

SINGLE

Technical Data Book

Duct s for Europe (Premium Type)

SAMSUNG

[illegible]

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1 Nomenclature

Indoor Units

Model Names

AC

(1)

026

(2)

H

(3)

B

(4)

M

(5)

D

(6)

E

(7)

H

(8)

/**EU**

Buyer

(1) Classification

AC	CAC
----	-----

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

E	2012
F	2013
H	2014

(4) Product Type

B	Indoor Unit
C	Outdoor Unit

(5) Product Notation

1	1Way Cassette
N	4Way Cassette S (600 X 600)
4	4Way Cassette S
L	LSP Duct
M	MSP Duct
C	Ceiling
J	Console
A	Wall-Mounted

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz
K	1Ø, 220~240V, 50/60Hz

(8) Mode

H	Heat Pump(R410A)
C	Cooling Only(R410A)
E	Heat Pump(R22)
D	Cooling Only(R22)

1 Nomenclature

Outdoor Units

Model Names

AC

(1)

026

(2)

H

(3)

C

(4)

B

(5)

D

(6)

E

(7)

H

(8)

/**EU**

Buyer

(1) Classification

AC	CAC
----	-----

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

E	2012
F	2013
H	2014

(4) Product Type

B	Indoor Unit
C	Outdoor Unit

(5) Feature1

A	Inv+Side+General Temp
B	Non Inv+Side+General Temp

(6) Feature2

F	Standrad+Tropical+Non Module
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz
K	1Ø, 220~240V, 50/60Hz
N	3Ø, 380~415V, 50/60Hz

(8) Mode

H	Heat Pump(R410A)
C	Cooling Only(R410A)
E	Heat Pump(R22)
D	Cooling Only(R22)

2 Specifications

Duct S

Type				Duct S		Duct S			
Model Name		Indoor Unit		AC052HBMPKH/EU		AC071HBMPKH/EU			
		Outdoor Unit		AC052HCAPKH/EU		AC071HCAPKH/EU			
System	Mode			Heat Pump		Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	1.30 / 5.00 / 6.50		2.00 / 7.10 / 8.00		
				Btu/h	4,400 / 17,100 / 22,200		6,800 / 24,200 / 27,300		
		Heating(Min/Std/Max)		kW	1.10 / 6.00 / 8.00		1.50 / 8.00 / 10.00		
				Btu/h	3,800 / 20,500 / 27,300		5,100 / 27,300 / 34,100		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.35 / 1.40 / 2.10		0.41 / 2.00 / 3.00		
			Heating(Min/Std/Max)		0.26 / 1.65 / 2.80		0.35 / 2.10 / 3.50		
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	1.90 / 6.10 / 9.50		2.40 / 8.80 / 12.30		
			Heating(Min/Std/Max)		1.50 / 7.40 / 12.30		2.10 / 9.60 / 14.50		
		MCA		A	22.70 (MCA)		26.70 (MCA)		
		MFA		A	25.00		30.00		
	Energy Efficiency	EER (Nominal Cooling)		-	3.57		3.55		
		COP (Nominal Heating)		-	3.64		3.81		
		Energy Grade		-	SEER 6.30 (A++)		SEER 6.40 (A++)		
				-	SCOP 4.10 (A+)		SCOP 4.10 (A+)		
	Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35		
				Ø, inch	1/4"		1/4"		
		Gas Pipe		Ø, mm	12.70		15.88		
				Ø, inch	1/2"		5/8"		
		Installation Limitation	Max. Length	m	30 (35)		50 (55)		
			Max. Height	m	20 (20)		30 (30)		
	Field Wiring	Power Source Wire		Ø, mm	2.50 ~ 2.50		2.50 ~ 2.50		
		Transmission Cable		Ø, mm	0.75 ~ 1.25		0.75 ~ 1.25		
	Refrigerant	Type		-	R410A		R410A		
		Control Method		-	-		-		
		Factory Charging		kg	1.40		2.10		
	Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
		Fan	Type		-	Sirocco Fan(BLDC)		Sirocco Fan(BLDC)	
			Motor	Output	W	153 x 1		153 x 1	
					CMM	16.00 / 13.50 / 11.00		22.00 / 19.00 / 16.00	
Air Flow Rate			High/Mid/Low		l/s	266.67 / 225.00 / 183.33		366.67 / 316.67 / 266.67	
External Static Pressure			Min/Std/Max	mmAq	0.00 / 3.00 / 15.00		0.00 / 3.00 / 15.00		
		Pa		0.00 / 29.40 / 147.00		0.00 / 29.40 / 147.00			
Drain Pipe		Ø,mm		VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)			
Sound		Pressure	High/Mid/Low	dB(A)	33.0 / 30.0 / 27.0		36.0 / 32.0 / 28.0		
		Power			Cooling	53.0		56.0	
External Dimension		Net Weight		kg	25.00		32.00		
		Shipping Weight		kg	29.00		37.00		
		Net Dimensions (WxHxD)		mm	850 x 250 x 700		1,200 x 250 x 700		
		Shipping Dimensions (WxHxD)		mm	1,100 x 320 x 780		1,450 x 320 x 780		
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	-	-		-		
			Max. Lifting	mm/liter/h	-		-		
		Air Filter		-	-		-		
Outdoor Unit		Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
		Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary	
	Model		-	UG4T150LNBEQ		UG4T200LNFE4			
	Output		kW	-		-			
	Oil		Type	-	POE		POE		
		Fan			-	-			
	Air Flow Rate	Cooling	CMM	53.00		62.00			
			l/s	883.33		1,033.33			
	Sound	Pressure	Cooling/Heating	dB(A)	48.0 / 50.0		49.0 / 51.0		
					63.0		65.0		
	Power	Cooling		63.0		65.0			
				Net Weight		kg	54.00		64.50
	External Dimension	Shipping Weight		kg	58.00		69.50		
		Net Dimensions (WxHxD)		mm	880 x 798 x 310		940 x 998 x 330		
		Shipping Dimensions (WxHxD)		mm	1,023 x 891 x 413		995 x 1,096 x 426		
		Operating Temp. Range		°C	-15.0 ~ 50.0		-15.0 ~ 50.0		
	Cooling			°C	-20.0 ~ 24.0		-20.0 ~ 24.0		
	Heating			°C	-20.0 ~ 24.0		-20.0 ~ 24.0		

- All figures comply with EN14511

- Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Refrigerant piping : 5m , Level differences : 0m

- Nominal heating capacities are based on;

Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Refrigerant piping : 5m, Level differences : 0m

- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications may be subject to change without prior notice.

- These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Duct S

Type				Duct S		Duct S			
Model Name		Indoor Unit		AC090HBMPKH/EU		AC100HBMPKH/EU			
		Outdoor Unit		AC090HCAPKH/EU		AC100HCAPKH/EU			
System	Mode			Heat Pump		Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	3.20 / 9.00 / 11.00		3.50 / 10.00 / 12.00		
				Btu/h	10,900 / 30,700 / 37,500		11,900 / 34,100 / 40,900		
		Heating(Min/Std/Max)		kW	3.40 / 10.00 / 14.00		3.70 / 11.20 / 17.00		
				Btu/h	11,600 / 34,100 / 47,800		12,600 / 38,200 / 58,000		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.83 / 2.30 / 4.00		0.95 / 2.60 / 3.40		
			Heating(Min/Std/Max)		0.83 / 2.40 / 5.30		0.81 / 2.70 / 6.90		
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.30 / 10.00 / 17.70		5.00 / 12.00 / 15.20		
			Heating(Min/Std/Max)		4.30 / 10.80 / 22.90		4.30 / 12.10 / 30.00		
		MCA		A	26.70 (MCA)		34.70 (MCA)		
		MFA		A	30.00		40.00		
	Energy Efficiency	EER (Nominal Cooling)		-	3.91		3.85		
		COP (Nominal Heating)		-	4.17		4.15		
		Energy Grade		-	SEER 6.40 (A++)		SEER 6.60 (A++)		
				-	SCOP 4.00 (A+)		SCOP 4.30 (A+)		
	Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		
				Ø, inch	3/8"		3/8"		
		Gas Pipe		Ø, mm	15.88		15.88		
				Ø, inch	5/8"		5/8"		
		Installation Limitation	Max. Length	m	75 (75)		75 (75)		
			Max. Height	m	30 (30)		30 (30)		
	Field Wiring	Power Source Wire		Ø, mm	4.00 ~ 4.00		4.00 ~ 4.00		
		Transmission Cable		Ø, mm	0.75 ~ 1.25		0.75 ~ 1.25		
	Refrigerant	Type		-	R410A		R410A		
		Control Method		-	-		-		
		Factory Charging		kg	2.80		2.90		
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50			
	Fan	Type		-	Sirocco Fan(BLDC)		Sirocco Fan(BLDC)		
		Motor	Output	W	244 x 1		244 x 1		
				CMM	29.00 / 25.00 / 21.00		33.00 / 27.00 / 22.00		
		Air Flow Rate		High/Mid/Low	l/s	483.33 / 416.67 / 350.00		550.00 / 450.00 / 366.67	
		External Static Pressure		Min/Std/Max	mmAq	0.00 / 4.00 / 15.00		0.00 / 4.00 / 15.00	
					Pa	0.00 / 39.20 / 147.00		0.00 / 39.20 / 147.00	
	Drain	Drain Pipe		Ø,mm	VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)		
	Sound	Pressure	High/Mid/Low	dB(A)	36.0 / 33.0 / 30.0		37.0 / 34.0 / 31.0		
		Power	Cooling		59.0		61.0		
	External Dimension	Net Weight		kg	36.00		36.00		
		Shipping Weight		kg	42.00		42.00		
		Net Dimensions (WxHxD)		mm	1,300 x 300 x 700		1,300 x 300 x 700		
		Shipping Dimensions (WxHxD)		mm	1,550 x 370 x 780		1,550 x 370 x 780		
	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	-	-		-		
Max. Lifting			mm/liter/h	-		-			
Air Filter		-	-		-				
Outdoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50			
	Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary		
		Model		-	UG5T450FUEJXSG		UG5T450FXAJXSG		
		Output		kW	4.12		4.01		
		Oil	Type	-	POE		POE		
	Fan			-	-		-		
	Air Flow Rate	Cooling	CMM	86.00		96.00			
			l/s	1,433.33		1,600.00			
	Sound	Pressure	Cooling/Heating	dB(A)	49.0 / 51.0		49.0 / 51.0		
					65.0		66.0		
	External Dimension	Net Weight		kg	88.00		95.00		
		Shipping Weight		kg	98.00		105.00		
		Net Dimensions (WxHxD)		mm	940 x 1,210 x 330		940 x 1,420 x 330		
		Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426		995 x 1,597 x 426		
		Operating Temp. Range		°C	-15.0 ~ 50.0		-15.0 ~ 50.0		
		Cooling		°C	-20.0 ~ 24.0		-20.0 ~ 24.0		
Heating		°C		-20.0 ~ 24.0		-20.0 ~ 24.0			

- All figures comply with EN14511

- Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Refrigerant piping : 5m , Level differences : 0m

- Nominal heating capacities are based on;

Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Refrigerant piping : 5m, Level differences : 0m

- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications may be subject to change without prior notice.

