

# HSP Duct

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# 1 Specifications

## HSP Duct

### 1) Technical specifications

Model			AM112FNHDEH***	AM128FNHDEH***	AM140FNHDEH***	AM220FNHDEH***	AM280FNHDEH***	
Power Supply			∅, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	
Mode*1)			-	HP / HR	HP / HR	HP/HR	HP/HR	
Performance	Capacity (Nominal)	Cooling <sup>2)</sup>	kW	11.2	12.8	14.0	22.4	28.0
			Btu/h	38,200	43,700	47,800	76,400	95,500
		Heating <sup>3)</sup>	kW	12.5	13.8	16.8	25.0	31.5
			Btu/h	42,700	47,100	57,300	85,300	107,500
Power	Power Input (Nominal)	Cooling <sup>2)</sup>	W	510	560	625	530	790
				Heating <sup>3)</sup>	510	560	625	530
	Current Input (Nominal)	Cooling <sup>2)</sup>	A	3.6	3.75	3.9	3.8	5.9
				Heating <sup>3)</sup>	3.6	3.75	3.9	3.8
Fan	Motor	Type	-	Sirocco Fan / AC	Sirocco Fan / AC	Sirocco Fan / AC	Sirocco Fan	Sirocco Fan
		Output	W	-	-	-	400	400
		Number of unit	EA	2	2	2	1	1
	Air Flow Rate	H/M/L (UL)	CMM	32 / 27 / 23	35 / 31 / 26	39 / 33 / 28	58.00/52.00/47.00	72.00/65.00/58.00
			l/s	533.33/450.00/383.33	583.33/516.67/466.67	650.00/550.00/466.67	966.67/866.67/783.33	1,200.00/1,083.33/966.67
	External Pressure	Min / Std / Max	mmAq	5 / 10 / 20	5 / 10 / 20	5 / 10 / 20	5.00/15.00/25.00	5.00/15.00/28.00
			Pa	49 / 98.1 / 196.1	49 / 98.1 / 196.1	49 / 98.1 / 196.1	49.03/147.10/245.17	49.03/147.10/274.59
		WG	-	-	-	-	-	
Option Code			-	010054-13598F-207070-331110	010054-135AC4-207070-331110	010054-135E09-207C7C-331110	011054-1950E8-20DCDC-331110	011054-19545B-231C1C-331110
Piping Connections	Liquid Pipe	∅, mm	9.52	9.52	9.52	9.52	9.52	
		∅, inch	3/8	3/8	3/8	3/8	3/8	
	Gas Pipe	∅, mm	15.88	15.88	15.88	19.05	22.23	
		∅, inch	5/8	5/8	5/8	3/4	7/8	
	Drain Pipe	∅, 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	EEV	EEV	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low <sup>4)</sup>	dBA	43 / 41 / 39	45 / 43 / 42	46 / 45 / 44	45 / 43 / 41	48 / 46 / 43
Dimensions	Net Weight		kg	57.0	57.0	57.0	89.0	89.0
	Shipping Weight		kg	64.0	64.0	64.0	99.0	99.0
	Net Dimensions (W×H×D)		mm	1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650	1240 x 470 x 1040	1240 x 470 x 1040
	Shipping Dimensions (W×H×D)		mm	1,447 x 425 x 769	1,447 x 425 x 769	1,447 x 425 x 769	1507 x 558 x 1155	1507 x 558 x 1155
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	- / Model	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	MDP-N047SNC1D	MDP-N047SNC1D
		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	-

\*Specifications may be subject to change without prior notice for product improvement.

\*1) Mode

- HP : Heat Pump, HR : Heat Recovery

\*2) Nominal cooling capacities are based on:

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Nominal heating capacities are based on:

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*4) Sound pressure 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.

\* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

# 2 Capacity table

## HSP Duct

### 1) Cooling

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

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28(°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
112	10	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.6	8.4
	12	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.6	8.4
	14	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.5	8.3
	16	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.5	8.3
	18	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	20	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	21	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	23	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	25	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	27	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	29	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	31	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	33	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	35	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	37	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.3	8.2	13.2	8.2
	39	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.6	8.5	12.1	8.0	13.0	8.0
	42	8.5	7.0	9.3	7.5	10.7	8.3	10.9	8.3	11.3	8.3	11.6	7.7	12.6	7.8
44	8.5	7.0	9.3	7.5	10.7	8.3	10.9	8.3	11.3	8.3	11.6	7.7	12.4	7.7	
128	10	9.7	8.0	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.3	9.8	15.4	9.8
	12	9.7	8.0	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.3	9.8	15.3	9.7
	14	9.7	8.0	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.3	9.8	15.3	9.7
	16	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.2	9.6
	18	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	20	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	21	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	23	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	25	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	27	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	29	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	31	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	33	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	35	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	37	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.2	9.9	14.0	9.6	14.9	9.4
	39	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.1	9.8	13.8	9.4	14.5	9.2
	42	9.7	8.2	10.4	8.3	12.0	8.9	12.4	9.7	12.7	9.5	13.2	9.0	13.7	8.7
44	9.7	8.2	10.4	8.3	12.0	8.9	12.4	9.7	12.7	9.5	13.2	9.0	13.7	8.7	
140	10	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.7	11.3	15.7	11.0	16.8	10.9
	12	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.6	10.9	16.7	10.9
	14	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.6	10.9	16.7	10.9
	16	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.6	10.9	16.6	10.8
	18	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.6	10.8
	20	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	21	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	23	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	25	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	27	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	29	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	31	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	33	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	35	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	37	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.4	10.8	16.3	10.6
	39	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.5	11.2	15.1	10.6	15.9	10.3
	42	10.5	9.1	11.6	9.9	13.3	10.9	13.6	10.9	14.1	10.9	14.4	10.1	15.0	9.8
44	10.5	9.1	11.6	9.9	13.3	10.9	13.6	10.9	14.1	10.9	14.4	10.1	15.0	9.8	
220	10	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.7	26.4	18.1	27.9	18.3
	12	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.9	18.4
	14	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.9	18.1
	16	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.9	18.3
	18	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.8	18.1
	20	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.4	18.0
	21	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.5	18.0
	23	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.3	27.1	17.7
	25	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.0	17.8
	27	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.0	17.8
	29	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.0	17.8
	31	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.3	27.0	17.8
	33	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.5	27.0	17.8
	35	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.7	26.4	18.5	27.0	18.0
	37	15.5	13.6	18.4	15.2	21.1	16.5	22.4	17.1	23.7	17.7	26.0	18.2	26.6	17.6
	39	15.3	13.5	18.1	15.0	21.1	16.5	22.3	17.0	23.7	17.7	25.7	18.4	26.2	17.5
	42	15.0	13.2	17.8	14.7	20.7	16.2	21.9	16.7	23.3	17.5	25.2	18.1	25.7	17.3
44	14.8	13.0	17.5	14.5	20.4	15.9	21.6	16.4	22.9	17.3	24.8	17.9	25.3	17.0	
46	14.5	12.7	17.2	14.2	20.0	15.6	21.2	16.1	22.5	16.9	24.4	17.5	24.8	16.6	
280	10	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.6	32.7	23.0	34.7	23.2
	12	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.1	34.7	23.4
	14	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.1	34.7	23.0
	16	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.1	34.7	23.3
	18	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	34.7	23.1
	20	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	34.3	23.0
	21	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	34.3	22.9
	23	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.2	33.7	22.6
	25	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	33.7	22.8
	27	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	33.7	22.8
	29	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	33.7	22.8
	31	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.2	33.7	22.8
	33	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.5	33.7	22.8
	35	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.6	32.7	23.5	33.7	23.0

# 2 Capacity table

## HSP Duct

### 2) Heating

TC : Total Capacity(kW)

