

# MSP Duct

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Sound Power Level*
- 7 *Fan Characteristics*

# 1 Specifications

## MSP Duct

Model				AM022FNMDEH/EU	AM028FNMDEH/EU	AM036FNMDEH/EU	AM045FNMDEH/EU	AM056FNMDEH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	2.2	2.8	3.6	4.5	5.6
			Btu/h	7,500	9,600	12,300	15,400	19,100
		Heating	kW	2.5	3.2	4.0	5.0	6.3
			Btu/h	8,500	10,900	13,600	17,100	21,500
Power	Power Input (Nominal)	Cooling	W	80	80	85	125	130
		Heating		80	80	85	125	130
	Current Input (Nominal)	Cooling	A	0.40	0.40	0.55	1.15	1.10
		Heating		0.40	0.40	0.55	1.15	1.10
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	69	69	112	219	124
		Number of unit	EA	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	8.50/7.50/6.30	10.00/9.20/7.50	12.00/10.20/8.80	14.00/12.00/10.50	14.50/13.00/11.50
			l/s	141.67/125.00/105.00	166.67/153.33/125.00	200.00/170.00/146.67	233.33/200.00/175.00	241.67/216.67/191.67
	External Static Pressure	Mid/Std/Max	mmAq	0.00/2.00/6.00	0.00/2.00/6.00	0.00/2.00/6.00	0.00/4.00/8.00	0.00/4.00/8.00
			Pa	0.00/19.61/58.84	0.00/19.61/58.84	0.00/19.61/58.84	0.00/39.23/78.45	0.00/39.23/78.45
WG			0/0.079/0.236	0/0.079/0.236	0/0.079/0.236	0/0.157/0.314	0/0.157/0.314	
Option Code			-	010054-1350EA-201616-331110	010054-13542C-201C1C-331110	010054-1350F8-202424-331110	010054-125583-202D2D-331110	010054-1255C5-203838-331110
Piping Connections	Liquid Pipe	Ø, mm	6.35	6.35	6.35	6.35	6.35	
		Ø, inch	1/4	1/4	1/4	1/4	1/4	
	Gas Pipe	Ø, mm	12.70	12.70	12.70	12.70	12.70	
		Ø, inch	1/2	1/2	1/2	1/2	1/2	
Drain Pipe	Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)		
Field Wiring	Power Source Wire	Below 20m/ over 20m	mm <sup>2</sup>	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm <sup>2</sup>	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type	-	-	R410A	R410A	R410A	R410A	R410A
	Control Method	-	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound pressure	High / Mid / Low	dBA	23 / 21 / 19	24 / 22 / 19	29 / 27 / 24	32 / 30 / 28	35 / 33 / 31
Dimensions	Net Weight		kg	23.5	23.5	23.5	28.0	28.0
	Shipping Weight		kg	28.5	28.5	28.5	32.5	32.5
	Net Dimensions (WxHxD)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600	900 x 260 x 480	900 x 260 x 480
	Shipping Dimensions (WxHxD)		mm	1150 x 280 x 710	1150 x 280 x 710	1150 x 280 x 710	1170 x 340 x 595	1170 x 340 x 595
Panel Size	Panel Model		-	-	-	-	-	-
	Net Weight		kg	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-M075SGU3D	MDP-M075SGU3D
		Max. Lifting Height/ Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 1 Specifications

## MSP Duct

Model				AM071FNMDEH/EU	AM090FNMDEH/EU	AM112FNMDEH/EU	AM128FNMDEH/EU	AM140FNMDEH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	7.1	9.0	11.2	12.8	14.0
			Btu/h	24,200	30,700	38,200	43,700	47,800
		Heating	kW	8.0	10.0	12.5	13.8	16.0
			Btu/h	27,300	34,100	42,700	47,100	54,600
Power	Power Input (Nominal)	Cooling	W	190	240	260	370	410
		Heating		190	240	260	370	410
	Current Input (Nominal)	Cooling	A	1.25	1.30	1.17	1.67	1.86
		Heating		1.25	1.30	1.17	1.67	1.86
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	124	130	130	218	218
		Number of unit	EA	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	18.50/17.00/15.50	19.50/18.00/16.50	27.00/25.00/23.00	32.00/30.00/28.00	37.00/34.00/31.00
			l/s	308.33/283.33/258.33	325.00/300.00/275.00	450.00/416.67/383.33	533.33/500.00/466.67	616.67/566.67/516.67
	External Static Pressure	Mid/Std/Max	mmAq	0.00/4.00/8.00	4.00/6.00/8.00	4.00/8.00/12.00	4.00/8.00/14.00	4.00/8.00/14.00
			Pa	0.00/39.23/78.45	39.23/58.84/78.45	39.23/78.45/117.68	39.23/78.45/137.29	39.23/78.45/137.29
			WG	0/0.157/0.314	0.157/0.236/0.315	0.236/0.314/0.472	0.236/0.314/0.553	0.236/0.314/0.553
Option Code			-	010054-125979-204747-331110	010054-125D29-205A5A-331110	010054-122EBB-207070-331110	010054-122A80-208080-331110	010054-122E24-208C8C-331110
Piping Connections	Liquid Pipe	Ø, mm	9.52	9.52	9.52	9.52	9.52	
		Ø, inch	3/8	3/8	3/8	3/8	3/8	
	Gas Pipe	Ø, mm	15.88	15.88	15.88	15.88	15.88	
		Ø, inch	5/8	5/8	5/8	5/8	5/8	
Drain Pipe	Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)		
Field Wiring	Power Source Wire	Below 20m/ over 20m	mm <sup>2</sup>	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm <sup>2</sup>	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type	-	-	R410A	R410A	R410A	R410A	R410A
	Control Method	-	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound pressure	High / Mid / Low	dBA	39 / 35 / 31	40 / 37 / 34	41 / 40 / 38	41 / 40 / 38	42 / 39 / 36
Dimensions	Net Weight		kg	28.0	32.0	35.5	48.0	48.0
	Shipping Weight		kg	32.5	36.0	40.5	56.0	56.0
	Net Dimensions (WxHxD)		mm	900 x 260 x 480	1150 x 260 x 480	1150 x 320 x 480	1200 x 360 x 650	1200 x 360 x 650
	Shipping Dimensions (WxHxD)		mm	1170 x 340 x 595	1420 x 340 x 595	1420 x 400 x 595	1480 x 420 x 790	1480 x 420 x 790
Panel Size	Panel Model		-	-	-	-	-	-
	Net Weight		kg	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-
Additional Accessories	Drain Pump	Drain Pump	-	MDP-M075SGU3D	MDP-M075SGU1D	MDP-M075SGU1D	MDP-M075SGU2D	MDP-M075SGU2D
		Max. Lifting Height/ Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 1 Specifications

## MSP Duct

Type			MSP Duct		
Model			AM160KNMDEH/EU		
Power Supply		Ø, #, V, Hz	1,2,220-240,50		
Mode			- HP/HR		
Performance	Capacity (Nominal)	Cooling	kW	16.00	
			Btu/h	54,600	
		Heating	kW	18.00	
			Btu/h	61,400	
Power	Power Input (Nominal)	Cooling	W	485.00	
		Heating	W	485.00	
	Current Input (Nominal)	Cooling	A	2.24	
		Heating	A	2.24	
Fan	Motor	Type	-	Sirocco Fan	
		Output x n	w	370 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	43.00 / 38.00 / 30.50	
			l/s	716.67 / 633.33 / 508.33	
	External Pressure	Min/Std/Max	mmAq	4.00 / 8.00 / 14.00	
Pa			39.20 / 78.40 / 137.20		
Piping Connections	Liquid Pipe	Ø, mm	9.52		
		Ø, inch	3/8"		
	Gas Pipe	Ø, mm	15.88		
		Ø, inch	5/8"		
	Drain Pipe	Ø, mm	VP25 (OD 32,ID 25)		
Field Wiring	Power Source Wire	mm <sup>2</sup>	1.5 - 2.5		
	Transmission Cable	mm <sup>2</sup>	0.75 - 1.50		
Refrigerant	Type	-	R410A		
	Control Method	-	EEV INCLUDED		
Sound	Pressure	High / Mid / Low	dB(A)	43 / 40 / 36	
	Power	Cooling		69	
Dimension	Net Weight		kg	50.0	
	Shipping Weight		kg	58.0	
	Net Dimensions (WxHxD)		mm	1,200 x 360 x 650	
	Shipping Dimensions (WxHxD)		mm	1,480 x 420 x 790	
Panel Size	Panel model		-	-	
	Panel Net Weight		kg	-	
	Shipping Weight		kg	-	
	Net Dimensions (WxHxD)		mm	-	
	Shipping Dimensions (WxHxD)		mm	-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-M075SGU2D	
		Max. lifting Height / Displacement	mm/liter/h	-	
	Air Filter		-	-	

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 1 Specifications

## MSP Duct

Type				MSP DUCT	MSP DUCT	MSP DUCT
Model				AM022KNMDEH/EU	AM028KNMDEH/EU	AM036KNMDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	2.20	2.80	3.60
			Btu/h	7,500	9,600	12,300
		Heating	kW	2.50	3.20	4.00
			Btu/h	8,500	10,900	13,600
Power	Power Input (Nominal)	Cooling	W	80.00	80.00	85.00
		Heating		80.00	80.00	85.00
	Current Input (Nominal)	Cooling	A	0.40	0.40	0.55
		Heating		0.40	0.40	0.55
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	69 x 1	69 x 1	112 x 1
	Air Flow Rate	H/M/L (UL)	CMM	8.50/7.50/6.30	10.00/9.20/7.50	12.00/10.20/8.80
			l/s	141.67/125.00/105.00	166.67/153.33/125.00	200.00/170.00/146.67
	External Static Pressure	Min / Std / Max	mmAq	0.00/2.00/6.00	0.00/2.00/6.00	0.00/2.00/6.00
			Pa	0.00/19.61/58.84	0.00/19.61/58.84	0.00/19.61/58.84
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4"	1/4"	1/4"
	Gas Pipe		Φ,mm	12.70	12.70	12.70
			Φ, inch	1/2"	1/2"	1/2"
Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm <sup>2</sup>	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm <sup>2</sup>	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	23 / 21 / 19	24 / 22 / 19	29 / 27 / 24
	Sound Power Level	Cooling		47	48	53
Dimensions	Net Weight		kg	24.0	24.0	24.0
	Shipping Weight		kg	29.0	29.0	29.0
	Net Dimensions (W×H×D)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600
	Shipping Dimensions (W×H×D)		mm	1150 x 280 x 710	1150 x 280 x 710	1150 x 280 x 710
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 1 Specifications

## MSP Duct

Type				MSP DUCT	MSP DUCT	MSP DUCT
Model				AM045KNMDEH/EU	AM056KNMDEH/EU	AM071KNMDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	4.50	5.60	7.10
			Btu/h	15,400	19,100	24,200
		Heating	kW	5.00	6.30	8.00
			Btu/h	17,100	21,500	27,300
Power	Power Input (Nominal)	Cooling	W	125.00	130.00	190.00
		Heating		125.00	130.00	190.00
	Current Input (Nominal)	Cooling	A	1.15	1.10	1.25
		Heating		1.15	1.10	1.25
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	219 x 1	124 x 1	124 x 1
	Air Flow Rate	H/M/L (UL)	CMM	14.00/12.00/10.50	14.50/13.00/11.50	18.50/17.00/15.50
			l/s	233.33/200.00/175.00	241.67/216.67/191.67	308.33/283.33/258.33
	External Static Pressure	Min / Std / Max	mmAq	0.00/4.00/8.00	0.00/4.00/8.00	0.00/4.00/8.00
			Pa	0.00/39.23/78.45	0.00/39.23/78.45	0.00/39.23/78.45
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35	9.52
			Φ, inch	1/4"	1/4"	3/8"
	Gas Pipe		Φ,mm	12.70	12.70	15.88
			Φ, inch	1/2"	1/2"	5/8"
Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm <sup>2</sup>	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm <sup>2</sup>	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	32 / 30 / 28	35 / 33 / 31	39 / 35 / 31
	Sound Power Level	Cooling		54	57	61
Dimensions	Net Weight		kg	28.5	28.5	28.5
	Shipping Weight		kg	33.0	33.0	33.0
	Net Dimensions (W×H×D)		mm	900 x 260 x 480	900 x 260 x 480	900 x 260 x 480
	Shipping Dimensions (W×H×D)		mm	1170 x 340 x 595	1170 x 340 x 595	1170 x 340 x 595
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 1 Specifications

## MSP Duct

Type				MSP DUCT	MSP DUCT	MSP DUCT
Model				AM090KNMDEH/EU	AM112KNMDEH/EU	AM128KNMDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	9.00	11.20	12.80
			Btu/h	30,700	38,200	43,700
		Heating	kW	10.00	12.50	13.80
			Btu/h	34,100	42,700	47,100
Power	Power Input (Nominal)	Cooling	W	240.00	260.00	370.00
		Heating		240.00	260.00	370.00
	Current Input (Nominal)	Cooling	A	1.30	1.17	1.67
		Heating		1.30	1.17	1.67
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	130 x 1	130 x 1	218 x 1
	Air Flow Rate	H/M/L (UL)	CMM	19.50/18.00/16.50	27.00/25.00/23.00	32.00/30.00/28.00
			l/s	325.00/300.00/275.00	450.00/416.67/383.33	533.33/500.00/466.67
	External Static Pressure	Min / Std / Max	mmAq	4.00/6.00/8.00	4.00/8.00/12.00	4.00/8.00/14.00
			Pa	39.23/58.84/78.45	39.23/78.45/117.68	39.23/78.45/137.29
Piping Connections	Liquid Pipe		Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe		Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm <sup>2</sup>	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm <sup>2</sup>	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	40 / 37 / 34	41 / 40 / 38	41 / 40 / 38
	Sound Power Level	Cooling		63	66	66
Dimensions	Net Weight		kg	32.5	36.0	48.5
	Shipping Weight		kg	37.5	41.0	57.0
	Net Dimensions (W×H×D)		mm	1150 x 260 x 480	1150 x 320 x 480	1200 x 360 x 650
	Shipping Dimensions (W×H×D)		mm	1420 x 340 x 595	1420 x 400 x 595	1480 x 420 x 790
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 1 Specifications

