

MSP Duct

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Features & Benefits

Duct S

Overview

Samsung Ducted Type air conditioning units are a smart solution for low-maintenance, consistent cooling and heating performance in any environment. Their compact, slim frame blends seamlessly into ceilings, enhancing the beauty of the interior space and affording users more flexible installation options. Offering a comprehensive lineup, Samsung Ducted Type air conditioning units offer just the right solution for every need—from the office or shop to the restaurant kitchen.

Experience performance and convenient comfort for any weather condition

Samsung Duct S delivers unparalleled cooling and heating and flexible management with customizable comfort settings in any climate—all year round. Plus, it boasts a slim, compact size and multiple access points for easy setup exactly where needed.



Smart pressure control

Samsung Ducted Type units feature a smart pressure control system. This system adjusts the fan speed based on the external static pressure (ESP), delivering consistent cooling and heating power, regardless of the surrounding environment.

Convenient installation

The optional lift-up drain pump lifts condensed water up to 750 mm, compared to a limit of 700 mm on conventional models, for flexible and convenient installation.

The Duct S indoor air conditioning unit delivers smooth, consistent operation and convenience with features such as:

- Efficient operation. Stage the desired atmosphere with energy-efficient performance and customized airflow.
- Smart management. Cool spaces efficiently and manage the air conditioning unit even while away, with features designed for efficiency and control.
- Easy, flexible setup. Install and maintain even multiple units with a compact and easily accessible design.

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System	Model Name	Indoor Unit		AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU	
		Outdoor Unit		AC035MXADKH/EU	AC052MXADKH/EU	AC060MXADKH/EU	
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.20 / 3.50 / 3.90	1.20 / 5.00 / 6.00	1.20 / 5.80 / 7.00
				Btu/h	4,100 / 11,900 / 13,300	4,100 / 17,100 / 20,500	4,100 / 19,800 / 23,900
			Heating (Min/Std/Max)	kW	1.10 / 4.00 / 4.70	1.10 / 6.00 / 7.20	1.50 / 7.00 / 8.50
				Btu/h	3,800 / 13,600 / 16,000	3,800 / 20,500 / 24,600	5,100 / 23,900 / 29,000
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.26 / 1.05 / 1.50	0.35 / 1.56 / 2.20	0.26 / 1.95 / 2.40
			Heating (Min/Std/Max)	kW	0.24 / 1.20 / 1.80	0.26 / 1.58 / 2.70	0.20 / 1.95 / 3.30
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 5.50 / 7.50	2.10 / 7.10 / 10.00	1.80 / 8.50 / 10.60
			Heating (Min/Std/Max)	A	1.30 / 5.80 / 10.50	1.70 / 7.20 / 12.00	1.50 / 8.50 / 14.00
		Current	MCA	A	12.5	22.5	22.5
			MFA	A	13.8	25	25
	Efficiency	EER	Cooling	W/W	3.33	3.21	2.97
		COP	Heating	W/W	3.33	3.80	3.59
		SEER (Cooling Energy Grade)		W/W	6.3 (A++)	6.2 (A++)	6.1 (A++)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.1 (A+)	4.0 (A+)
		Pdesignh		kW	1.8	2.4	2.6
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	6.35
				Φ, inch	1/4	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	12.7	12.7
				Φ, inch	3/8	1/2	1/2
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	20	30	30
			Elevation	m	15	20	20
			Chargeless	m	20	5	5
	Wiring connections	Power Source Wire		mm ²	-	-	-
		Transmission Cable		mm ²	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO ₂ e	1.05 / 2.19	1.3 / 2.71	1.3 / 2.71

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Indoor Unit	Model Name		Indoor Unit		AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU
			Outdoor Unit		AC035MXADKH/EU	AC052MXADKH/EU	AC060MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	2	2	2
		Air Flow Rate	High/Mid/Low	CMM	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
				l/s	173.3 / 153.3 / 133.3	241.7 / 200.0 / 158.3	283.3 / 233.3 / 183.3
		External Static Pressure	Min/Std/Max	mmAq	0/2.5/15	0/3.0/15	0/3.0/15
				Pa	0/25/147	0/29/147	0/29/147
	Fan Motor	Output		W x n	153 x 1	153 x 1	153 x 1
	Drain	Drain Pipe		Ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	28 / 25 / 22	29 / 26 / 23	30 / 27 / 24
		Sound Power Level		dB(A)	52	55	56
	External Dimension	Net Weight		kg	25.8	25.8	25.8
		Shipping Weight		kg	30.5	30.5	30.5
		Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
		Shipping Dimensions (WxHxD)		mm	1064 x 320 x 784	1064 x 320 x 784	1064 x 320 x 784
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-

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Outdoor Unit	Model Name	Indoor Unit		AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU	
	Outdoor Unit			AC035MXADKH/EU	AC052MXADKH/EU	AC060MXADKH/EU	
	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type		-	Fin & Tube	FMC	FMC
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Al	Al
		Fin Treatment		-	Anti-Corrosion	Hybrid Coating	Hybrid Coating
	Compressor	Model Name			UG9AJ3090FER	UG9TK3150FE4	UG9TK3150FE4
		Output		kW	0.83	1.42	1.42
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	320	500	500
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	30	40	40
				l/s	500	667	667
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	48	48	49
			Heating	dB(A)	48	48	49
		Sound Power Level		dB(A)	61	62	62
	External Dimension	Net Weight		kg	32.8	43.8	43.8
		Shipping Weight		kg	35.8	47.5	47.5
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	1023 x 730 x 413	1023 x 750 x 414
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
Specification comply with EN14511.
- 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
- 2) Sound power level is an absolute value that a sound source generates.
Sound power level is based on cooling operation.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound values are obtained in an anechoic room.
Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

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System	Model Name	Indoor Unit		AC071MNMDKH/EU	AC090MNMDKH/EU	AC090MNMDKH/EU	
		Outdoor Unit		AC071MXADKH/EU	AC090MXADKH/EU	AC090MXADNH/EU	
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	2.20 / 7.10 / 8.00	3.00 / 9.00 / 11.30	3.00 / 9.00 / 11.30
				Btu/h	7,500 / 24,200 / 27,300	10,200 / 30,700 / 38,600	10,200 / 30,700 / 38,600
			Heating (Min/Std/Max)	kW	1.90 / 8.00 / 9.00	2.20 / 10.00 / 13.90	2.20 / 10.00 / 13.90
				Btu/h	6,500 / 27,300 / 30,700	7,500 / 34,100 / 47,400	7,500 / 34,100 / 47,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.35 / 2.15 / 3.95	0.60 / 2.90 / 4.46	0.60 / 2.90 / 4.46
			Heating (Min/Std/Max)	kW	0.35 / 2.20 / 3.95	0.46 / 2.75 / 5.20	0.46 / 2.75 / 5.20
		Current Input	Cooling (Min/Std/Max)	A	2.00 / 9.70 / 17.00	3.00 / 12.70 / 19.40	1.50 / 4.50 / 7.30
			Heating (Min/Std/Max)	A	2.00 / 11.30 / 17.00	2.50 / 12.50 / 22.70	1.40 / 4.50 / 9.00
		Current	MCA	A	22.5	26.5	18.6
			MFA	A	25	30	18.6
	Efficiency	EER	Cooling	W/W	3.30	3.10	3.10
		COP	Heating	W/W	3.64	3.64	3.64
		SEER (Cooling Energy Grade)		W/W	6.1 (A++)	5.9 (A+)	5.9 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	4.0 (A+)
		Pdesignh		kW	3.7	5.2	5.2
		Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
	Φ, mm				6.35	9.52	9.52
	Φ, inch				1/4	3/8	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm	15.88	15.88	15.88	
			Φ, inch	5/8	5/8	5/8	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)		Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	5	30	30
	Wiring connections	Power Source Wire		mm²	-	-	-
		Transmission Cable		mm²	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO ₂ e	1.5 / 3.13	3.0 / 6.26	3.0 / 6.26

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Indoor Unit	Model Name	Indoor Unit			AC071MNMDKH/EU	AC090MNMDKH/EU	AC090MNMDKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC090MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	2	3	3
		Air Flow Rate	High/Mid/Low	CMM	17.0 / 14.0 / 11.0	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0
				l/s	283.3 / 233.3 / 183.3	466.7 / 416.7 / 366.7	466.7 / 416.7 / 366.7
		External Static Pressure	Min/Std/Max	mmAq	0/3.0/15	0/4.0/15	0/4.0/15
				Pa	0/29/147	0/39/147	0/39/147
	Fan Motor	Output		W x n	153 x 1	153 x 1	153 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	30 / 27 / 24	34 / 32 / 30	34 / 32 / 30
		Sound Power Level		dB(A)	56	58	58
	External Dimension	Net Weight		kg	25.8	33.4	33.4
		Shipping Weight		kg	30.5	39	39
		Net Dimensions (WxHxD)		mm	850 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700
		Shipping Dimensions (WxHxD)		mm	1064 x 320 x 784	1429 x 320 x 779	1429 x 320 x 779
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N /MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
Max. lifting Height / Displacement			mm / Liter/h	750/24	750/24	750/24	
Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable		
Virus Doctor		-	-	-	-		

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Outdoor Unit	Model Name	Indoor Unit			AC071MNMDKH/EU	AC090MNMDKH/EU	AC090MNMDKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC090MXADNH/EU
	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	
	Heat Exchanger	Type		-	FMC	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Al	Cu	Cu
		Fin Treatment		-	Hybrid Coating	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG4T200FUA4	UG8T300FUBJU	UG8T300FUCJU
		Output		kW	1.79	2.82	2.82
		Oil	Type	-	POE	PVE	PVE
			Initial charge	cc	650	1200	1200
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	51	78	78
				l/s	850	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	49	52	52
			Heating	dB(A)	51	53	53
		Sound Power Level		dB(A)	65	68	68
	External Dimension	Net Weight		kg	53	72	72
		Shipping Weight		kg	57.2	77	77
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1023 x 911 x 413	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGL Steel Plate	EGL Steel Plate	EGL Steel Plate
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
Specification comply with EN14511.
- 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
- 2) Sound power level is an absolute value that a sound source generates.
Sound power level is based on cooling operation.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound values are obtained in an anechoic room.
Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