- These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Duct S

Type				Duct S		Duct S				
Model Name		Indoor Unit		AC100HBMPKH/EU		AC120HBMPKH/EU				
		Outdoor Unit		AC100HCAPNH/EU		AC120HCAPKH/EU				
System	Mode			Heat Pump		Heat Pump				
	Capacity	Cooling(Min/Std/Max)		kW	3.50 / 10.00 / 12.00		3.50 / 12.00 / 14.00			
				Btu/h	11,900 / 34,100 / 40,900		11,900 / 40,900 / 47,800			
		Heating(Min/Std/Max)		kW	3.70 / 11.20 / 17.00		3.70 / 14.00 / 19.00			
				Btu/h	12,600 / 38,200 / 58,000		12,600 / 47,800 / 64,800			
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.95 / 2.60 / 3.40		0.95 / 3.50 / 4.50			
			Heating(Min/Std/Max)		0.81 / 2.70 / 6.90		0.81 / 3.50 / 7.20			
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	1.70 / 4.20 / 7.50		5.00 / 16.00 / 20.00			
			Heating(Min/Std/Max)		1.50 / 4.30 / 10.40		4.50 / 15.80 / 31.00			
		MCA		A	14.70 (MCA)		34.70 (MCA)			
		MFA		A	16.20		40.00			
	Energy Efficiency	EER (Nominal Cooling)		-	3.85		3.43			
		COP (Nominal Heating)		-	4.15		4.00			
		Energy Grade		-	SEER 6.60 (A++)		SEER 6.10 (A++)			
				-	SCOP 4.30 (A+)		SCOP 4.20 (A+)			
	Piping Connections	Liquid Pipe			Ø, mm	9.52		9.52		
					Ø, inch	3/8"		3/8"		
			Gas Pipe			Ø, mm	15.88		15.88	
						Ø, inch	5/8"		5/8"	
		Installation Limitation	Max. Length	m	75 (75)		75 (75)			
			Max. Height	m	30 (30)		30 (30)			
	Field Wiring	Power Source Wire		Ø, mm	2.50 ~ 2.50		4.00 ~ 4.00			
		Transmission Cable		Ø, mm	0.75 ~ 1.25		0.75 ~ 1.25			
	Refrigerant	Type		-	R410A		R410A			
		Control Method		-	-		-			
		Factory Charging		kg	2.90		2.90			
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50			
	Fan	Type		-	Sirocco Fan(BLDC)		Sirocco Fan(BLDC)			
		Motor	Output	W	244 x 1		244 x 1			
				CMM	33.00 / 27.00 / 22.00		38.00 / 32.00 / 25.00			
		Air Flow Rate		High/Mid/Low	l/s	550.00 / 450.00 / 366.67		633.33 / 533.33 / 416.67		
		External Static Pressure		Min/Std/Max	mmAq	0.00 / 4.00 / 15.00		0.00 / 5.20 / 15.00		
					Pa	0.00 / 39.20 / 147.00		0.00 / 50.96 / 147.00		
	Drain	Drain Pipe		Ø,mm	VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)			
	Sound	Pressure	High/Mid/Low	dB(A)	37.0 / 34.0 / 31.0		39.0 / 36.0 / 33.0			
		Power			Cooling	61.0		65.0		
	External Dimension	Net Weight		kg	36.00		36.00			
		Shipping Weight		kg	42.00		42.00			
		Net Dimensions (WxHxD)		mm	1,300 x 300 x 700		1,300 x 300 x 700			
		Shipping Dimensions (WxHxD)		mm	1,550 x 370 x 780		1,550 x 370 x 780			
		Panel model		-	-		-			
	Panel Size	Panel Net Weight		kg	-		-			
		Shipping Weight		kg	-		-			
		Net Dimensions (WxHxD)		mm	-		-			
		Shipping Dimensions (WxHxD)		mm	-		-			
		Additional Accessories	Drain pump	Drain pump	-	-		-		
	Max. Lifting		mm/liter/h	-		-				
	Air Filter		-	-		-				
	Outdoor Unit	Power Supply			Ø, #, V, Hz	3,4,380-415,50		1,2,220-240,50		
		Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary		
			Model		-	UG5T450FXAJXSG		UG5T450FXAJXSG		
			Output		kW	4.01		4.01		
Oil			Type	-	POE		POE			
		Fan			-	-				
Air Flow Rate		Cooling	CMM	96.00		115.00				
			l/s	1,600.00		1,916.67				
Sound		Pressure	Cooling/Heating	dB(A)	49.0 / 51.0		50.0 / 52.0			
					66.0		67.0			
External Dimension		Net Weight		kg	96.00		95.00			
		Shipping Weight		kg	106.00		105.00			
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330		940 x 1,420 x 330			
		Shipping Dimensions (WxHxD)		mm	995 x 1,597 x 426		995 x 1,597 x 426			
		Operating Temp. Range		Cooling		°C	-15.0 ~ 50.0		-15.0 ~ 50.0	
Heating				°C	-20.0 ~ 24.0		-20.0 ~ 24.0			

- All figures comply with EN14511

- Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Refrigerant piping : 5m , Level differences : 0m

- Nominal heating capacities are based on;

Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Refrigerant piping : 5m, Level differences : 0m

- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications may be subject to change without prior notice.

- These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Duct S

Type				Duct S		Duct S			
Model Name		Indoor Unit		AC120HBMPKH/EU		AC140HBMPKH/EU			
		Outdoor Unit		AC120HCAPNH/EU		AC140HCAPKH/EU			
System	Mode			Heat Pump		Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	3.50 / 12.00 / 14.00		3.50 / 14.00 / 15.40		
				Btu/h	11,900 / 40,900 / 47,800		11,900 / 47,800 / 52,500		
		Heating(Min/Std/Max)		kW	3.70 / 14.00 / 19.00		3.70 / 16.00 / 21.00		
				Btu/h	12,600 / 47,800 / 64,800		12,600 / 54,600 / 71,700		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.95 / 3.50 / 4.50		0.95 / 4.20 / 5.40		
			Heating(Min/Std/Max)		0.81 / 3.50 / 7.20		0.85 / 4.30 / 7.50		
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	1.90 / 5.80 / 7.40		5.00 / 19.80 / 24.00		
			Heating(Min/Std/Max)		1.70 / 5.80 / 10.80		4.50 / 19.70 / 31.60		
		MCA		A	14.70 (MCA)		34.70 (MCA)		
		MFA		A	16.20		40.00		
	Energy Efficiency	EER (Nominal Cooling)		-	3.43		3.33		
		COP (Nominal Heating)		-	4.00		3.72		
		Energy Grade		-	SEER 6.10 (A++)		-		
				-	SCOP 4.20 (A+)		-		
	Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		
				Ø, inch	3/8"		3/8"		
		Gas Pipe		Ø, mm	15.88		15.88		
				Ø, inch	5/8"		5/8"		
		Installation Limitation	Max. Length	m	75 (75)		75 (75)		
			Max. Height	m	30 (30)		30 (30)		
	Field Wiring	Power Source Wire		Ø, mm	2.50 ~ 2.50		4.00 ~ 4.00		
		Transmission Cable		Ø, mm	0.75 ~ 1.25		0.75 ~ 1.25		
	Refrigerant	Type		-	R410A		R410A		
		Control Method		-	-		-		
		Factory Charging		kg	2.90		2.90		
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50			
	Fan	Type		-	Sirocco Fan(BLDC)		Sirocco Fan(BLDC)		
		Motor	Output	W	244 x 1		244 x 1		
				CMM	38.00 / 32.00 / 25.00		42.00 / 34.00 / 25.00		
		Air Flow Rate		High/Mid/Low	l/s	633.33 / 533.33 / 416.67		700.00 / 566.67 / 416.67	
		External Static Pressure	Min/Std/Max	mmAq	0.00 / 5.20 / 15.00		0.00 / 5.20 / 15.00		
	Pa			0.00 / 50.96 / 147.00		0.00 / 50.96 / 147.00			
	Drain	Drain Pipe		Ø,mm	VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)		
	Sound	Pressure	High/Mid/Low	dB(A)	39.0 / 36.0 / 33.0		40.0 / 37.0 / 33.0		
		Power	Cooling		65.0		66.0		
	External Dimension	Net Weight		kg	36.00		36.00		
		Shipping Weight		kg	42.00		42.00		
		Net Dimensions (WxHxD)		mm	1,300 x 300 x 700		1,300 x 300 x 700		
		Shipping Dimensions (WxHxD)		mm	1,550 x 370 x 780		1,550 x 370 x 780		
	Panel Size	Panel model		-	-		-		
		Panel Net Weight		kg	-		-		
		Shipping Weight		kg	-		-		
		Net Dimensions (WxHxD)		mm	-		-		
	Additional Accessories	Shipping Dimensions (WxHxD)		mm	-		-		
		Drain pump	Drain pump	-	-		-		
			Max. Lifting	mm/liter/h	-		-		
Air Filter		-	-		-				
Outdoor Unit	Power Supply		Ø, #, V, Hz	3,4,380-415,50		1,2,220-240,50			
	Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary		
		Model		-	UG5T450FXAJXSG		UG5T450FXAJXSG		
		Output		kW	4.01		4.01		
		Oil	Type	-	POE		POE		
	Fan			-	-		-		
	Air Flow Rate	Cooling	CMM	115.00		115.00			
			l/s	1,916.67		1,916.67			
	Sound	Pressure	Cooling/Heating	dB(A)	50.0 / 52.0		51.0 / 53.0		
					67.0		69.0		
	External Dimension	Net Weight		kg	96.00		95.00		
		Shipping Weight		kg	106.00		105.00		
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330		940 x 1,420 x 330		
		Shipping Dimensions (WxHxD)		mm	995 x 1,597 x 426		995 x 1,597 x 426		
		Operating Temp. Range		°C	-15.0 ~ 50.0		-15.0 ~ 50.0		
		Cooling		°C	-20.0 ~ 24.0		-20.0 ~ 24.0		
Heating		°C		-20.0 ~ 24.0		-20.0 ~ 24.0			

- All figures comply with EN14511

- Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Refrigerant piping : 5m , Level differences : 0m

- Nominal heating capacities are based on;

Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Refrigerant piping : 5m, Level differences : 0m

- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications may be subject to change without prior notice.

