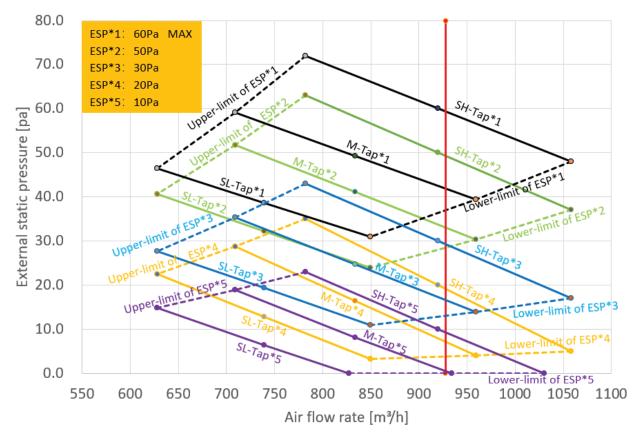


Figure 9.7: MFS-080CS fan performance



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10.<u>Sound Levels</u>

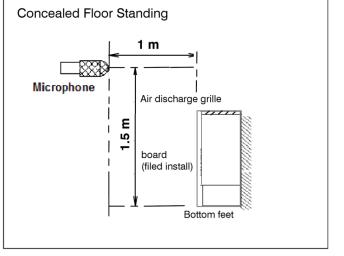
10.01. Overall

Table 10.1.1: Floor Standing sound pressure levels¹

Model	Sound pressure levels dB(A)											
name	SSH	SH	н	м	L	SL	SSL					
MFF-022CS	36.0	35.0	34.5	34.0	33.0	32.5	32.0					
MFF-028CS	36.0	35.0	34.5	34.0	33.0	32.5	32.0					
MFF-036CS	38.0	37.0	36.0	35.0	34.0	33.0	32.0					
MFF-045CS	43.0	42.0	41.0	40.0	39.0	38.0	37.0					
MFF-056CS	41.5	41.0	40.0	39.0	38.0	37.0	36.0					
MFF-071CS	46.0	45.5	45.0	44.0	43.0	42.0	41.0					
MFF-080CS	46.0	45.5	45.0	44.0	43.0	42.0	41.0					
MUF-022CS	32.5	32.0	31.5	31.0	30.5	30.0	29.0					
MUF-028CS	32.5	32.0	31.5	31.0	30.5	30.0	29.0					
MUF-036CS	35.0	34.0	33.0	32.0	31.0	30.0	29.0					
MUF-045CS	38.0	37.0	36.0	35.0	34.0	32.5	31.5					
MUF-056CS	35.0	34.5	34.0	33.0	32.5	32.0	31.0					
MUF-071CS	39.5	39.0	38.0	37.0	36.0	35.0	34.0					
MUF-080CS	39.5	39.0	38.0	37.0	36.0	35.0	34.0					
MFS-022CS	34.5	34.0	33.5	32.5	32.0	31.0	30.5					
MFS-028CS	34.5	34.0	33.5	32.5	32.0	31.0	30.5					
MFS-036CS	36.5	35.5	34.5	34.0	33.0	32.0	31.0					
MFS-045CS	37.0	36.0	35.0	34.0	33.0	32.0	30.0					
MFS-056CS	36.5	36.0	35.0	34.0	33.5	32.5	31.5					
MFS-071CS	40.5	39.5	38.5	37.5	36.5	36.0	34.5					
MFS-080CS	40.5	39.5	38.5	37.5	36.5	36.0	34.5					

Floor Standing

Figure 10.1: Floor Standing sound pressure level measurement



Notes:

 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.

Table 10.1.2: Floor Standing Air flow rate (OPa).

Model		Ai	r flov	v rat	e (0P	Pa)		Model Air flow rate (0Pa)				Model	Air flow rate (0Pa)										
name	SSH	SH	н	Μ	L	SL	SSL	name	SSH	SH	н	Μ	L	SL	SSL	name	SSH	SH	н	Μ	L	SL	SSL
MFF-022CS	141	136	134	129	125	125	121	MUF-022CS	138	135	132	129	126	123	119	MFS-022CS	131	129	126	125	122	120	118
MFF-028CS	141	136	134	129	125	125	121	MUF-028CS	138	135	132	129	126	123	119	MFS-028CS	131	129	126	125	122	120	118
MFF-036CS	148	142	139	134	129	121	115	MUF-036CS	141	136	132	127	123	118	113	MFS-036CS	146	140	136	131	125	119	113
MFF-045CS	191	184	178	169	160	156	146	MUF-045CS	192	185	177	169	162	154	147	MFS-045CS	177	170	162	155	148	141	134
MFF-056CS	259	251	247	239	228	218	212	MUF-056CS	225	218	211	203	196	189	181	MFS-056CS	217	210	205	199	190	181	173
MFF-071CS	293	281	276	265	257	247	234	MUF-071CS	258	249	239	229	219	210	200	MFS-071CS	258	248	240	232	223	214	205
MFF-080CS	293	281	276	265	257	247	234	MUF-080CS	258	249	239	229	219	210	200	MFS-080CS	258	248	240	232	223	214	205