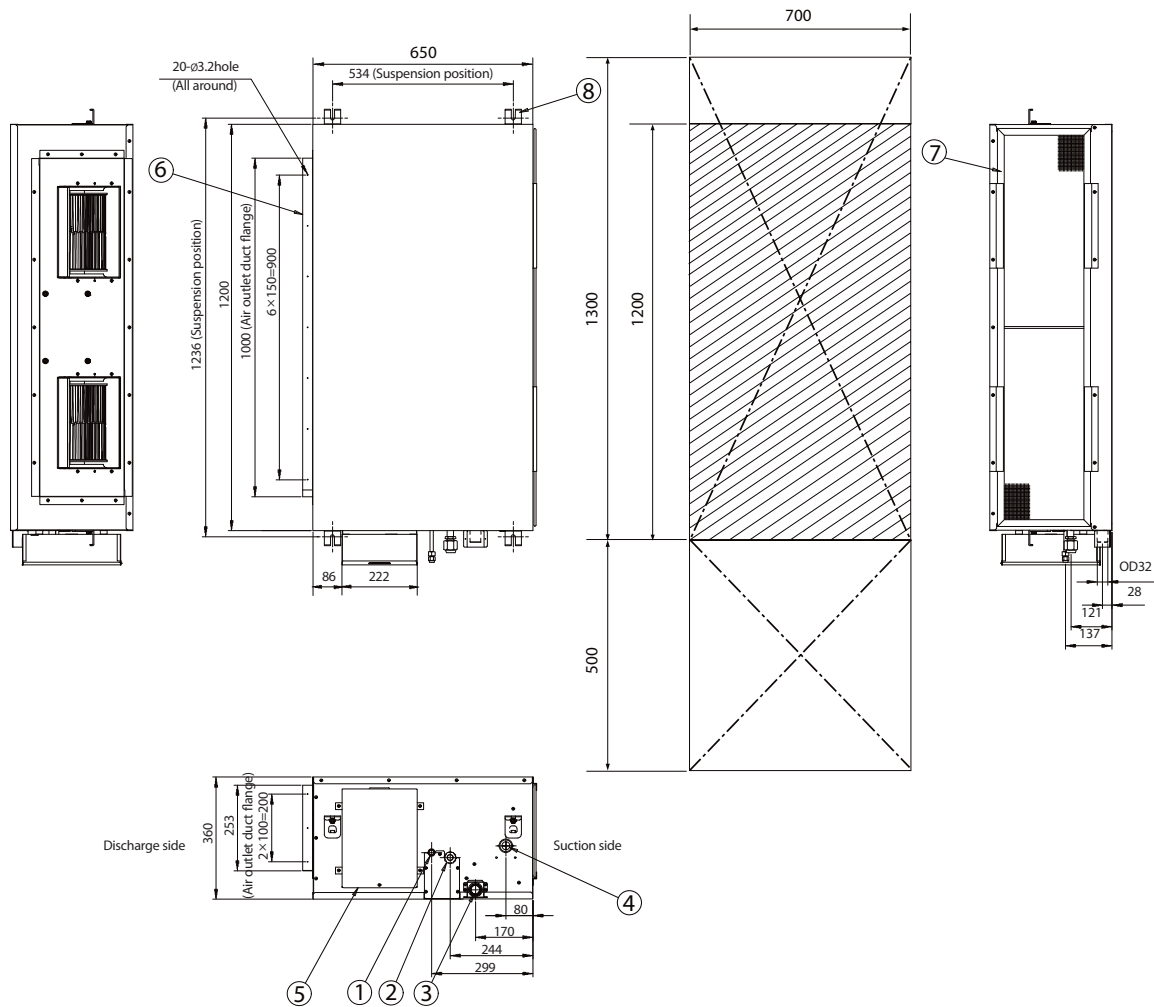
Model	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC	TC	TC	TC	TC
112	-20	-21	7.2	6.9	6.6	6.5	6.5
	-17	-18	8.0	7.6	7.4	7.3	7.3
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	9.2	9.0
	-5	-6	10.2	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	7.9	7.7	7.3	7.2	7.2
	-17	-18	8.8	8.5	8.1	8.0	8.0
	-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	9.2	8.9	8.5	8.4	8.4
	-17	-18	10.2	9.8	9.4	9.3	9.3
	-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	
220	-20	-21	20.3	19.5	18.4	17.5	16.8
	-17	-18	20.8	20.0	18.9	18.4	18.2
	-15	-16	21.6	20.7	19.6	19.1	18.8
	-12	-13	23.0	22.1	20.9	20.2	20.0
	-10	-11	24.7	23.7	22.4	21.4	21.1
	-7	-8	25.4	24.4	23.0	22.3	22.0
	-5	-6	26.2	25.2	23.7	23.2	22.6
	-3	-4	26.8	25.8	24.3	24.1	23.1
	0	-1	27.4	26.5	24.9	24.3	23.7
	3	2	28.0	27.0	25.0	24.4	23.6
	5	4	28.3	27.0	25.0	24.4	23.6
	7	6	28.8	27.0	25.0	24.4	23.6
	9	8	28.8	27.0	25.0	24.4	23.6
	11	10	28.8	27.0	25.0	24.4	23.6
	13	12	28.8	27.0	25.0	24.4	23.6
15	14	28.8	27.0	25.0	24.4	23.6	
280	-20	-21	25.4	24.4	23.0	21.9	21.0
	-17	-18	26.0	25.0	23.6	22.9	22.5
	-15	-16	27.0	25.9	24.5	23.8	23.3
	-12	-13	28.8	27.7	26.1	25.2	24.8
	-10	-11	30.9	29.7	28.0	26.8	26.4
	-7	-8	31.8	30.5	28.8	27.9	27.3
	-5	-6	32.7	31.5	29.7	29.0	28.1
	-3	-4	33.5	32.2	30.4	29.8	28.7
	0	-1	34.3	33.1	31.1	30.4	29.3
	3	2	35.0	33.7	31.5	30.4	29.5
	5	4	35.3	33.7	31.5	30.4	29.5
	7	6	35.7	33.7	31.5	30.4	29.5
	9	8	35.7	33.7	31.5	30.4	29.5
	11	10	35.7	33.7	31.5	30.4	29.5
	13	12	35.7	33.7	31.5	30.4	29.5
15	14	35.7	33.7	31.5	30.4	29.5	