## MSP Duct

Type				MSP DUCT	MSP DUCT
Model				AM140KNMDEH/EU	AM160KNMDEH1EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	14.00	16.00
			Btu/h	47,800	54,600
		Heating	kW	16.00	18.00
			Btu/h	54,600	61,400
Power	Power Input (Nominal)	Cooling	W	410.00	485.00
		Heating		410.00	485.00
	Current Input (Nominal)	Cooling	A	1.86	2.24
		Heating		1.86	2.24
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	218 x 1	370 x 1
	Air Flow Rate	H/M/L (UL)	CMM	37.00/34.00/31.00	43.00/38.00/30.50
			l/s	616.67/566.67/516.67	716.67/633.33/508.33
	External Static Pressure	Min / Std / Max	mmAq	4.00/8.00/14.00	4.00/8.00/14.00
			Pa	39.23/78.45/137.29	39.23/78.45/137.29
Piping Connections	Liquid Pipe		Φ,mm	9.52	9.52
			Φ, inch	3/8"	3/8"
	Gas Pipe		Φ,mm	15.88	15.88
			Φ, inch	5/8"	5/8"
Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm <sup>2</sup>	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm <sup>2</sup>	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	42 / 39 / 36	43 / 40 / 36
	Sound Power Level	Cooling		68	69
Dimensions	Net Weight		kg	48.5	50.5
	Shipping Weight		kg	57.0	59.0
	Net Dimensions (W×H×D)		mm	1200 x 360 x 650	1200 x 360 x 650
	Shipping Dimensions (W×H×D)		mm	1480 x 420 x 790	1480 x 420 x 790
Panel Size	Panel model		-	-	-
	Panel Net Weight		kg	-	-
	Shipping Weight		kg	-	-
	Net Dimensions (W×H×D)		mm	-	-
	Shipping Dimensions (W×H×D)		mm	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-
	Air Filter		-	-	-

### NOTE

- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
  - 2) Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
  - 4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 5) These products contain R410A which is fluorinated greenhouse gas.
  - 6) Specifications may be subject to change without prior notice.
- \* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)





# 2 Capacity Table

## MSP Duct

### Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)	SHC	16 (°C, WB)	SHC	18 (°C, WB)	SHC	19 (°C, WB)	SHC	20 (°C, WB)	SHC	22 (°C, WB)	SHC	24 (°C, WB)	SHC
071	10	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	12	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	14	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	16	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	18	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	20	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	21	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	23	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	25	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	27	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	29	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	31	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	33	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	35	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	37	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.8	5.5	8.2	5.2
	39	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.7	5.4	8.1	5.1
090	10	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.4	7.1	10.1	7.1	10.8	7.1
	12	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.4	7.1	10.1	7.1	10.8	7.1
	14	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.7	6.9
	16	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.7	6.9
	18	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	20	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	21	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	23	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	25	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	27	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	29	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	31	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	33	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	35	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	37	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	9.9	6.9	10.4	6.7
	39	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.2	6.9	9.7	6.8	10.2	6.6
112	10	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.4	8.3
	12	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.4	8.3
	14	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.3	8.2
	16	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.3	8.2
	18	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.2
	20	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	21	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	23	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	25	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.4	13.2	8.1
	27	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	29	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	31	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.5	13.2	8.1
	33	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.5	13.2	8.1
	35	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.4	13.2	8.1
	37	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.3	8.5	13.0	8.0
	39	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.5	8.5	12.1	8.4	12.7	7.9
128	10	10.4	7.6	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.3	6.3	15.4	9.8
	12	10.4	7.6	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.3	6.3	15.3	9.8
	14	10.4	7.6	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.3	6.2	15.3	9.7
	16	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.2	9.7
	18	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	20	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	21	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	23	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	25	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	27	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	29	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	31	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	33	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	35	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.8	14.2	6.2	15.1	9.7
	37	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.2	9.9	14.0	6.1	14.9	9.6
	39	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.1	9.9	13.8	6.1	14.5	9.6
140	10	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.6	11.0	15.7	8.0	16.8	11.2
	12	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.6	7.9	16.7	11.2
	14	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.6	7.9	16.7	11.1
	16	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.6	7.9	16.6	11.1
	18	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.6	11.0
	20	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	21	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	23	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	25	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	27	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	29	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	31	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	33	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	35	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	10.9	15.5	7.9	16.5	11.0
	37	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.4	7.8	16.3	11.0
	39	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.4	10.9	15.1	7.7	15.9	10.8
160	10	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.7	12.2	17.9	12.3	19.2	12.2
	12	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.8	12.2	19.1	12.1
	14	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.8	12.2	19.1	12.1
	16	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.8	12.2	19.0	12.0
	18	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	19.0	12.0
	20	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	21	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	23	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	25	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	27	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	29	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.				

# 2 Capacity Table

## MSP Duct

### Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
022	-20	-21	1.5	1.5	1.5	1.5	1.5
	-17	-18	1.6	1.6	1.6	1.6	1.6
	-15	-16	1.7	1.6	1.6	1.6	1.6
	-12	-13	1.8	1.8	1.8	1.8	1.7
	-10	-11	2.0	2.0	1.9	1.9	1.9
	-7	-8	2.3	2.2	2.2	2.0	2.0
	-5	-6	2.4	2.3	2.3	2.2	2.2
	-3	-4	2.5	2.5	2.4	2.3	2.2
	0	-1	2.6	2.5	2.5	2.3	2.2
	3	2.2	2.7	2.6	2.5	2.3	2.2
	5	4.1	2.8	2.7	2.5	2.3	2.2
	7	6	2.8	2.7	2.5	2.3	2.2
	9	7.9	3.0	2.7	2.5	2.3	2.2
	11	9.8	3.0	2.7	2.5	2.3	2.2
	13	12	3.0	2.7	2.5	2.3	2.2
15	14	3.0	2.7	2.5	2.3	2.2	
028	-20	-21	1.9	1.9	1.9	1.9	1.9
	-17	-18	2.0	2.0	2.0	2.0	1.9
	-15	-16	2.1	2.1	2.0	2.0	1.9
	-12	-13	2.2	2.2	2.2	2.1	2.1
	-10	-11	2.3	2.3	2.3	2.3	2.2
	-7	-8	2.5	2.4	2.4	2.4	2.3
	-5	-6	2.6	2.6	2.5	2.5	2.4
	-3	-4	2.8	2.7	2.7	2.6	2.5
	0	-1	2.9	2.8	2.8	2.7	2.6
	3	2.2	3.0	3.0	2.9	2.8	2.7
	5	4.1	3.2	3.1	3.1	2.9	2.7
	7	6	3.3	3.2	3.2	3.0	2.7
	9	7.9	3.4	3.3	3.2	3.0	2.7
	11	9.8	3.5	3.3	3.2	3.0	2.7
	13	12	3.6	3.4	3.2	3.0	2.7
15	14	3.7	3.4	3.2	3.0	2.7	
036	-20	-21	2.4	2.4	2.3	2.3	2.3
	-17	-18	2.6	2.5	2.4	2.4	2.3
	-15	-16	2.7	2.6	2.5	2.5	2.4
	-12	-13	2.8	2.7	2.7	2.6	2.6
	-10	-11	2.9	2.9	2.9	2.8	2.8
	-7	-8	3.1	3.1	3.0	3.0	2.9
	-5	-6	3.3	3.2	3.2	3.1	3.0
	-3	-4	3.4	3.4	3.3	3.2	3.1
	0	-1	3.6	3.6	3.5	3.4	3.2
	3	2.2	3.8	3.7	3.7	3.5	3.4
	5	4.1	3.9	3.9	3.8	3.6	3.4
	7	6	4.1	4.1	4.0	3.7	3.4
	9	7.9	4.2	4.1	4.0	3.7	3.4
	11	9.8	4.4	4.2	4.0	3.7	3.4
	13	12	4.5	4.2	4.0	3.7	3.4
15	14	4.6	4.3	4.0	3.7	3.4	
045	-20	-21	3.1	3.1	2.9	2.9	2.9
	-17	-18	3.2	3.2	3.1	3.0	3.0
	-15	-16	3.3	3.3	3.2	3.1	3.0
	-12	-13	3.5	3.4	3.4	3.3	3.2
	-10	-11	3.7	3.6	3.6	3.5	3.5
	-7	-8	3.9	3.8	3.8	3.7	3.6
	-5	-6	4.1	4.0	4.0	3.9	3.7
	-3	-4	4.3	4.2	4.2	4.0	3.9
	0	-1	4.5	4.4	4.4	4.2	4.0
	3	2.2	4.7	4.7	4.6	4.4	4.2
	5	4.1	4.9	4.9	4.8	4.5	4.2
	7	6	5.1	5.1	5.0	4.6	4.2
	9	7.9	5.3	5.2	5.0	4.6	4.2
	11	9.8	5.5	5.2	5.0	4.6	4.2
	13	12	5.6	5.3	5.0	4.6	4.2
15	14	5.8	5.4	5.0	4.6	4.2	
056	-20	-21	3.9	3.8	3.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
	13	12	7.1	6.7	6.3	5.8	5.3
15	14	7.3	6.8	6.3	5.8	5.3	

# 2 Capacity Table

## MSP Duct

### Heating

TC : Total Capacity(kW)

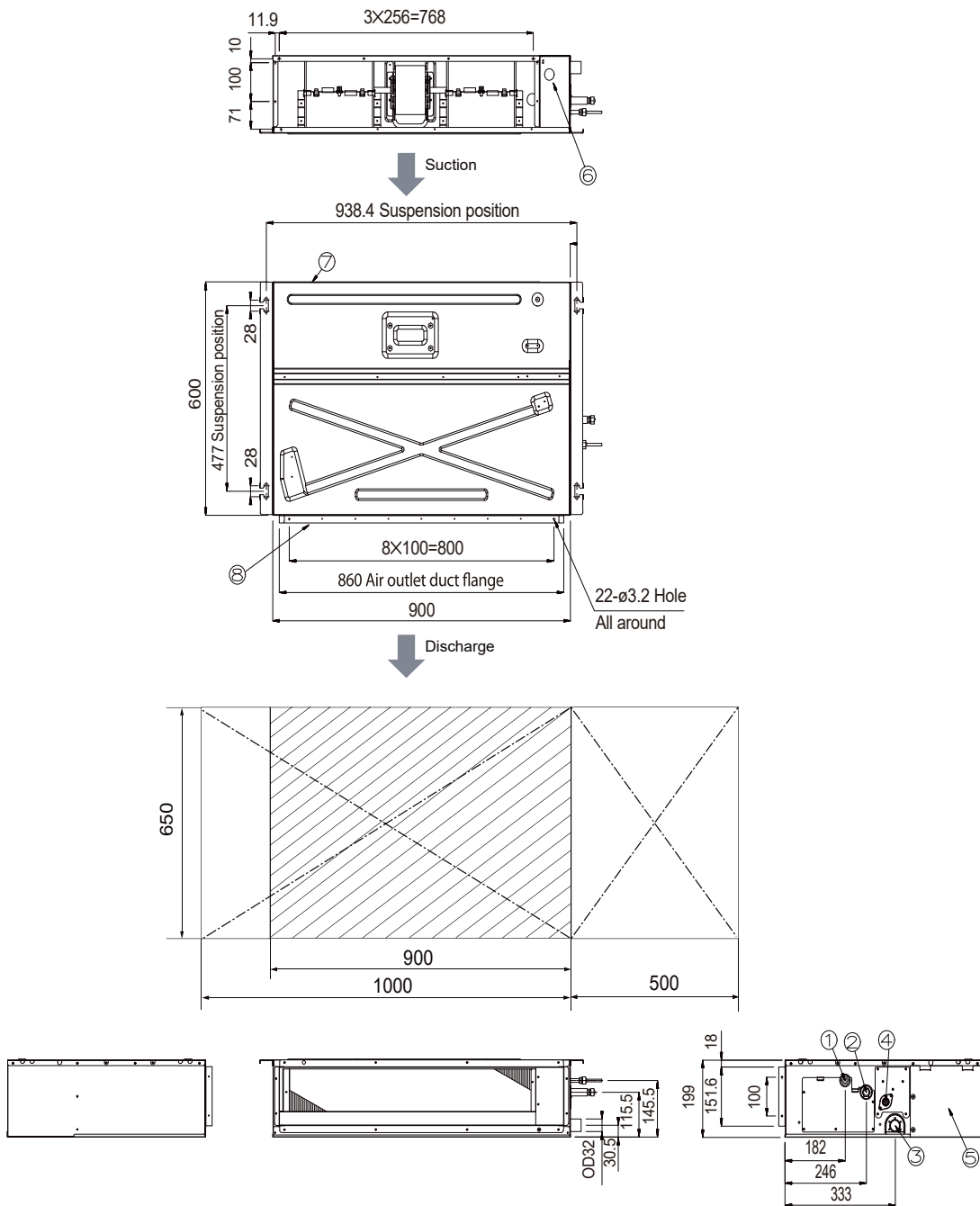
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
071	DB	WB	kW	kW	kW	kW	kW
	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
15	14	9.2	8.6	8.0	7.4	6.8	
090	-20	-21	6.0	6.0	5.9	5.8	5.8
	-17	-18	6.3	6.3	6.1	6.0	5.9
	-15	-16	6.7	6.5	6.3	6.1	6.0
	-12	-13	7.0	6.9	6.7	6.6	6.5
	-10	-11	7.3	7.2	7.1	7.0	7.0
	-7	-8	7.8	7.7	7.6	7.4	7.2
	-5	-6	8.2	8.1	8.0	7.7	7.5
	-3	-4	8.6	8.5	8.4	8.1	7.7
	0	-1	9.0	8.9	8.8	8.4	8.0
	3	2.2	9.4	9.3	9.2	8.8	8.4
	5	4.1	9.9	9.7	9.6	9.0	8.4
	7	6	10.3	10.1	10.0	9.2	8.4
	9	7.9	10.6	10.3	10.0	9.2	8.4
	11	9.8	10.9	10.5	10.0	9.2	8.4
	13	12	11.2	10.6	10.0	9.2	8.4
	15	14	11.6	10.8	10.0	9.2	8.4
112	-20	-21	7.4	7.4	7.3	7.3	7.3
	-17	-18	8.0	7.8	7.6	7.5	7.4
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	9.2	9.0
	-5	-6	10.2	10.1	9.9	9.6	9.3
	-3	-4	10.7	10.6	10.5	10.1	9.7
	0	-1	11.3	11.1	11.1	10.5	10.0
	3	2.2	11.8	11.6	11.5	11.0	10.6
	5	4.1	12.3	12.2	12.0	11.3	10.6
	7	6	12.9	12.7	12.5	11.5	10.6
	9	7.9	13.3	12.9	12.5	11.5	10.6
	11	9.8	13.7	13.1	12.5	11.5	10.6
	13	12	14.0	13.3	12.5	11.5	10.6
	15	14	14.4	13.5	12.5	11.5	10.6
128	-20	-21	8.1	8.1	8.0	8.0	8.0
	-17	-18	8.7	8.5	8.4	8.3	8.1
	-15	-16	9.2	9.0	8.7	8.5	8.2
	-12	-13	9.7	9.5	9.3	9.1	8.9
	-10	-11	10.1	10.0	9.9	9.7	9.6
	-7	-8	10.7	10.6	10.4	10.2	10.0
	-5	-6	11.3	11.1	11.0	10.7	10.3
	-3	-4	11.9	11.7	11.5	11.1	10.7
	0	-1	12.4	12.3	12.1	11.6	11.0
	3	2.2	13.0	12.9	12.7	12.2	11.7
	5	4.1	13.6	13.4	13.2	12.4	11.7
	7	6	14.2	14.0	13.8	12.7	11.7
	9	7.9	14.6	14.2	13.8	12.7	11.7
	11	9.8	15.1	14.4	13.8	12.7	11.7
	13	12	15.5	14.7	13.8	12.7	11.7
	15	14	15.9	14.9	13.8	12.7	11.7
140	-20	-21	9.5	9.5	9.4	9.4	9.3
	-17	-18	10.1	9.9	9.6	9.6	9.4
	-15	-16	10.7	10.4	10.1	9.8	9.5
	-12	-13	11.2	11.0	10.8	10.6	10.3
	-10	-11	11.7	11.6	11.4	11.3	11.1
	-7	-8	12.4	12.2	12.1	11.8	11.5
	-5	-6	13.1	12.9	12.7	12.3	12.0
	-3	-4	13.8	13.6	13.4	12.9	12.4
	0	-1	14.4	14.2	14.0	13.4	12.8
	3	2.2	15.1	14.9	14.7	14.1	13.5
	5	4.1	15.8	15.6	15.3	14.4	13.5
	7	6	16.5	16.2	16.0	14.8	13.5
	9	7.9	17.0	16.5	16.0	14.8	13.5
	11	9.8	17.5	16.7	16.0	14.8	13.5
	13	12	18.0	17.0	16.0	14.8	13.5
	15	14	18.5	17.2	16.0	14.8	13.5
160	-19.8	-20.0	14.6	14.1	13.3	12.6	12.2
	-16.7	-17.0	15.1	14.5	13.7	13.3	13.2
	-14.7	-15.0	15.7	15.0	14.2	13.8	13.6
	-12.6	-13.0	16.4	15.7	14.9	14.4	14.2
	-10.5	-11.0	17.5	16.8	15.9	15.2	15.0
	-7.0	-7.6	18.3	17.6	16.6	16.1	15.8
	-5.0	-5.6	18.9	18.1	17.1	16.7	16.3
	-3.0	-3.7	19.3	18.6	17.5	17.4	16.6
	0.0	-0.7	19.7	19.1	17.9	17.5	17.1
	3.0	2.2	20.2	19.4	18.0	17.6	17.0
	5.0	4.1	20.4	19.4	18.0	17.6	17.0
	7.0	6.0	20.7	19.4	18.0	17.6	17.0
	9.0	7.9	20.7	19.4	18.0	17.6	17.0
	11.0	9.8	20.7	19.4	18.0	17.6	17.0
	13.0	11.8	20.7	19.4	18.0	17.6	17.0
	15.0	13.7	20.7	19.4	18.0	17.6	17.0

