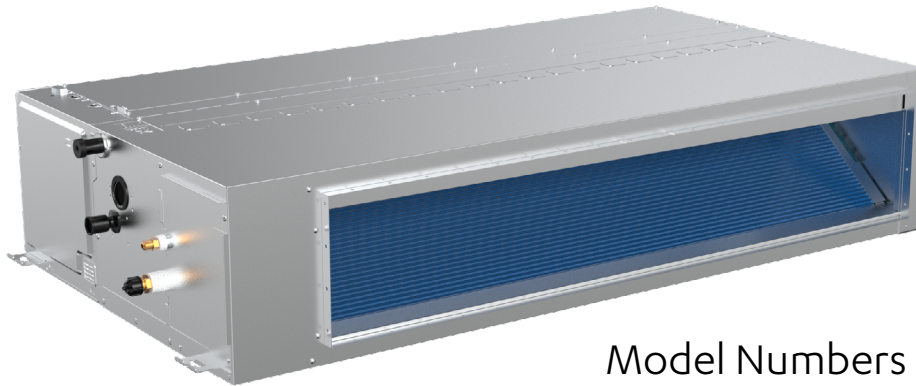


ECOFLEX MINI VRF MEDIUM STATIC INDOOR UNIT TECHNICAL SELECTION DATA



Model Numbers

MMD-015CS	MMD-071CS
MMD-022CS	MMD-080CS
MMD-028CS	MMD-090CS
MMD-036CS	MMD-112CS
MMD-045CS	MMD-140CS
MMD-056CS	MMD-160CS

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TECHNICAL SELECTION DATA

ECOFLEX - Mini VRF

01.Specification

Model		MMD-015CS	MMD-022CS	MMD-028CS	MMD-036CS	MMD-045CS	MMD-056CS	
Power supply		1-phase, 230V, 50Hz						
Cooling ¹	Capacity	kW	1.5	2.2	2.8	3.6	4.5	5.6
		kBtu/h	5.1	7.5	9.6	12.3	15.4	19.1
	Power Input	W	33	36	40	50	70	70
Heating ²	Capacity	kW	1.8	2.5	3.2	4	5	6.3
		kBtu/h	6.1	8.5	10.9	13.7	17.1	21.5
	Power Input	W	33	36	40	50	70	70
Fan motor type		DC						
Indoor Coil	Number of rows		2	2	2	2	3	2
	Tube pitch	mm	18×10.72					
	Fin spacing	mm	1.35					
	Fin Type		Hydrophilic aluminum					
	Tube OD and type	mm	Ø5 Inner-groove					
	Dimensions (L×H×W)	mm	400×21.44×360				400×32.16×360	600×21.44×360
	Number of circuits		5					
Air flow rate ³ (OPa) (Max / Min) ⁷		l/s	131 / 78	139 / 83	150 / 89	160 / 93	185 / 114	269 / 160
External static pressure ⁸		Pa	30 (10-160)					
Sound pressure level ⁴ (OPa) (Max / Min) ⁷		dB(A)	26.5 / 22	26.5 / 22	26.5 / 22	29 / 22	33 / 24	33 / 25
Sound power level		dB(A)	46 / 37	47 / 38	47 / 38	50 / 39	53 / 41	55 / 43
Unit	Net dimensions ⁶ (W×H×D)	mm	710×245×770					910×245×770
	Packed dimensions (W×H×D)	mm	765×305×890					965×305×890
	Net/Gross weight	kg	18.5/21				19.5/22	24/27.5
Refrigerant type		R-32						
Throttle	Type	Electronic expansion valve						
Design pressure (H/L)		MPa	4.4/2.6					
Pipe connections	Liquid/Gas pipe	Ø 6.35 mm / Ø 12.7 mm (1/4" / 1/2")						
	Drain pipe	mm	OD Ø25					

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
- Air flow rates are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a Sem-anechoic chamber.
- Sound power level is from highest level to lowest level, total 7 levels for each model.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- Refer to the section Sound Levels for more details.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)

TECHNICAL SELECTION DATA

ECOFLEX - Mini VRF

Model		MMD-071CS	MMD-080CS	MMD-090CS	MMD-112CS	MMD-140CS	MMD-160CS	
Power supply		1-phase, 230V, 50Hz						
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14	16
		kBtu/h	24.2	27.3	30.7	38.2	47.8	54.6
	Power Input	W	96	102	110	138	172	210
Heating ²	Capacity	kW	8	9	10	12.5	16	18
		kBtu/h	27.3	30.7	34.1	42.7	54.6	61.4
	Power Input	W	96	102	110	138	172	210
Fan motor type		DC						
Indoor Coil	Number of rows		3	2	3	2	3	3
	Tube pitch	mm	18×10.72					
	Fin spacing	mm	1.35					
	Fin Type		Hydrophilic aluminum					
	Tube OD and type	mm	Ø5 Inner-groove					
	Dimensions (L×H×W)	mm	600×32.16×360	850×21.44×360		1200×21.44×360	1200×32.16×360	
	Number of circuits		10					
Air flow rate ³ (OPa) (Max / Min) ⁷		l/s	319 / 183	376 / 224	394 / 232	542 / 319	585 / 361	653 / 389
External static pressure ⁸		Pa	30 (10-160)	40 (10-160)			50 (10-160)	
Sound pressure level ⁴ (OPa) (Max / Min) ⁷		dB(A)	35 / 26	37 / 28	37 / 28	39 / 28	40 / 29	42 / 31
Sound power level		dB(A)	58 / 45	59 / 47	59 / 46	60 / 50	64 / 53	65 / 52
Unit	Net dimensions ⁶ (W×H×D)	mm	910×245×770	1160×245×770		1510×245×770		
	Packed dimensions (W×H×D)	mm	965×305×890	1215×305×890		1565×305×890		
	Net/Gross weight	kg	25/28.5	30/33.5	31/34.5	37/41.5	39/43.5	39/43.5
Refrigerant type		R-32						
Throttle	Type	Electronic expansion valve						
Design pressure (H/L)		MPa	4.4/2.6					
Pipe connections	Liquid/Gas pipe	Ø9.52mm / Ø15.9mm (3/8" / 5/8")						
	Drain pipe	mm	OD Ø25					

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
- Air flow rates are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a Sem-anechoic chamber.
- Sound power level is from highest level to lowest level, total 7 levels for each model.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- Refer to the section Sound Levels for more details.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)

02. Dimensions

02.01. Unit Dimensions

Figure 2.1: Mid Static dimensions (unit: mm)

Figure 2.1: External dimension, air outlet size, and size of fresh air outlet (unit: mm)

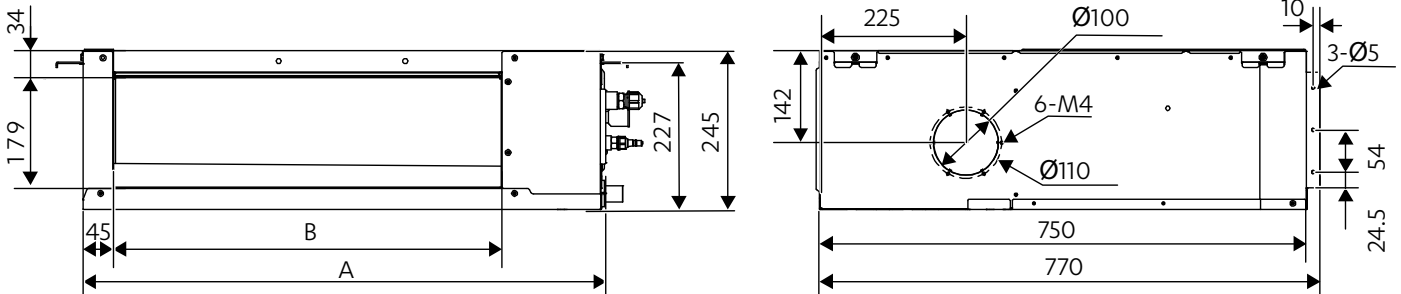


Figure 2.2: Size of return air inlet (rear return air mode): (unit: mm)

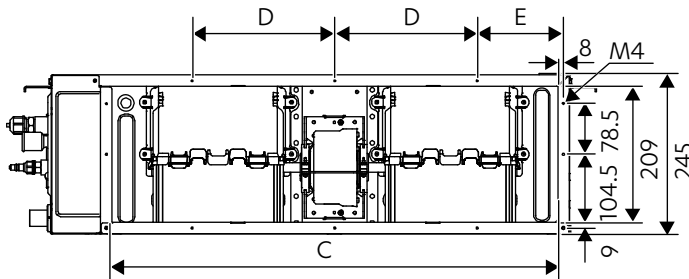


Figure 2.3: Piping and water pipe size:(unit: mm)