# 3 Dimensional drawing

## HSP Duct

1) AM112/128/140FNHDEH\*\*\*

Unit:mm



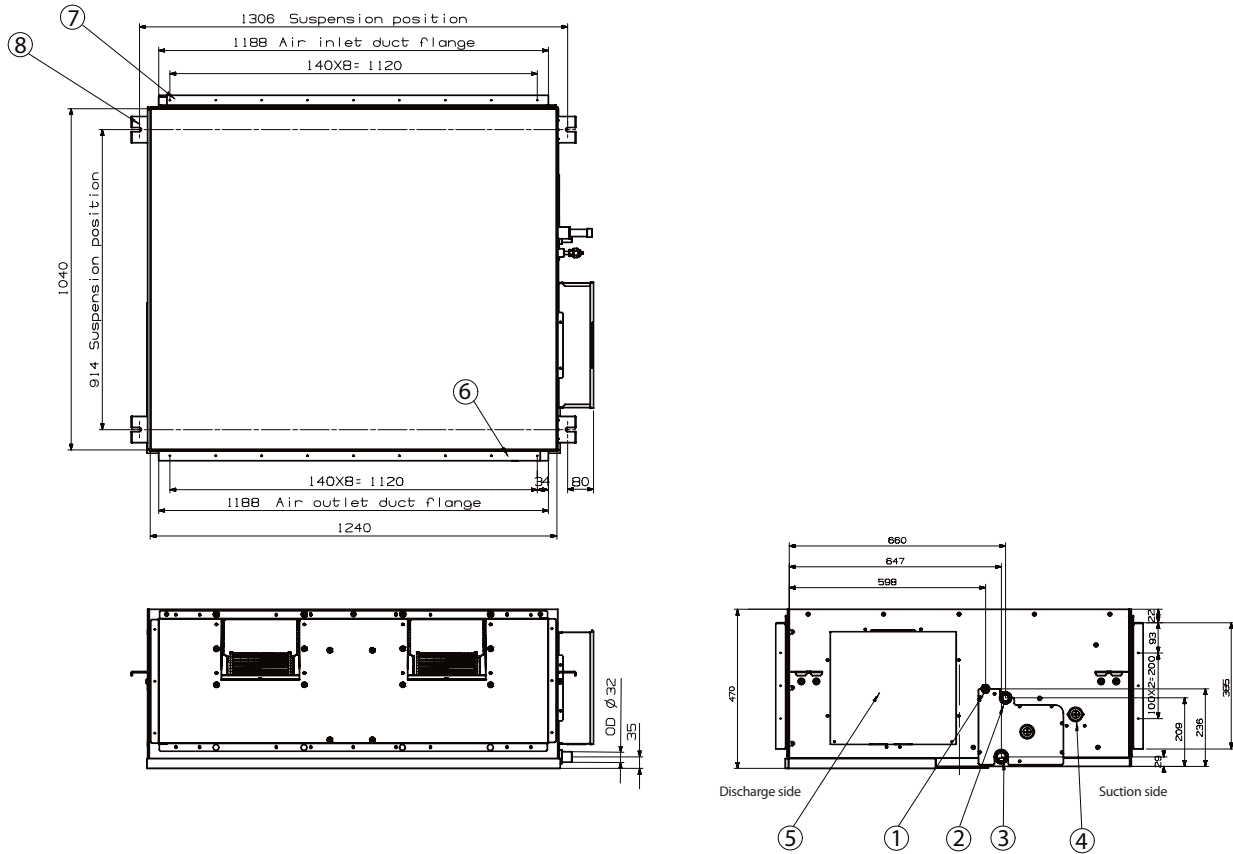
No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8")
②	Gas pipe connection	Ø15.88 (5/8")
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication connection	
⑥	Air discharge grille flange	
⑦	Suction flange	
⑧	Hook	3/8" or M10