10.02. Octave Band Levels

Figure 10.2: MFS-022CS octave band levels

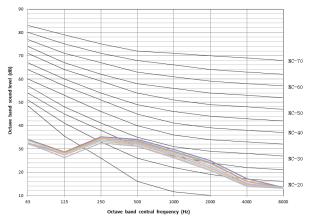


Figure 10.4: MFS-036CS octave band levels

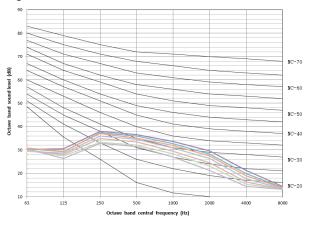


Figure 10.6: MFS-056CS octave band levels

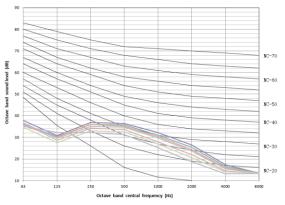


Figure 10.3: MFS-028CS octave band levels

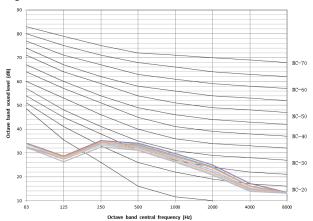


Figure 10.5: MFS-045CS octave band levels

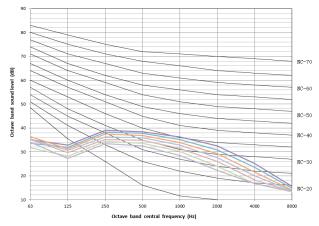


Figure 10.7: MFS-071CS octave band levels

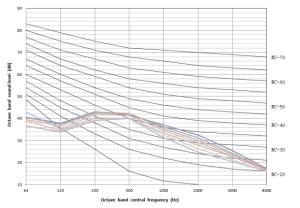




Figure 10.8: MFS-080CS octave band levels

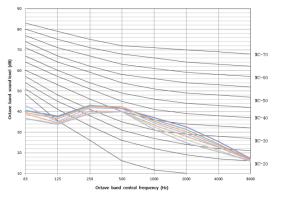


Figure 10.9: MFF-022CS, MUF-022CS octave band levels

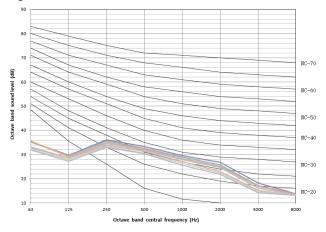
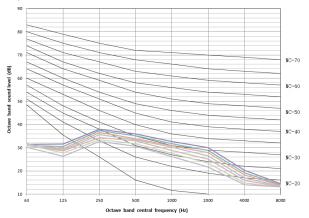


Figure 10.11:MFF-036CS, MUF-036CS octave band levels





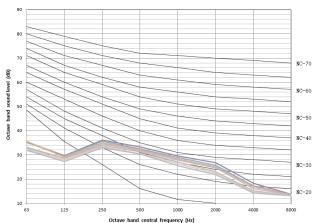


Figure 10.12:MFF-045CS, MUF-045CS octave band levels

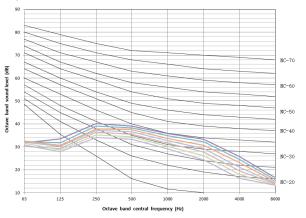




Figure 10.13: MFF-056CS, MUF-056CS octave band levels

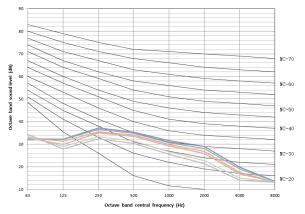
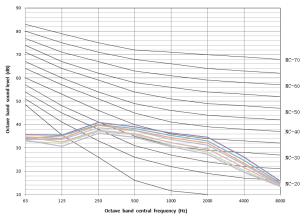