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System	Model Name	Indoor Unit			AC100MNMDKH/EU	AC100MNMDKH/EU	AC120MNMDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 10.00 / 12.00	3.00 / 10.00 / 12.00	3.00 / 12.00 / 13.50
				Btu/h	10,200 / 34,100 / 40,900	10,200 / 34,100 / 40,900	10,200 / 40,900 / 46,100
			Heating (Min/Std/Max)	kW	2.20 / 11.20 / 15.50	2.20 / 11.20 / 15.50	2.50 / 13.00 / 17.00
				Btu/h	7,500 / 38,200 / 52,900	7,500 / 38,200 / 52,900	8,500 / 44,400 / 58,000
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.60 / 3.50 / 4.70	0.60 / 3.50 / 4.70	0.90 / 4.40 / 5.50
			Heating (Min/Std/Max)	kW	0.46 / 3.30 / 5.40	0.46 / 3.30 / 5.40	0.70 / 4.00 / 5.90
		Current Input	Cooling (Min/Std/Max)	A	3.00 / 15.10 / 20.40	1.50 / 5.30 / 7.10	5.00 / 19.50 / 24.00
			Heating (Min/Std/Max)	A	2.50 / 14.00 / 23.00	1.20 / 4.90 / 8.40	4.00 / 17.50 / 26.50
		Current	MCA	A	26.5	18.6	26.5
			MFA	A	30	18.6	30
	Efficiency	EER	Cooling	W/W	2.86	2.86	2.73
		COP	Heating	W/W	3.39	3.39	3.25
		SEER (Cooling Energy Grade)		W/W	5.8 (A+)	5.8 (A+)	5.6 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	4.0 (A+)
		Pdesignh		kW	5.2	5.2	7.4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm ²	-	-	-
		Transmission Cable		mm ²	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO ₂ e	3.0 / 6.26	3.0 / 6.26	3.0 / 6.26

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Indoor Unit	Model Name		Indoor Unit		AC100MNMDKH/EU	AC100MNMDKH/EU	AC120MNMDKH/EU
			Outdoor Unit		AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	3	3	3
		Air Flow Rate	High/Mid/Low	CMM	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0	33.0 / 28.0 / 23.0
				l/s	466.7 / 416.7 / 366.7	466.7 / 416.7 / 366.7	550.0 / 466.7 / 383.3
		External Static Pressure	Min/Std/Max	mmAq	0/4.0/15	0/4.0/15	0/5.2/15
				Pa	0/39/147	0/39/147	0/51/147
	Fan Motor	Output		W x n	153 x 1	153 x 1	244 x 1
	Drain	Drain Pipe		Ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	34 / 32 / 30	34 / 32 / 30	37 / 34 / 30
		Sound Power Level		dB(A)	58	58	62
	External Dimension	Net Weight		kg	33.4	33.4	38.6
		Shipping Weight		kg	39	39	44.8
		Net Dimensions (WxHxD)		mm	1200 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700
		Shipping Dimensions (WxHxD)		mm	1429 x 320 x 779	1429 x 320 x 779	1529 x 370 x 779
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-

1. Specification

MSP Duct

Outdoor Unit	Model Name	Indoor Unit		AC100MNMDKH/EU	AC100MNMDKH/EU	AC120MNMDKH/EU	
		Outdoor Unit		AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU	
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG8T300FUBJU	UG8T300FUCJU	UG5TK1450FJX
		Output		kW	2.82	2.82	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1200	1200	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	78	78	78
				l/s	1300	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	52	52	54
			Heating	dB(A)	54	54	56
Sound Power Level		dB(A)	69	69	70		
External Dimension	Net Weight		kg	72	72	77	
	Shipping Weight		kg	77	77	82	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426	
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
Specification comply with EN14511.
- 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
- 2) Sound power level is an absolute value that a sound source generates.
Sound power level is based on cooling operation.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound values are obtained in an anechoic room.
Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

MSP Duct

System	Model Name		Indoor Unit		AC120MNMDKH/EU	AC140MNMDKH/EU	AC140MNMDKH/EU
			Outdoor Unit		AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 12.00 / 13.50	3.50 / 13.40 / 15.50	3.50 / 13.40 / 15.50
				Btu/h	10,200 / 40,900 / 46,100	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900
			Heating (Min/Std/Max)	kW	2.50 / 13.00 / 17.00	3.50 / 15.50 / 18.00	3.50 / 15.50 / 18.00
				Btu/h	8,500 / 44,400 / 58,000	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.90 / 4.40 / 5.50	0.80 / 4.45 / 6.44	0.80 / 4.45 / 7.90
			Heating (Min/Std/Max)	kW	0.70 / 4.00 / 5.90	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.90
		Current Input	Cooling (Min/Std/Max)	A	1.90 / 7.00 / 8.60	3.70 / 20.00 / 28.00	2.10 / 7.00 / 12.00
			Heating (Min/Std/Max)	A	1.50 / 6.30 / 9.00	3.50 / 19.50 / 32.00	1.90 / 7.00 / 12.00
		Current	MCA	A	18.6	34.5	18.6
			MFA	A	18.6	40	18.6
	Efficiency	EER	Cooling	W/W	2.73	3.01	3.01
		COP	Heating	W/W	3.25	3.41	3.41
		SEER (Cooling Energy Grade)		W/W	5.6 (A+)	3.0	3.0
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	3.4	3.4
		Pdesignh		kW	7.4	-	-
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	75	75
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm ²	-	-	-
		Transmission Cable		mm ²	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO ₂ e	3.0 / 6.26	3.4 / 7.10	3.4 / 7.10

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit			AC120MNMDKH/EU	AC140MNMDKH/EU	AC140MNMDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	3	3	3
		Air Flow Rate	High/Mid/Low	CMM	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
				l/s	550.0 / 466.7 / 383.3	550.0 / 466.7 / 383.3	550.0 / 466.7 / 383.3
		External Static Pressure	Min/Std/Max	mmAq	0/5.2/15	0/5.2/15	0/5.2/15
				Pa	0/51/147	0/51/147	0/51/147
	Fan Motor	Output		W x n	244 x 1	244 x 1	244 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	37 / 34 / 30	37 / 34 / 30	37 / 34 / 30
		Sound Power Level		dB(A)	62	62	62
	External Dimension	Net Weight		kg	38.6	38.6	38.6
		Shipping Weight		kg	44.8	44.8	44.8
		Net Dimensions (WxHxD)		mm	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
		Shipping Dimensions (WxHxD)		mm	1529 x 370 x 779	1529 x 370 x 779	1529 x 370 x 779
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
Max. lifting Height / Displacement			mm / Liter/h	750/24	750/24	750/24	
Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable		
Virus Doctor		-	-	-	-		

1. Specification

MSP Duct

Outdoor Unit	Model Name		Indoor Unit		AC120MNMDKH/EU	AC140MNMDKH/EU	AC140MNMDKH/EU
			Outdoor Unit		AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG5TK1450FJX	UG5TK1450FJX	UG5TK1450FJX
		Output		kW	4.19	4.19	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1700	1700	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	2	2
		Air Flow Rate		CMM	78	111	111
				l/s	1300	1850	1850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
			Heating	dB(A)	56	54	54
Sound Power Level		dB(A)	70	69	69		
External Dimension	Net Weight		kg	77	87	87	
	Shipping Weight		kg	82	97	97	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1388 x 426	995 x 1388 x 426	
Casing	Material	Body	-	EGL Steel Plate	EGL Steel Plate	EGL Steel Plate	
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
Specification comply with EN14511.
- 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
- 2) Sound power level is an absolute value that a sound source generates.
 Sound power level is based on cooling operation.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound values are obtained in an anechoic room.
 Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

MSP Duct

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC035MNMDKH/EU	25.8	Max.	3.9	4.7	High	10.4 / 10.4	28	52
		Std.	3.5	4.0	Mid	9.2 / 9.2	25	-
		Min.	1.2	1.1	Low	8.0 / 8.0	22	-
AC052MNMDKH/EU	25.8	Max.	6.0	7.2	High	14.5 / 14.5	29	55
		Std.	5.0	6.0	Mid	12.0 / 12.0	26	-
		Min.	1.2	1.1	Low	9.5 / 9.5	23	-
AC060MNMDKH/EU	25.8	Max.	7.0	8.5	High	17.0 / 17.0	30	56
		Std.	5.8	7.0	Mid	14.0 / 14.0	27	-
		Min.	1.2	1.5	Low	11.0 / 11.0	24	-
AC071MNMDKH/EU	25.8	Max.	8.0	9.0	High	17.0 / 17.0	30	56
		Std.	7.1	8.0	Mid	14.0 / 14.0	27	-
		Min.	2.2	1.9	Low	11.0 / 11.0	24	-
AC090MNMDKH/EU	33.4	Max.	11.3	13.9	High	28.0 / 28.0	34	58
		Std.	9.0	10.0	Mid	25.0 / 25.0	32	-
		Min.	3.0	2.2	Low	22.0 / 22.0	30	-
AC100MNMDKH/EU	33.4	Max.	12.0	15.5	High	28.0 / 28.0	34	58
		Std.	10.0	11.2	Mid	25.0 / 25.0	32	-
		Min.	3.0	2.2	Low	22.0 / 22.0	30	-
AC120MNMDKH/EU	38.6	Max.	13.5	17.0	High	33.0 / 33.0	37	62
		Std.	12.0	13.0	Mid	28.0 / 28.0	34	-
		Min.	3.0	2.5	Low	23.0 / 23.0	30	-
AC140MNMDKH/EU	38.6	Max.	15.5	18.0	High	33.0 / 33.0	37	62
		Std.	13.4	15.5	Mid	28.0 / 28.0	34	-
		Min.	3.5	3.5	Low	23.0 / 23.0	30	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC035MNMDKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	2.5	12.5	12.5	13.8
AC052MNMDKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	2.5	22.5	22.5	25
AC060MNMDKH/EU	AC060MXADKH/EU	50	220 to 240	198	264	20	20	2.5	22.5	22.5	25
AC071MNMDKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	2.5	22.5	22.5	25
AC090MNMDKH/EU	AC090MXADKH/EU	50	220 to 240	198	264	24	24	2.5	26.5	26.5	30
AC090MNMDKH/EU	AC090MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC100MNMDKH/EU	AC100MXADKH/EU	50	220 to 240	198	264	24	24	2.5	26.5	26.5	30
AC100MNMDKH/EU	AC100MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC120MNMDKH/EU	AC120MXADKH/EU	50	220 to 240	198	264	24	24	2.5	26.5	26.5	30
AC120MNMDKH/EU	AC120MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC140MNMDKH/EU	AC140MXADKH/EU	50	220 to 240	198	264	32	32	2.5	34.5	34.5	40
AC140MNMDKH/EU	AC140MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

MSP Duct

(1) AC035MNMDKH/EU + AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.41	2.82	0.75	3.59	2.90	0.77	3.74	2.99	0.78	3.86	3.09	0.80	3.94	3.06	0.81	4.13	3.03	0.81	4.34	2.97	0.83
21	3.25	2.68	0.79	3.42	2.77	0.81	3.56	2.85	0.82	3.68	2.94	0.84	3.75	2.91	0.85	3.94	2.88	0.86	4.13	2.82	0.87
35	3.10	2.56	0.99	3.26	2.63	1.01	3.40	2.72	1.03	3.50	2.80	1.05	3.57	2.77	1.06	3.75	2.74	1.07	3.94	2.69	1.09
46	2.63	2.37	0.89	2.77	2.44	0.91	2.89	2.52	0.93	2.98	2.60	0.95	3.03	2.57	0.95	3.19	2.55	0.96	3.35	2.50	0.98
50	2.01	1.87	0.79	2.12	1.93	0.81	2.21	1.99	0.82	2.28	2.05	0.84	2.32	2.03	0.85	2.44	2.01	0.86	2.56	1.97	0.87