# 3 Dimensional drawing

## HSP Duct

2) AM220/280FNHDEF\*\*\*

Unit:mm

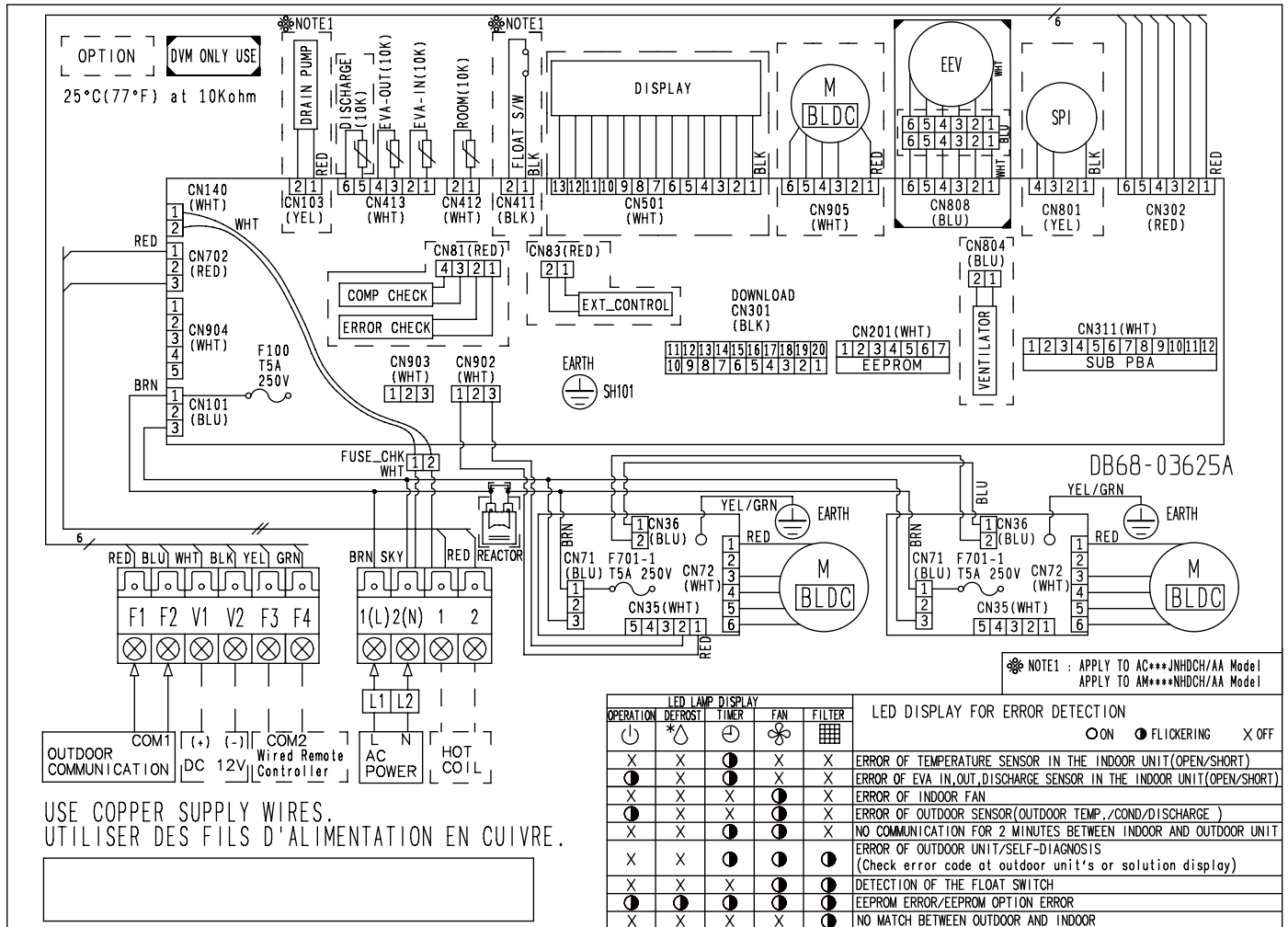


No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8")
②	Gas pipe connection	AM220*** : Ø19.05 (3/4") AM280*** : Ø22.22 (7/8")
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication connection	
⑥	Air discharge grille flange	
⑦	Suction flange	
⑧	Hook	3/8" or M10