# 3 Dimensional Drawing

## MSP Duct

AM022/028/036\*NMDEH/EU

[ Unit : mm ]



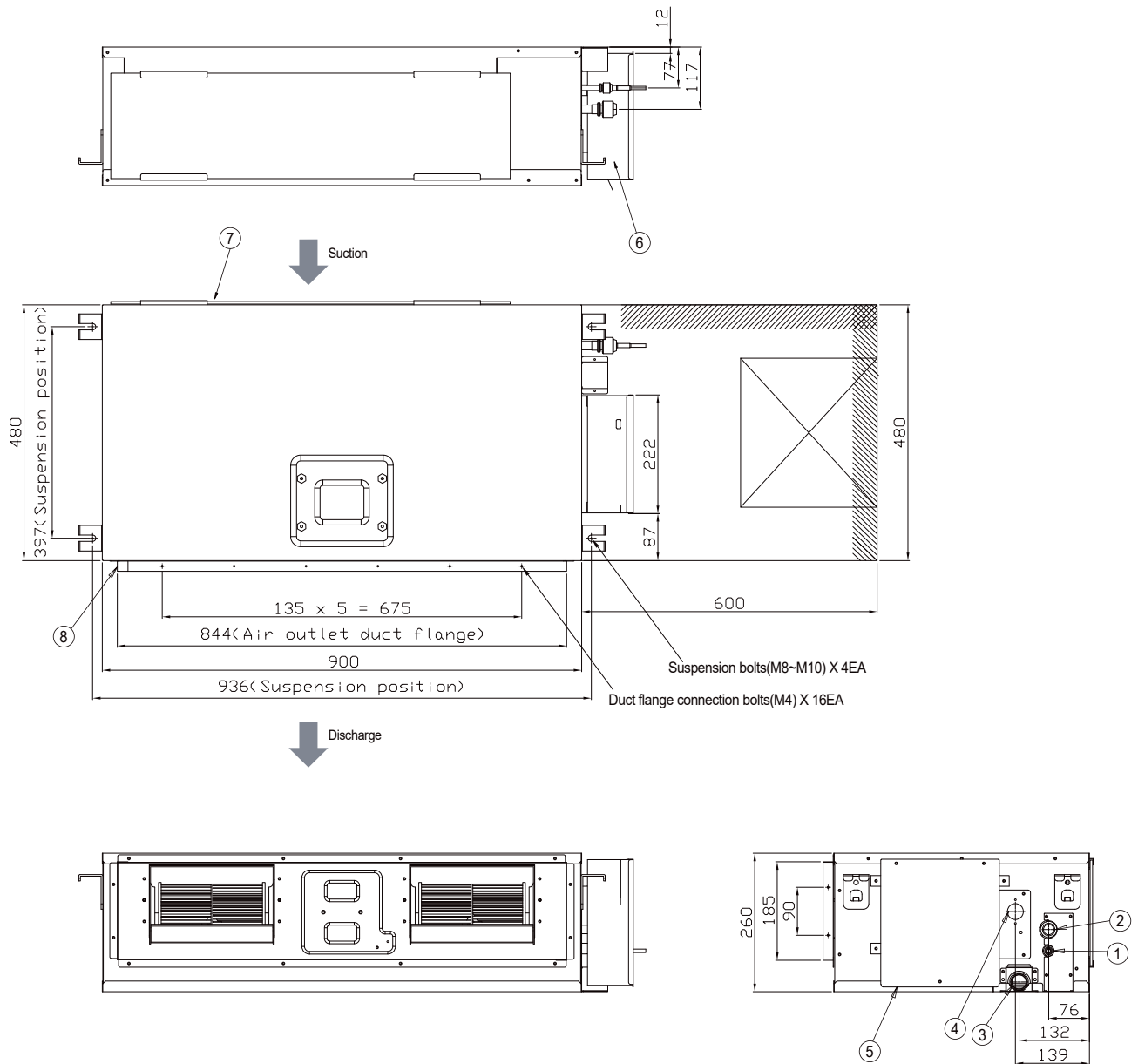
No.	Name	Description		
		2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare		
②	Gas pipe connection	Ø12.70 Flare		
③	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)		
④	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit for power supply & communication wiring	-		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

# 3 Dimensional Drawing

## MSP Duct

AM045/056/071\*NMDEH/EU

[ Unit : mm ]



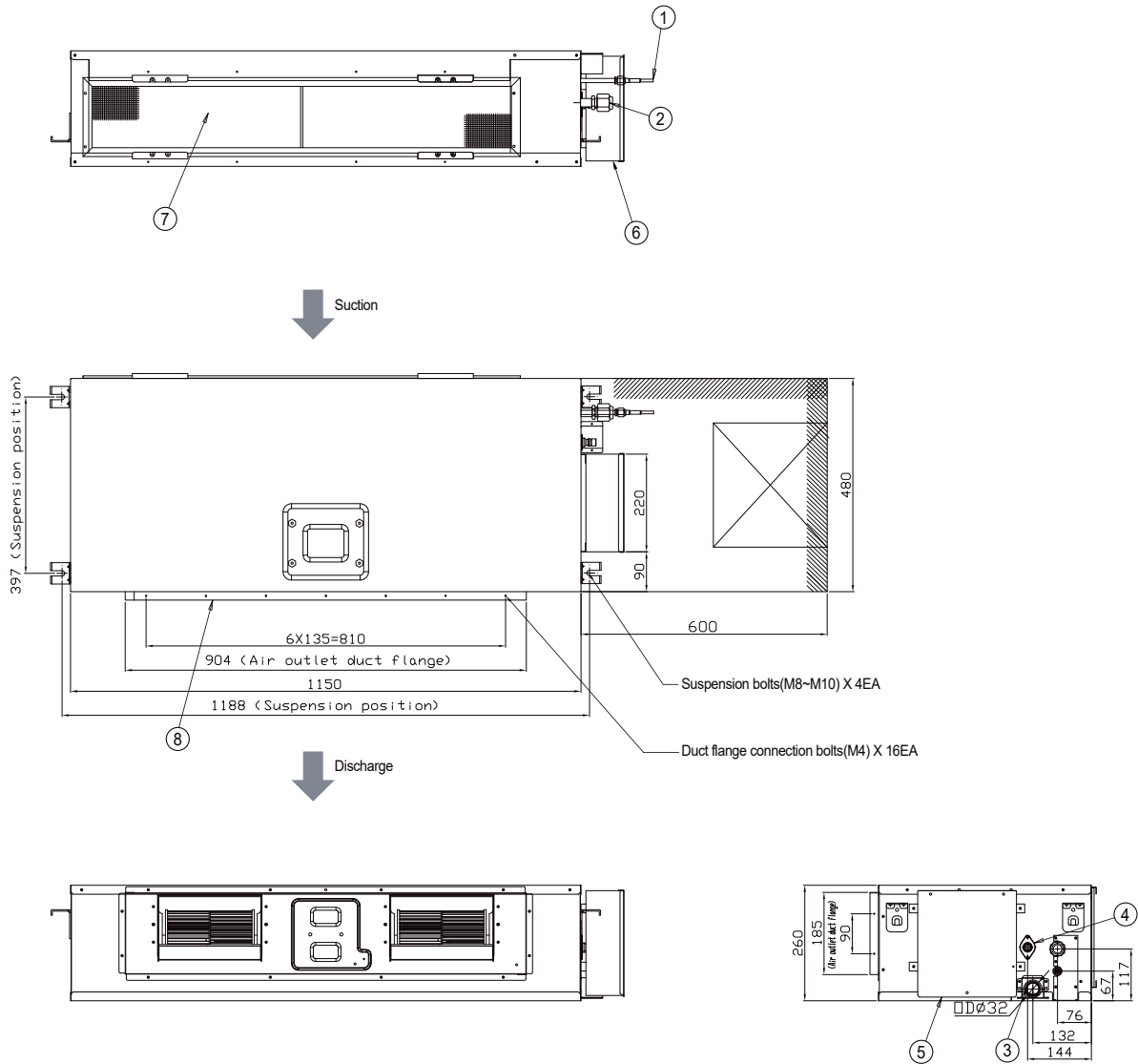
No.	Name	Description		
		4.5kW	5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare		Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare		Ø15.88 Flare
③	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)		
④	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit for power supply & communication wiring	-		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

# 3 Dimensional Drawing

## MSP Duct

AM090\*NMDEH/EU

[ Unit : mm ]



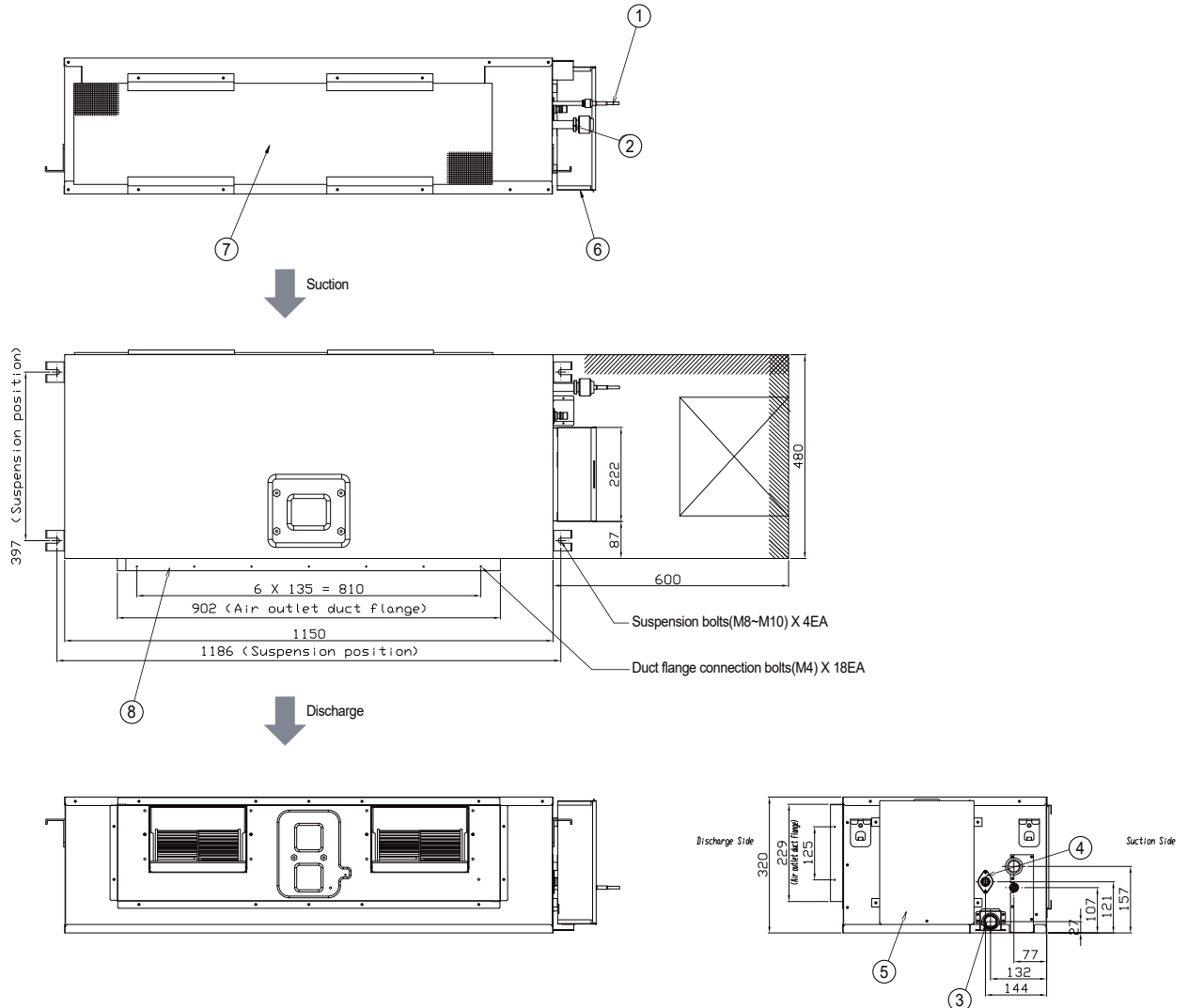
No.	Name	Description
		9.0kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
④	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