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.82	1.59	2.79	1.58	2.76	1.56	2.73	1.54	2.71	1.53	2.68	1.51
-15	3.55	1.84	3.51	1.82	3.48	1.80	3.45	1.78	3.41	1.76	3.38	1.75
-5	4.00	1.71	3.96	1.70	3.92	1.68	3.88	1.66	3.84	1.65	3.80	1.63
0	4.16	1.47	4.12	1.45	4.08	1.44	4.04	1.43	4.00	1.41	3.96	1.40
7	4.08	1.22	4.04	1.21	4.00	1.20	3.96	1.19	3.92	1.18	3.88	1.16
24	5.30	1.41	5.25	1.39	5.20	1.38	5.15	1.37	5.10	1.35	5.05	1.34

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(2) AC052MNMDKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	4.02	1.12	5.13	4.15	1.14	5.35	4.28	1.16	5.51	4.41	1.19	5.62	4.37	1.20	5.90	4.32	1.21	6.20	4.24	1.23
21	4.64	3.83	1.17	4.89	3.95	1.20	5.09	4.07	1.22	5.25	4.20	1.25	5.36	4.16	1.26	5.62	4.12	1.27	5.90	4.03	1.30
35	4.42	3.65	1.47	4.66	3.76	1.50	4.85	3.88	1.53	5.00	4.00	1.56	5.10	3.96	1.58	5.36	3.92	1.59	5.62	3.84	1.62
46	3.76	3.39	1.32	3.96	3.49	1.35	4.12	3.60	1.38	4.25	3.71	1.40	4.34	3.67	1.42	4.55	3.64	1.43	4.78	3.57	1.46
50	2.88	2.67	1.17	3.03	2.75	1.20	3.15	2.84	1.22	3.25	2.93	1.25	3.32	2.90	1.26	3.48	2.87	1.27	3.65	2.81	1.30

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.22	2.10	4.18	2.07	4.14	2.05	4.10	2.03	4.06	2.01	4.02	1.99
-15	5.32	2.42	5.27	2.39	5.22	2.37	5.17	2.35	5.12	2.32	5.06	2.30
-5	6.00	2.26	5.94	2.23	5.88	2.21	5.82	2.19	5.76	2.17	5.71	2.15
0	6.24	1.93	6.18	1.91	6.12	1.90	6.06	1.88	6.00	1.86	5.94	1.84
7	6.12	1.61	6.06	1.60	6.00	1.58	5.94	1.56	5.88	1.55	5.82	1.53
24	7.96	1.85	7.88	1.84	7.80	1.82	7.72	1.80	7.64	1.78	7.57	1.76

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(3) AC060MNMDKH/EU + AC060MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.66	4.38	1.39	5.95	4.51	1.42	6.20	4.65	1.45	6.39	4.80	1.48	6.52	4.75	1.50	6.85	4.70	1.51	7.19	4.61	1.54
21	5.39	4.17	1.47	5.67	4.30	1.50	5.91	4.43	1.53	6.09	4.57	1.56	6.21	4.52	1.58	6.52	4.48	1.59	6.85	4.39	1.62
35	5.13	3.97	1.84	5.40	4.09	1.87	5.63	4.22	1.91	5.80	4.35	1.95	5.92	4.31	1.97	6.21	4.26	1.99	6.52	4.18	2.03
46	4.36	3.80	1.65	4.59	3.92	1.69	4.78	4.04	1.72	4.93	4.17	1.76	5.03	4.13	1.77	5.28	4.08	1.79	5.54	4.00	1.83
50	3.34	3.03	1.47	3.51	3.12	1.50	3.66	3.22	1.53	3.77	3.32	1.56	3.85	3.28	1.58	4.04	3.25	1.59	4.24	3.19	1.62

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.93	2.59	4.88	2.56	4.83	2.54	4.78	2.51	4.73	2.48	4.69	2.46
-15	6.21	2.98	6.15	2.95	6.09	2.93	6.03	2.90	5.97	2.87	5.91	2.84
-5	7.00	2.78	6.93	2.76	6.86	2.73	6.79	2.70	6.72	2.68	6.66	2.65
0	7.28	2.39	7.21	2.36	7.14	2.34	7.07	2.32	7.00	2.29	6.93	2.27
7	7.14	1.99	7.07	1.97	7.00	1.95	6.93	1.93	6.86	1.91	6.79	1.89
24	9.28	2.29	9.19	2.26	9.10	2.24	9.01	2.22	8.92	2.20	8.83	2.18

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(4) AC071MNMDKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	5.36	1.54	7.29	5.52	1.57	7.59	5.69	1.60	7.83	5.87	1.63	7.98	5.81	1.65	8.38	5.75	1.67	8.80	5.64	1.70
21	6.59	5.10	1.62	6.94	5.26	1.65	7.23	5.42	1.69	7.46	5.59	1.72	7.60	5.54	1.74	7.98	5.48	1.75	8.38	5.37	1.79
35	6.28	4.86	2.02	6.61	5.01	2.06	6.89	5.17	2.11	7.10	5.33	2.15	7.24	5.27	2.17	7.60	5.22	2.19	7.98	5.11	2.24
46	5.34	4.45	1.82	5.62	4.59	1.86	5.85	4.73	1.90	6.04	4.88	1.94	6.16	4.83	1.95	6.46	4.78	1.97	6.79	4.69	2.01
50	4.08	3.50	1.62	4.30	3.60	1.65	4.48	3.72	1.69	4.62	3.83	1.72	4.71	3.79	1.74	4.94	3.75	1.75	5.19	3.68	1.79

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	2.92	5.58	2.89	5.52	2.86	5.46	2.83	5.41	2.80	5.36	2.78
-15	7.10	3.37	7.03	3.33	6.96	3.30	6.89	3.27	6.82	3.23	6.75	3.20
-5	8.00	3.14	7.92	3.11	7.84	3.08	7.76	3.05	7.68	3.02	7.61	2.99
0	8.32	2.69	8.24	2.67	8.16	2.64	8.08	2.61	8.00	2.59	7.92	2.56
7	8.16	2.24	8.08	2.22	8.00	2.20	7.92	2.18	7.84	2.16	7.76	2.13
24	10.61	2.58	10.50	2.56	10.40	2.53	10.30	2.50	10.19	2.48	10.09	2.45

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(5) AC090MNMDKH/EU + AC090MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	8.78	7.24	2.07	9.24	7.47	2.12	9.62	7.70	2.16	9.92	7.94	2.20	10.12	7.86	2.23	10.63	7.78	2.25	11.16	7.62	2.29
21	8.36	6.90	2.18	8.80	7.11	2.23	9.17	7.33	2.27	9.45	7.56	2.32	9.64	7.48	2.34	10.12	7.41	2.37	10.63	7.26	2.41
35	7.96	6.57	2.73	8.38	6.77	2.79	8.73	6.98	2.84	9.00	7.20	2.90	9.18	7.13	2.93	9.64	7.06	2.96	10.12	6.92	3.02
46	6.77	6.20	2.46	7.12	6.39	2.51	7.42	6.59	2.56	7.65	6.79	2.61	7.80	6.73	2.64	8.19	6.66	2.66	8.60	6.52	2.72
50	5.18	4.91	2.18	5.45	5.06	2.23	5.67	5.22	2.27	5.85	5.38	2.32	5.97	5.33	2.34	6.27	5.27	2.37	6.58	5.17	2.41

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.04	3.65	6.97	3.61	6.90	3.58	6.83	3.54	6.76	3.50	6.70	3.47
-15	8.87	4.21	8.79	4.17	8.70	4.13	8.61	4.08	8.53	4.04	8.44	4.00
-5	10.00	3.93	9.90	3.89	9.80	3.85	9.70	3.81	9.60	3.77	9.51	3.74
0	10.41	3.37	10.30	3.33	10.20	3.30	10.10	3.27	10.00	3.23	9.90	3.20
7	10.20	2.81	10.10	2.78	10.00	2.75	9.90	2.72	9.80	2.70	9.70	2.67
24	13.26	3.23	13.13	3.19	13.00	3.16	12.87	3.13	12.74	3.10	12.61	3.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(6) AC090MNMDKH/EU + AC090MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	8.78	7.24	2.07	9.24	7.47	2.12	9.62	7.70	2.16	9.92	7.94	2.20	10.12	7.86	2.23	10.63	7.78	2.25	11.16	7.62	2.29
21	8.36	6.90	2.18	8.80	7.11	2.23	9.17	7.33	2.27	9.45	7.56	2.32	9.64	7.48	2.34	10.12	7.41	2.37	10.63	7.26	2.41
35	7.96	6.57	2.73	8.38	6.77	2.79	8.73	6.98	2.84	9.00	7.20	2.90	9.18	7.13	2.93	9.64	7.06	2.96	10.12	6.92	3.02
46	6.77	6.20	2.46	7.12	6.39	2.51	7.42	6.59	2.56	7.65	6.79	2.61	7.80	6.73	2.64	8.19	6.66	2.66	8.60	6.52	2.72
50	5.18	4.91	2.18	5.45	5.06	2.23	5.67	5.22	2.27	5.85	5.38	2.32	5.97	5.33	2.34	6.27	5.27	2.37	6.58	5.17	2.41