Figure 10.15:MFF-080CS, MUF-080CS octave band levels



11. Temperature and Airflow Distributions

11.01. Simulate condition

Table 11.1: Floor standing simulate condition

Model name	Room size (m)	Ceiling height (m)	Flow angle (Cooling/Heating)	Placing
MFS / MFF / MUF-022CS	6×6	2.4	90°/125°	Standing
MFS / MFF / MUF-028CS	6×6	2.4	90°/125°	Standing
MFS / MFF / MUF-036CS	6×6	2.4	90°/125°	Standing
MFS / MFF / MUF-045CS	6×6	2.4	90°/125°	Standing
MFS / MFF / MUF-056CS	6×6	2.4	90°/125°	Standing
MFS / MFF / MUF-071CS	6×6	2.4	90°/125°	Standing
MFS / MFF / MUF-080CS	6×6	2.4	90°/125°	Standing

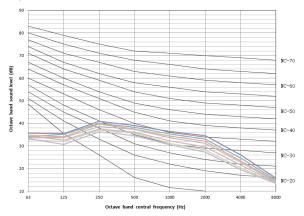
Note:

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.

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Figure 10.14:MFF-071CS, MUF-071CS octave band levels

ECOFLEX - Mini VRF



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11.02. Airflow distributions (unit: m/s)

In the below charts, Y-Axis represents the height in meters (charts shows the installation height at 2.5m) and the X-Axis represents the floor distance in meters. These chart shows the air speed distribution 300s after the machine is turned on. The data in the curves shows air speed in meter per seconds (eg: 0.5 means the air speed in that area is 0.5m/s).

Figure 11.1: MFS / MFF / MUF-022CS cooling at 300S

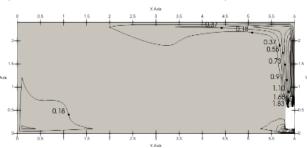


Figure 11.3: MFS / MFF / MUF-028CS cooling at 300S

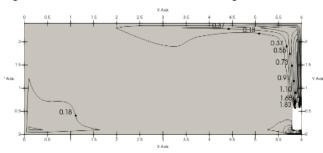


Figure 11.5: MFS / MFF / MUF-036CS cooling at 300S

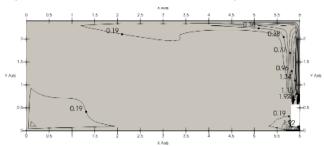


Figure 11.7: MFS / MFF / MUF-045CS cooling at 300S

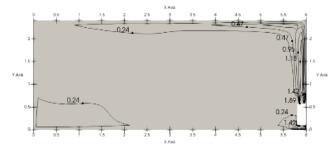


Figure 11.2: MFS / MFF / MUF-022CS heating at 300S

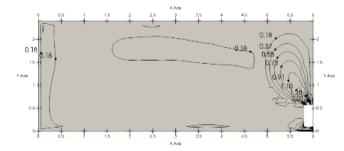


Figure 11.4: MFS / MFF / MUF-028CS heating at 300S

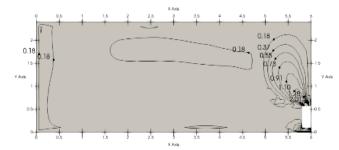


Figure 11.6: MFS / MFF / MUF-036CS heating at 300S

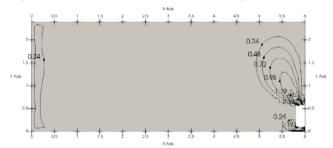


Figure 11.8: MFS / MFF / MUF-045CS heating at 300S

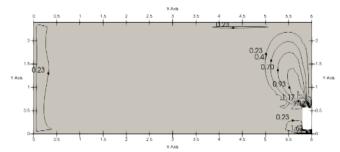




Figure 11.9: MFS / MFF / MUF-056CS cooling at 300S

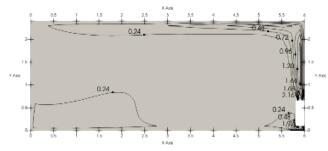


Figure 11.11: MFS / MFF / MUF-071CS cooling at 300S

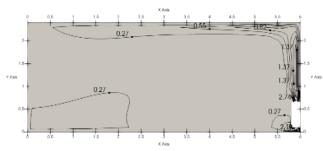
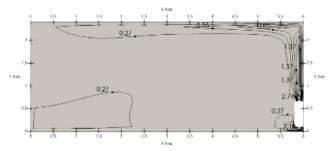