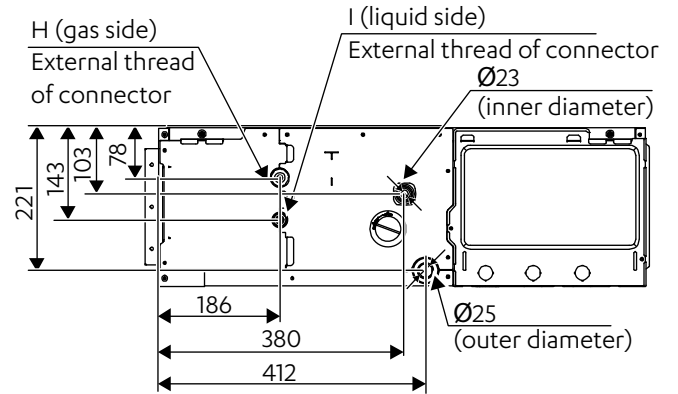


Figure 2.4: Size of return air inlet (bottom return air mode) and distance between lifting lugs:(unit: mm)

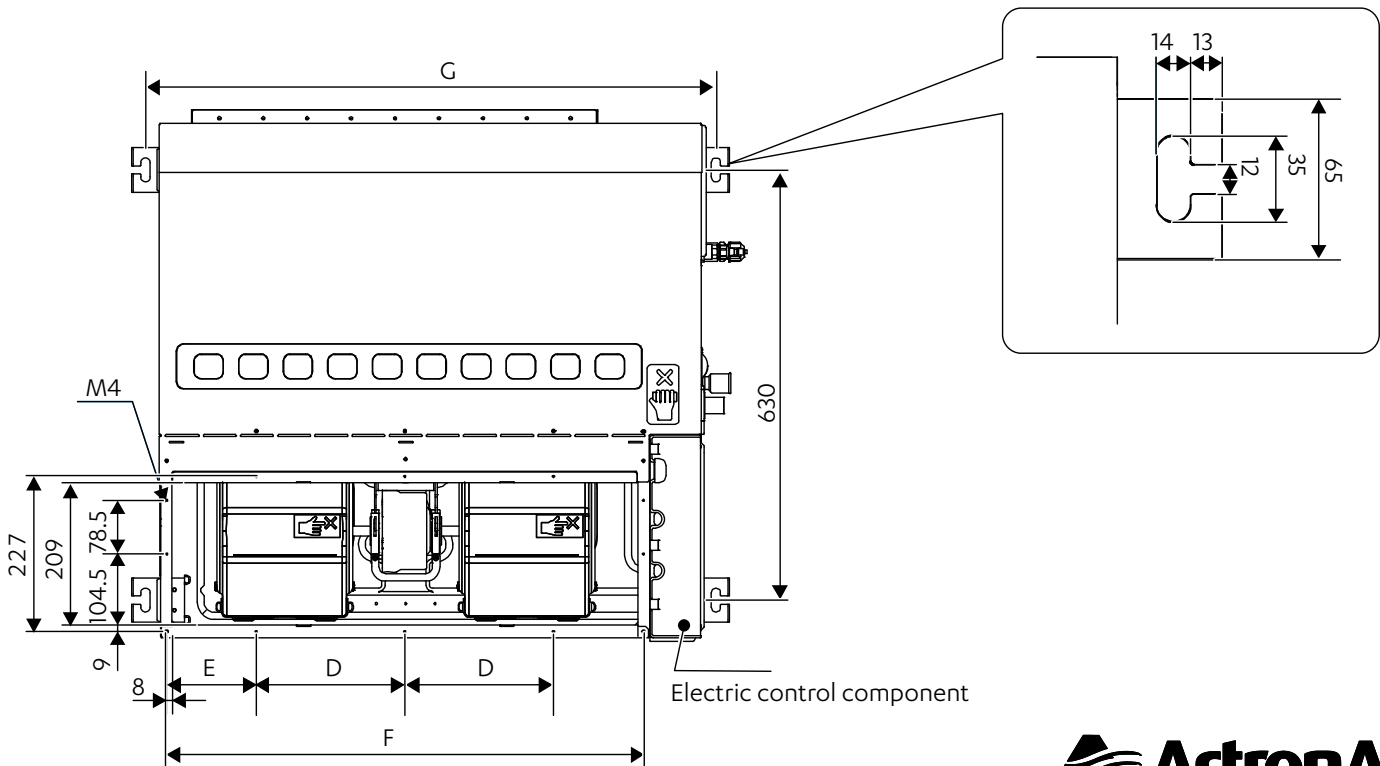


Table 2.1: Letter-Size Correspondence Table: (unit: mm)

Capacity (kW)	A	B	C	D	E	F	G	H	I
kW≤4.5	600	400	490	87.5	165	506	645	3/4-16 UNF	7/16-20 UNF
4.5<kW≤5.6	800	600	690	220	134	706	845		
5.6<kW≤7.1	800	600	690	220	134	706	845	7/8-14 UNF	5/8-18 UNF
7.1<kW<11.2	1050	850	940	220	146	956	1095		
11.2≤kW≤16.0	1400	1200	1290	220	213	1306	1445		

03. Unit Placement

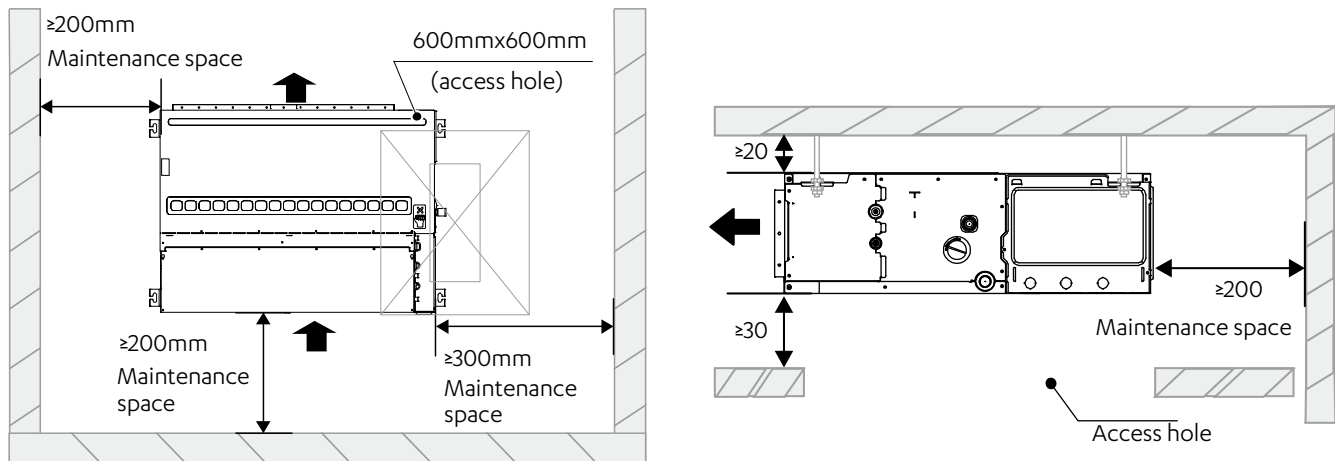
03.01. Placement Considerations

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: Mid Static space requirements (unit: mm)

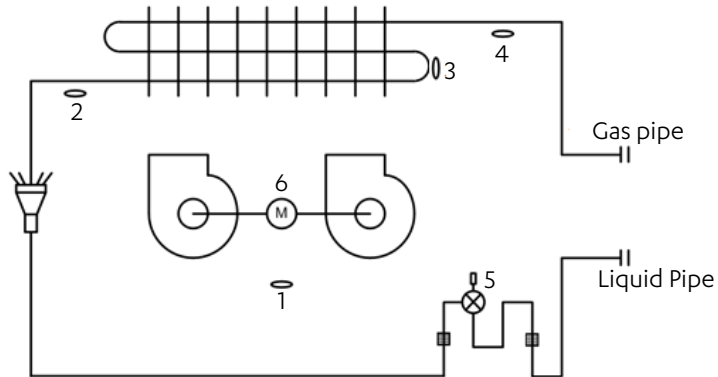


Notes:

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

04. Piping Diagram

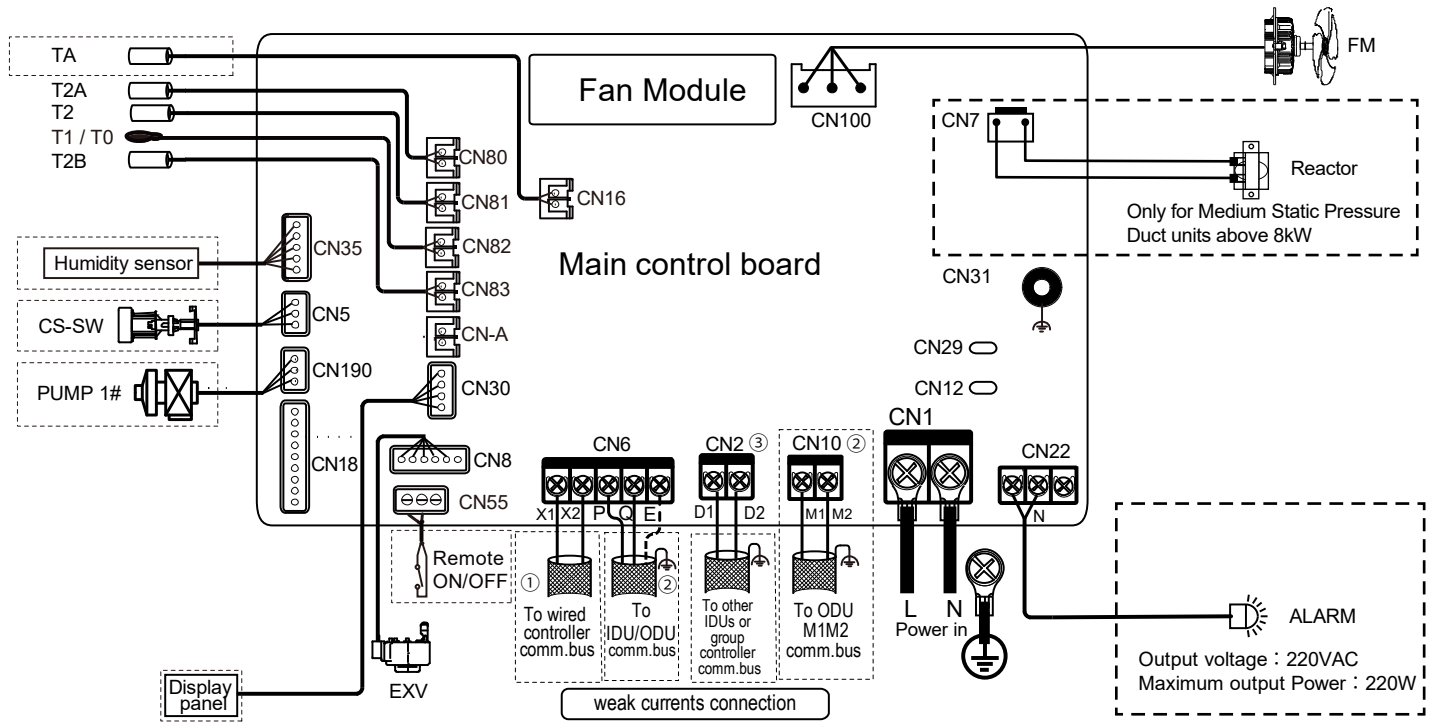
Figure 4.1: Mid Static piping diagram



Legend	Code	Description
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	EEV	Electronic Expansion Valve
6	FAN	DC Fan motor

05. Wiring Diagram

Figure 5.1: Mid Static wiring diagram



Installation Notes

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 a daisy chain, and the group controller must be connected to the X1X2 port of one of the indoor units in the group controller, and set to group control mode. In addition, D1D2 communication ports can also be connected to the central controller.

06.Capacity Tables

06.01. Cooling Capacity Table

Table 6.01: Mid Static 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
MMD-015CS	1.4	1.3	1.5	1.4	1.5	1.3	1.5	1.3	1.6	1.3	1.6	1.2	1.6	1.1
MMD-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
MMD-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
MMD-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
MMD-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
MMD-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
MMD-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
MMD-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
MMD-090CS	8.0	7.1	8.5	7.3	8.9	7.4	9.0	7.3	9.1	7.1	9.4	6.8	9.6	6.5
MMD-112CS	9.9	8.8	10.6	9.1	11.1	9.3	11.2	9.1	11.3	8.8	11.6	8.4	11.9	8.1
MMD-140CS	12.4	11.1	13.2	11.4	13.8	11.5	14.0	11.3	14.2	11.0	14.5	10.5	14.9	10.1
MMD-160CS	14.2	12.7	15.1	13.0	15.8	13.2	16.0	12.9	16.2	12.6	16.6	12.0	17.0	11.5

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity(kW)

Notes:

Shaded cells indicate rated conditions.

06.02. Heating Capacity Table

Table 6.02: Mid Static heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MMD-015CS	1.9	1.9	1.8	1.7	1.7	1.6
MMD-022CS	2.7	2.7	2.5	2.4	2.4	2.2
MMD-028CS	3.4	3.4	3.2	3.1	3.0	2.8
MMD-036CS	4.2	4.2	4.0	3.8	3.8	3.5
MMD-045CS	5.3	5.3	5.0	4.8	4.7	4.4
MMD-056CS	6.7	6.6	6.3	6.1	5.9	5.5
MMD-071CS	8.5	8.4	8.0	7.8	7.5	7.0
MMD-080CS	9.5	9.5	9.0	8.7	8.5	7.8
MMD-090CS	10.6	10.5	10.0	9.7	9.4	8.8
MMD-112CS	13.3	13.1	12.5	12.1	11.8	10.9
MMD-140CS	17.0	16.8	16.0	15.5	15.0	13.9
MMD-160CS	19.1	18.9	18.0	17.5	16.9	15.7

Abbreviations:

TC: Total capacity (kW)

Notes:

Shaded cells indicate rated conditions.

07. Electrical Characteristics

Table 7.1: Mid Static electrical characteristics

Model	Power Supply						Indoor Fan Motors	
	Hz	Rated Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
MMD-015CS	50	230	217	243	0.63	15	50	0.50
MMD-022CS	50	230	217	243	0.63	15	50	0.50
MMD-028CS	50	230	217	243	0.63	15	50	0.50
MMD-036CS	50	230	217	243	0.80	15	50	0.64
MMD-045CS	50	230	217	243	1.2	15	50	0.95
MMD-056CS	50	230	217	243	1.2	15	60	0.95
MMD-071CS	50	230	217	243	1.5	15	60	1.2
MMD-080CS	50	230	217	243	1.5	15	240	1.2
MMD-090CS	50	230	217	243	1.6	15	240	1.3
MMD-112CS	50	230	217	243	2.3	15	240	1.8
MMD-140CS	50	230	217	243	2.3	15	240	1.9
MMD-160CS	50	230	217	243	2.8	15	240	2.2

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

08.Sound Levels

08.01. Overall

Table 8.1.1: Mid Static sound pressure levels¹

Model	Sound pressure levels dB						
	SSH	SH	H	M	L	SL	SSL
MMD-015CS	26.5	26	25	24	23	22.5	22
MMD-022CS	26.5	26	25	24	23	22.5	22
MMD-028CS	26.5	26	25	24	23	22.5	22
MMD-036CS	29	28	27	26	25	23	22
MMD-045CS	33	32	29.5	28	26.5	25	24
MMD-056CS	33	32	31	30	27.5	26	25
MMD-071CS	35	33.5	32	30.5	29	27.5	26
MMD-080CS	37	35.5	34	32.5	31	29.5	28
MMD-090CS	37	35.5	34	32.5	31	29.5	28
MMD-112CS	39	37	35	33	31	29	28
MMD-140CS	40	38	36	34	32	30	29
MMD-160CS	42	40	38	36	34	33	31

Notes:

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

Figure 8.1.1: Mid Static sound pressure level measurement

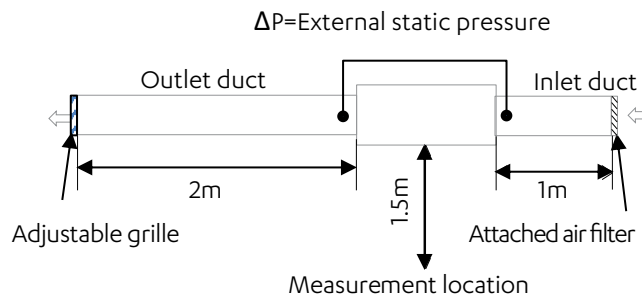


Table 8.1.2: Mid Static Air flow rate (OPa).