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.04	3.65	6.97	3.61	6.90	3.58	6.83	3.54	6.76	3.50	6.70	3.47
-15	8.87	4.21	8.79	4.17	8.70	4.13	8.61	4.08	8.53	4.04	8.44	4.00
-5	10.00	3.93	9.90	3.89	9.80	3.85	9.70	3.81	9.60	3.77	9.51	3.74
0	10.41	3.37	10.30	3.33	10.20	3.30	10.10	3.27	10.00	3.23	9.90	3.20
7	10.20	2.81	10.10	2.78	10.00	2.75	9.90	2.72	9.80	2.70	9.70	2.67
24	13.26	3.23	13.13	3.19	13.00	3.16	12.87	3.13	12.74	3.10	12.61	3.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(7) AC100MNMDKH/EU + AC100MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	7.95	2.50	10.27	8.20	2.55	10.69	8.45	2.61	11.03	8.71	2.66	11.25	8.62	2.69	11.81	8.54	2.71	12.40	8.37	2.77
21	9.29	7.57	2.64	9.78	7.80	2.69	10.19	8.05	2.74	10.50	8.30	2.80	10.71	8.21	2.83	11.25	8.13	2.86	11.81	7.97	2.91
35	8.85	7.21	3.29	9.31	7.43	3.36	9.70	7.66	3.43	10.00	7.90	3.50	10.20	7.82	3.54	10.71	7.74	3.57	11.25	7.59	3.64
46	7.52	6.98	2.96	7.92	7.20	3.03	8.25	7.42	3.09	8.50	7.65	3.15	8.67	7.57	3.18	9.10	7.50	3.21	9.56	7.35	3.28
50	5.75	5.58	2.64	6.05	5.75	2.69	6.31	5.93	2.74	6.50	6.11	2.80	6.63	6.05	2.83	6.96	5.99	2.86	7.31	5.87	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.38	7.81	4.33	7.73	4.29	7.65	4.25	7.57	4.20	7.50	4.16
-15	9.94	5.05	9.84	5.00	9.74	4.95	9.65	4.90	9.55	4.85	9.45	4.80
-5	11.20	4.71	11.09	4.67	10.98	4.62	10.87	4.57	10.76	4.53	10.65	4.48
0	11.65	4.04	11.54	4.00	11.42	3.96	11.31	3.92	11.20	3.88	11.08	3.84
7	11.43	3.37	11.31	3.33	11.20	3.30	11.09	3.27	10.98	3.23	10.87	3.20
24	14.85	3.87	14.71	3.83	14.56	3.80	14.41	3.76	14.27	3.72	14.13	3.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(8) AC100MNMDKH/EU + AC100MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	7.95	2.50	10.27	8.20	2.55	10.69	8.45	2.61	11.03	8.71	2.66	11.25	8.62	2.69	11.81	8.54	2.71	12.40	8.37	2.77
21	9.29	7.57	2.64	9.78	7.80	2.69	10.19	8.05	2.74	10.50	8.30	2.80	10.71	8.21	2.83	11.25	8.13	2.86	11.81	7.97	2.91
35	8.85	7.21	3.29	9.31	7.43	3.36	9.70	7.66	3.43	10.00	7.90	3.50	10.20	7.82	3.54	10.71	7.74	3.57	11.25	7.59	3.64
46	7.52	6.98	2.96	7.92	7.20	3.03	8.25	7.42	3.09	8.50	7.65	3.15	8.67	7.57	3.18	9.10	7.50	3.21	9.56	7.35	3.28
50	5.75	5.58	2.64	6.05	5.75	2.69	6.31	5.93	2.74	6.50	6.11	2.80	6.63	6.05	2.83	6.96	5.99	2.86	7.31	5.87	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.38	7.81	4.33	7.73	4.29	7.65	4.25	7.57	4.20	7.50	4.16
-15	9.94	5.05	9.84	5.00	9.74	4.95	9.65	4.90	9.55	4.85	9.45	4.80
-5	11.20	4.71	11.09	4.67	10.98	4.62	10.87	4.57	10.76	4.53	10.65	4.48
0	11.65	4.04	11.54	4.00	11.42	3.96	11.31	3.92	11.20	3.88	11.08	3.84
7	11.43	3.37	11.31	3.33	11.20	3.30	11.09	3.27	10.98	3.23	10.87	3.20
24	14.85	3.87	14.71	3.83	14.56	3.80	14.41	3.76	14.27	3.72	14.13	3.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(9) AC120MNMDKH/EU + AC120MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	9.18	3.15	12.32	9.46	3.21	12.83	9.75	3.28	13.23	10.05	3.34	13.49	9.95	3.38	14.17	9.85	3.41	14.88	9.66	3.48
21	11.15	8.74	3.31	11.73	9.01	3.38	12.22	9.29	3.45	12.60	9.58	3.52	12.85	9.48	3.56	13.49	9.39	3.59	14.17	9.20	3.66
35	10.62	8.32	4.14	11.17	8.58	4.23	11.64	8.85	4.31	12.00	9.12	4.40	12.24	9.03	4.44	12.85	8.94	4.49	13.49	8.76	4.58
46	9.02	8.30	3.73	9.50	8.56	3.80	9.89	8.83	3.88	10.20	9.10	3.96	10.40	9.01	4.00	10.92	8.92	4.04	11.47	8.74	4.12
50	6.90	6.69	3.31	7.26	6.90	3.38	7.57	7.11	3.45	7.80	7.33	3.52	7.96	7.26	3.56	8.35	7.19	3.59	8.77	7.04	3.66

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(10) AC120MNMDKH/EU + AC120MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	8.81	3.15	12.32	9.09	3.21	12.83	9.37	3.28	13.23	9.66	3.34	13.49	9.56	3.38	14.17	9.47	3.41	14.88	9.28	3.48
21	11.15	8.39	3.31	11.73	8.65	3.38	12.22	8.92	3.45	12.60	9.20	3.52	12.85	9.11	3.56	13.49	9.01	3.59	14.17	8.83	3.66
35	10.62	8.00	4.14	11.17	8.24	4.23	11.64	8.50	4.31	12.00	8.76	4.40	12.24	8.67	4.44	12.85	8.59	4.49	13.49	8.41	4.58
46	9.02	7.82	3.73	9.50	8.06	3.80	9.89	8.31	3.88	10.20	8.57	3.96	10.40	8.48	4.00	10.92	8.40	4.04	11.47	8.23	4.12
50	6.90	6.26	3.31	7.26	6.46	3.38	7.57	6.66	3.45	7.80	6.86	3.52	7.96	6.80	3.56	8.35	6.73	3.59	8.77	6.59	3.66

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(11) AC140MNMDKH/EU + AC140MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(12) AC140MNMDKH/EU + AC140MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

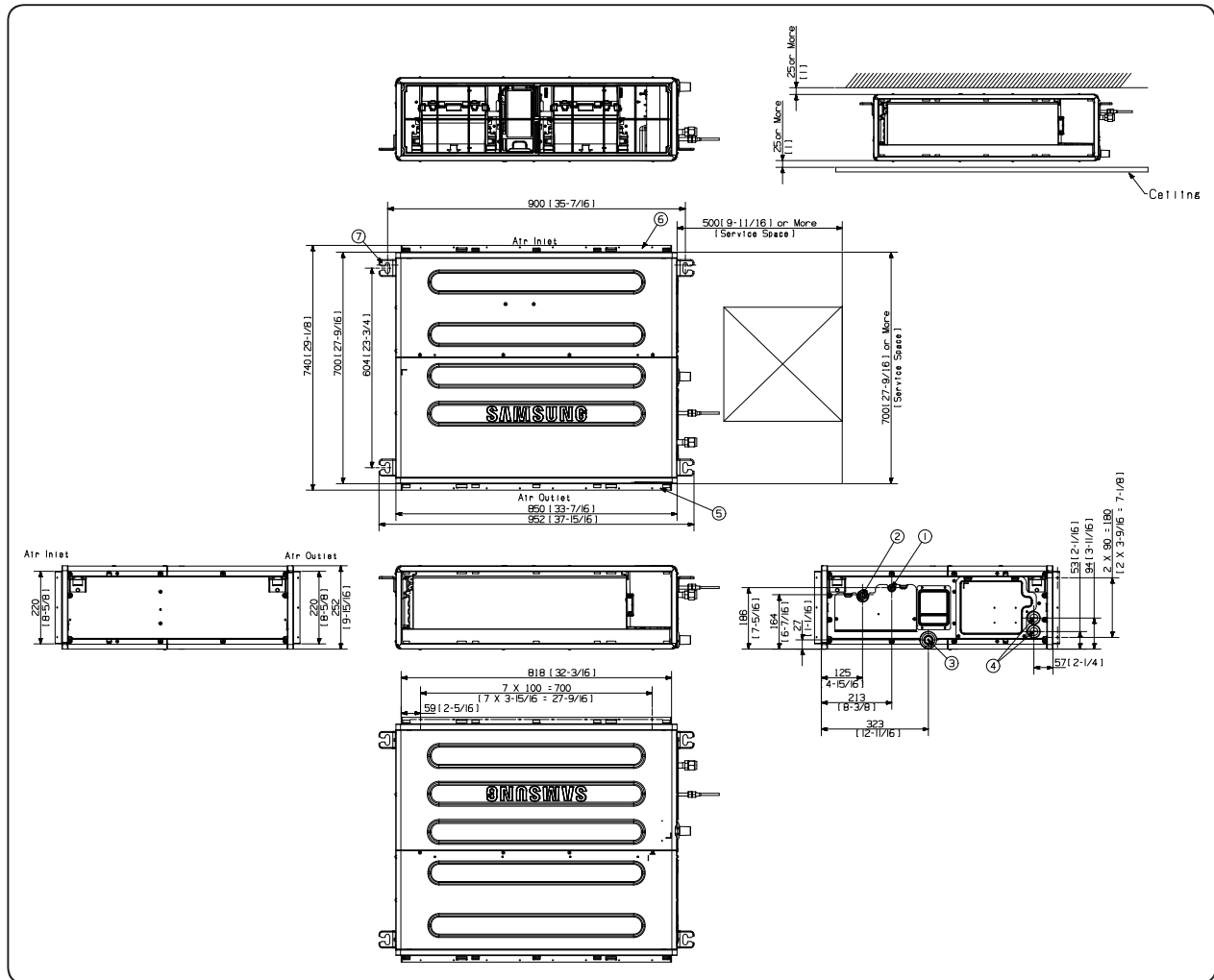
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

MSP Duct

AC035/052/060/071MNMDKH/EU

Units : mm [inches]