# 3 Dimensional Drawing

## MSP Duct

AM112\*NMDEH/EU

[ Unit : mm ]



No.	Name	Description
		11.2kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
④	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

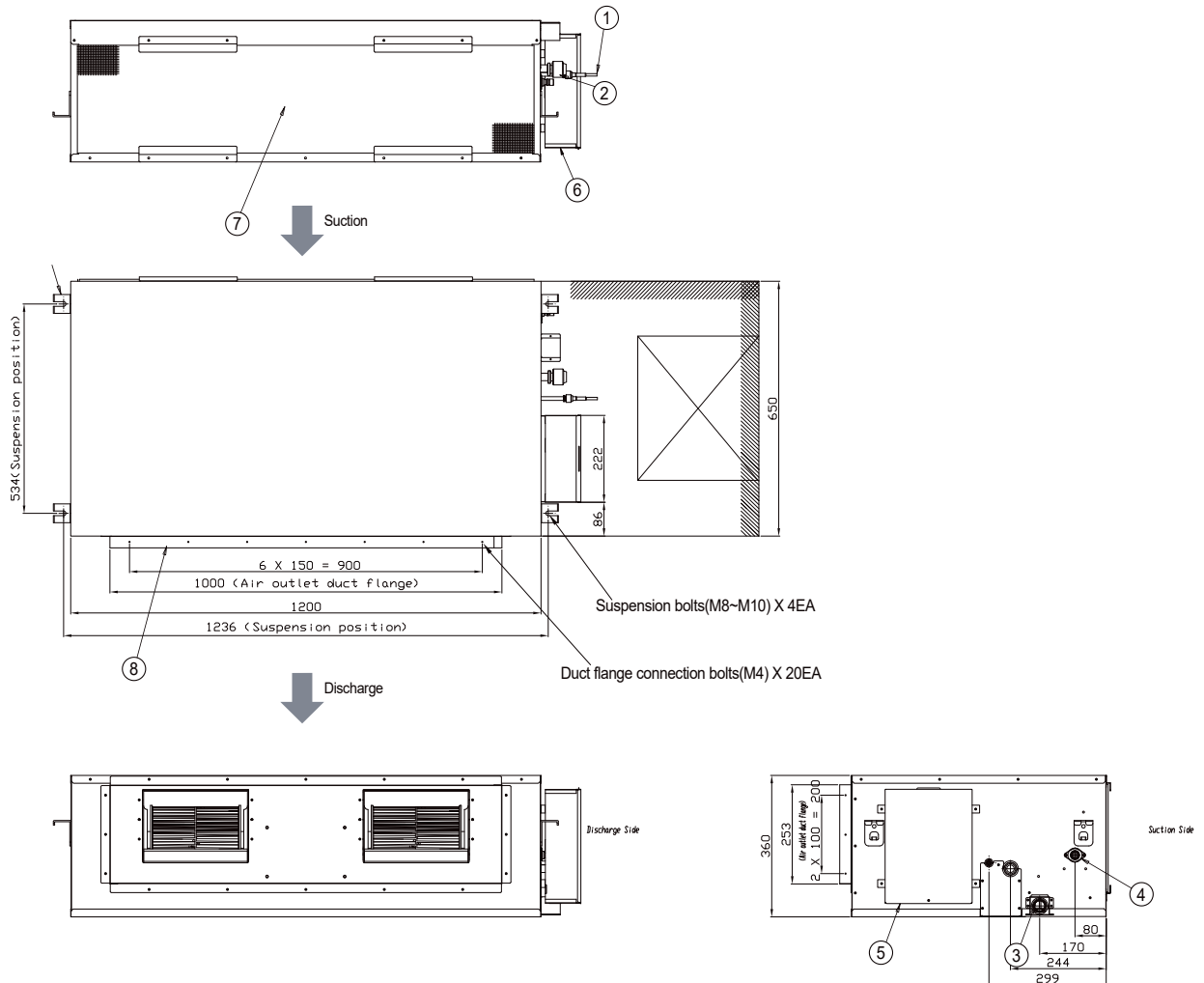


# 3 Dimensional Drawing

## MSP Duct

AM128/140/160\*NMDEH\*EU

[ Unit : mm ]

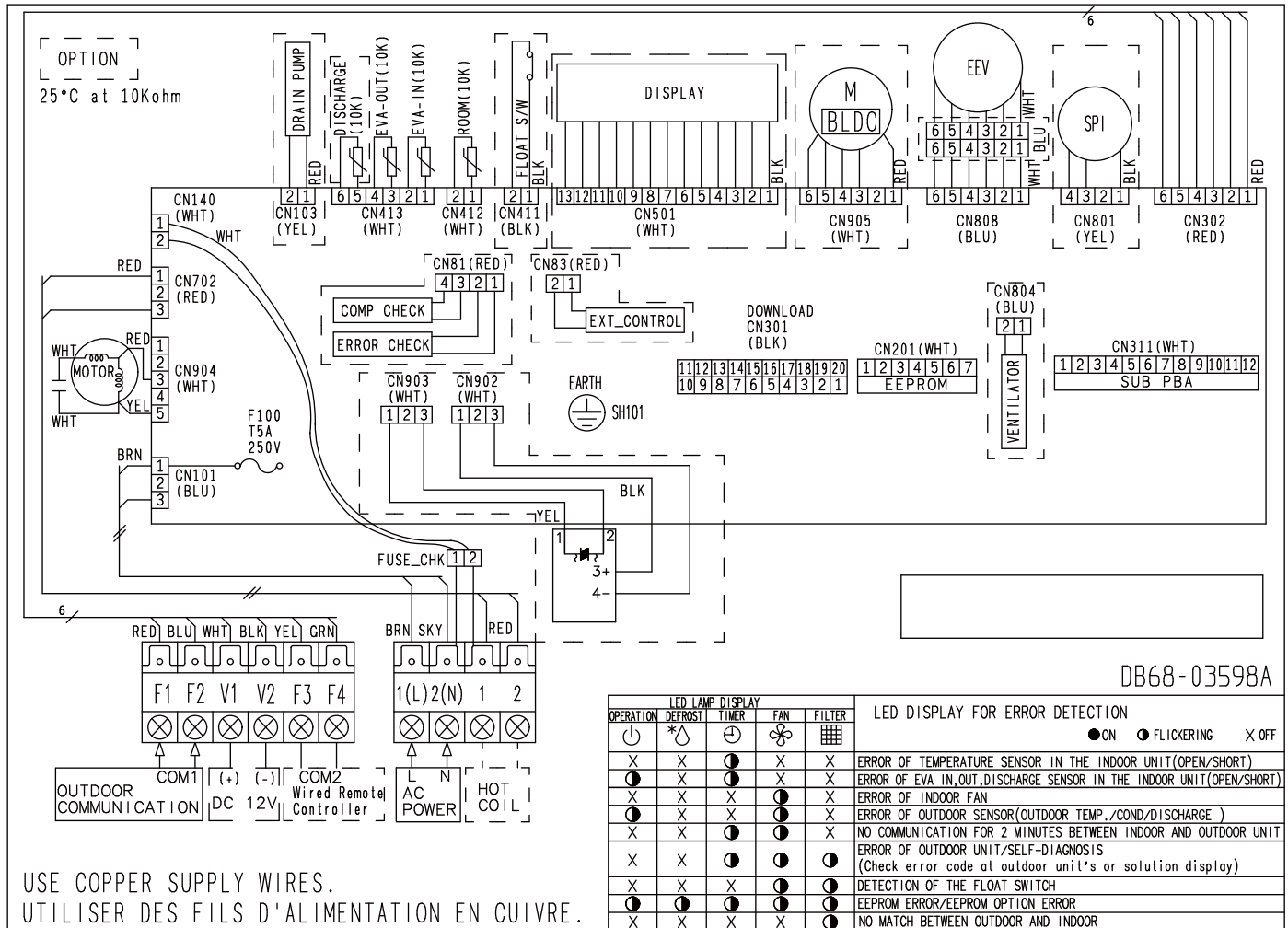


No.	Name	Description		
		12.8kW	14.0kW	16.0kW
①	Liquid pipe connection	Ø9.52 Flare		
②	Gas pipe connection	Ø15.88 Flare		
③	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)		
④	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit for power supply & communication wiring	-		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

# 4 Electrical Wiring Diagram

## MSP Duct

AM022/028/036/045/056/071/090/112/128/140/160\*NMDEH\*EU



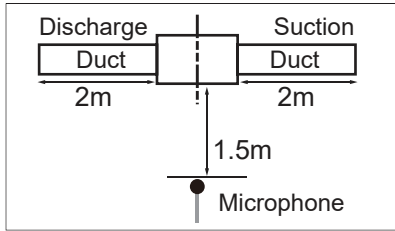
ROOM(10K)	Thermistor ROOM(10K)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

### NOTE

- This wiring diagram applies only to the indoor unit.
- Symbols show as follow;  
BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
- ⊕: Protective earth(screw), □□□□: Connector, n: The wire quantity

# 5 Sound Pressure Level

## MSP Duct



Unit: dB(A)

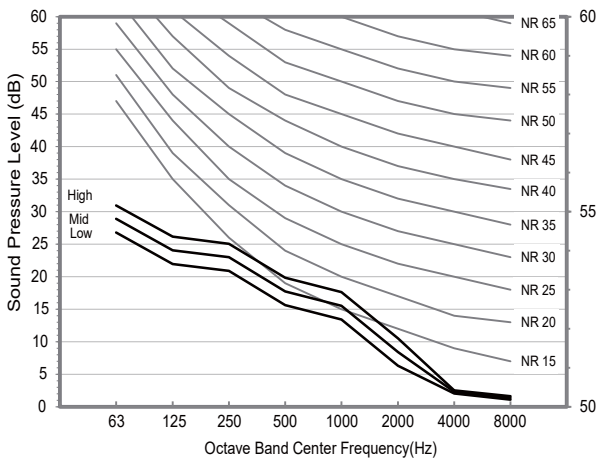
Model	High	Low
AM022*NMDEH/EU	23	19
AM028*NMDEH/EU	24	19
AM036*NMDEH/EU	29	24
AM045*NMDEH/EU	32	28

### Note

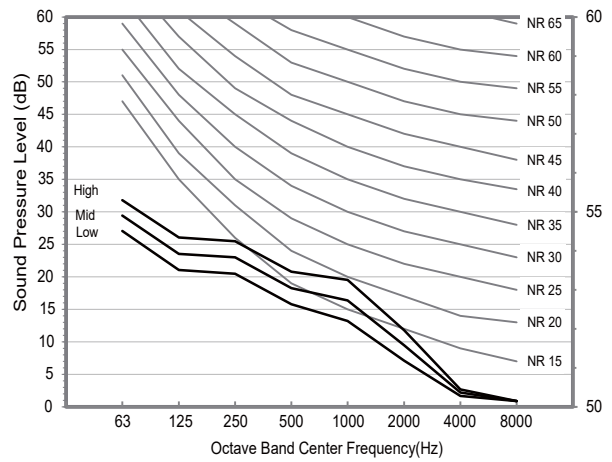
Specifications may be subject to change without prior notice.  
 Sound pressure level is obtained in an anechoic room.  
 Sound pressure level is a relative value, depending on the distance and acoustic environment.  
 Sound pressure level may differ depending on operation condition.  
 dBA = A-weighted sound pressure level  
 Reference acoustic pressure 0 dB= 20 uPa

## NR curve

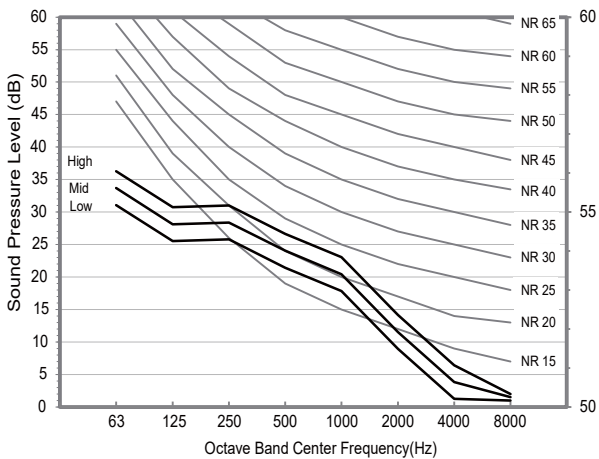
1) AM022\*NMDEH/EU



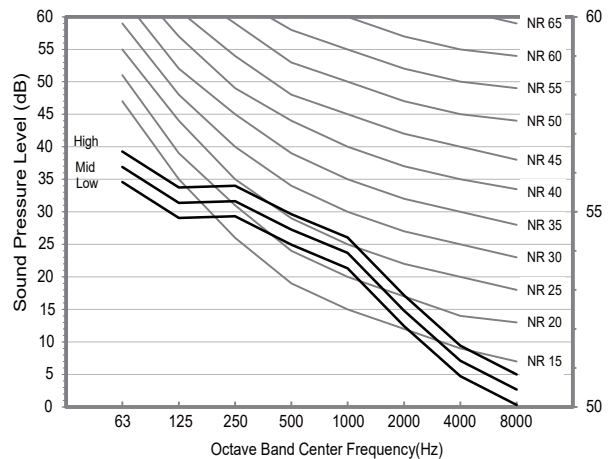
2) AM028\*NMDEH/EU



3) AM036\*NMDEH/EU

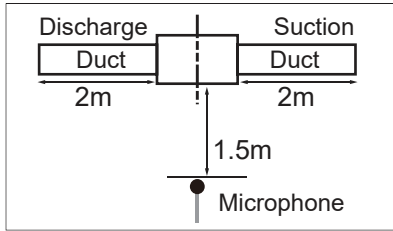


4) AM045\*NMDEH/EU



# 5 Sound Pressure Level

## MSP Duct



Unit: dB(A)