# 4 Electrical Wiring Diagram

## HSP Duct

AM112/128/140FNHDEH/EU



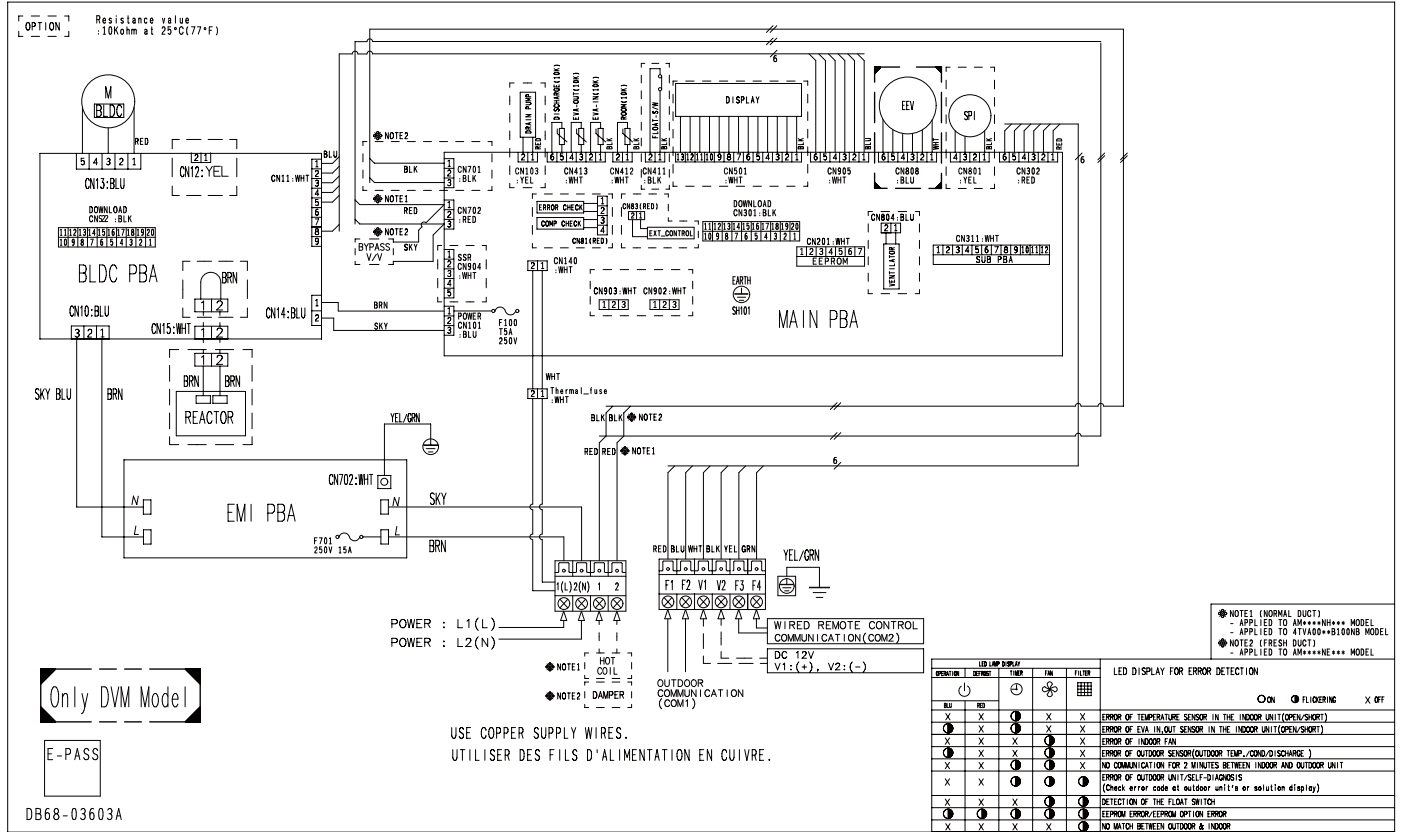
### NOTE

- 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

# 4 Electrical Wiring Diagram

## HSP Duct

AM220/280FNHDEH/EU



### NOTE

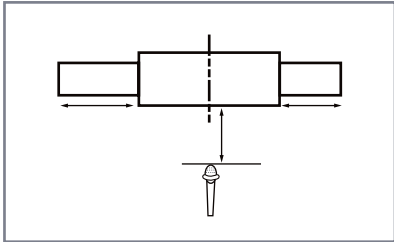
1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;  
BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. :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



# 5 Sound pressure level

## HSP Duct

### 1) Operation sound level



Unit : dB(A)

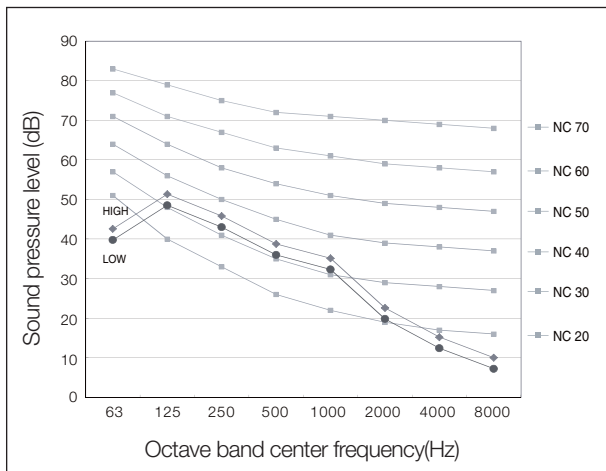
Model	High	Low
AM112FNHDEH***	43	39
AM128FNHDEH***	45	42
AM140FNHDEH***	46	44
AM220FNHDEH***	45	41
AM280FNHDEH***	48	43