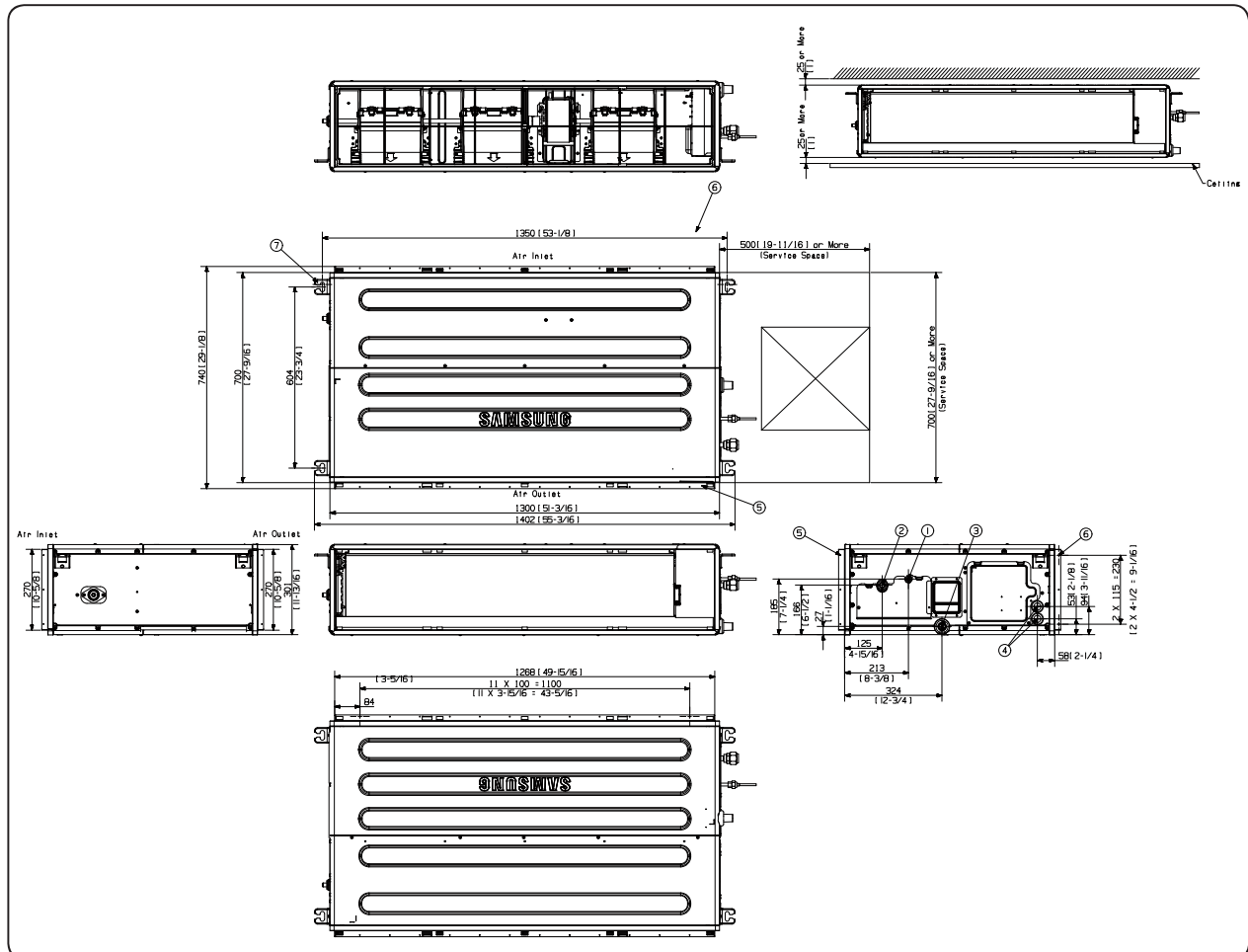
No.	Name	Description		
		AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU AC071MNMDKH/EU
1	Liquid pipe connection	Φ6.35(1/4)		
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)		
4	Power supply & Communication wiring conduit			
5	Air suction flange			
6	Air discharge flange			
7	Hook	Use M8~M10 bolt(4ea)		

4. Dimensional Drawing

MSP Duct

AC120/140MNMDKH/EU

Units : mm [inches]

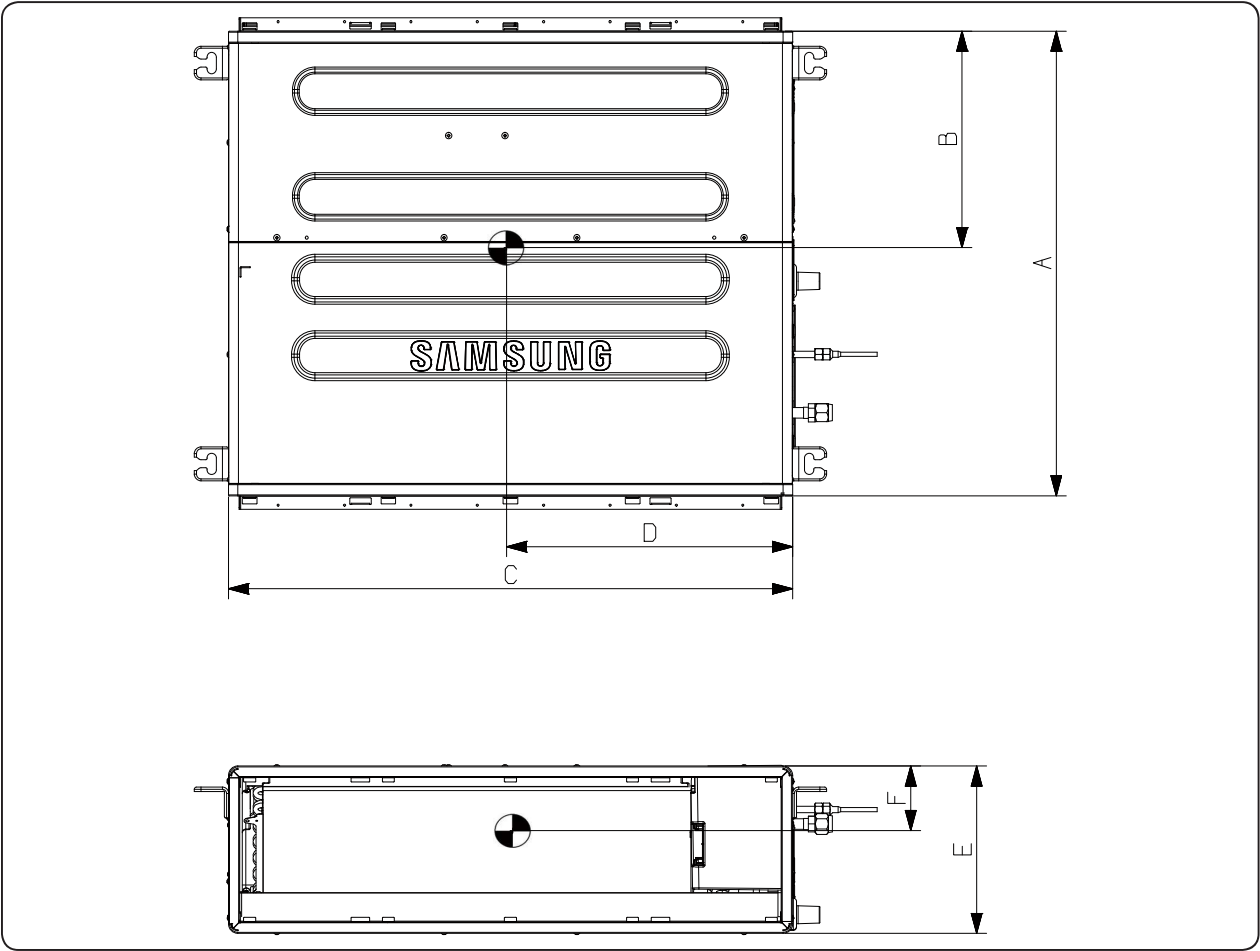


No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8~M10 bolt(4ea)

5. Center of Gravity

MSP Duct

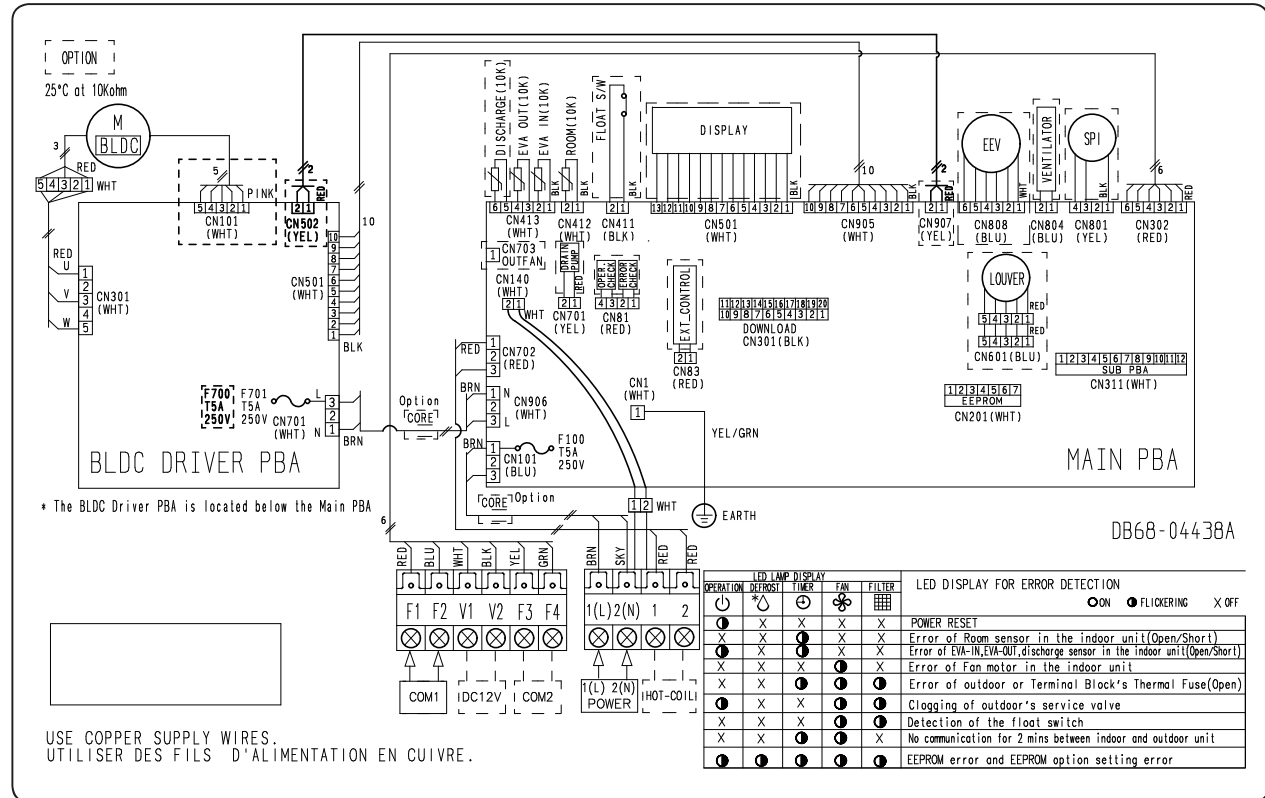
Units : mm [inches]



	A	B	C	D	E	F
~7.1kW	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	252 [9-15/16]	125 [4-15/16]
9.0kW ~ 10kW	700 [27-9/16]	265 [10-7/16]	1250 [49-3/16]	565 [18-5/16]	252 [9-15/16]	125 [4-15/16]
12kW ~ 14kW	700 [27-9/16]	265 [10-7/16]	1350 [53-1/8]	650 [25-5/8]	301 [11-13/16]	150 [5-15/16]

6. Electrical Wiring Diagram

MSP Duct



MAIN PBA	Printed Circuit Board(MAIN)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
BLDC DRIVER PBA	Printed Circuit Board(BLDC DRIVER)	EEX	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
SUB PBA	Printed Circuit Board(SUB)	EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)
M-BLDC	BLDC Motor			DISCHARGE(10K)	Thermistor DISCHARGE(10K)