Figure 11.13: MFS / MFF / MUF-080CS cooling at 300S



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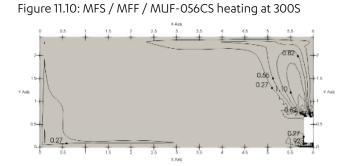


Figure 11.12: MFS / MFF / MUF-071CS heating at 300S

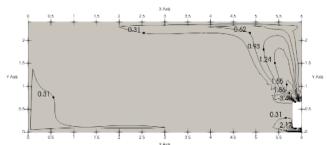
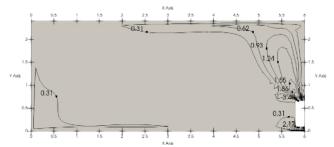


Figure 11.14: MFS / MFF / MUF-080CS heating at 300S

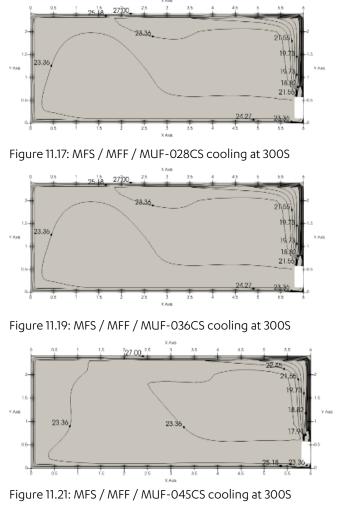




11.03. Temperature distributions

Figure 11.15: MFS / MFF / MUF-022CS cooling at 300S

In the below charts, Y-Axis represents the height in meters (charts shows the installation height at 2.5m) and the X-Axis represents the floor dinstance in meters. These chart shows the air speed distribution 300s after the machine is turned on. The data in the curves shows temperature distrubution.



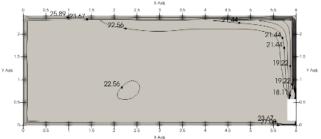


Figure 11.16: MFS / MFF / MUF-022CS heating at 300S

ECOFLEX - Mini VRF

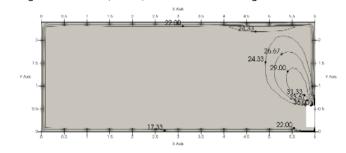


Figure 11.18: MFS / MFF / MUF-028CS heating at 300S

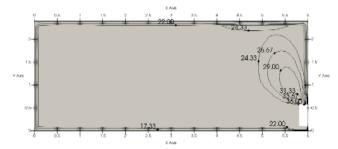


Figure 11.20: MFS / MFF / MUF-036CS heating at 300S

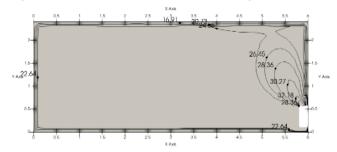


Figure 11.22: MFS / MFF / MUF-045CS heating at 300S

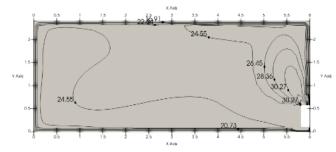




Figure 11.23: MFS / MFF / MUF-056CS cooling at 300S

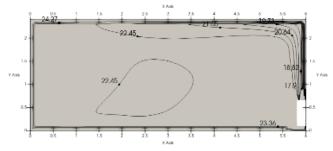


Figure 11.25: MFS / MFF / MUF-071CS cooling at 300S

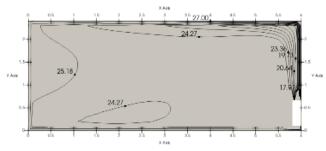


Figure 11.27: MFS / MFF / MUF-080CS cooling at 300S

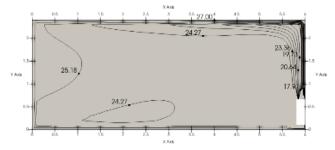
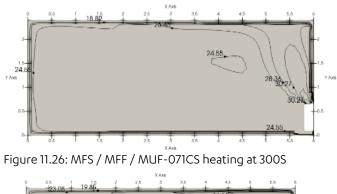


Figure 11.24: MFS / MFF / MUF-056CS heating at 300S

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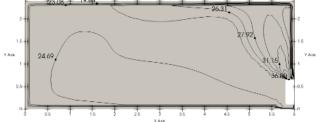
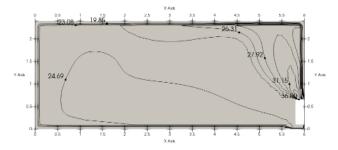


Figure 11.28: MFS / MFF / MUF-080CS heating at 300S









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