- These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Duct S

Type				Duct S			
Model Name		Indoor Unit		AC140HBMKPH/EU			
		Outdoor Unit		AC140HCAPNH/EU			
System	Mode			Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	3.50 / 14.00 / 15.40		
				Btu/h	11,900 / 47,800 / 52,500		
		Heating(Min/Std/Max)		kW	3.70 / 16.00 / 21.00		
				Btu/h	12,600 / 54,600 / 71,700		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.95 / 4.20 / 5.40		
			Heating(Min/Std/Max)		0.85 / 4.30 / 7.50		
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	1.90 / 6.80 / 8.50		
			Heating(Min/Std/Max)		1.70 / 6.90 / 11.20		
		MCA		A	14.70 (MCA)		
		MFA		A	16.20		
	Energy Efficiency	EER (Nominal Cooling)		-	3.33		
		COP (Nominal Heating)		-	3.72		
		Energy Grade		-	-		
				-	-		
	Piping Connections	Liquid Pipe		Ø, mm	9.52		
				Ø, inch	3/8"		
		Gas Pipe		Ø, mm	15.88		
				Ø, inch	5/8"		
		Installation Limitation	Max. Length	m	75 (75)		
			Max. Height	m	30 (30)		
	Field Wiring	Power Source Wire		Ø, mm	2.50 ~ 2.50		
		Transmission Cable		Ø, mm	0.75 ~ 1.25		
	Refrigerant	Type		-	R410A		
		Control Method		-	-		
		Factory Charging		kg	2.90		
	Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50		
		Fan	Type		-	Sirocco Fan(BLDC)	
			Motor	Output	W	244 x 1	
					CMM	42.00 / 34.00 / 25.00	
Air Flow Rate			High/Mid/Low	l/s	700.00 / 566.67 / 416.67		
External Static Pressure			Min/Std/Max	mmAq	0.00 / 5.20 / 15.00		
		Pa		0.00 / 50.96 / 147.00			
Drain		Drain Pipe		Ø,mm	VP20 (OD 26,ID 20)		
Sound		Pressure	High/Mid/Low	dB(A)	40.0 / 37.0 / 33.0		
		Power	Cooling		66.0		
External Dimension		Net Weight		kg	36.00		
		Shipping Weight		kg	42.00		
		Net Dimensions (WxHxD)		mm	1,300 x 300 x 700		
		Shipping Dimensions (WxHxD)		mm	1,550 x 370 x 780		
		Panel model		-	-		
Panel Size		Panel Net Weight		kg	-		
		Shipping Weight		kg	-		
		Net Dimensions (WxHxD)		mm	-		
		Shipping Dimensions (WxHxD)		mm	-		
Additional Accessories		Drain pump	Drain pump	-	-		
			Max. Lifting	mm/liter/h	-		
		Air Filter		-	-		
Outdoor Unit		Power Supply		Ø, #, V, Hz	3,4,380-415,50		
	Compressor	Type		-	Twin BLDC Rotary		
		Model		-	UG5T450FXAJXSG		
		Output		kW	4.01		
		Oil	Type	-	POE		
	Fan	Air Flow Rate	Cooling	CMM	115.00		
				l/s	1,916.67		
	Sound	Pressure	Cooling/Heating	dB(A)	51.0 / 53.0		
		Power	Cooling		69.0		
	External Dimension	Net Weight		kg	96.00		
		Shipping Weight		kg	106.00		
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330		
		Shipping Dimensions (WxHxD)		mm	995 x 1,597 x 426		
	Operating Temp. Range	Cooling		°C	-15.0 ~ 50.0		
		Heating		°C	-20.0 ~ 24.0		

- All figures comply with EN14511

- Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Refrigerant piping : 5m , Level differences : 0m

- Nominal heating capacities are based on;

Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Refrigerant piping : 5m, Level differences : 0m

- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications may be subject to change without prior notice.

- These products contain R410A which is fluorinated greenhouse gas.

3 Capacity table

Duct S

AC052HBMPKH/EU + AC052HCAPKH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	5.95	4.76	1.10	6.10	4.88	1.12	6.25	5.00	1.15	6.40	5.12	1.18	6.55	5.24	1.21	6.71	5.37	1.24
21.0	5.72	4.57	1.18	5.86	4.69	1.21	6.00	4.80	1.24	6.15	4.92	1.27	6.30	5.04	1.30	6.45	5.16	1.33
35.0	4.65	3.72	1.30	4.76	3.81	1.33	4.88	3.90	1.37	5.00	4.00	1.40	5.12	4.10	1.43	5.24	4.19	1.47
46.0	5.02	4.02	2.42	5.14	4.12	2.48	5.27	4.22	2.54	5.40	4.32	2.60	5.53	4.42	2.66	5.66	4.53	2.73
52.0	4.28	3.42	2.51	4.38	3.51	2.57	4.49	3.59	2.64	4.60	3.68	2.70	4.71	3.77	3.35	4.82	3.86	3.43

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	3.16	1.63	3.13	1.62	3.10	1.60	3.07	1.58	3.04	1.57	3.01	1.55
-10.0	5.20	2.14	5.15	2.12	5.10	2.10	5.05	2.08	5.00	2.06	4.95	2.04
7.0	6.12	1.68	6.06	1.67	6.00	1.65	5.94	1.63	5.88	1.62	5.82	1.60
24.0	8.36	1.94	8.28	1.92	8.20	1.90	8.12	1.88	8.04	1.86	7.96	1.84

AC071HBMPKH/EU + AC071HCAPKH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	7.53	6.02	1.59	7.72	6.17	1.63	7.91	6.32	1.67	8.10	6.48	1.71	8.29	6.64	1.75	8.49	6.79	1.79
21.0	7.25	5.80	1.67	7.43	5.94	1.71	7.61	6.09	1.76	7.80	6.24	1.80	7.99	6.39	1.84	8.18	6.54	1.89
35.0	6.60	5.28	1.86	6.76	5.41	1.91	6.93	5.54	1.95	7.10	5.68	2.00	7.27	5.82	2.05	7.44	5.96	2.10
46.0	6.97	5.58	3.07	7.14	5.72	3.14	7.32	5.86	3.22	7.50	6.00	3.30	7.68	6.14	3.38	7.86	6.29	3.46
52.0	6.04	4.83	3.25	6.19	4.95	3.33	6.34	5.08	3.42	6.50	5.20	3.50	6.66	5.32	4.34	6.82	5.45	4.44

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	4.49	2.04	4.44	2.02	4.40	2.00	4.36	1.98	4.31	1.96	4.27	1.94
-10.0	7.14	2.45	7.07	2.42	7.00	2.40	6.93	2.38	6.86	2.35	6.79	2.33
7.0	8.16	2.14	8.08	2.12	8.00	2.10	7.92	2.08	7.84	2.06	7.76	2.04
24.0	11.32	2.86	11.21	2.83	11.10	2.80	10.99	2.77	10.88	2.74	10.77	2.72

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

3 Capacity table

Duct S

AC090HBMPKH/EU + AC090HCAPKH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	10.57	8.46	2.25	10.83	8.66	2.31	11.10	8.88	2.36	11.37	9.10	2.42	11.64	9.31	2.48	11.92	9.54	2.54
21.0	11.25	9.00	2.32	11.53	9.22	2.38	11.81	9.45	2.44	12.10	9.68	2.50	12.39	9.91	2.56	12.69	10.15	2.62
35.0	8.37	6.69	2.14	8.57	6.86	2.19	8.78	7.03	2.24	9.00	7.20	2.30	9.22	7.37	2.36	9.44	7.55	2.41
46.0	8.37	6.69	3.44	8.57	6.86	3.52	8.78	7.03	3.61	9.00	7.20	3.70	9.22	7.37	3.79	9.44	7.55	3.88
52.0	5.86	4.69	2.98	6.00	4.80	3.05	6.15	4.92	3.12	6.30	5.04	3.20	6.45	5.16	3.97	6.61	5.28	4.06

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	8.98	4.28	8.89	4.24	8.80	4.20	8.71	4.16	8.62	4.12	8.54	4.08
-10.0	11.94	4.79	11.82	4.75	11.70	4.70	11.58	4.65	11.47	4.61	11.35	4.56
7.0	10.20	2.45	10.10	2.42	10.00	2.40	9.90	2.38	9.80	2.35	9.70	2.33
24.0	15.20	3.19	15.05	3.16	14.90	3.13	14.75	3.10	14.60	3.07	14.46	3.04

AC100HBMPKH/EU + AC100HCAPKH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	12.43	9.95	3.19	12.74	10.19	3.27	13.05	10.44	3.35	13.37	10.70	3.43	13.69	10.95	3.51	14.02	11.22	3.60
21.0	13.07	10.46	3.27	13.39	10.71	3.35	13.72	10.98	3.43	14.06	11.25	3.51	14.39	11.52	3.60	14.74	11.79	3.68
35.0	9.30	7.44	2.42	9.53	7.62	2.48	9.76	7.81	2.54	10.00	8.00	2.60	10.24	8.19	2.66	10.49	8.39	2.73
46.0	8.02	6.42	3.67	8.22	6.58	3.76	8.42	6.74	3.85	8.63	6.90	3.94	8.84	7.07	4.04	9.05	7.24	4.13
52.0	5.19	4.15	2.71	5.32	4.25	2.78	5.45	4.36	2.84	5.58	4.46	2.91	5.71	4.57	3.61	5.85	4.68	3.70

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.60	3.64	7.53	3.60	7.45	3.56	7.38	3.53	7.30	3.49	7.23	3.46
-10.0	12.31	5.62	12.19	5.56	12.07	5.51	11.95	5.45	11.83	5.40	11.71	5.34
7.0	11.43	2.75	11.31	2.73	11.20	2.70	11.09	2.67	10.98	2.65	10.87	2.62
24.0	16.69	3.80	16.53	3.76	16.36	3.73	16.20	3.69	16.04	3.65	15.88	3.62