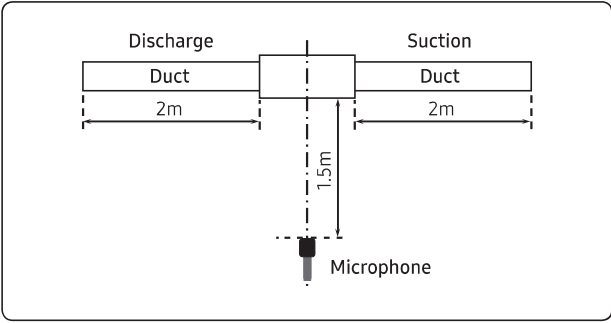
NOTE

- 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: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⊕ Protective earth(screw), □ : connector, $\frac{1}{2}$: The wire quantity

7. Sound Data

MSP Duct

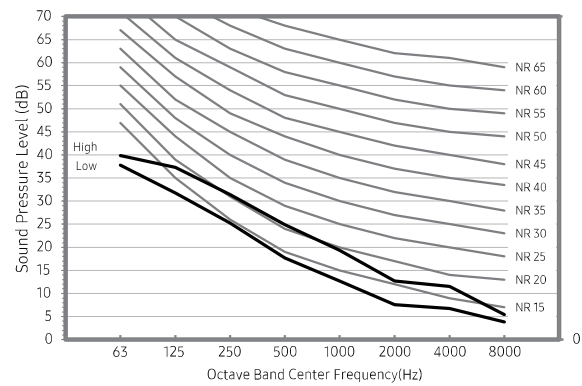
Sound Pressure level



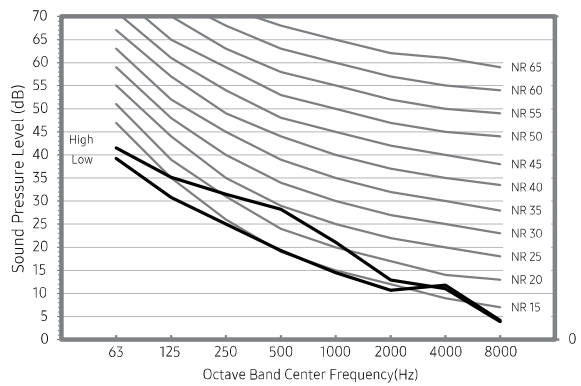
Unit: dB(A)

Model	Hi	MID	LOW
AC035MNMDKH/EU	28	25	22
AC052MNMDKH/EU	29	26	23
AC060MNMDKH/EU	30	27	24
AC071MNMDKH/EU	30	27	24

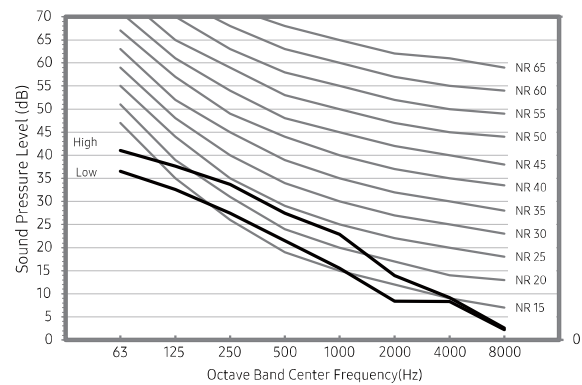
- NR Curve
1) AC035MNMDKH/EU



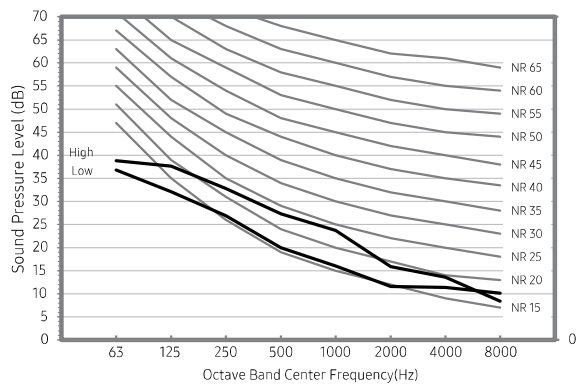
- 2) AC052MNMDKH/EU



- 3) AC060MNMDKH/EU



- 4) AC071MNMDKH/EU

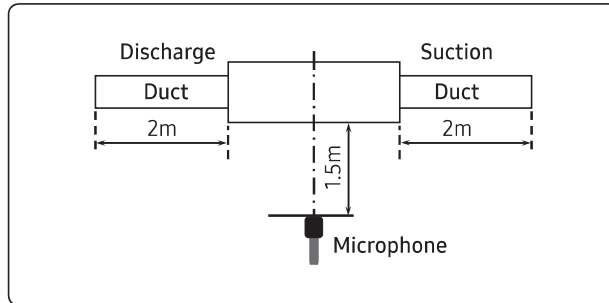


7. Sound Data

MSP Duct

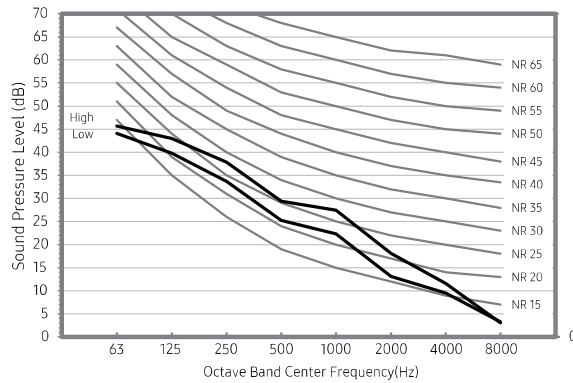
Sound Pressure level

Unit: dB(A)

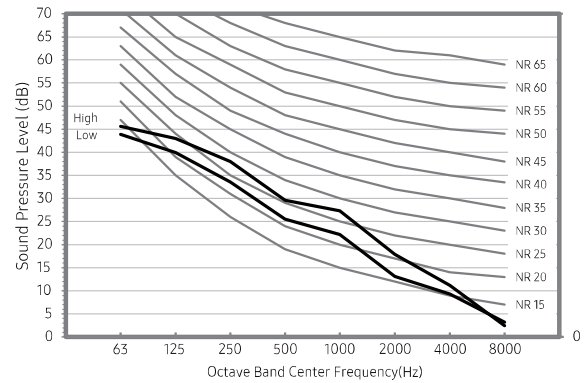


Model	Hi	MID	LOW
AC090MNMDKH/EU	34	32	30
AC100MNMDKH/EU	34	32	30
AC120MNMDKH/EU	37	34	30
AC140MNMDKH/EU	37	34	30

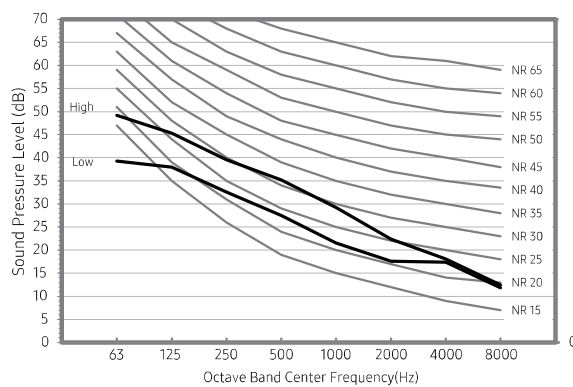
- NR Curve
- 5) AC090MNMDKH/EU



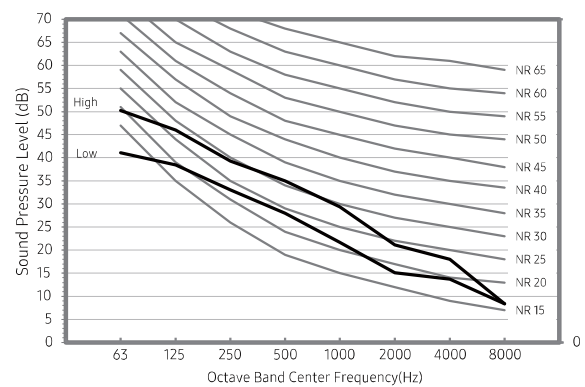
- 6) AC100MNMDKH/EU



- 7) AC120MNMDKH/EU



- 8) AC140MNMDKH/EU



7. Sound Data

MSP Duct

Sound Power level



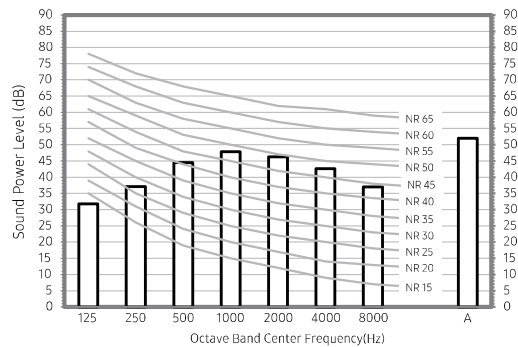
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dB(A) = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

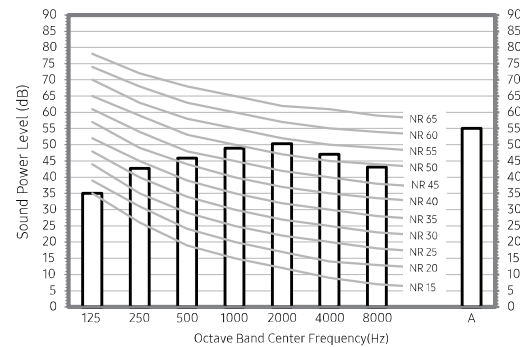
Model	Power
AC035MNMDKH/EU	52
AC052MNMDKH/EU	55
AC060MNMDKH/EU	56
AC071MNMDKH/EU	56

NR Curve

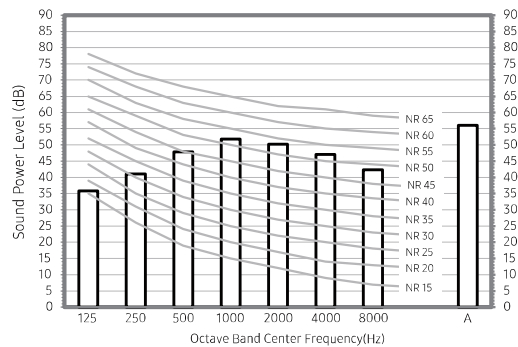
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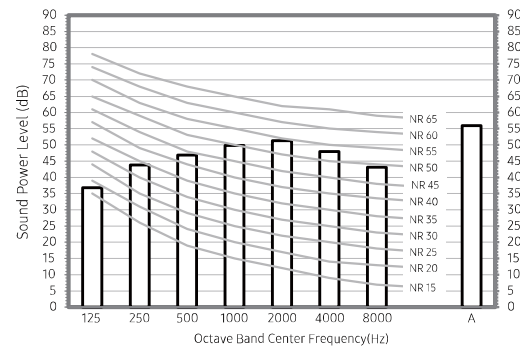
2) AC052MNMDKH/EU