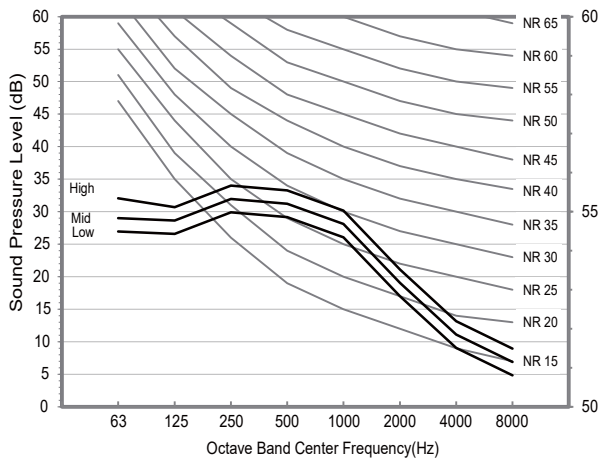
Model	High	Low
AM056*NMDEH/EU	35	31
AM071*NMDEH/EU	39	31
AM090*NMDEH/EU	40	34
AM112*NMDEH/EU	41	38

### Note

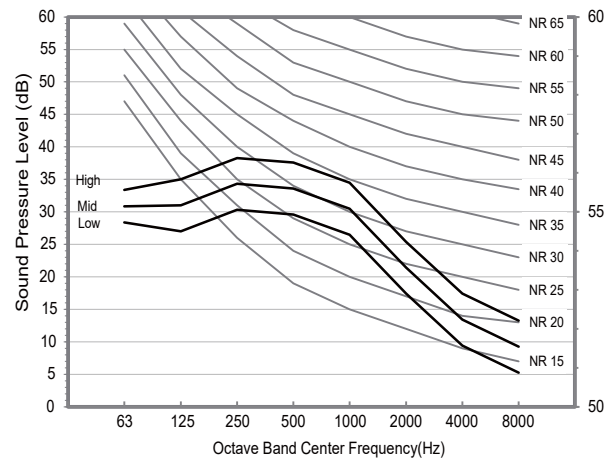
Specifications may be subject to change without prior notice.  
 Sound pressure level is obtained in an anechoic room.  
 Sound pressure level is a relative value, depending on the distance and acoustic environment.  
 Sound pressure level may differ depending on operation condition.  
 dBA = A-weighted sound pressure level  
 Reference acoustic pressure 0 dB= 20 uPa

## NR curve

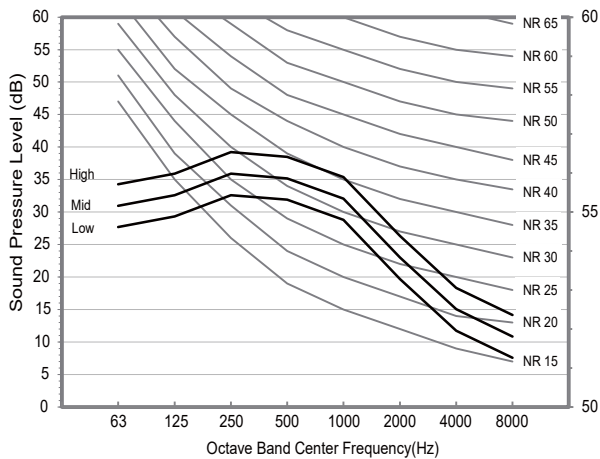
5) AM056\*NMDEH/EU



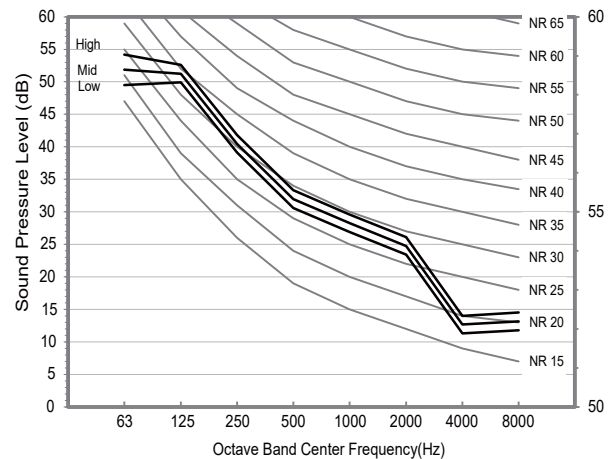
6) AM071\*NMDEH/EU



7) AM090\*NMDEH/EU

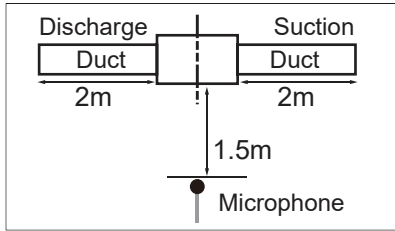


8) AM112\*NMDEH/EU



# 5 Sound Pressure Level

## MSP Duct



Unit: dB(A)

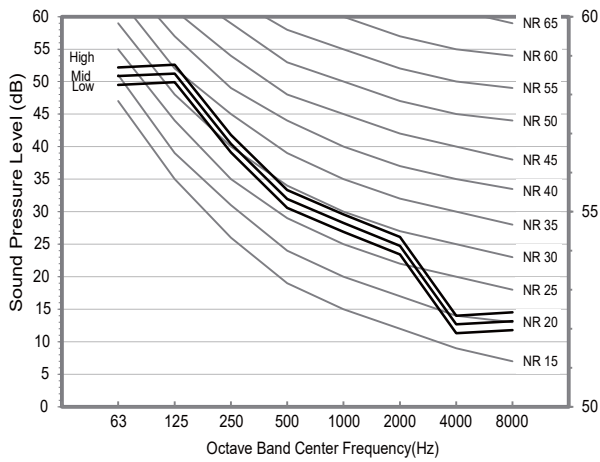
Model	High	Low
AM128*NMDEH/EU	41	38
AM140*NMDEH/EU	42	36
AM160*NMDEH*EU	43	36

### Note

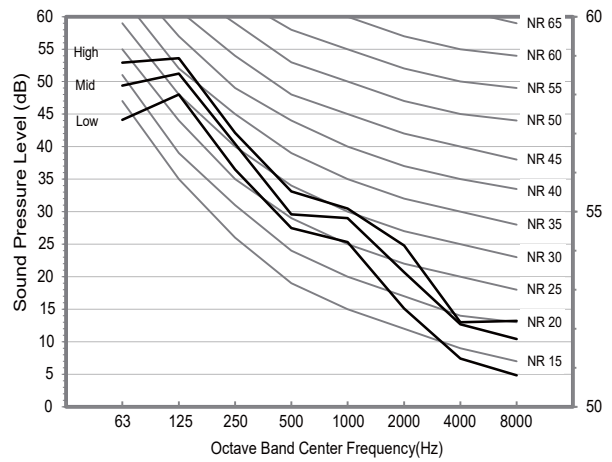
Specifications may be subject to change without prior notice.  
 Sound pressure level is obtained in an anechoic room.  
 Sound pressure level is a relative value, depending on the distance and acoustic environment.  
 Sound pressure level may differ depending on operation condition.  
 dBA = A-weighted sound pressure level  
 Reference acoustic pressure 0 dB= 20 uPa

## NR curve

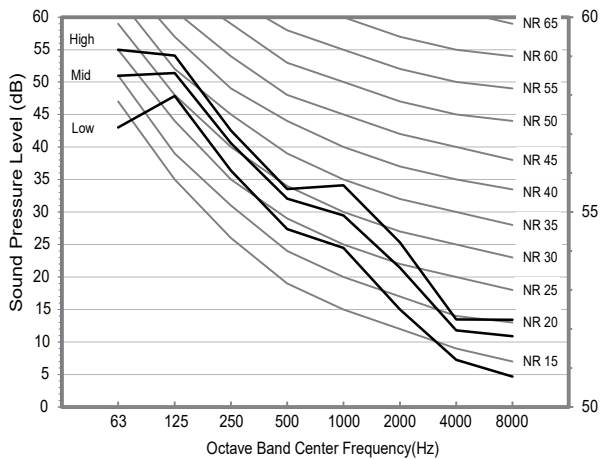
9) AM128\*NMDEH/EU



10) AM140\*NMDEH/EU



11) AM160KNMDEH\*EU



# 6 Sound Power Level

## MSP Duct

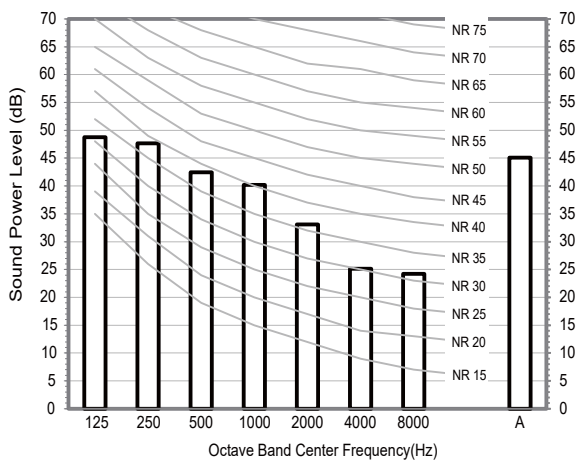
Unit: dB(A)

Model	Power
AM022*NMDEH/EU	47
AM028*NMDEH/EU	48
AM036*NMDEH/EU	53
AM045*NMDEH/EU	54

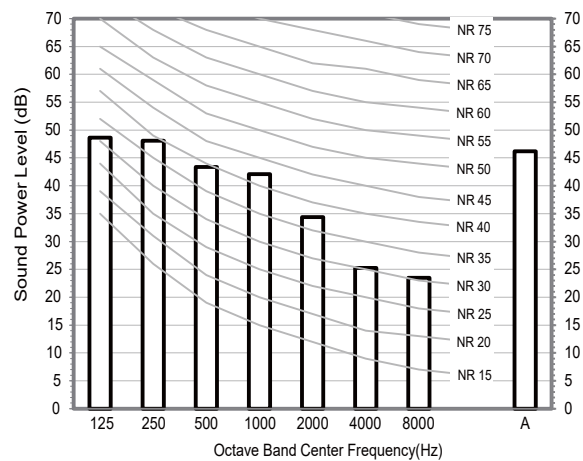
### Note

- . Specifications may be subject to change without prior notice.
- . Sound power level is an absolute value that a sound source generates.
- . dBA = A-weighted sound power level.
- . Reference power : 1pW.
- . Measured according to ISO 3741

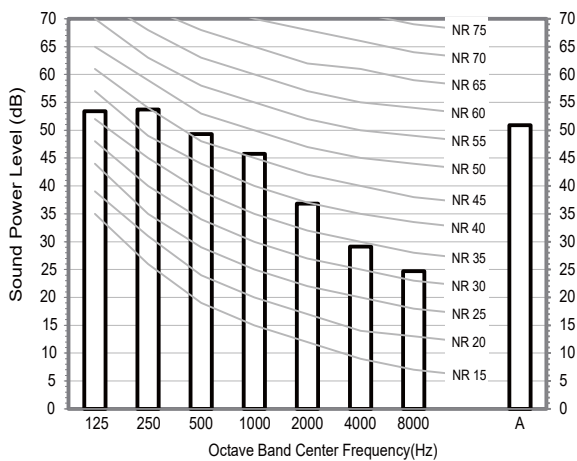
1) AM022\*NMDEH/EU



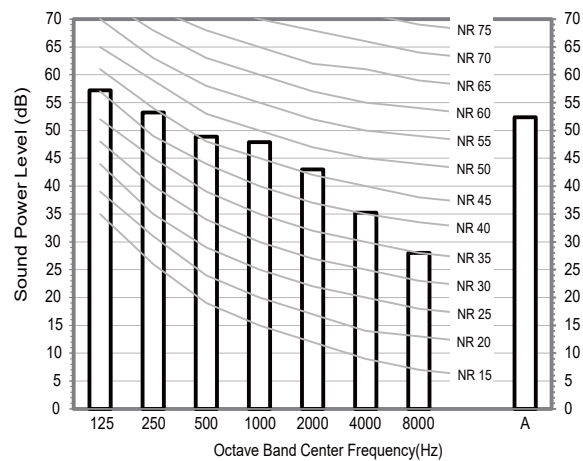
2) AM028\*NMDEH/EU



3) AM036\*NMDEH/EU



4) AM045\*NMDEH/EU



# 6 Sound Power Level

## MSP Duct

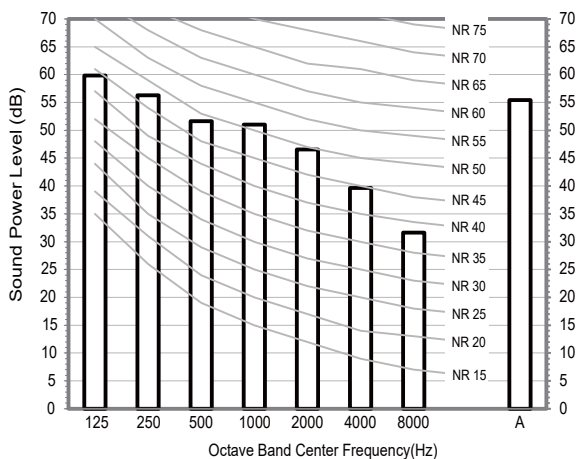
Unit: dB(A)