#### ☑ Note

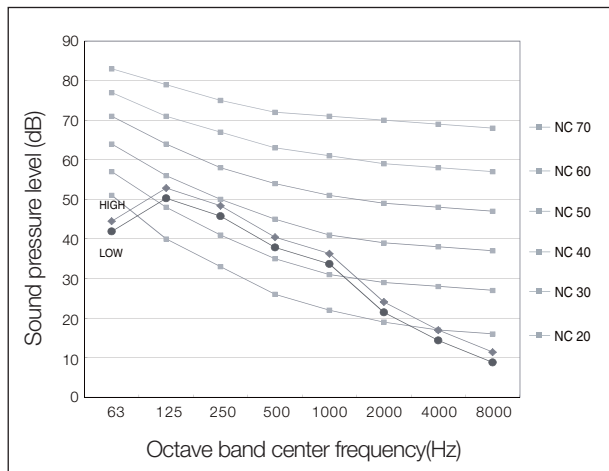
Specifications may be subject to change without prior notice.  
 Sound pressure level is obtained in an anechoic room.  
 Sound pressure level is a relative value, depending on the distance and acoustic environment.  
 Sound pressure level may differ depending on operation condition.  
 dBA = A-weighted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

### 2) NC curves

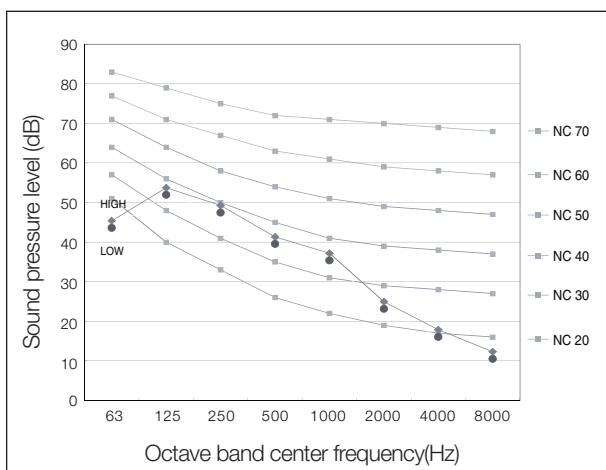
#### (1) AM112FNHDEH\*\*\*



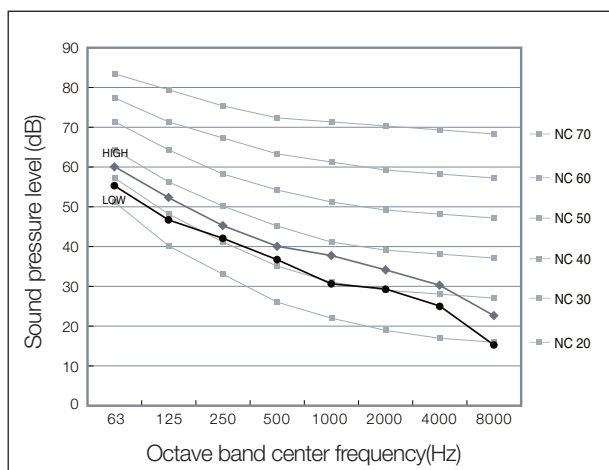
#### (2) AM128FNHDEH\*\*\*



#### (3) AM140FNHDEH\*\*\*



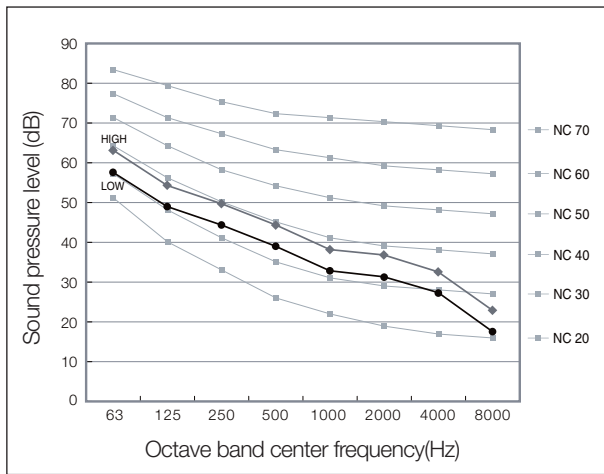
#### (4) AM220FNHDEH\*\*\*



# 5 Sound pressure level

HSP Duct

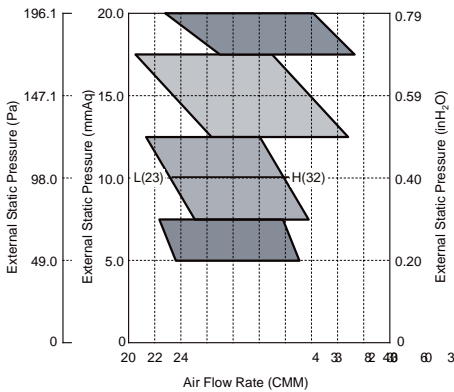
(5) AM280FNHDEH \*\*\*



# 6 Fan Characteristics

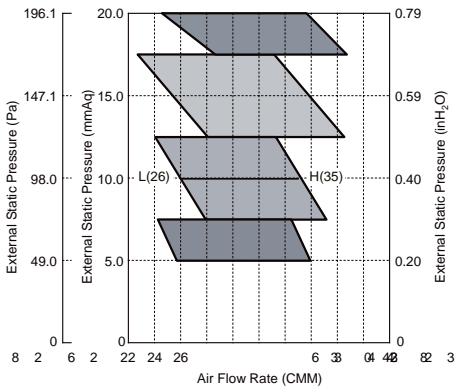
## HSP Duct

### 1) AM112FNHDEH/EU



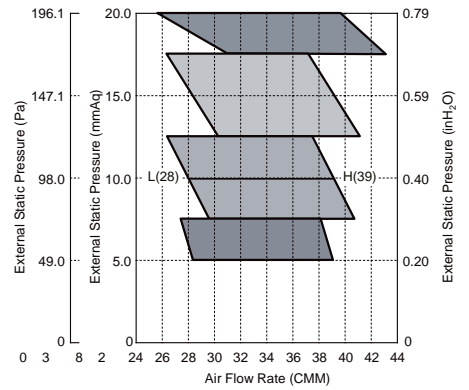
ESP (mmAq)	Option code
5	010054-1355E8-207070-331110
10	010054-13598F-207070-331110