3) AC060MNMDKH/EU



4) AC071MNMDKH/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

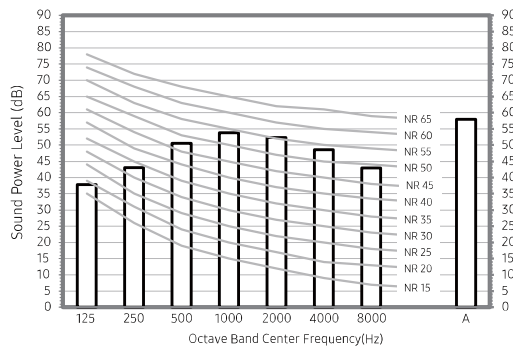
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

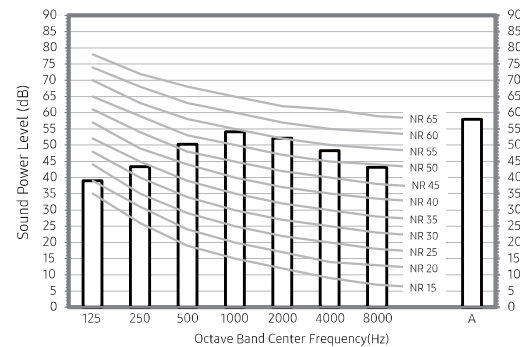
Model	Power
AC090MNMDKH/EU	58
AC100MNMDKH/EU	58
AC120MNMDKH/EU	62
AC140MNMDKH/EU	62

NR Curve

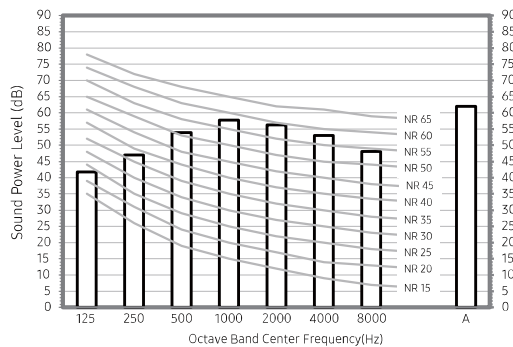
1) AC090MNMDKH/EU



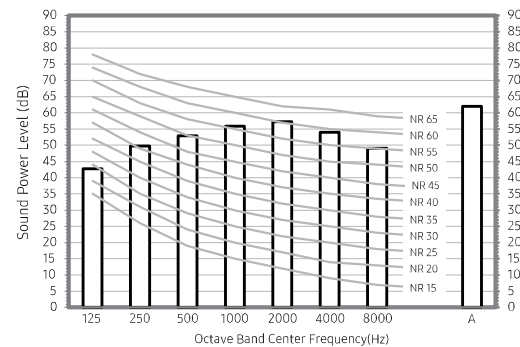
2) AC100MNMDKH/EU



3) AC120MNMDKH/EU



4) AC140MNMDKH/EU

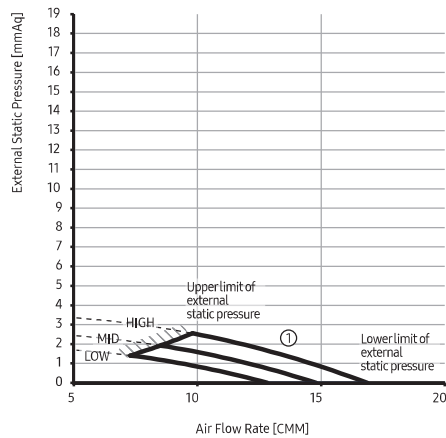


8. Fan Characteristics

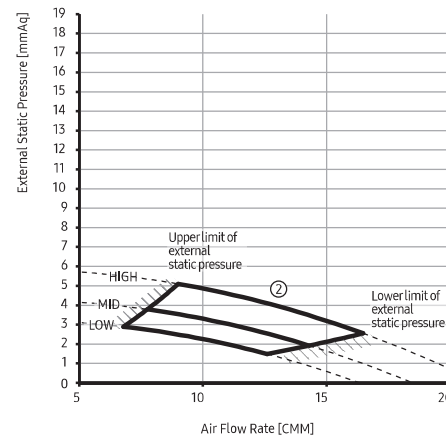
MSP Duct

1) AC035MNMDKH/EU

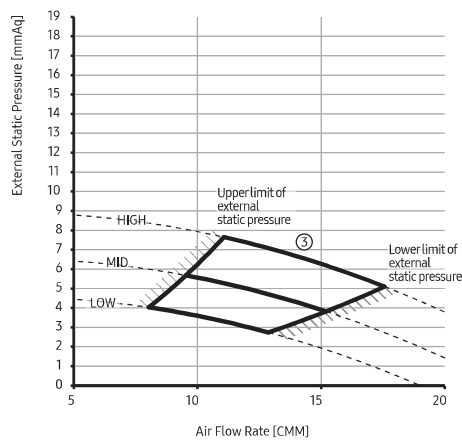
①	External Static Pressure(mmAq)	Option Code
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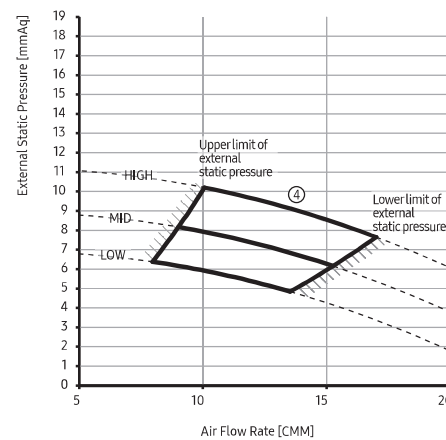
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	01B07C-1C5407-272328-372000



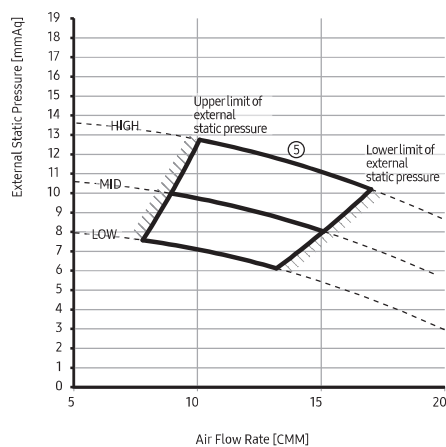
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	01B07C-1C548C-272328-372000



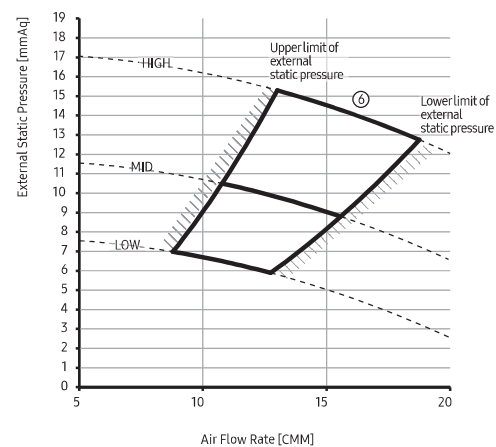
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	01B07C-1C55D3-272328-372000



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5	01B07C-1C5926-272328-372000



⑥	External Static Pressure(mmAq)	Option Code
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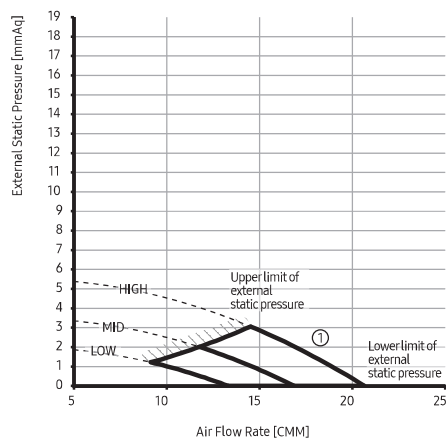


8. Fan Characteristics

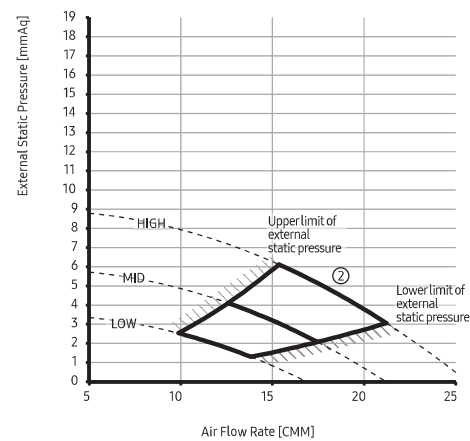
MSP Duct

2) AC052MNMDKH/EU

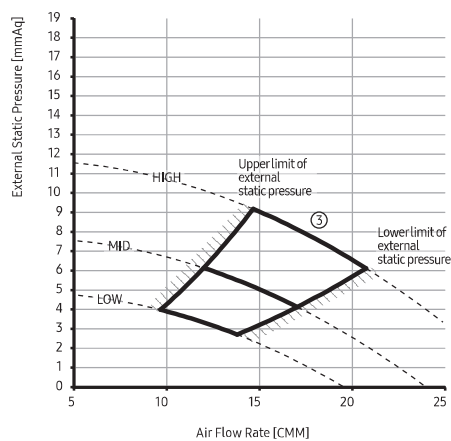
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 3	01B07C-1C50F1-27343C-374000



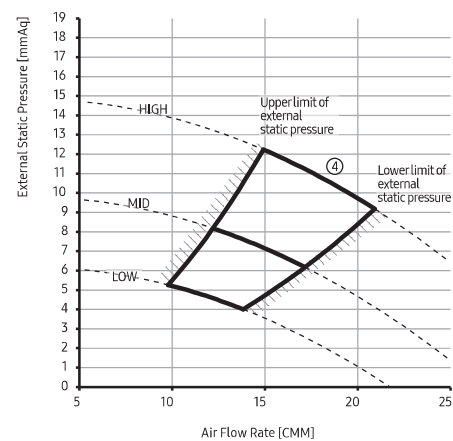
②	External Static Pressure(mmAq)	Option Code
	3 < SP ≤ 6	01B07C-1C5488-27343C-374000



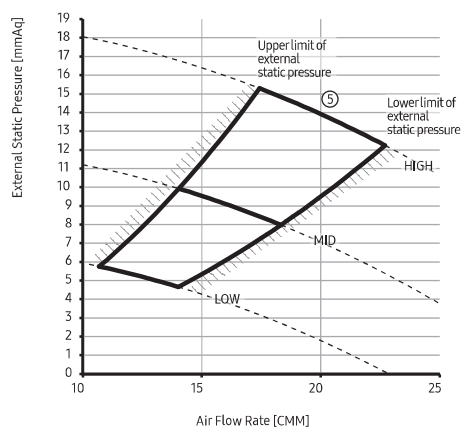
③	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 9	01B07C-1C54ED-27343C-374000