Model	Power
AM056*NMDEH/EU	57
AM071*NMDEH/EU	61
AM090*NMDEH/EU	63
AM112*NMDEH/EU	66

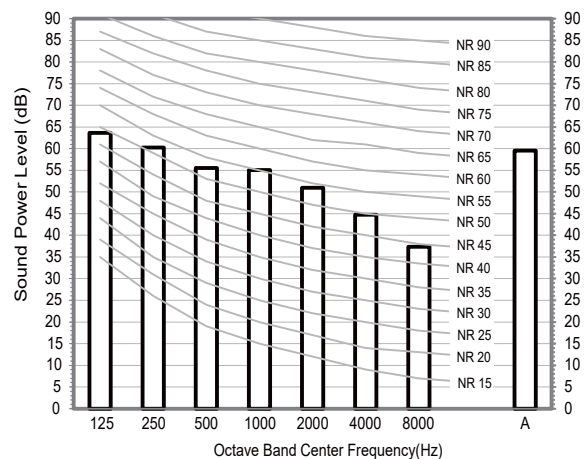
### Note

- . Specifications may be subject to change without prior notice.
- . Sound power level is an absolute value that a sound source generates.
- . dBA = A-weighted sound power level.
- . Reference power : 1pW.
- . Measured according to ISO 3741

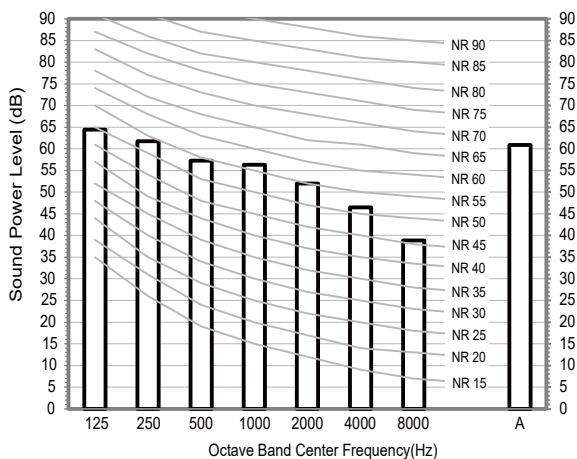
5) AM056\*NMDEH/EU



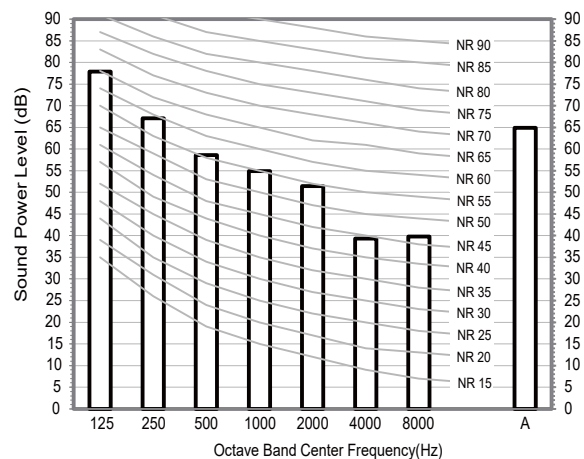
6) AM071\*NMDEH/EU



7) AM090\*NMDEH/EU



8) AM112\*NMDEH/EU



# 6 Sound Power Level

## MSP Duct

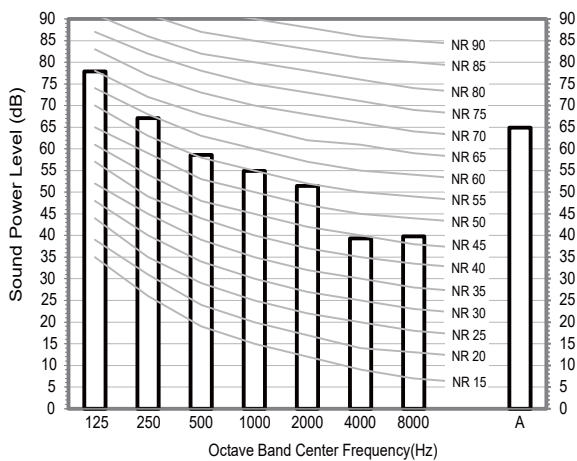
Unit: dB(A)

Model	Power
AM128*NMDEH/EU	66
AM140*NMDEH/EU	68
AM160KNMDEH*EU	69

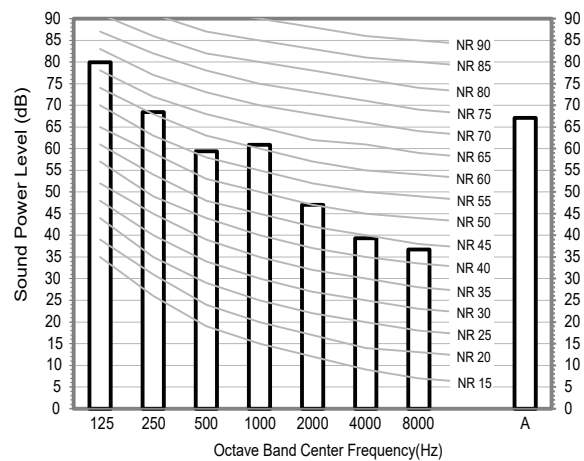
### Note

- . Specifications may be subject to change without prior notice.
- . Sound power level is an absolute value that a sound source generates.
- . dBA = A-weighted sound power level.
- . Reference power : 1pW.
- . Measured according to ISO 3741

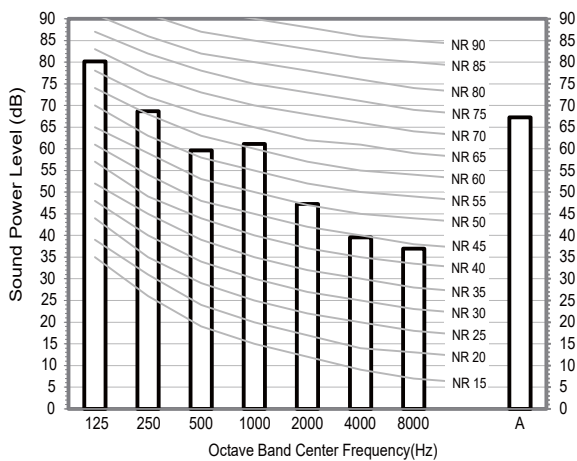
9) AM128\*NMDEH/EU



10) AM140\*NMDEH/EU



11) AM160KNMDEH\*EU



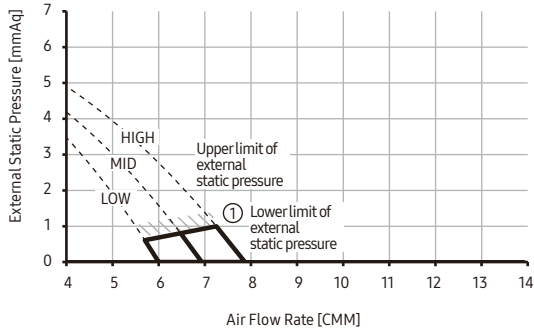


# 7 Fan Characteristics

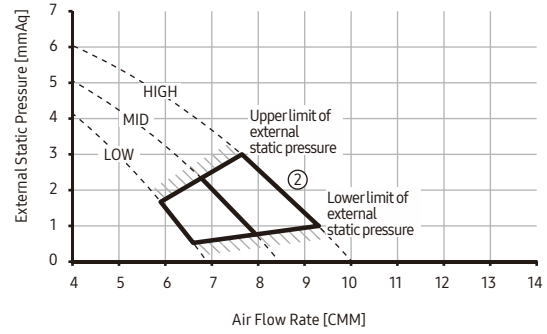
## MSP Duct

### 1) AM022\*NMDEH/EU

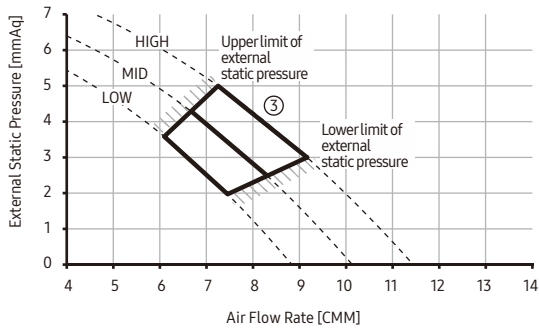
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1$	010054-1350B6-201616-331110



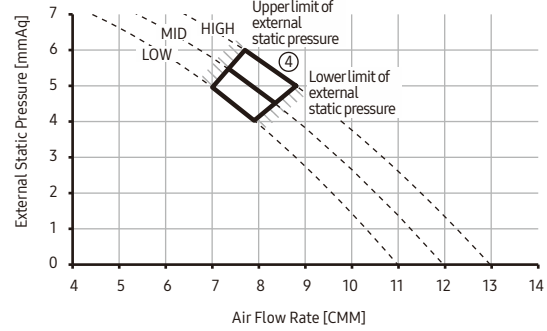
②	External Static Pressure(mmAq)	Option Code
	$1 < SP \leq 3$	010054-1350EA-201616-331110



③	External Static Pressure(mmAq)	Option Code
	$3 < SP \leq 5$	010054-13541E-201616-331110



④	External Static Pressure(mmAq)	Option Code
	$5 < SP \leq 6$	010054-1355E4-201616-331110



### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

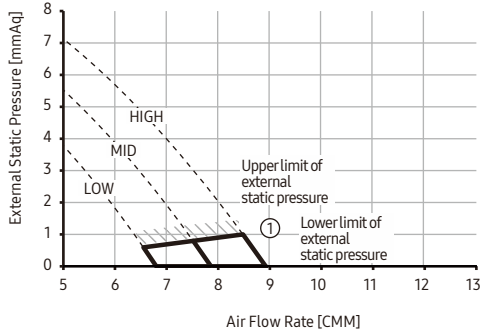
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

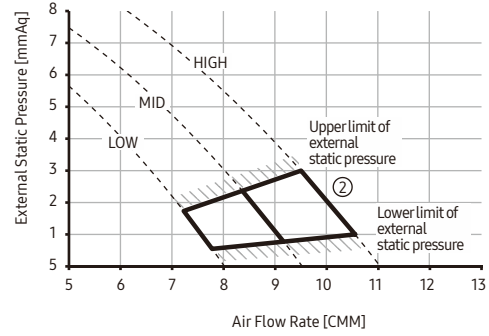
## MSP Duct

### 2) AM028\*NMDEH/EU

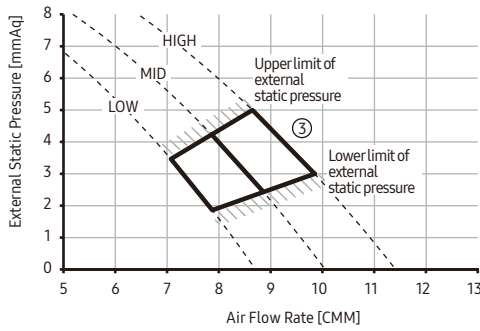
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1$	010054-1350E8-201C1C-331110



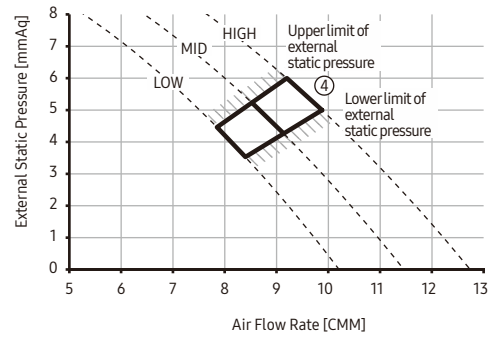
②	External Static Pressure(mmAq)	Option Code
	$1 < SP \leq 3$	010054-13542C-201C1C-331110



③	External Static Pressure(mmAq)	Option Code
	$3 < SP \leq 5$	010054-135562-201C1C-331110



④	External Static Pressure(mmAq)	Option Code
	$5 < SP \leq 6$	010054-1359A9-201C1C-331110



### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

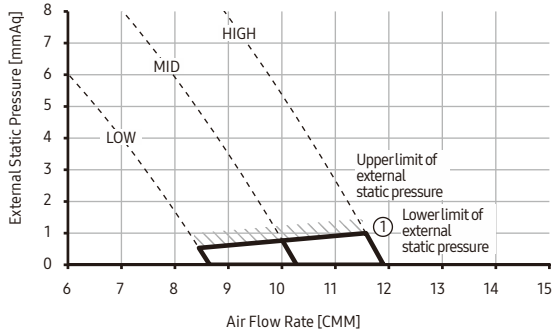
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

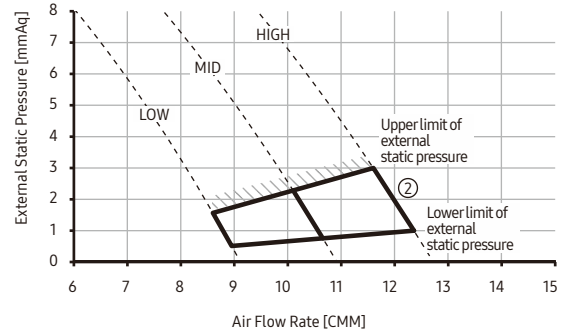
## MSP Duct

### 3) AM036\*NMDEH/EU

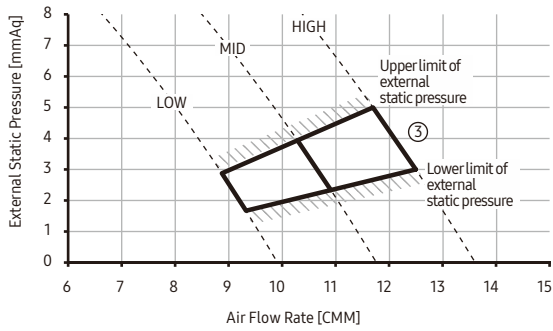
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1$	010054-1350EA-202424-331110



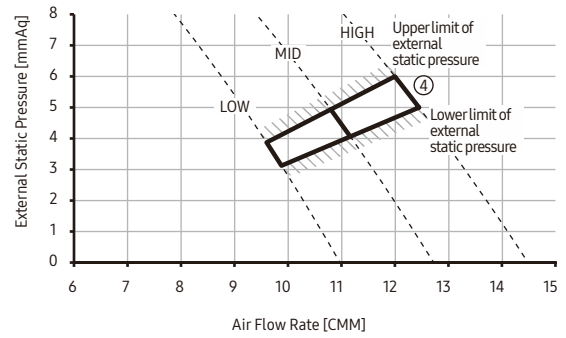
②	External Static Pressure(mmAq)	Option Code
	$1 < SP \leq 3$	010054-1350F8-202424-331110



③	External Static Pressure(mmAq)	Option Code
	$3 < SP \leq 5$	010054-13542C-202424-331110



④	External Static Pressure(mmAq)	Option Code
	$5 < SP \leq 6$	010054-1354CF-202424-331110



### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

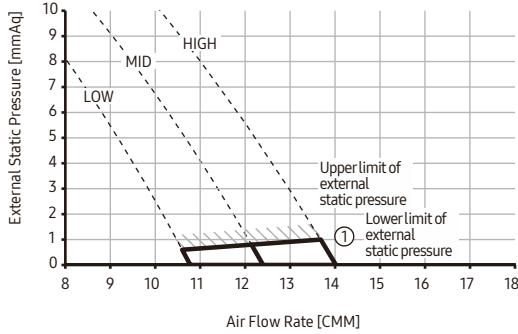
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

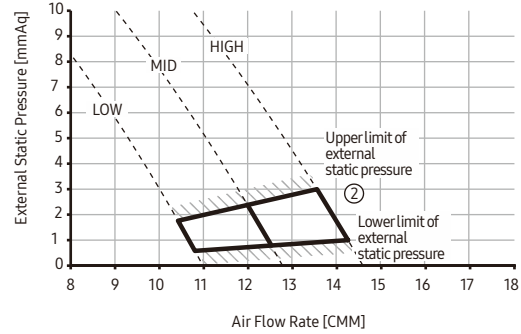
## MSP Duct

### 4) AM045\*NMDEH/EU

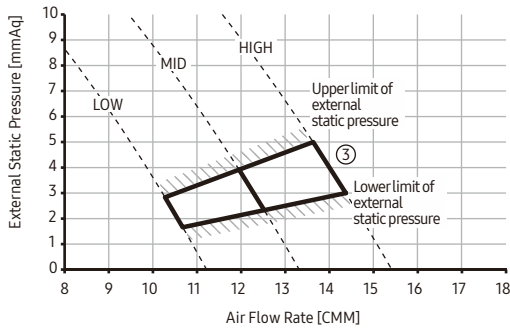
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1$	010054-125550-202D2D-331110



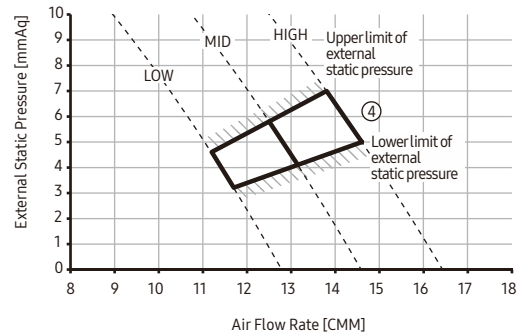
②	External Static Pressure(mmAq)	Option Code
	$1 < SP \leq 3$	010054-125571-202D2D-331110



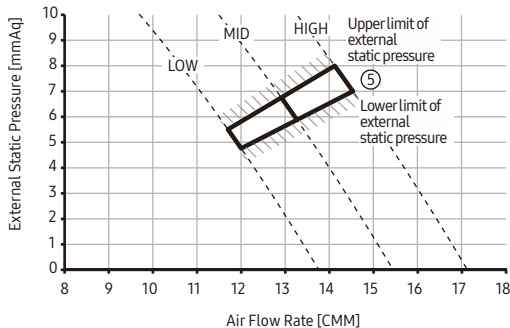
③	External Static Pressure(mmAq)	Option Code
	$3 < SP \leq 5$	010054-125583-202D2D-331110



④	External Static Pressure(mmAq)	Option Code
	$5 < SP \leq 7$	010054-1255A4-202D2D-331110



⑤	External Static Pressure(mmAq)	Option Code
	$7 < SP \leq 8$	010054-125906-202D2D-331110



#### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

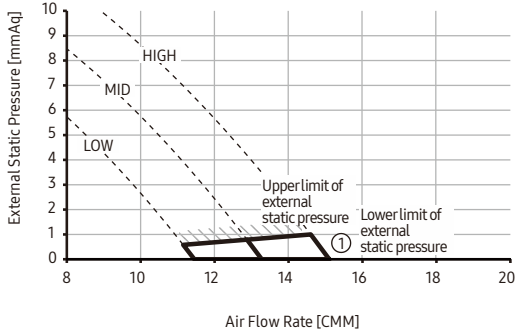
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

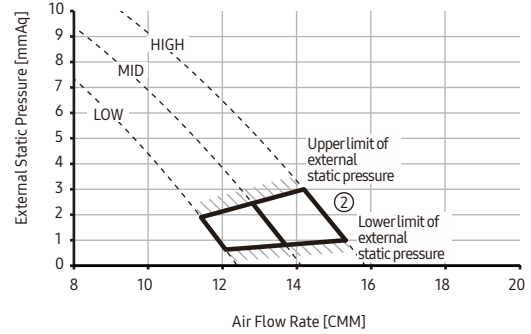
## MSP Duct

### 5) AM056\*NMDEH/EU

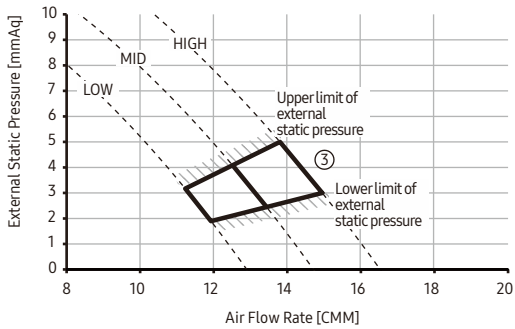
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1$	010054-125571-203838-331110



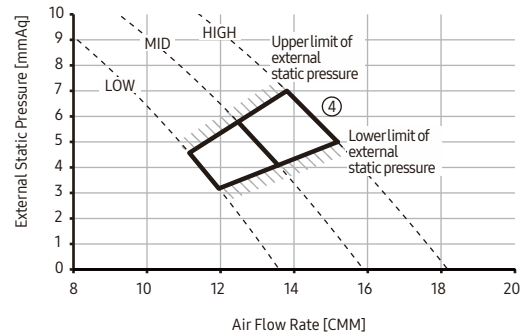
②	External Static Pressure(mmAq)	Option Code
	$1 < SP \leq 3$	010054-125593-203838-331110



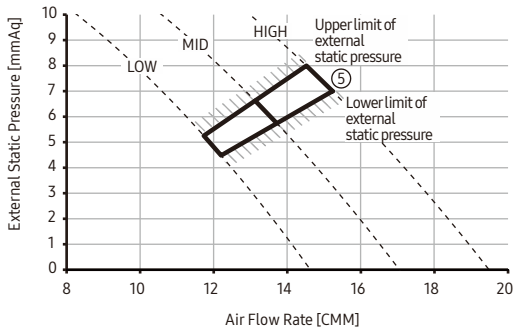
③	External Static Pressure(mmAq)	Option Code
	$3 < SP \leq 5$	010054-1255C5-203838-331110



④	External Static Pressure(mmAq)	Option Code
	$5 < SP \leq 7$	010054-1255F5-203838-331110



⑤	External Static Pressure(mmAq)	Option Code
	$7 < SP \leq 8$	010054-125957-203838-331110



### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

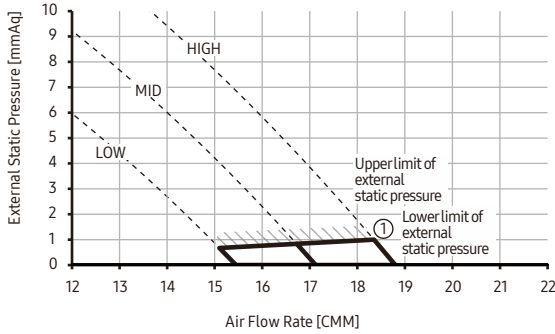
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

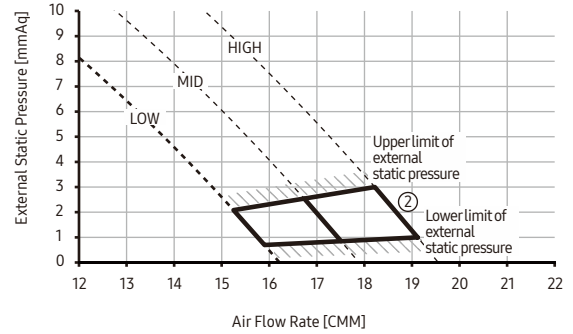
## MSP Duct

### 6) AM071\*NMDEH/EU

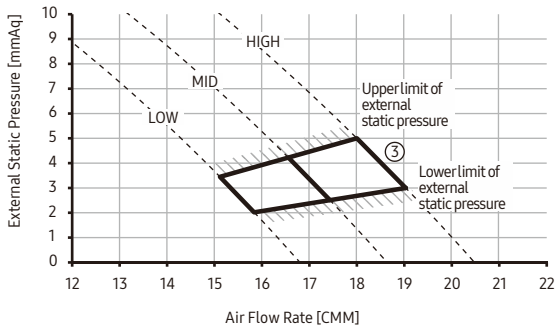
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1$	010054-125904-204747-331110



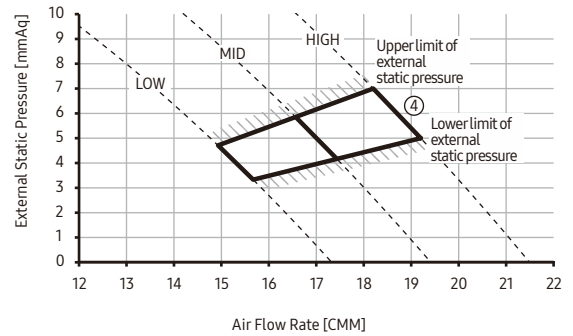
②	External Static Pressure(mmAq)	Option Code
	$1 < SP \leq 3$	010054-125936-204747-331110



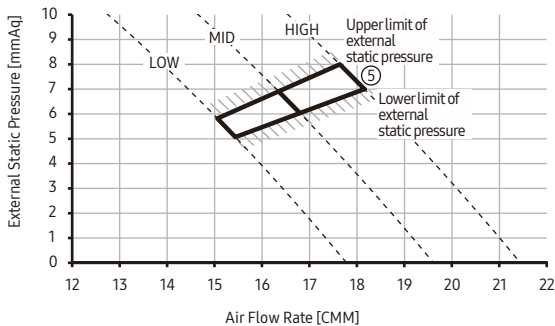
③	External Static Pressure(mmAq)	Option Code
	$3 < SP \leq 5$	010054-125979-204747-331110



④	External Static Pressure(mmAq)	Option Code
	$5 < SP \leq 7$	010054-125DF9-204747-331110



⑤	External Static Pressure(mmAq)	Option Code
	$7 < SP \leq 8$	010054-125DFC-204747-331110



#### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

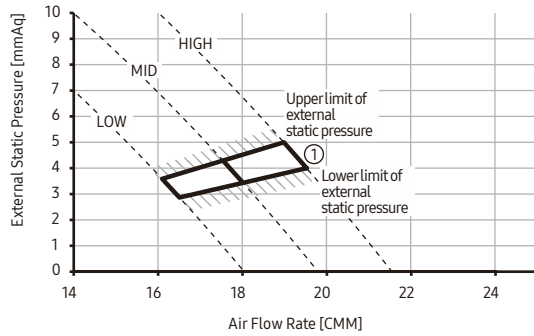
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

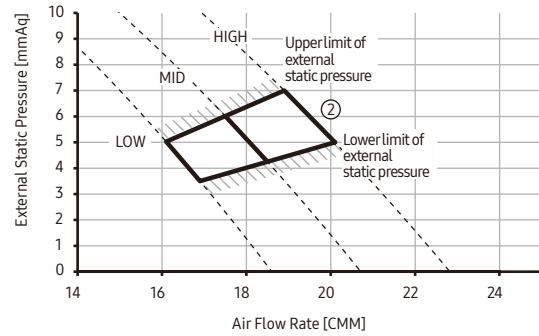
## MSP Duct

### 7) AM090\*NMDEH/EU

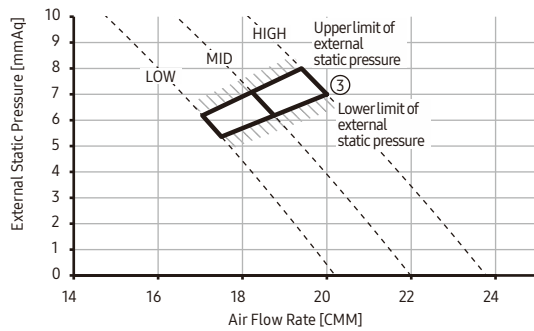
①	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 5	010054-125945-205A5A-331110



②	External Static Pressure(mmAq)	Option Code
	5 < SP ≤ 7	010054-125D29-205A5A-331110



③	External Static Pressure(mmAq)	Option Code
	7 < SP ≤ 8	010054-125DFD-205A5A-331110



### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

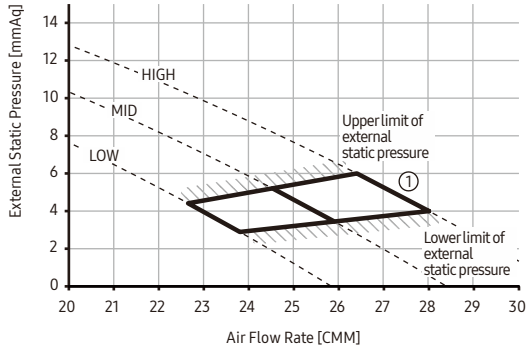
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

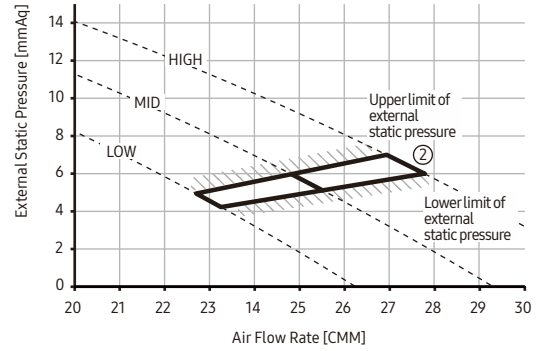
## MSP Duct

### 8) AM112\*NMDEH/EU

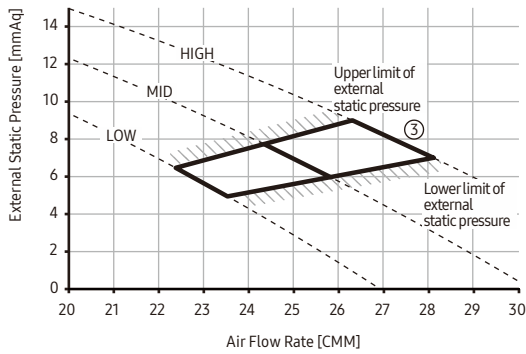
①	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 6	010054-122E04-207070-331110