15	010054-135E19-207070-331110
20	010054-135F70-207070-331110

### 2) AM128FNHDEH/EU



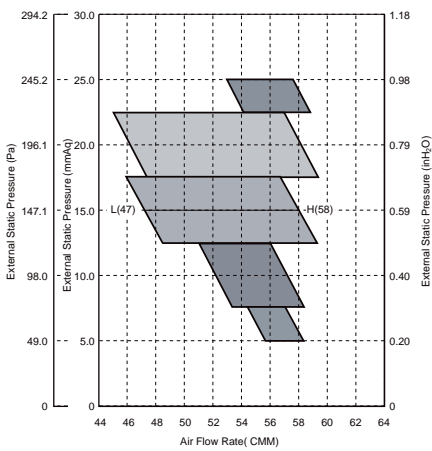
ESP (mmAq)	Option code
5	010054-13591C-208080-331110
10	010054-135AC4-208080-331110
15	010054-135E4E-208080-331110
20	010054-135F95-208080-331110

### 3) AM140FNHDEH/EU



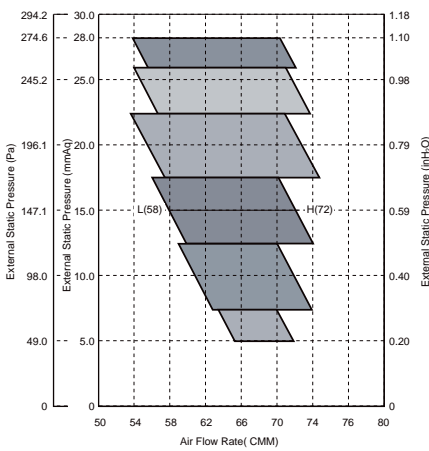
ESP (mmAq)	Option code
5	010054-13595E-208C8C-311110
10	010054-135E09-208C8C-311110
15	010054-135F71-208C8C-331110
20	010054-135FB7-208C8C-331110

### 4) AM220FNHDEH/EU



ESP (mmAq)	Option code
5	011054-195097-20DCDC-331110
10	011054-1950C7-20DCDC-331110
15	011054-1950E8-20DCDC-331110
20	011054-19544D-20DCDC-331110
25	011054-19549F-20DCDC-331110

### 5) AM280FNHDEH/EU



ESP (mmAq)	Option code
5	011054-195407-231C1C-331110
10	011054-195429-231C1C-331110
15	011054-19545B-231C1C-331110
20	011054-19549E-231C1C-331110
25	011054-1955D1-231C1C-331110
28	011054-1955F3-231C1C-331110

## NOTE

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