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

3 Capacity table

Duct S

AC100HBMPKH/EU + AC100HCAPNH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	12.43	9.95	3.19	12.74	10.19	3.27	13.05	10.44	3.35	13.37	10.70	3.43	13.69	10.95	3.51	14.02	11.22	3.60
21.0	13.07	10.46	3.27	13.39	10.71	3.35	13.72	10.98	3.43	14.06	11.25	3.51	14.39	11.52	3.60	14.74	11.79	3.68
35.0	9.30	7.44	2.42	9.53	7.62	2.48	9.76	7.81	2.54	10.00	8.00	2.60	10.24	8.19	2.66	10.49	8.39	2.73
46.0	8.02	6.42	3.67	8.22	6.58	3.76	8.42	6.74	3.85	8.63	6.90	3.94	8.84	7.07	4.04	9.05	7.24	4.13
52.0	5.19	4.15	2.71	5.32	4.25	2.78	5.45	4.36	2.84	5.58	4.46	2.91	5.71	4.57	3.61	5.85	4.68	3.70

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	7.60	3.64	7.53	3.60	7.45	3.56	7.38	3.53	7.30	3.49	7.23	3.46
-10.0	12.31	5.62	12.19	5.56	12.07	5.51	11.95	5.45	11.83	5.40	11.71	5.34
7.0	11.43	2.75	11.31	2.73	11.20	2.70	11.09	2.67	10.98	2.65	10.87	2.62
24.0	16.69	3.80	16.53	3.76	16.36	3.73	16.20	3.69	16.04	3.65	15.88	3.62

AC120HBMPKH/EU + AC120HCAPKH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	13.47	10.77	3.45	13.80	11.04	3.54	14.14	11.31	3.63	14.49	11.59	3.71	14.83	11.87	3.80	15.19	12.15	3.89
21.0	14.16	11.33	3.54	14.51	11.61	3.63	14.86	11.89	3.72	15.23	12.18	3.81	15.59	12.48	3.90	15.97	12.77	3.99
35.0	11.16	8.93	3.25	11.43	9.14	3.33	11.71	9.37	3.42	12.00	9.60	3.50	12.29	9.83	3.58	12.58	10.07	3.67
46.0	9.55	7.64	3.97	9.78	7.83	4.07	10.02	8.02	4.17	10.27	8.22	4.27	10.52	8.41	4.37	10.77	8.62	4.48
52.0	6.13	4.90	2.94	6.28	5.02	3.01	6.43	5.15	3.08	6.59	5.27	3.16	6.75	5.40	3.91	6.91	5.53	4.01

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	8.45	4.04	8.36	4.00	8.28	3.96	8.20	3.92	8.12	3.88	8.03	3.84
-10.0	13.68	6.24	13.54	6.18	13.41	6.12	13.28	6.06	13.14	6.00	13.01	5.94
7.0	14.28	3.57	14.14	3.54	14.00	3.50	13.86	3.47	13.72	3.43	13.58	3.40
24.0	18.55	4.22	18.36	4.18	18.18	4.14	18.00	4.10	17.82	4.06	17.64	4.02

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

3 Capacity table

Duct S

AC120HBMPKH/EU + AC120HCAPNH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	13.47	10.77	3.45	13.80	11.04	3.54	14.14	11.31	3.63	14.49	11.59	3.71	14.83	11.87	3.80	15.19	12.15	3.89
21.0	14.16	11.33	3.54	14.51	11.61	3.63	14.86	11.89	3.72	15.23	12.18	3.81	15.59	12.48	3.90	15.97	12.77	3.99
35.0	11.16	8.93	3.25	11.43	9.14	3.33	11.71	9.37	3.42	12.00	9.60	3.50	12.29	9.83	3.58	12.58	10.07	3.67
46.0	9.55	7.64	3.97	9.78	7.83	4.07	10.02	8.02	4.17	10.27	8.22	4.27	10.52	8.41	4.37	10.77	8.62	4.48
52.0	6.13	4.90	2.94	6.28	5.02	3.01	6.43	5.15	3.08	6.59	5.27	3.16	6.75	5.40	3.91	6.91	5.53	4.01

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	8.45	4.04	8.36	4.00	8.28	3.96	8.20	3.92	8.12	3.88	8.03	3.84
-10.0	13.68	6.24	13.54	6.18	13.41	6.12	13.28	6.06	13.14	6.00	13.01	5.94
7.0	14.28	3.57	14.14	3.54	14.00	3.50	13.86	3.47	13.72	3.43	13.58	3.40
24.0	18.55	4.22	18.36	4.18	18.18	4.14	18.00	4.10	17.82	4.06	17.64	4.02

AC140HBMPKH/EU + AC140HCAPKH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	14.50	11.60	3.72	14.86	11.89	3.81	15.23	12.18	3.90	15.60	12.48	4.00	15.97	12.78	4.10	16.36	13.09	4.19
21.0	15.25	12.20	3.81	15.62	12.50	3.91	16.01	12.81	4.00	16.40	13.12	4.10	16.79	13.43	4.20	17.20	13.76	4.30
35.0	13.02	10.41	3.90	13.34	10.67	4.00	13.66	10.93	4.10	14.00	11.20	4.20	14.34	11.47	4.30	14.68	11.74	4.40
46.0	10.69	8.55	4.28	10.95	8.76	4.38	11.22	8.98	4.49	11.50	9.20	4.60	11.78	9.42	4.71	12.06	9.65	4.82
52.0	6.97	5.58	3.16	7.14	5.72	3.24	7.32	5.86	3.32	7.50	6.00	3.40	7.68	6.14	4.22	7.86	6.29	4.32

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	9.38	4.49	9.29	4.44	9.20	4.40	9.11	4.36	9.02	4.31	8.93	4.27
-10.0	15.20	6.94	15.05	6.87	14.90	6.80	14.75	6.73	14.60	6.66	14.46	6.60
7.0	16.32	4.39	16.16	4.34	16.00	4.30	15.84	4.26	15.68	4.21	15.52	4.17
24.0	20.61	4.69	20.40	4.65	20.20	4.60	20.00	4.55	19.80	4.51	19.60	4.46

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

3 Capacity table

Duct S

AC140HBMPKH/EU + AC140HCAPNH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	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
-15.0	14.50	11.60	3.72	14.86	11.89	3.81	15.23	12.18	3.90	15.60	12.48	4.00	15.97	12.78	4.10	16.36	13.09	4.19
21.0	15.25	12.20	3.81	15.62	12.50	3.91	16.01	12.81	4.00	16.40	13.12	4.10	16.79	13.43	4.20	17.20	13.76	4.30
35.0	13.02	10.41	3.90	13.34	10.67	4.00	13.66	10.93	4.10	14.00	11.20	4.20	14.34	11.47	4.30	14.68	11.74	4.40
46.0	10.69	8.55	4.28	10.95	8.76	4.38	11.22	8.98	4.49	11.50	9.20	4.60	11.78	9.42	4.71	12.06	9.65	4.82
52.0	6.97	5.58	3.16	7.14	5.72	3.24	7.32	5.86	3.32	7.50	6.00	3.40	7.68	6.14	4.22	7.86	6.29	4.32

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	9.38	4.49	9.29	4.44	9.20	4.40	9.11	4.36	9.02	4.31	8.93	4.27
-10.0	15.20	6.94	15.05	6.87	14.90	6.80	14.75	6.73	14.60	6.66	14.46	6.60
7.0	16.32	4.39	16.16	4.34	16.00	4.30	15.84	4.26	15.68	4.21	15.52	4.17
24.0	20.61	4.69	20.40	4.65	20.20	4.60	20.00	4.55	19.80	4.51	19.60	4.46