Model	Sound pressure levels dB						
	SSH	SH	H	M	L	SL	SSL
MMD-015CS	131	122	113	104	95	87	78
MMD-022CS	139	130	120	111	102	93	83
MMD-028CS	150	140	130	119	109	99	89
MMD-036CS	160	149	138	126	115	104	93
MMD-045CS	185	173	161	149	138	126	114
MMD-056CS	269	251	233	215	196	178	160
MMD-071CS	319	297	274	251	228	206	183
MMD-080CS	376	351	326	300	274	249	224
MMD-090CS	394	368	340	313	286	259	232
MMD-112CS	542	505	468	431	394	356	319
MMD-140CS	585	548	510	473	436	398	361
MMD-160CS	653	600	560	520	493	426	389

Table 8.1.2: Mid Static Sound Power Levels

Model	Sound pressure levels dB						
	SSH	SH	H	M	L	SL	SSL
MMD-015CS	46.0	44.5	43.0	41.5	40.0	38.5	37.0
MMD-022CS	47.0	45.5	44.0	42.5	41.0	39.5	38.0
MMD-028CS	47.0	45.5	44.0	42.5	41.0	39.5	38.0
MMD-036CS	50.0	48.5	47.0	45.0	43.0	41.0	39.0
MMD-045CS	53.0	51.0	49.0	47.0	45.0	43.0	41.0
MMD-056CS	55.0	53.0	51.0	49.0	47.0	45.0	43.0
MMD-071CS	58.0	56.0	54.0	51.5	48.0	47.0	45.0
MMD-080CS	59.0	57.0	55.0	53.0	51.0	49.0	47.0
MMD-090CS	59.0	57.0	55.0	53.0	50.5	48.0	46.0
MMD-112CS	60.0	58.0	56.5	55.0	53.5	52.0	50.0
MMD-140CS	64.0	62.0	61.5	59.5	57.5	55.0	53.0
MMD-160CS	65.0	63.0	61.0	58.5	56.5	54.0	52.0

08.02. Octave Band Levels

Figure 8.3: MMD-015CS octave band levels

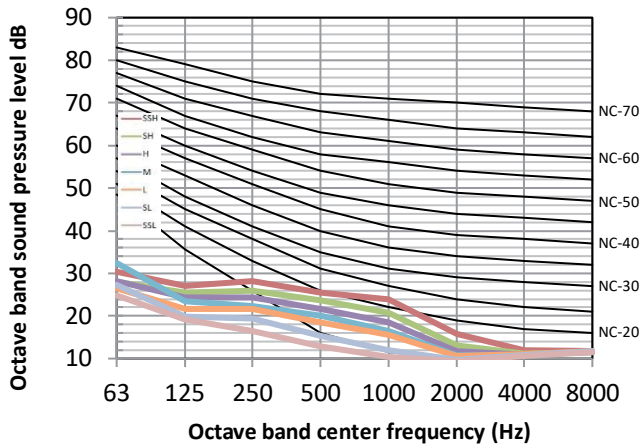


Figure 8.4: MMD-022CS octave band levels

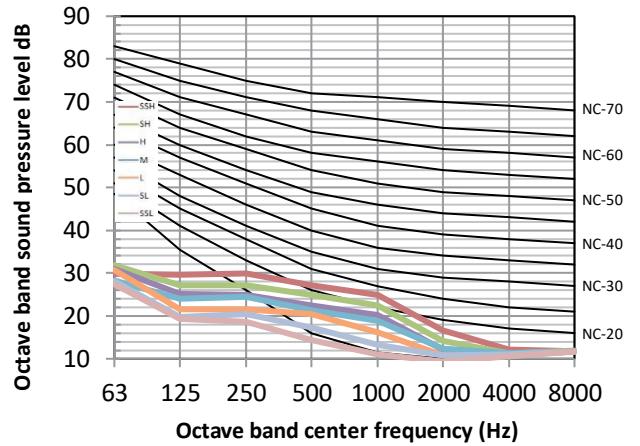


Figure 8.5: MMD-028CS octave band levels

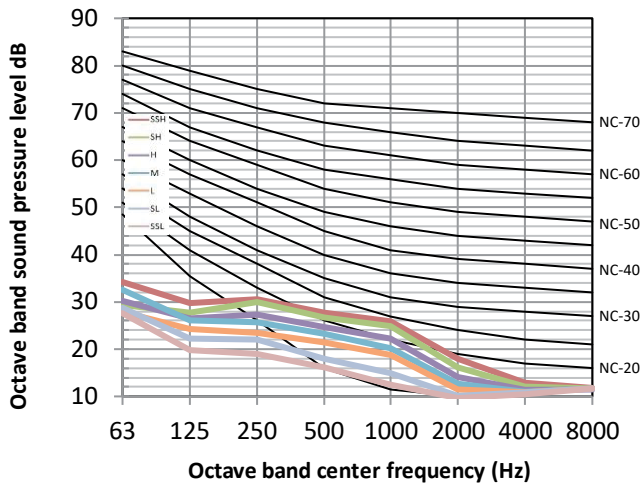


Figure 8.6: MMD-036CS octave band levels

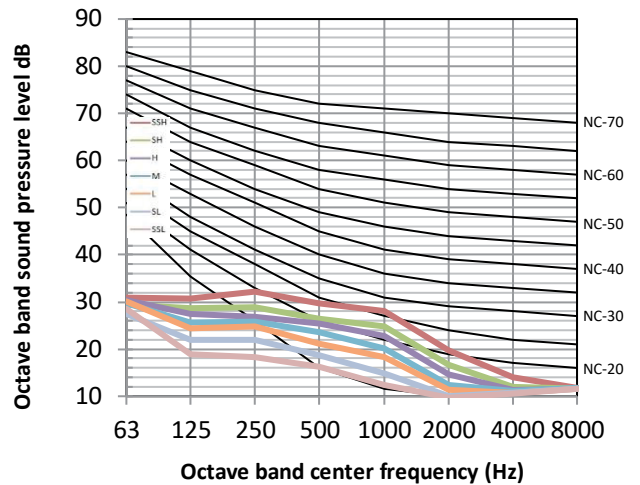


Figure 8.7: MMD-045CS octave band levels

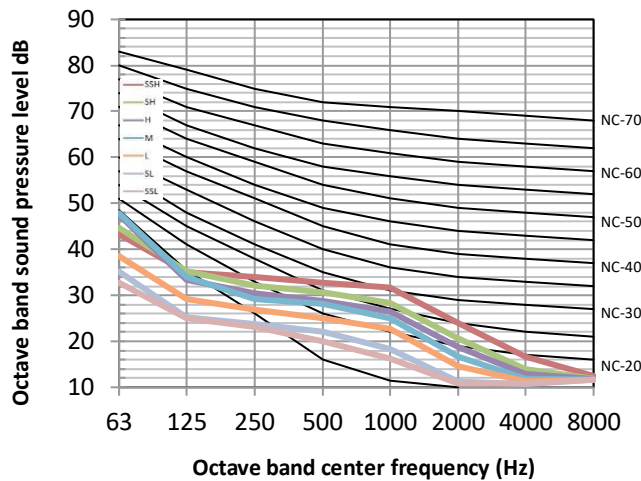
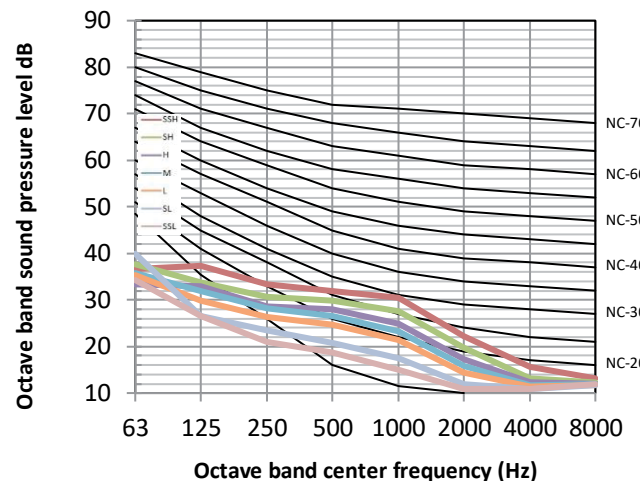