④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 12	01B07C-1C5941-27343C-374000



⑤	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C59B3-27343C-374000

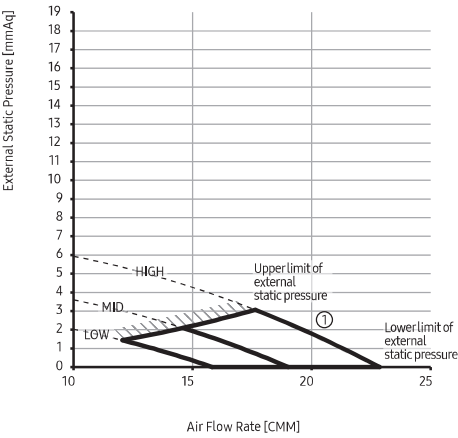


8. Fan Characteristics

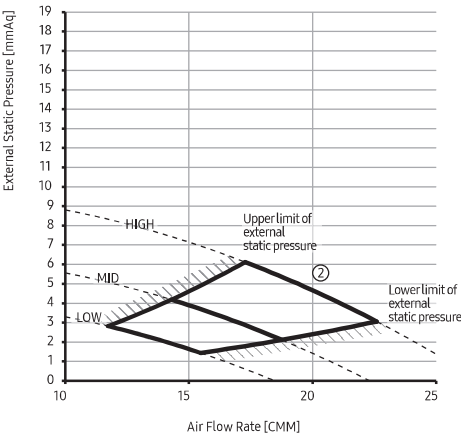
MSP Duct

3) AC060MNMDKH/EU

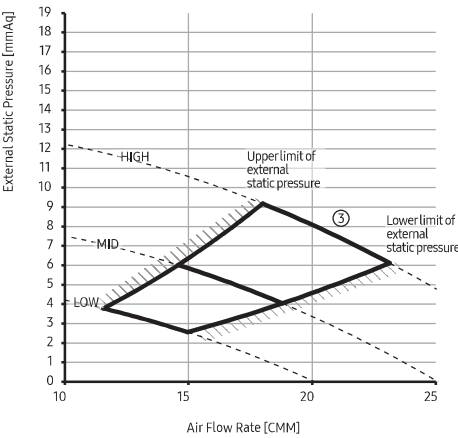
①	External Static Pressure(mmAq)	Option Code
	0≤ SP ≤3	01B07C-1C5436-273C46-376000



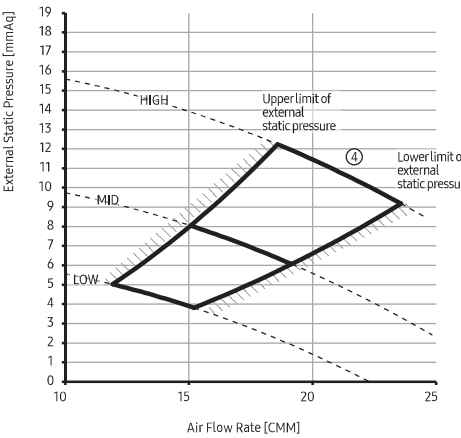
②	External Static Pressure(mmAq)	Option Code
	3< SP ≤6	01B07C-1C54AB-273C46-376000



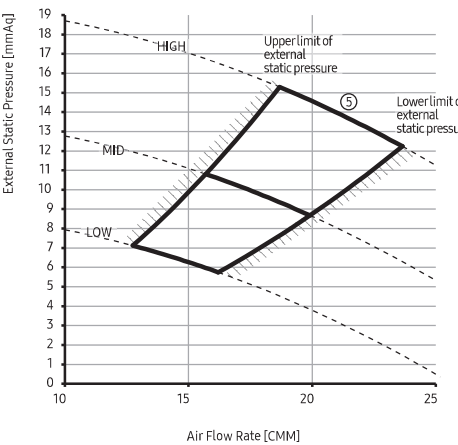
③	External Static Pressure(mmAq)	Option Code
	6< SP ≤9	01B07C-1C581E-273C46-376000



④	External Static Pressure(mmAq)	Option Code
	9< SP ≤12	01B07C-1C5972-273C46-376000



⑤	External Static Pressure(mmAq)	Option Code
	12< SP ≤15	01B07C-1C59C8-273C46-376000

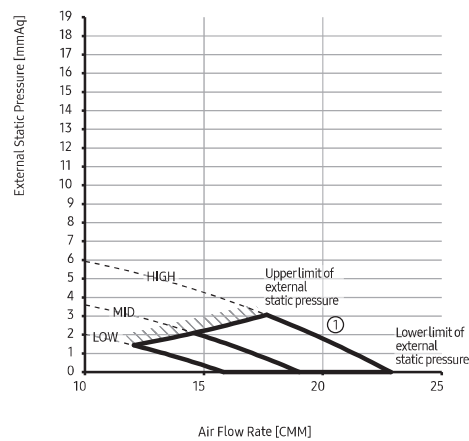


8. Fan Characteristics

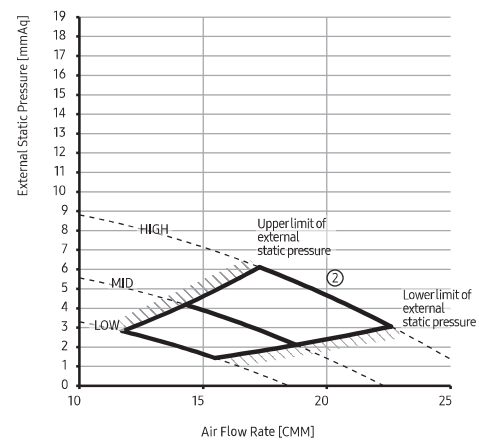
MSP Duct

4) AC071MNMDKH/EU

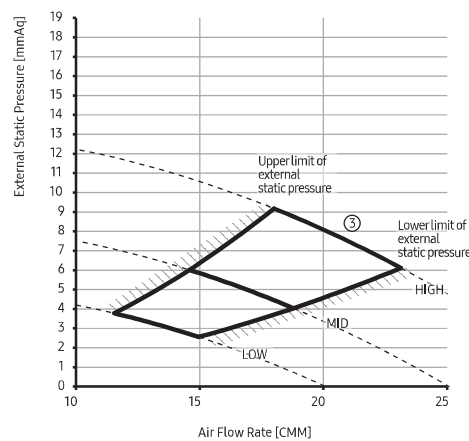
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 3	01B07C-1C5436-274750-376000



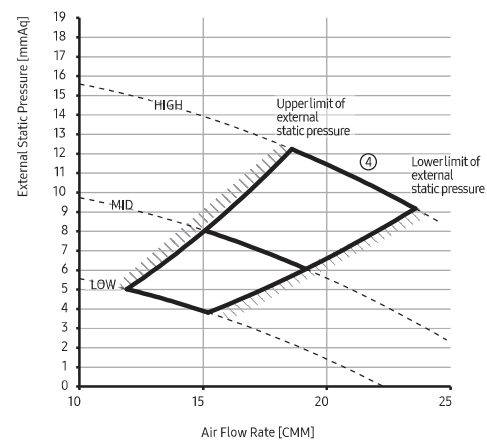
②	External Static Pressure(mmAq)	Option Code
	3 < SP ≤ 6	01B07C-1C54AB-274750-376000



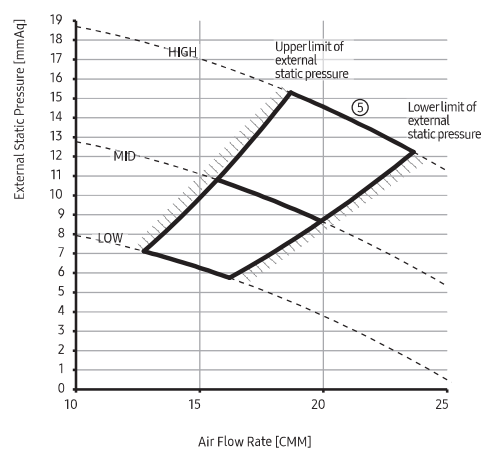
③	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 9	01B07C-1C581E-274750-376000



④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 12	01B07C-1C5972-274750-376000



⑤	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C59C8-274750-376000

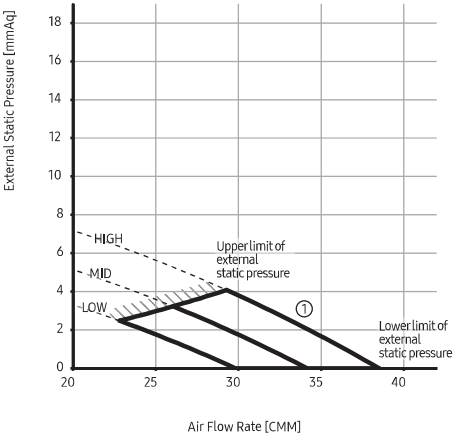


8. Fan Characteristics

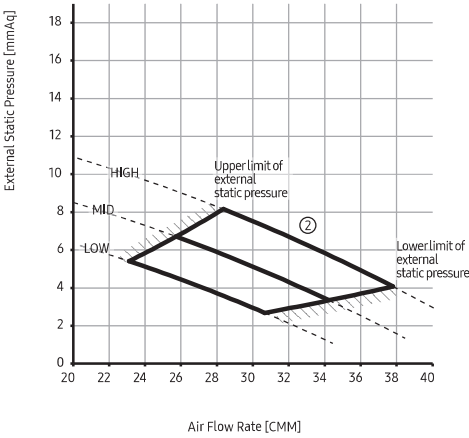
MSP Duct

5) AC090MNMDKH/EU

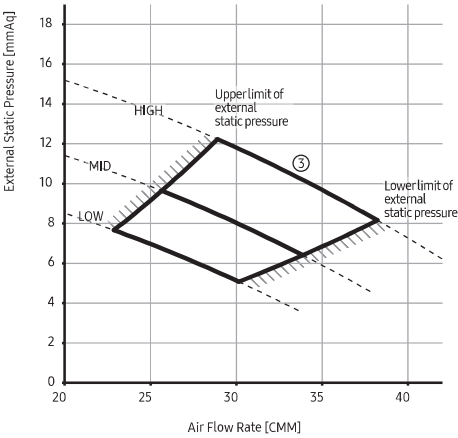
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 4	01B07C-1C549F-275A64-375020



②	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 8	01B07C-1C5917-275A64-375020



③	External Static Pressure(mmAq)	Option Code
	8 < SP ≤ 12	01B07C-1C599C-275A64-375020



④	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C5AE1-275A64-375020