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

4 Dimensional drawing

Duct S

AC052HBMPKH/EU

Units : mm / inches

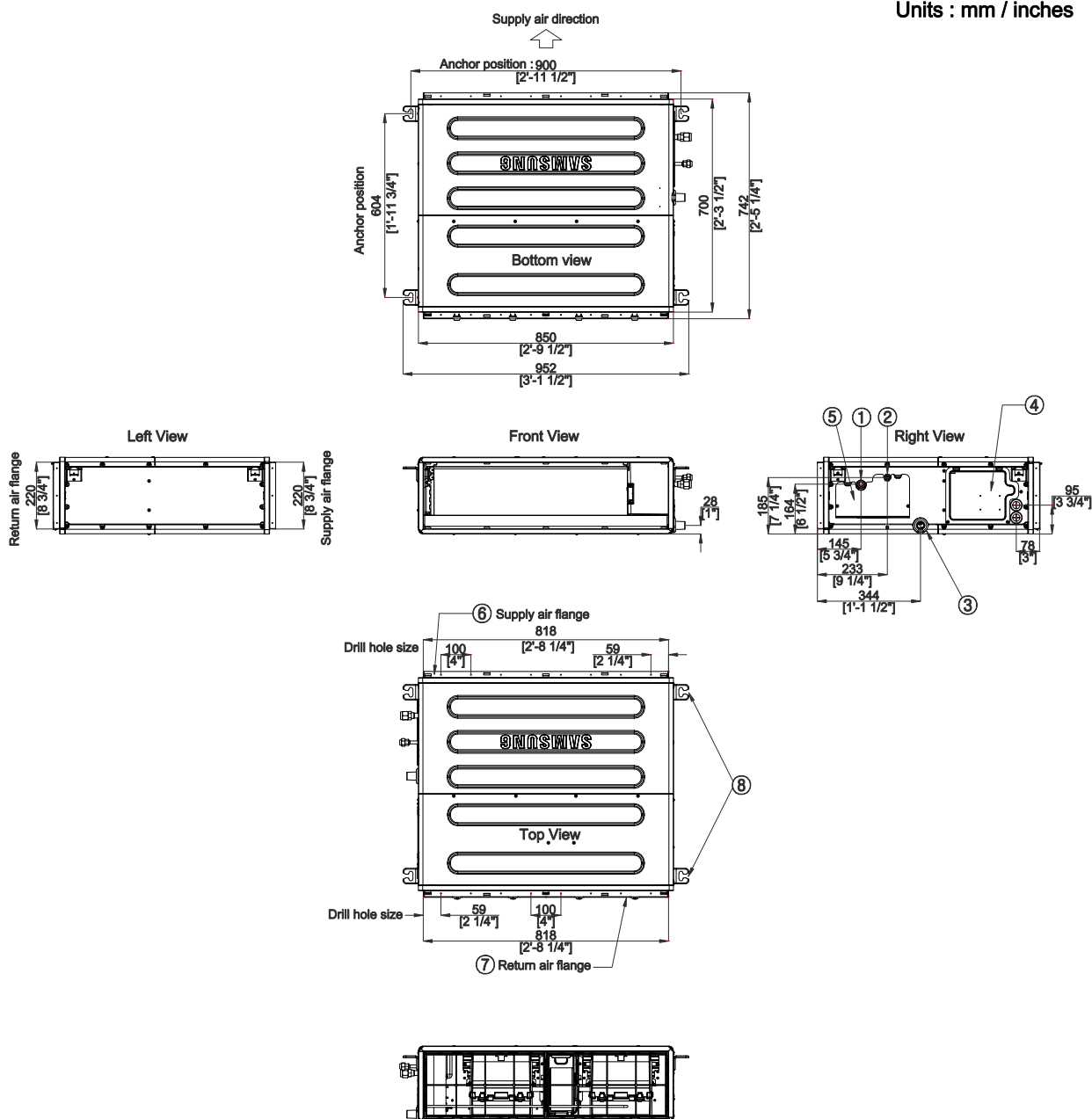


Table of descriptions

1	Refrigerant gas pipe	7	Return air flange
2	Refrigerant liquid pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

4 Dimensional drawing

Duct S

AC071HBMPKH/EU

Units : mm / inches

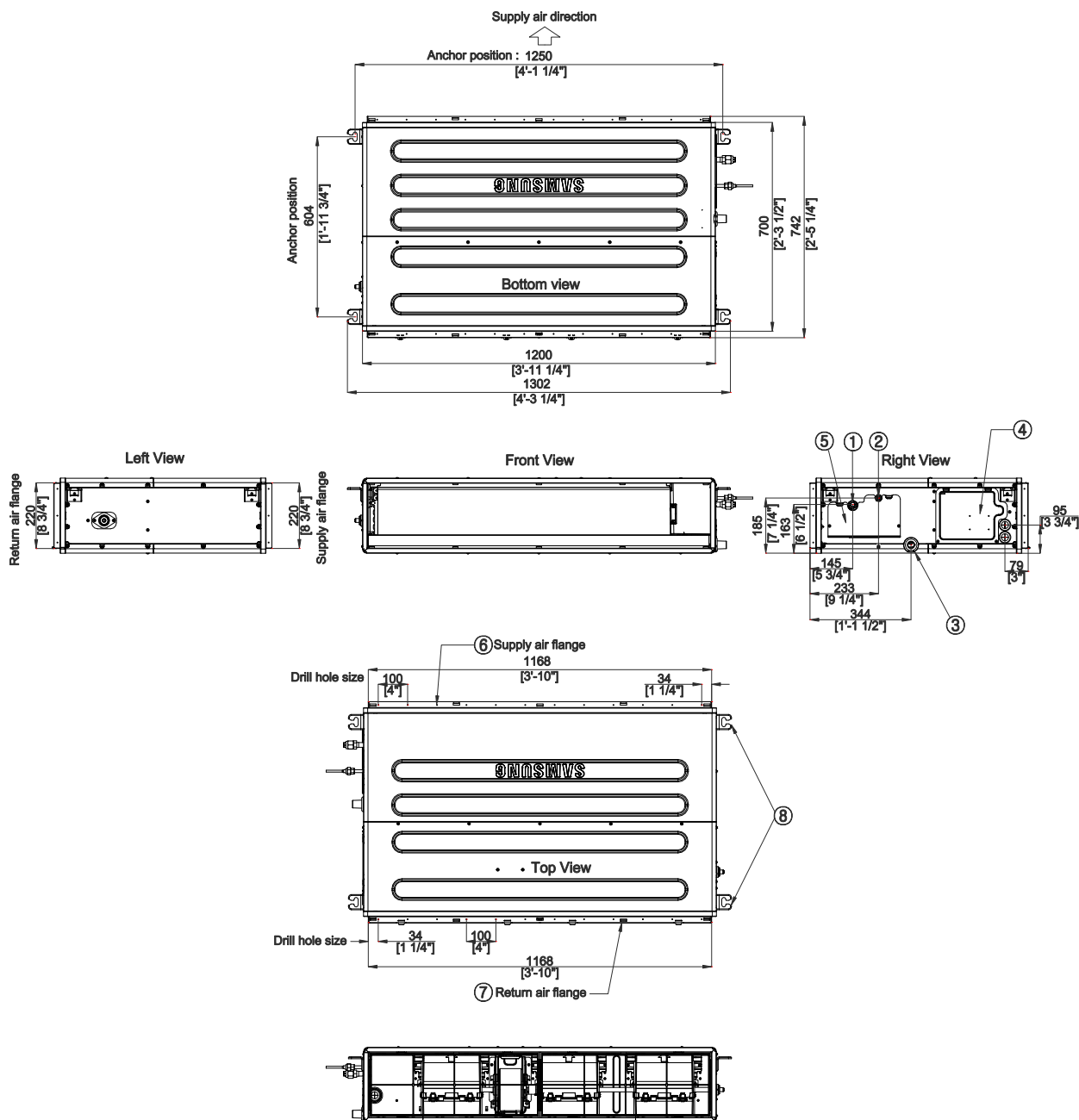


Table of descriptions

1	Refrigerant gas pipe	7	Return air flange
2	Refrigerant liquid pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

4 Dimensional drawing

Duct S

AC090HBMPKH/EU, AC100HBMPKH/EU, AC120HBMPKH/EU, AC140HBMPKH/EU

Units : mm / inches

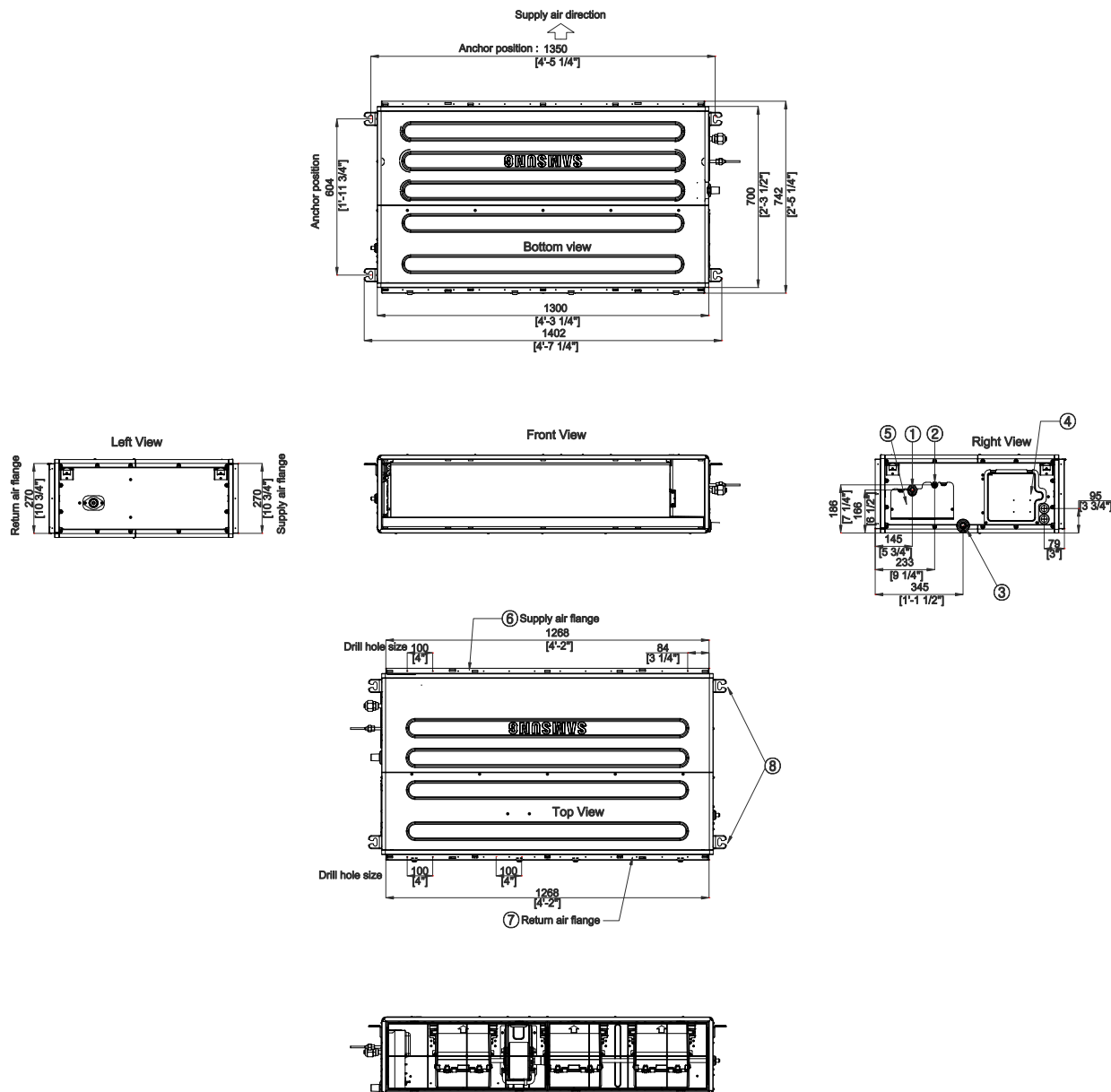


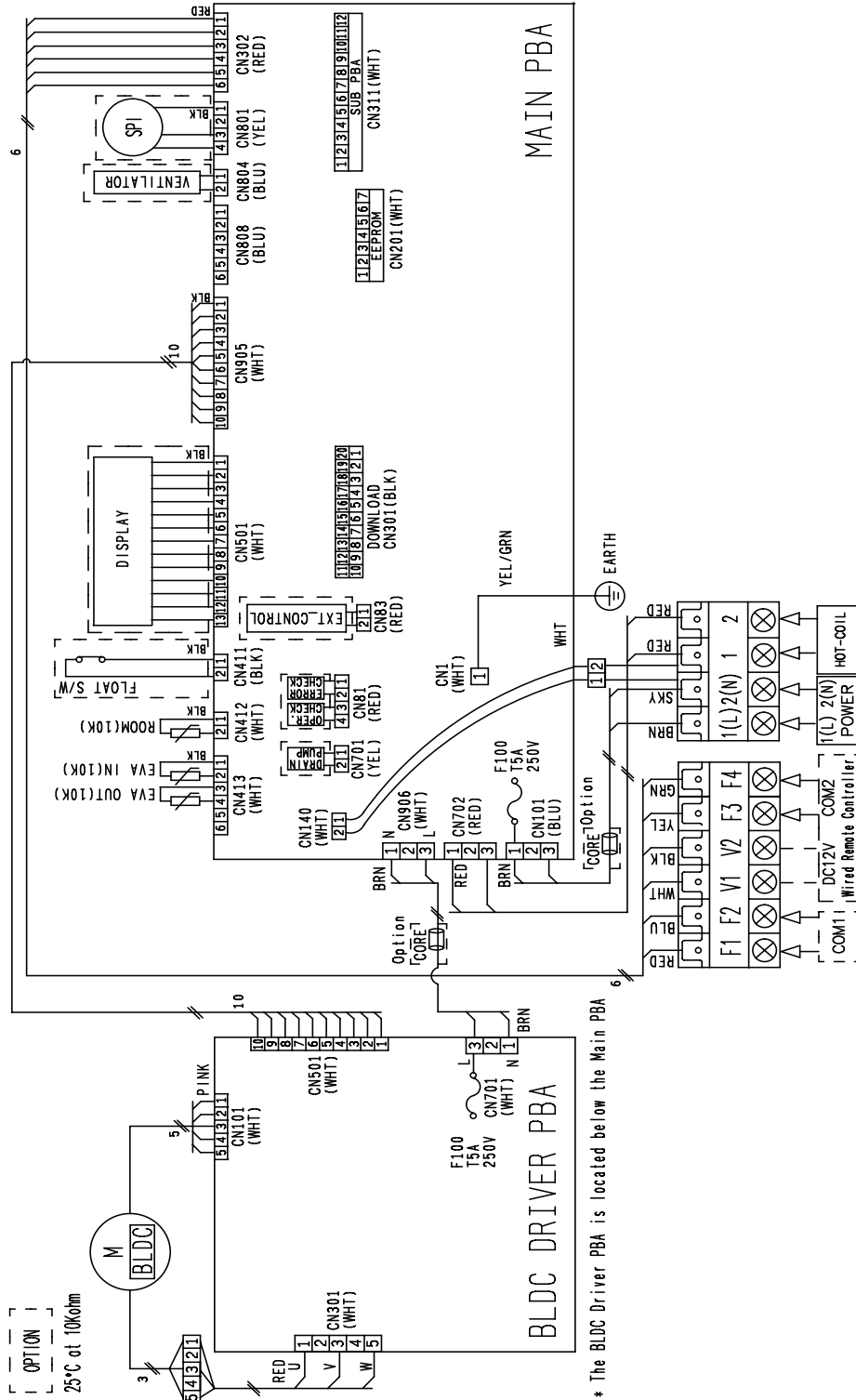
Table of descriptions

1	Refrigerant gas pipe	7	Return air flange
2	Refrigerant liquid pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

5 Electrical wiring diagram

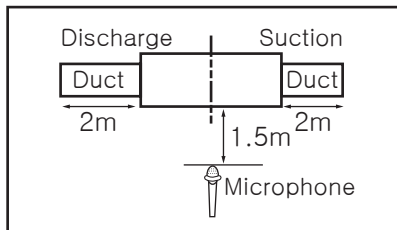
Duct S

AC052HBMPKH/EU, AC071HBMPKH/EU, AC090HBMPKH/EU, AC100HBMPKH/EU, AC120HBMPKH/EU, AC140HBMPKH/EU



6 Sound pressure level

Duct S



Unit: dB(A)

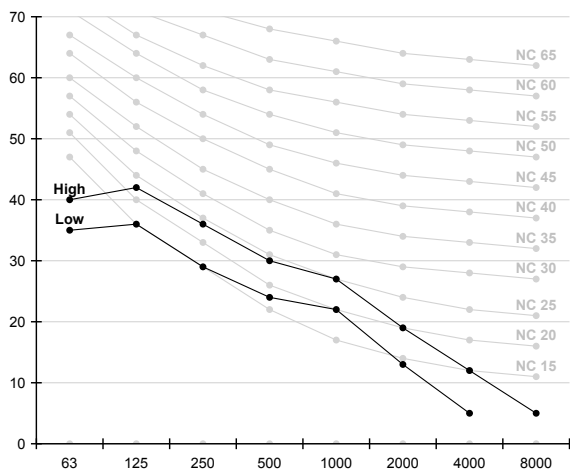
Model	High	Low
AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)	33.0	27.0
AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)	36.0	28.0
AC090HBMPKH/EU (ODU : AC090HCAPKH/EU)	36.0	30.0
AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)	37.0	31.0

Note

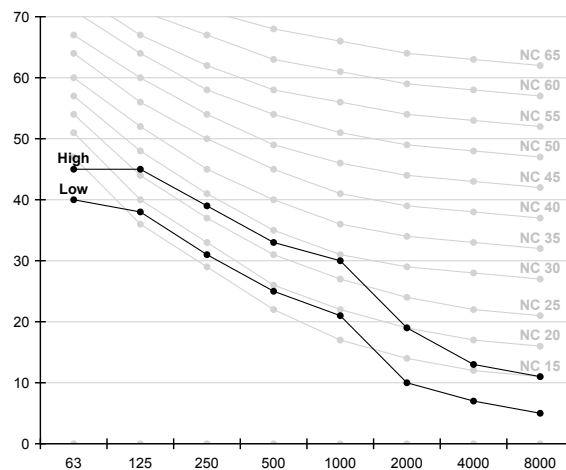
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

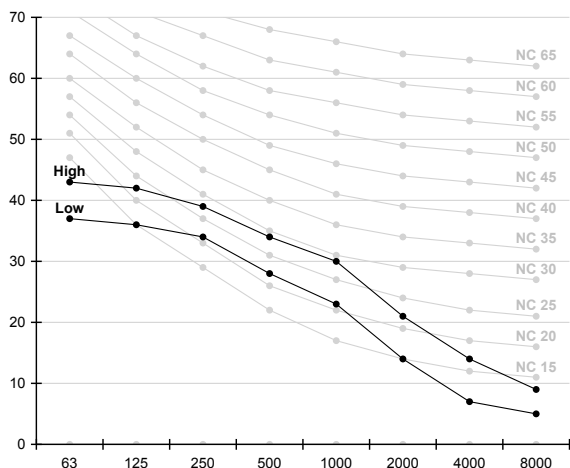
1) AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)



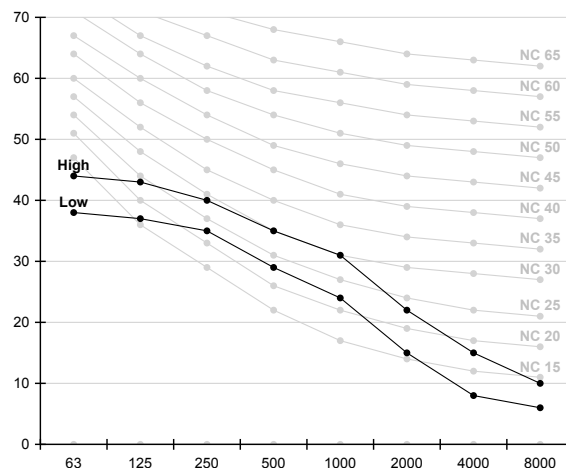
2) AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)



3) AC090HBMPKH/EU (ODU : AC090HCAPKH/EU)

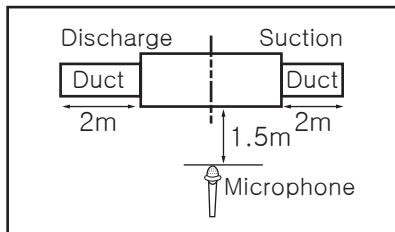


4) AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)



6 Sound pressure level

Duct S



Unit: dB(A)

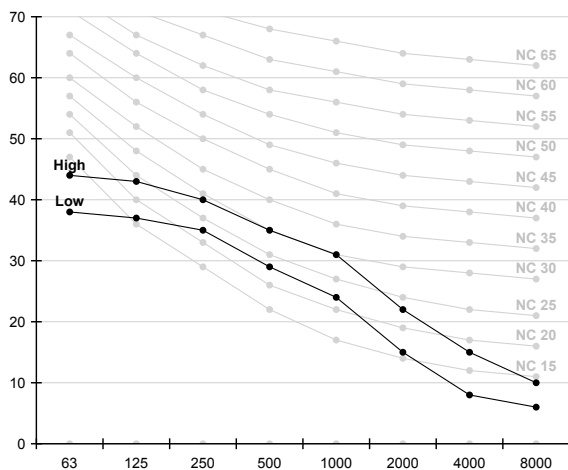
Model	High	Low
AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)	37.0	31.0
AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)	39.0	33.0
AC120HBMPKH/EU (ODU : AC120HCAPNH/EU)	39.0	33.0
AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)	40.0	33.0

Note

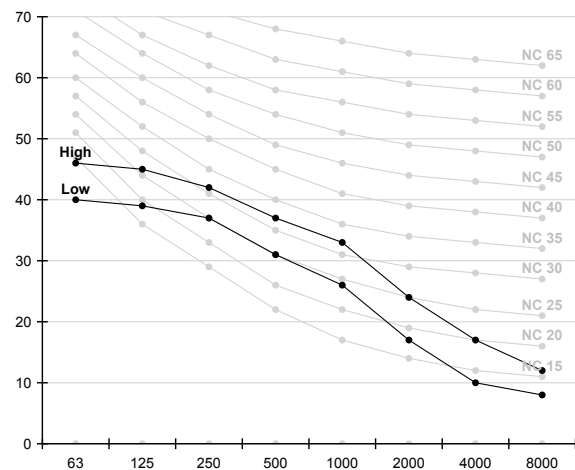
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

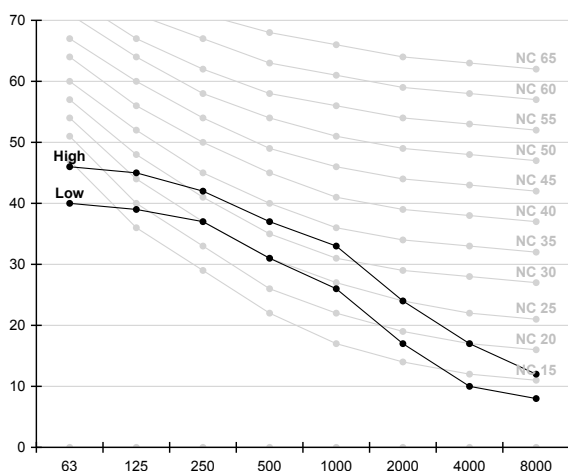
1) AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)