Figure 8.8: MMD-056CS octave band levels



TECHNICAL SELECTION DATA

ECOFLEX - Mini VRF

Figure 8.9: MMD-071CS octave band levels

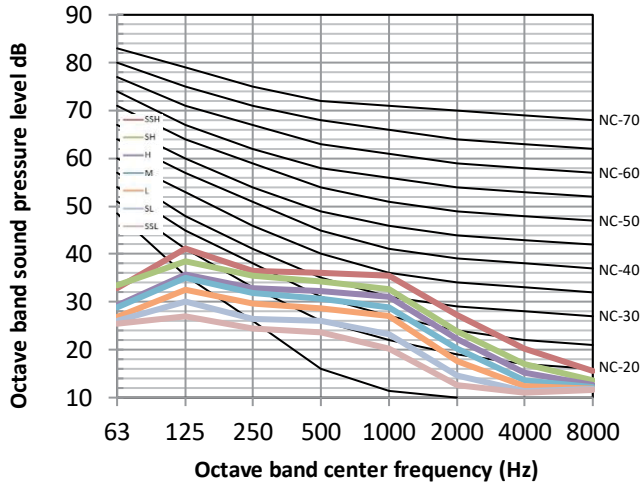


Figure 8.10: MMD-080CS octave band levels

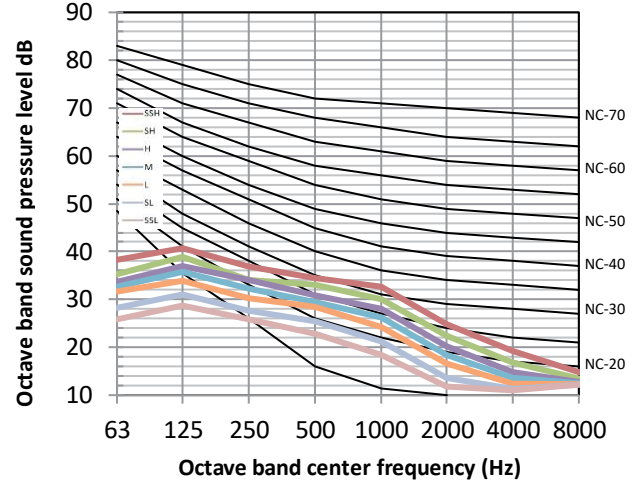


Figure 8.11: MMD-090CS octave band levels

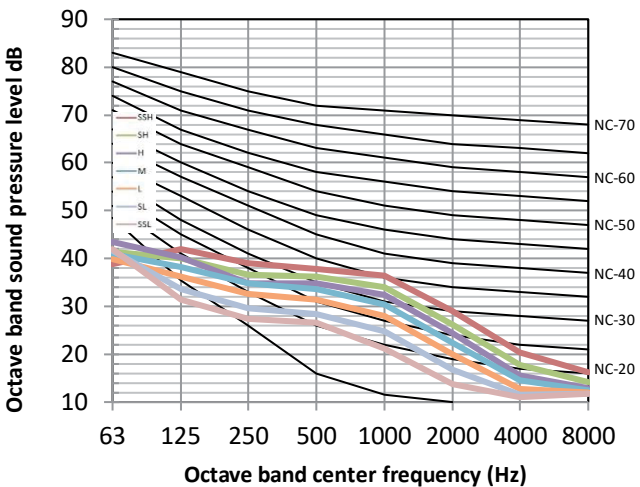


Figure 8.12: MMD-112CS octave band levels

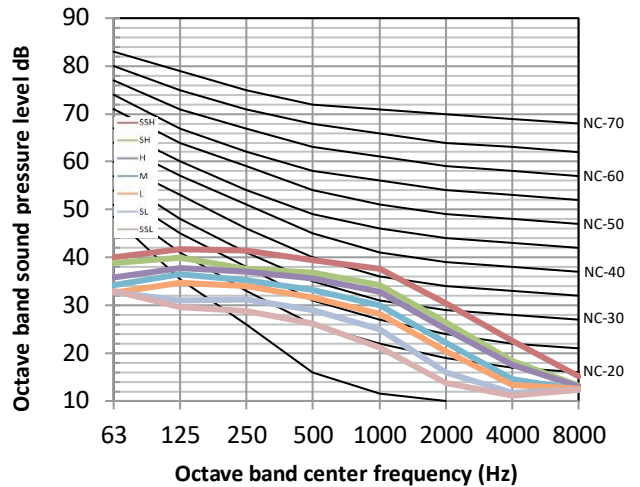


Figure 8.13: MMD-140CS octave band levels

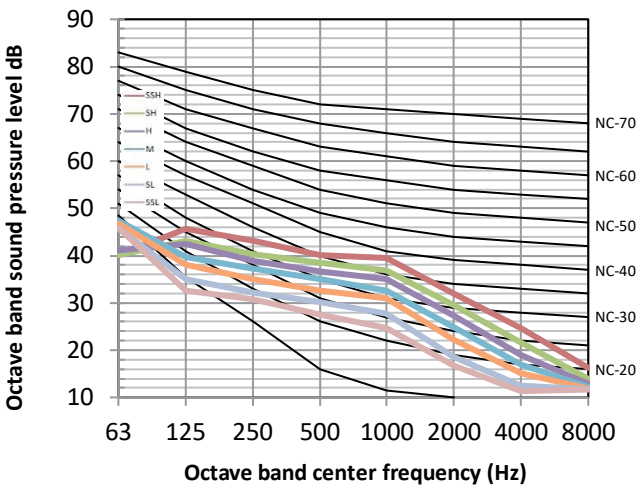
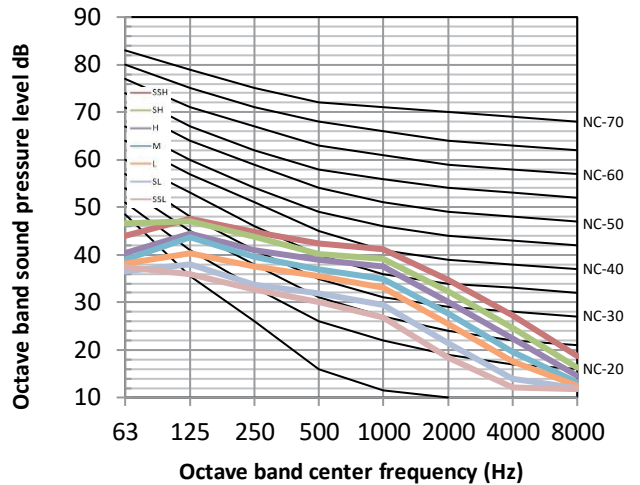


Figure 8.14: MMD-160CS octave band levels



09. Fan Performance

09.01. How to switch between Constant Airflow mode and Constant Speed mode

- ① In 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.
- ② When "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.

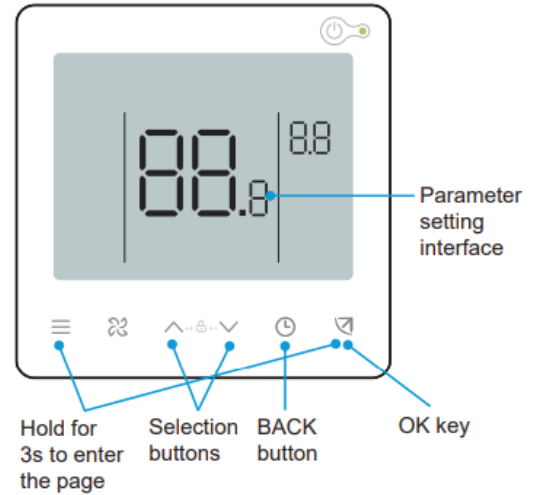


Table 9.1: Mid Static mode setting

First level menu	Second level menu	Description	Default
n30	00	Constant Speed	-
	01	Constant Airflow	√

Notes:

The above is only an example. If you choose other controllers, please refer to their instructions for setting.

09.02. Constant Airflow mode

09.02.01. Fan performance diagram

Figure 9.1: MMD-015CS

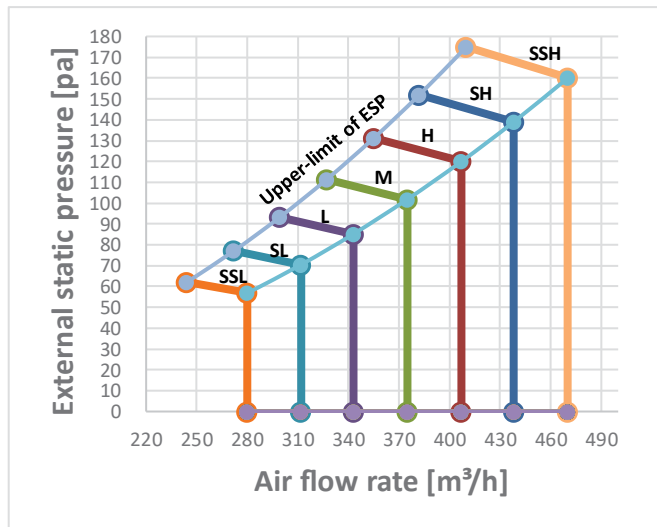
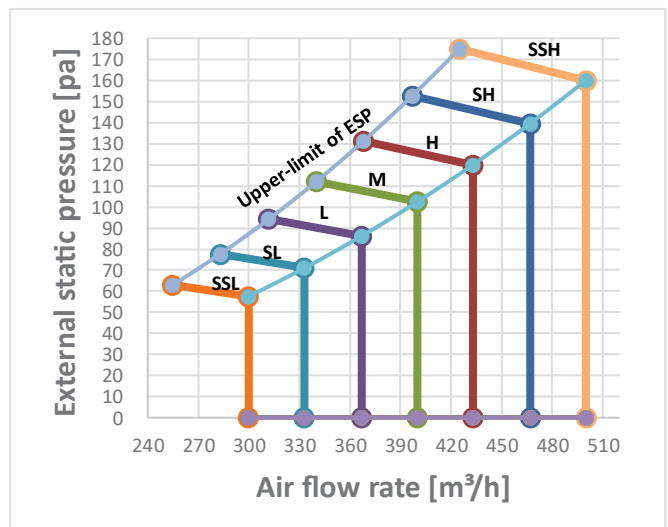