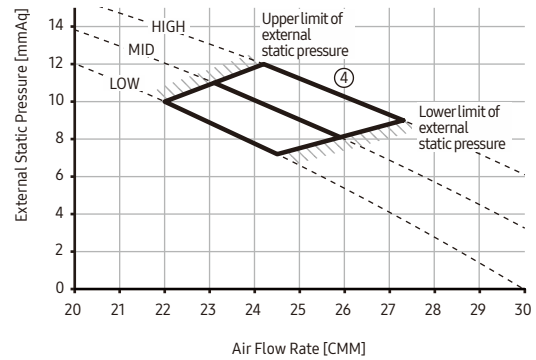
②	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 7	010054-122E26-207070-331110



③	External Static Pressure(mmAq)	Option Code
	7 < SP ≤ 9	010054-122EBB-207070-331110



④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 12	010054-122FF0-207070-331110



#### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

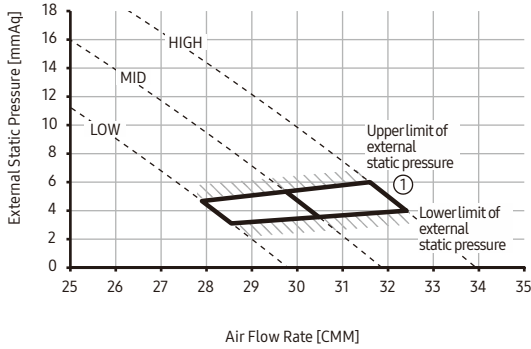


# 7 Fan Characteristics

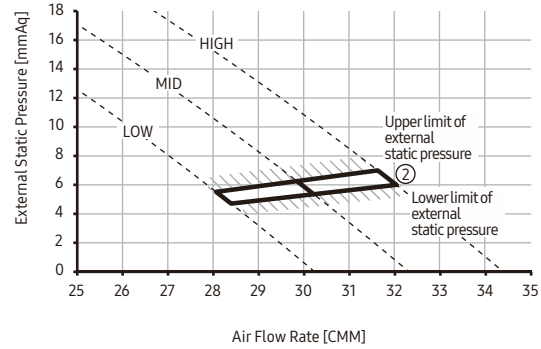
## MSP Duct

### 9) AM128\*NMDEH/EU

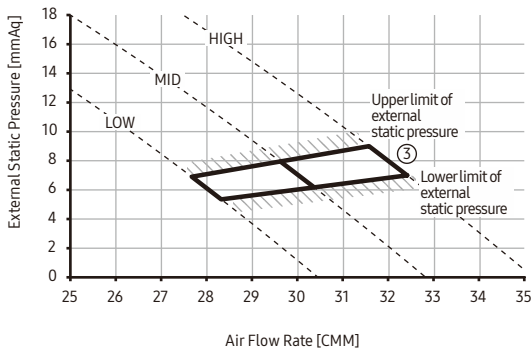
①	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 6	010054-12296C-208080-331110



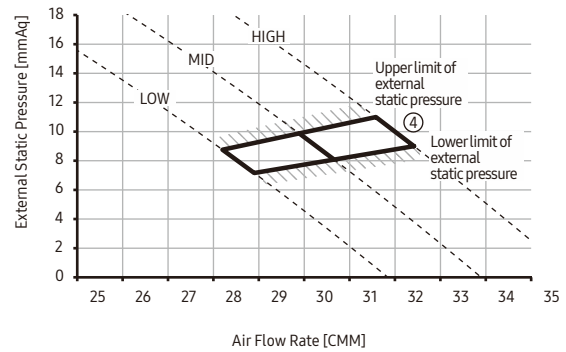
②	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 7	010054-12299E-208080-331110



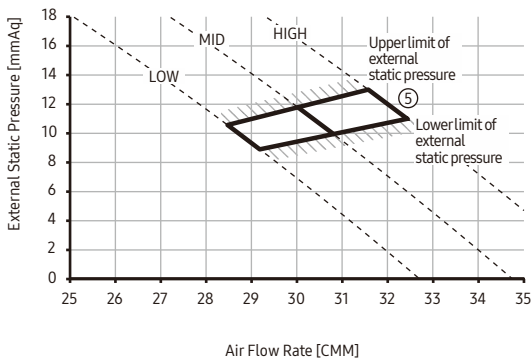
③	External Static Pressure(mmAq)	Option Code
	7 < SP ≤ 9	010054-122A80-208080-331110



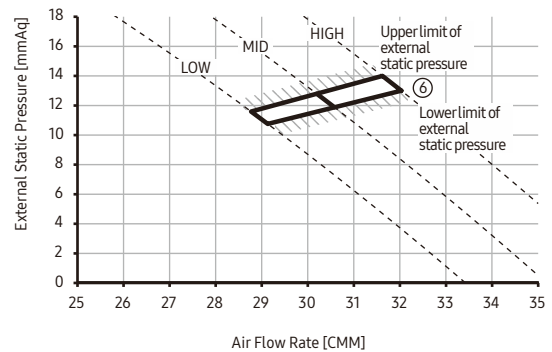
④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 11	010054-122AE2-208080-331110



⑤	External Static Pressure(mmAq)	Option Code
	11 < SP ≤ 13	010054-122E14-208080-331110



⑥	External Static Pressure(mmAq)	Option Code
	13 < SP ≤ 14	010054-122E36-208080-331110



#### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

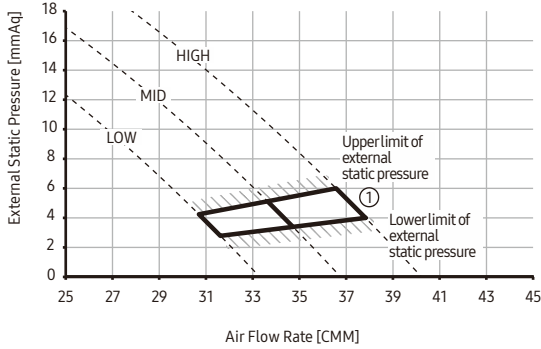
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

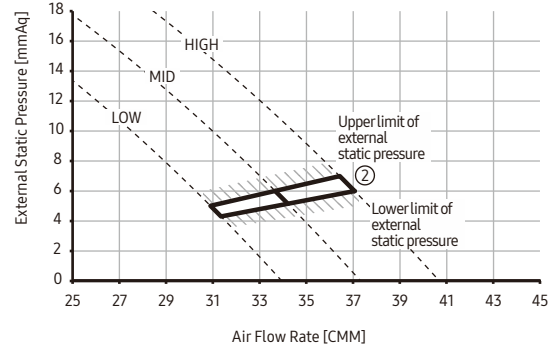
## MSP Duct

### 10) AM140\*NMDEH/EU

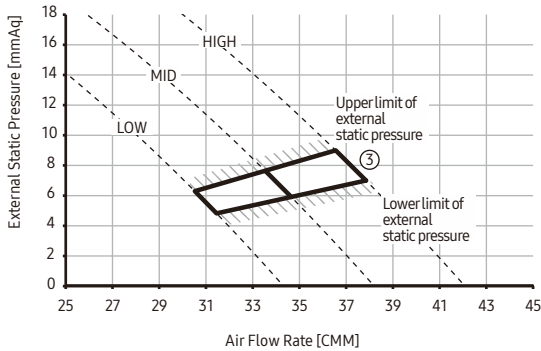
①	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 6	010054-1229CF-208C8C-331110



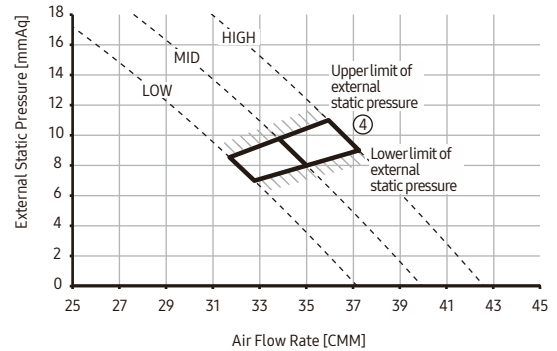
②	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 7	010054-122AF2-208C8C-331110



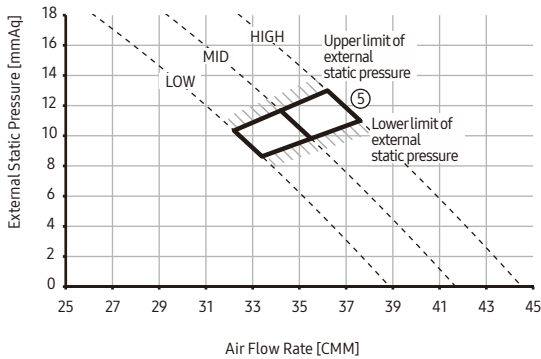
③	External Static Pressure(mmAq)	Option Code
	7 < SP ≤ 9	010054-122E24-208C8C-331110



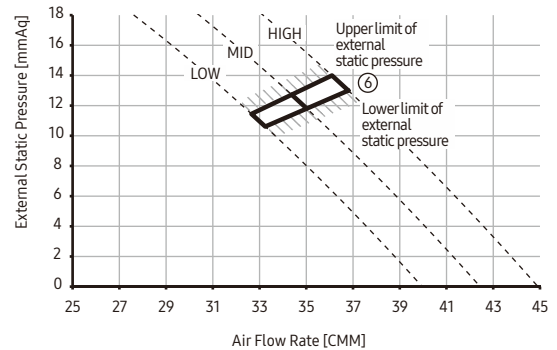
④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 11	010054-122E47-208C8C-331110



⑤	External Static Pressure(mmAq)	Option Code
	11 < SP ≤ 13	010054-122EAA-208C8C-331110



⑥	External Static Pressure(mmAq)	Option Code
	13 < SP ≤ 14	010054-122EFC-208C8C-331110



#### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

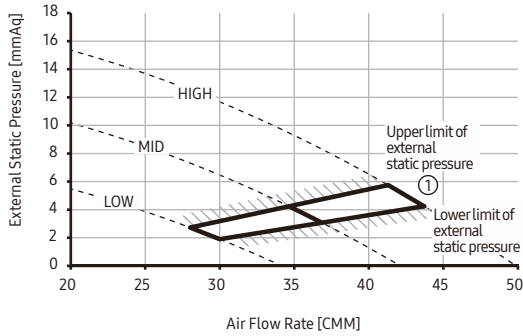
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

# 7 Fan Characteristics

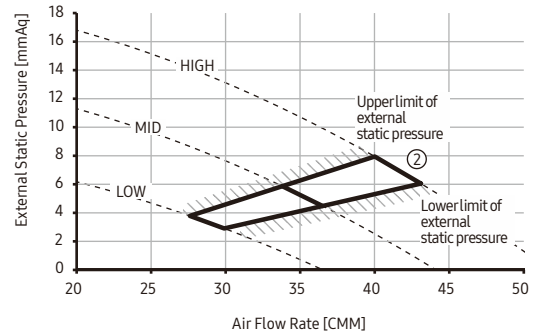
## MSP Duct

### 11) AM160KNMDEH\*EU

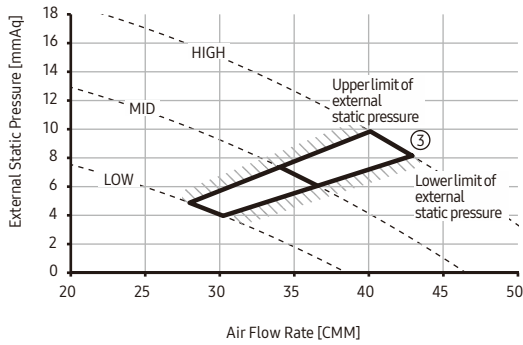
①	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 6	010054-125E79-20A0A0-331110



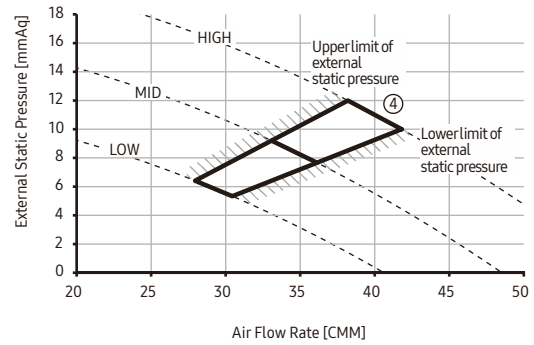
②	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 7	010054-125EAA-20A0A0-331110



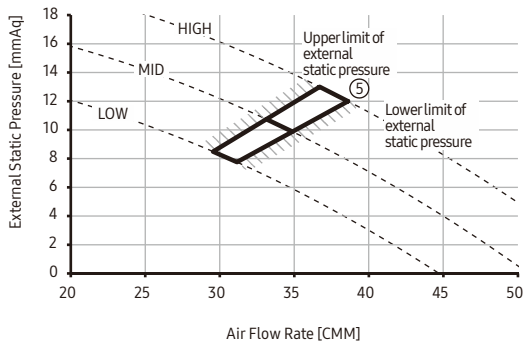
③	External Static Pressure(mmAq)	Option Code
	7 < SP ≤ 9	010054-125EDB-20A0A0-331110



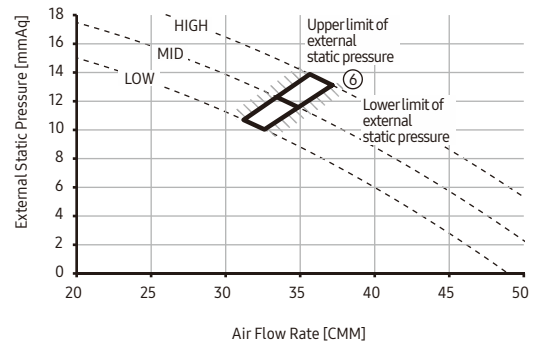
④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 11	010054-125EFC-20A0A0-331110



⑤	External Static Pressure(mmAq)	Option Code
	11 < SP ≤ 13	010054-125EFD-20A0A0-331110



⑥	External Static Pressure(mmAq)	Option Code
	13 < SP ≤ 14	010054-125EFE-20A0A0-331110



### Note

Adjust option code according to the actual installation condition (external static pressure).

ESP = External Static Pressure

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.