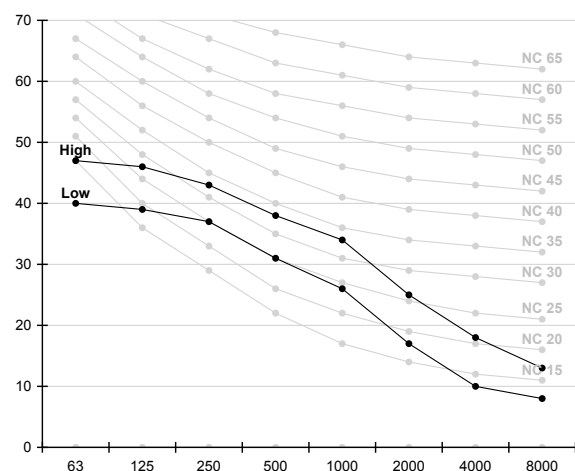
2) AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)



3) AC120HBMPKH/EU (ODU : AC120HCAPNH/EU)

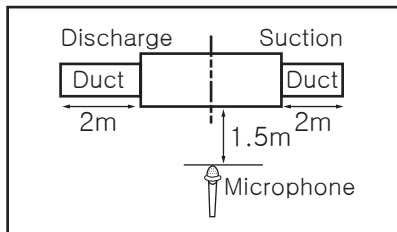


4) AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)



6 Sound pressure level

Duct S



Unit: dB(A)

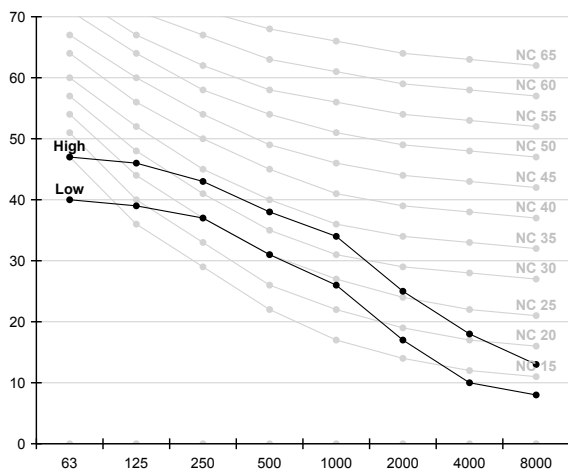
Model	High	Low
AC140HBMPKH/EU (ODU : AC140HCAPNH/EU)	40.0	33.0

Note

- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

1) AC140HBMPKH/EU (ODU : AC140HCAPNH/EU)



7 Sound power level

Duct S

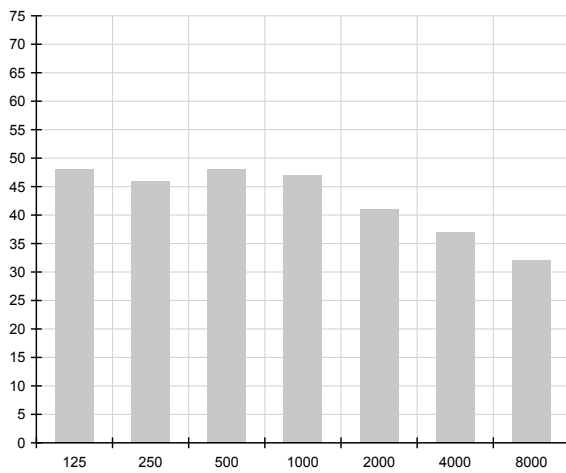
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

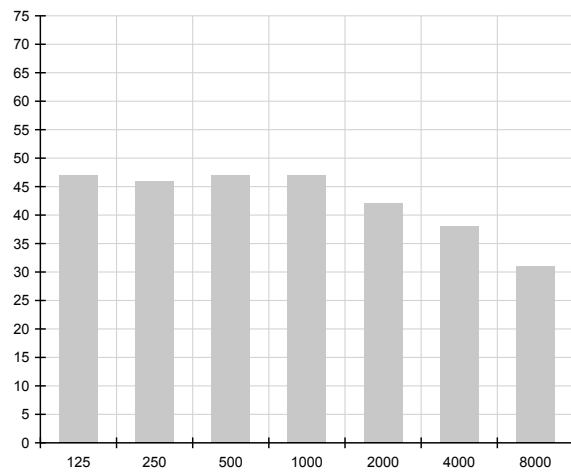
Unit: dB(A)

Model	Power
AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)	53.0
AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)	56.0
AC090HBMPKH/EU (ODU : AC090HCAPKH/EU)	59.0
AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)	61.0

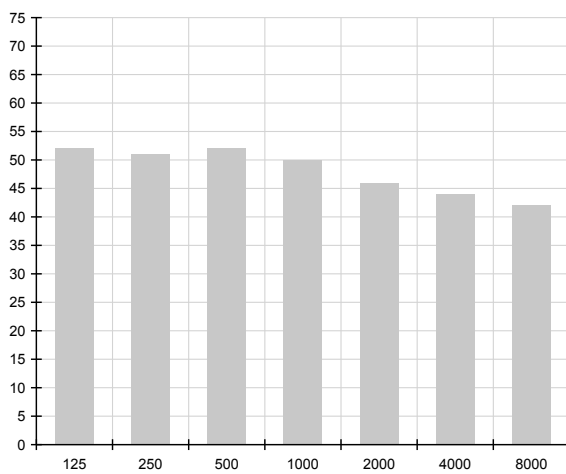
1) AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)



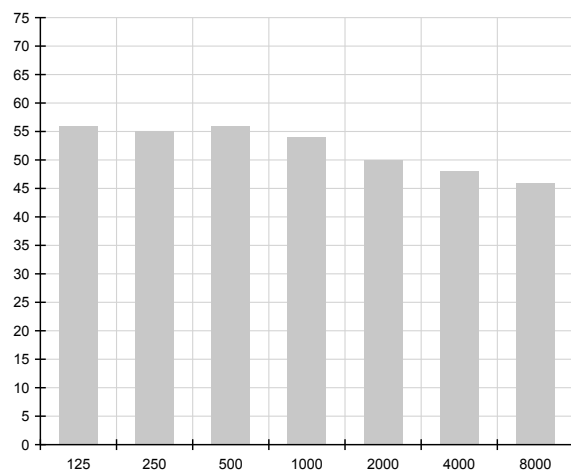
2) AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)



3) AC090HBMPKH/EU (ODU : AC090HCAPKH/EU)



4) AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)



7 Sound power level

Duct S

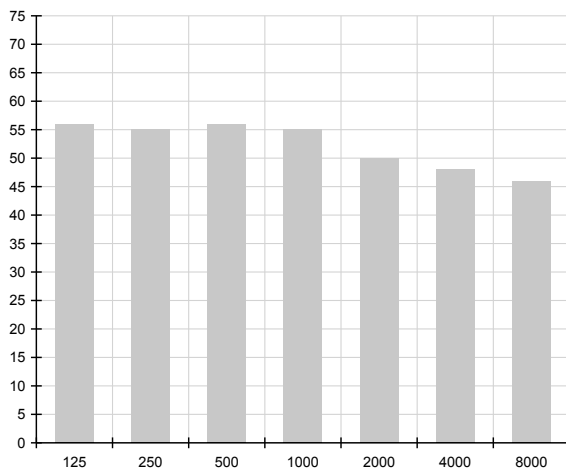
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

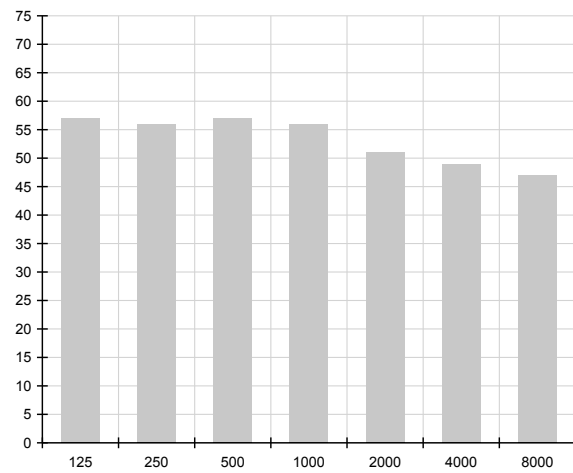
Unit: dB(A)

Model	Power
AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)	61.0
AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)	65.0
AC120HBMPKH/EU (ODU : AC120HCAPNH/EU)	65.0
AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)	66.0

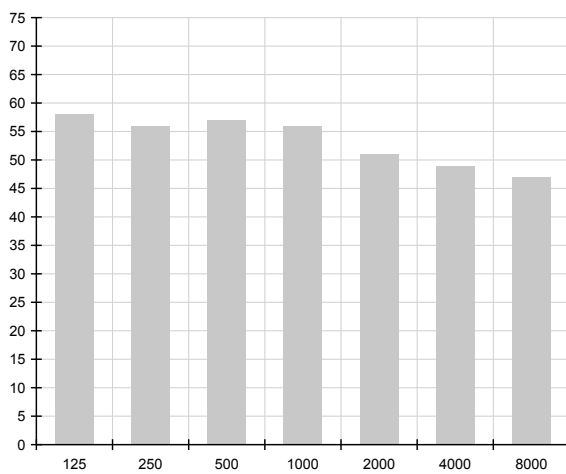
1) AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)



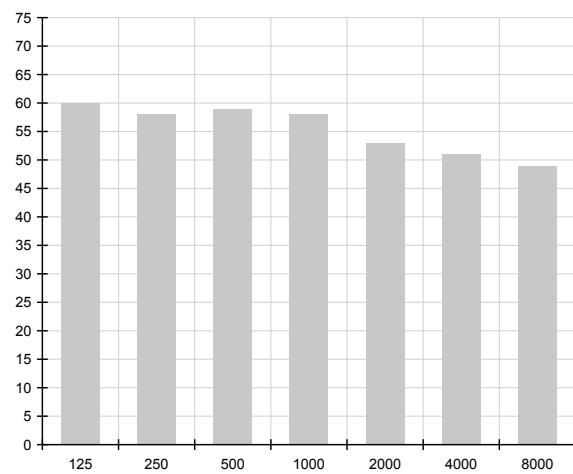
2) AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)



3) AC120HBMPKH/EU (ODU : AC120HCAPNH/EU)



4) AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)