Figure 9.2: MMD-022CS



TECHNICAL SELECTION DATA

ECOFLEX - Mini VRF

Figure 9.3: MMD-028CS

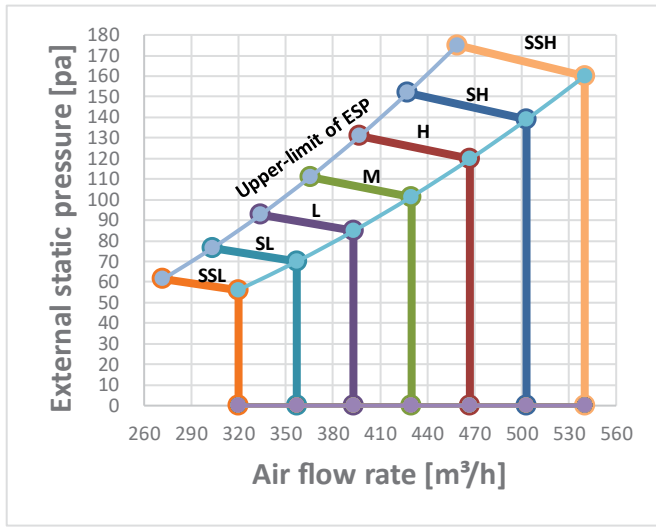


Figure 9.4: MMD-036CS

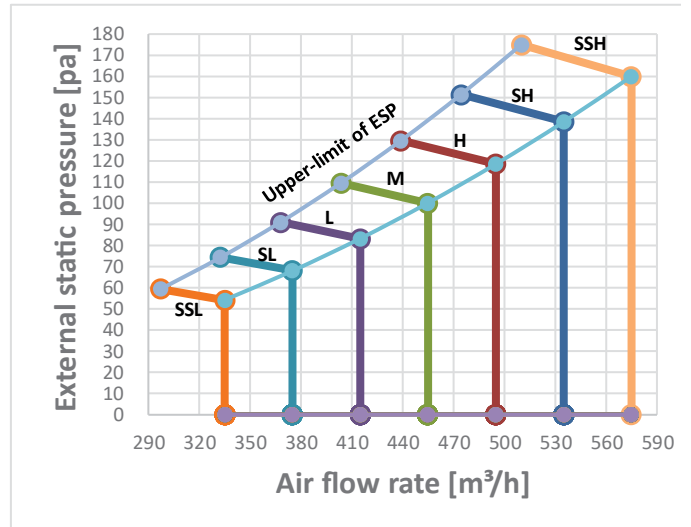


Figure 9.5: MMD-045CS

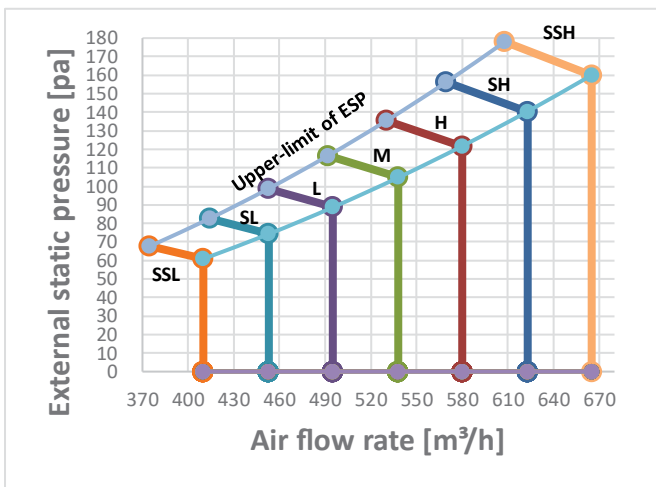


Figure 9.6: MMD-056CS

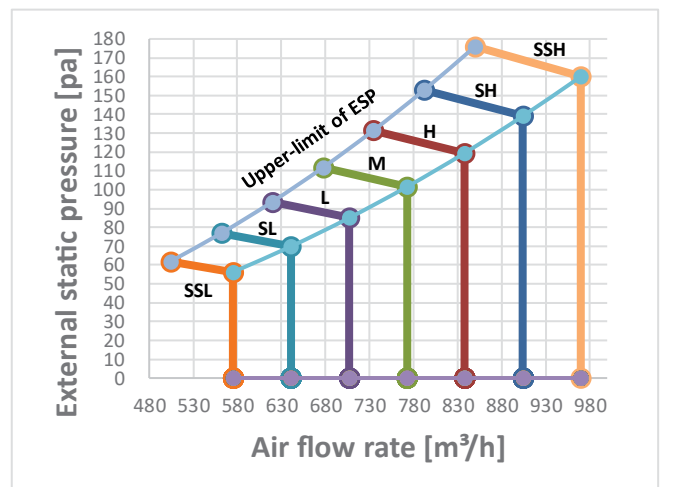


Figure 9.7: MMD-071CS

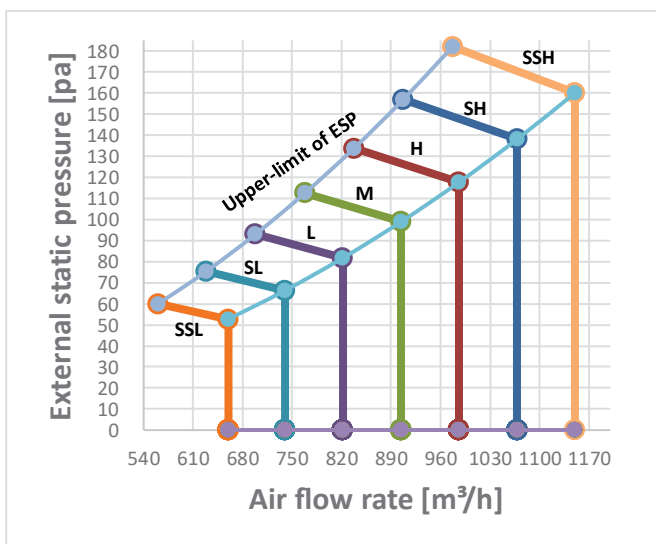


Figure 9.8: MMD-080CS

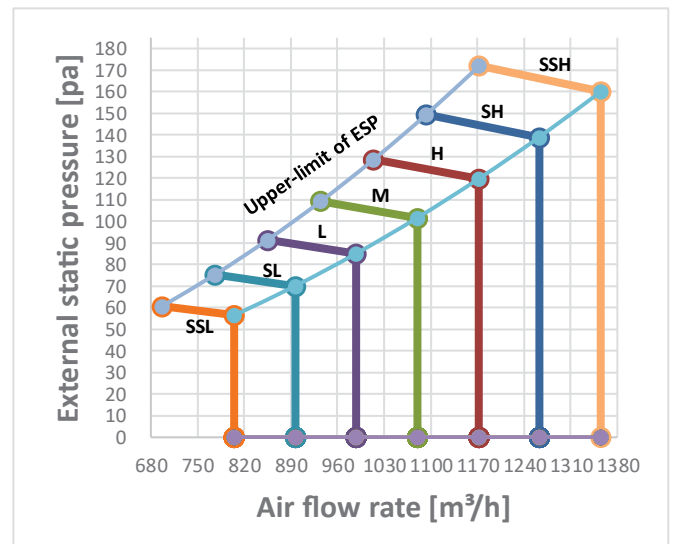


Figure 9.9: MMD-090CS

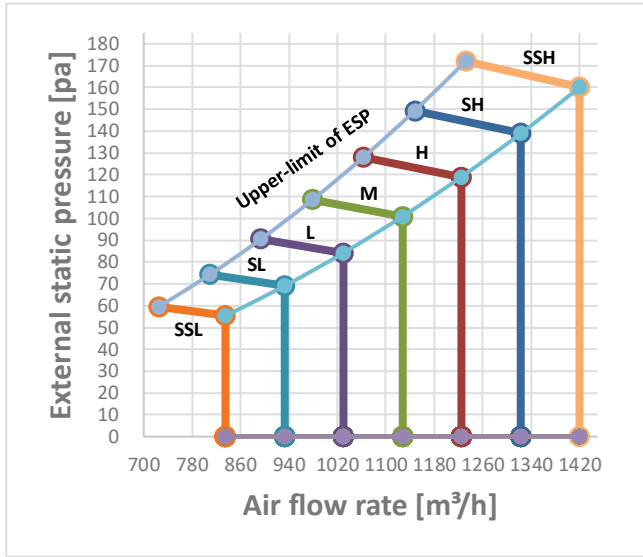


Figure 9.10: MMD-112CS

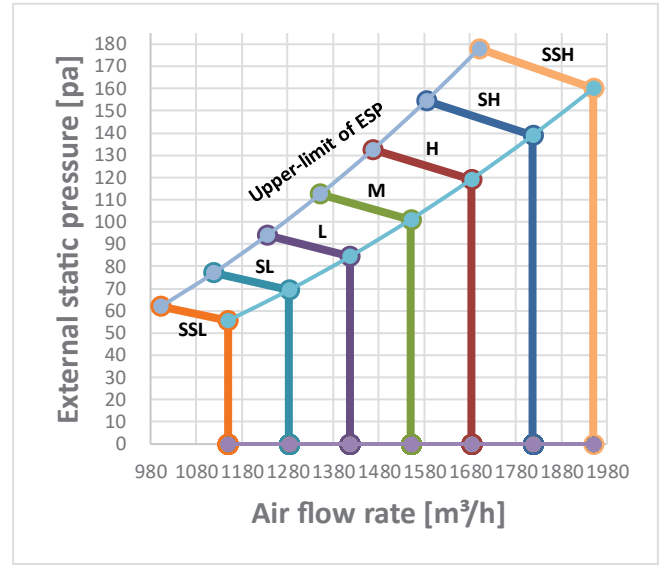


Figure 9.11: MMD-140CS

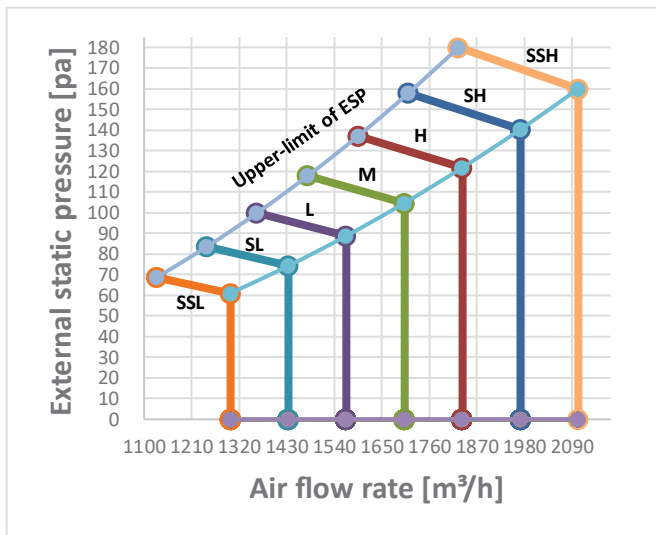
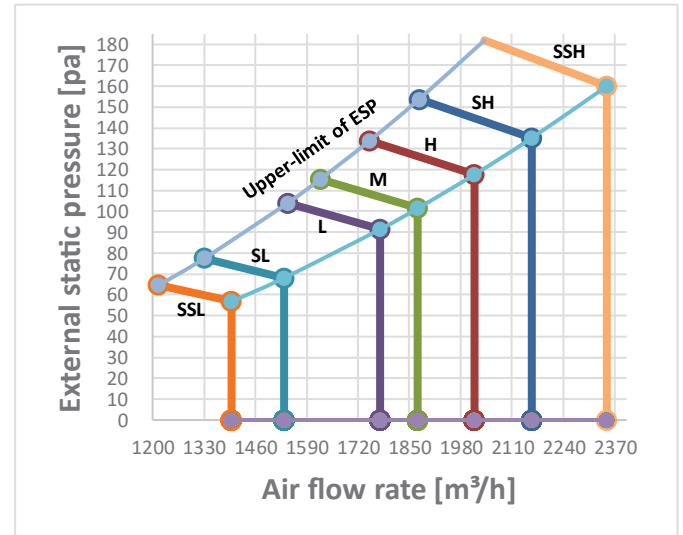


Figure 9.12: MMD-160CS



09.02.02. How to Read the Diagram (Constant Airflow mode)

The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m3/h). The characteristic curve for the “SSH”, “SH”, “H”, “M”, “L”, “SL” and “SSL” fan speed control.

For MMD-140CS, in “H” windshield, when the external static pressure is less than 122 Pa, the air flow keeps 1837 m3/h, but when the externa static pressure is greater than 122 Pa, the air flow begins to decline, and the allowable maximum external static pressure is 137 Pa.

09.03. Constant Speed mode

09.03.01. Set external static pressure parameters

- ① In 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.
- ② When "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.

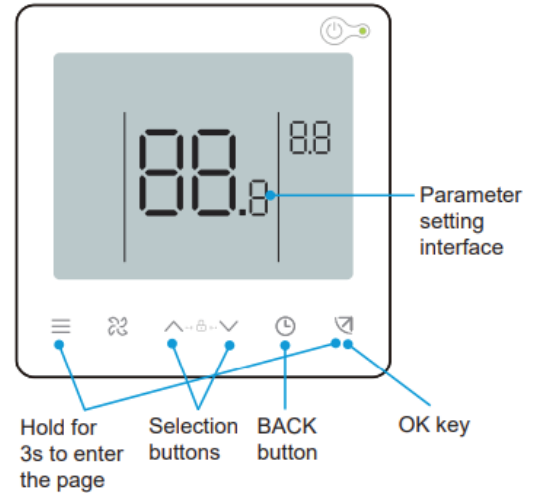


Table 9.1: External static pressure setting (1.5-7.1kW)

First level menu	Second level menu	Description	Default
n00	00/01/02/03/04/05/~ /19	Static pressure level	1.5-7.1kW: 06 8.0-11.2kW: 07 14.0-16.0kW: 08

Level	00	01	02	03	04	05	06	07	08	09	10
Static pressure(Pa)	0	5	10	15	20	25	30	40	50	60	70

Level	11	12	13	14	15	16	17	18	19
Static pressure(Pa)	80	90	100	110	120	130	140	150	160

Notes:

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

09.03.02. Fan performance diagram

Figure 9.13: MMD-015CS

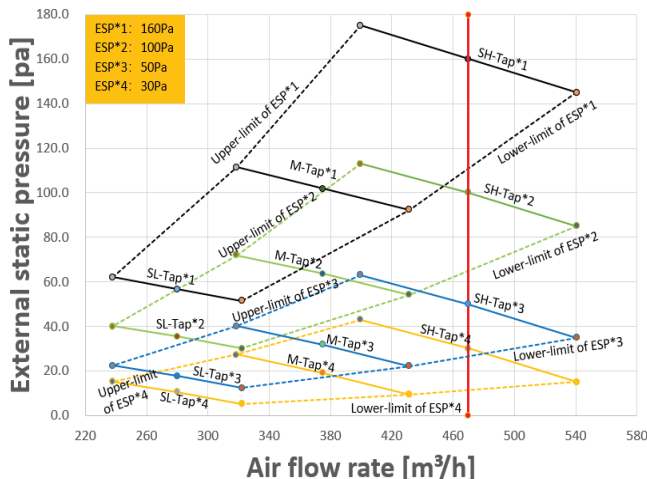


Figure 9.14: MMD-022CS

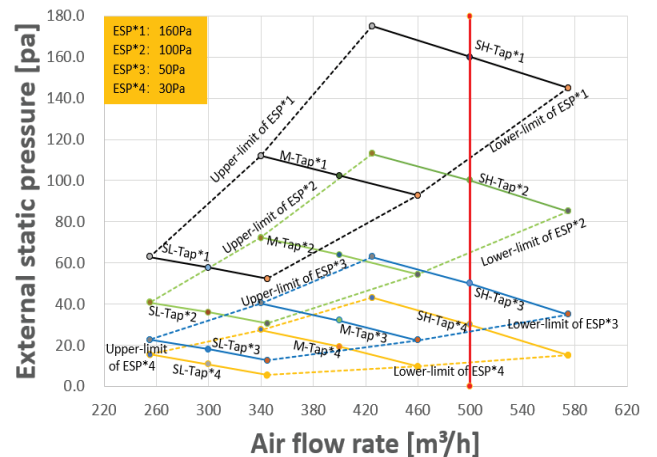


Figure 9.15: MMD-028CS

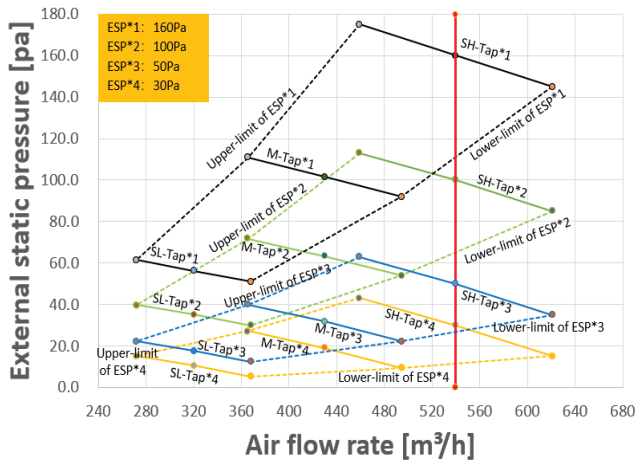


Figure 9.16: MMD-036CS

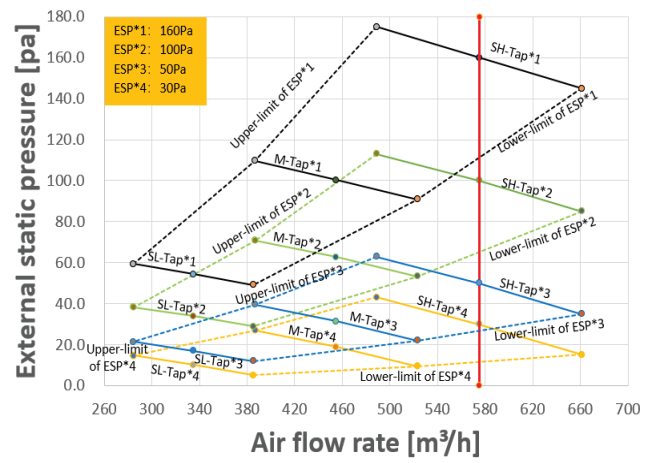


Figure 9.17: MMD-045CS

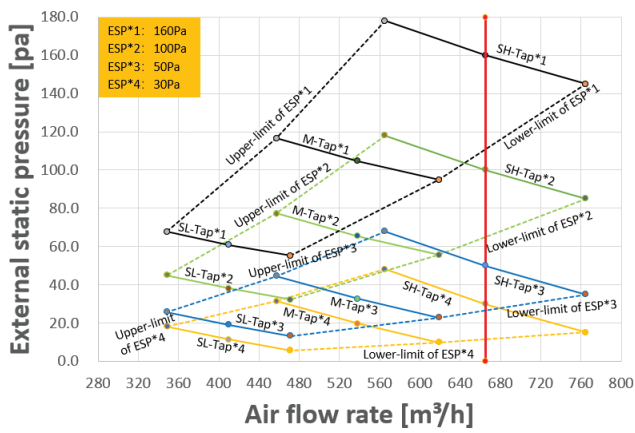


Figure 9.18: MMD-056CS

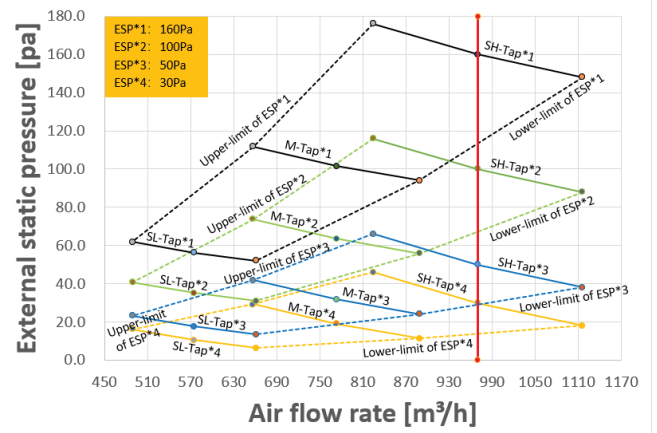


Figure 9.19: MMD-071CS

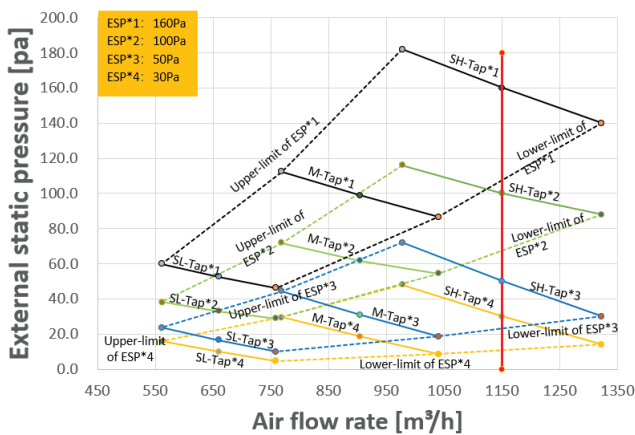


Figure 9.20: MMD-080CS

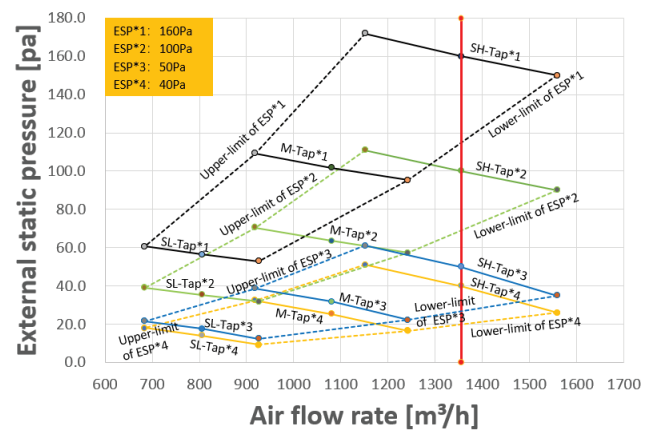


Figure 9.21: MMD-090CS

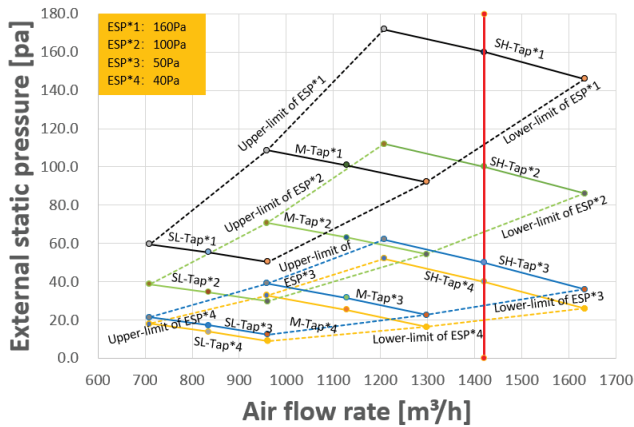


Figure 9.22: MMD-112CS

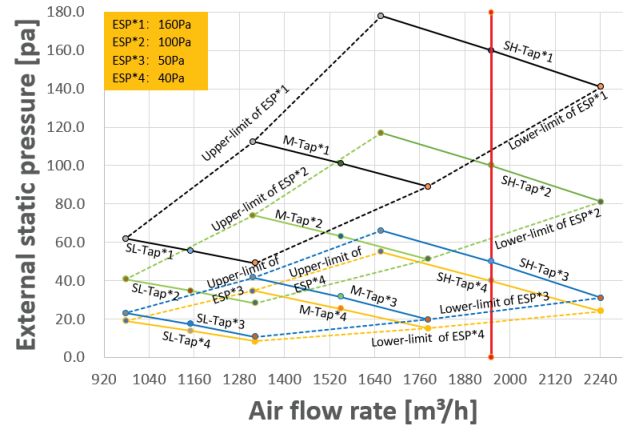


Figure 9.23: MMD-140CS

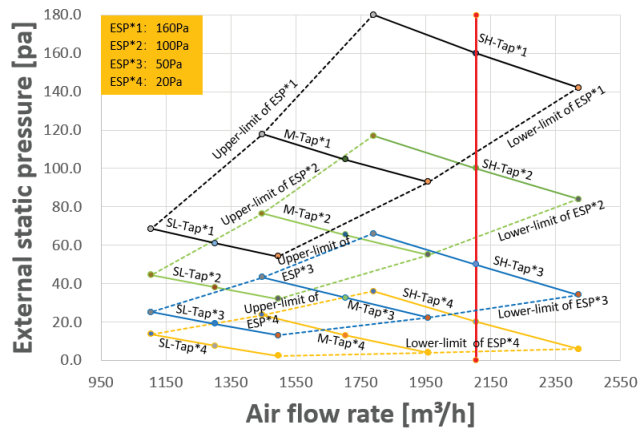
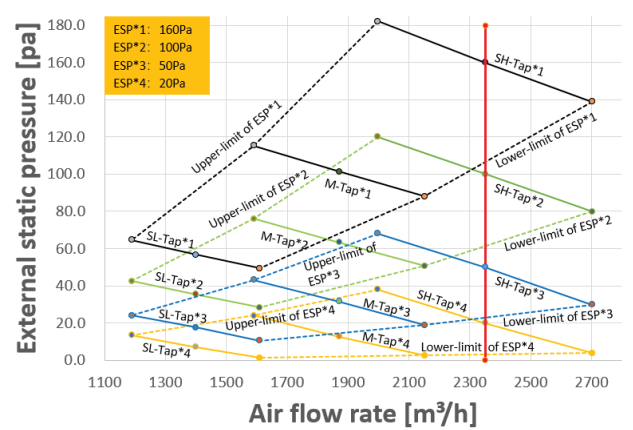


Figure 9.24: MMD-160CS



09.03.03. How to Read the Diagram (Constant Speed mode)

The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m³/h). The characteristic curve for the “SH”, “M” and “SL” fan speed control.

The Air Flow decreases with the increase of the external static pressure. For MMD-140CS, in “SH” windshield and “50Pa” setting static pressure, when the external static pressure is 50Pa, the air flow is 2105 m³/h, and the allowable external static pressure range is 34 to 66.



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