7 Sound power level

Duct S

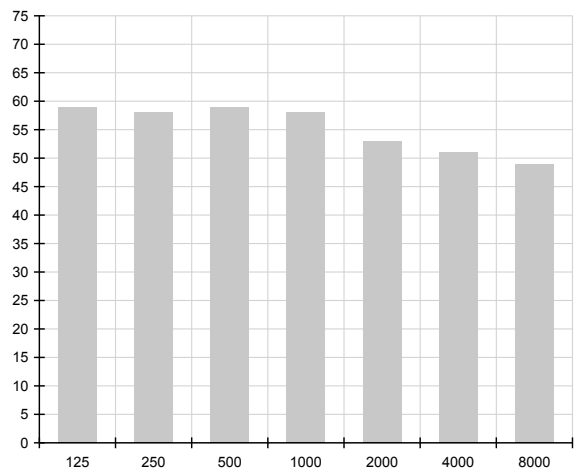
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AC140HBMPKH/EU (ODU : AC140HCAPNH/EU)	66.0

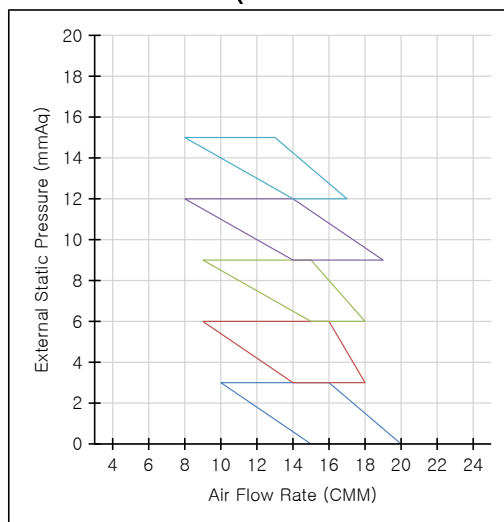
1) AC140HBMPKH/EU (ODU : AC140HCAPNH/EU)



8 Recommended operation range

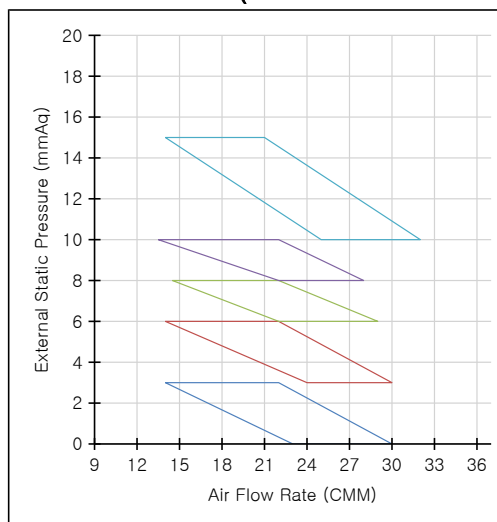
Duct S

1) AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)



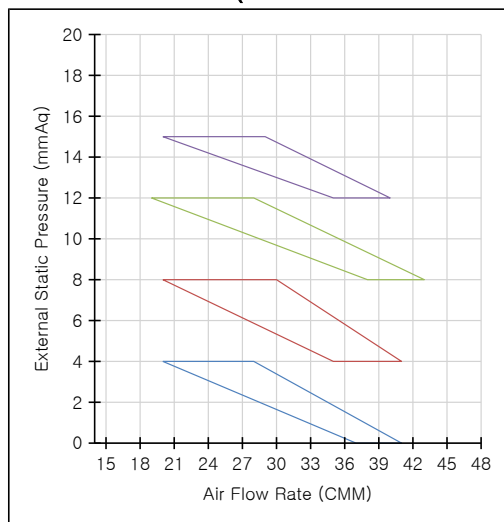
External Static Pressure (mmAq)	Option Code
0-3	01B06C-1C50E6-27343C-373000
3-6	01B06C-1C544D-27343C-373000
6-9	01B06C-1C55A4-27343C-373000
9-12	01B06C-1C591A-27343C-373000
12-15	01B06C-1C5A75-27343C-373000

2) AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)



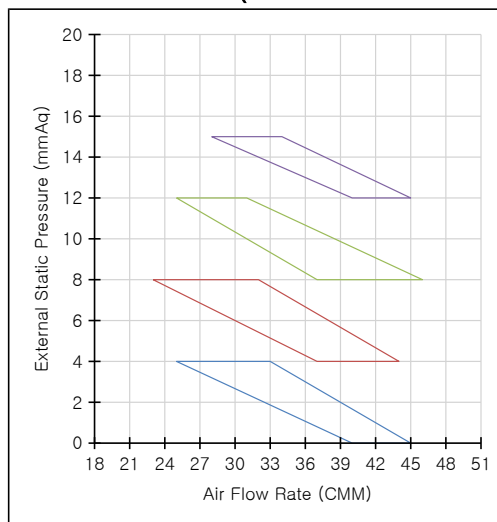
External Static Pressure (mmAq)	Option Code
0-3	01B06C-1C50D8-274750-373020
3-6	01B06C-1C5541-274750-373020
6-8	01B06C-1C5596-274750-373020
8-10	01B06C-1C55DB-274750-373020
10-15	01B06C-1C5A94-274750-373020

3) AC090HBMPKH/EU (ODU : AC090HCAPKH/EU)



External Static Pressure (mmAq)	Option Code
0-4	01B06C-1C50B7-275A64-374040
4-8	01B06C-1C543F-275A64-374040
8-12	01B06C-1C55A7-275A64-374040
12-15	01B06C-1C55FD-275A64-374040

4) AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)



External Static Pressure (mmAq)	Option Code
0-4	01B06C-1C50F9-276470-373040
4-8	01B06C-1C5540-276470-373040
8-12	01B06C-1C55B9-276470-373040
12-15	01B06C-1C591F-276470-373040

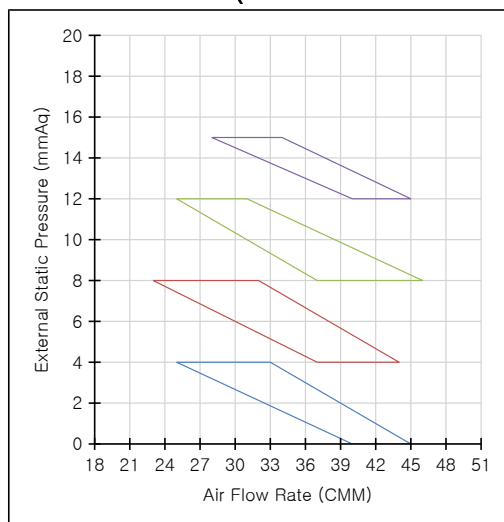
Note

- Adjust option code according to the actual installation condition (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.

8 Recommended operation range

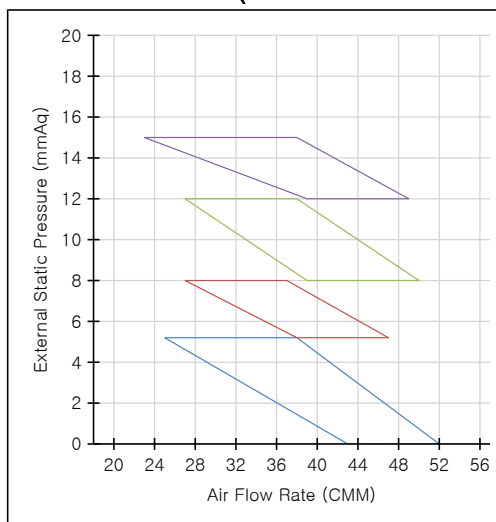
Duct S

5) AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)



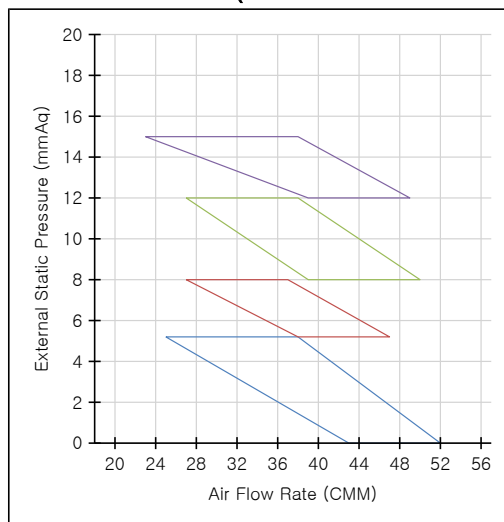
External Static Pressure (mmAq)	Option Code
0-4	01B06C-1C50F9-276470-373040
4-8	01B06C-1C5540-276470-373040
8-12	01B06C-1C55B9-276470-373040
12-15	01B06C-1C591F-276470-373040

6) AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)



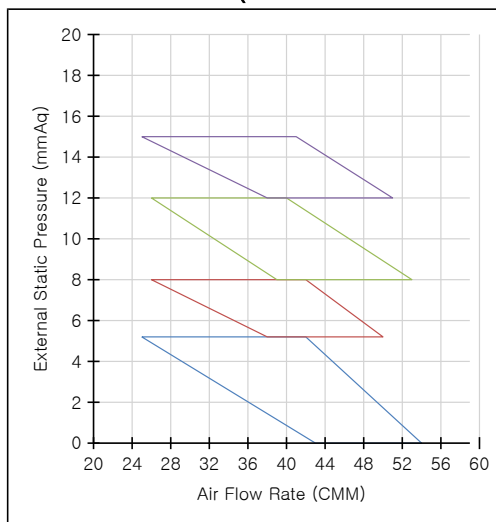
External Static Pressure (mmAq)	Option Code
0-5.2	01B06C-1C542C-27788C-372045
5.2-8	01B06C-1C5572-27788C-372045
8-12	01B06C-1C55EA-27788C-372045
12-15	01B06C-1C592E-27788C-372045

7) AC120HBMPKH/EU (ODU : AC120HCAPNH/EU)



External Static Pressure (mmAq)	Option Code
0-5.2	01B06C-1C542C-27788C-372045
5.2-8	01B06C-1C5572-27788C-372045
8-12	01B06C-1C55EA-27788C-372045
12-15	01B06C-1C592E-27788C-372045

8) AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)



External Static Pressure (mmAq)	Option Code
0-5.2	01B06C-1C544C-278CA0-371045
5.2-8	01B06C-1C5592-278CA0-371045
8-12	01B06C-1C55FA-278CA0-371045
12-15	01B06C-1C593E-278CA0-371045

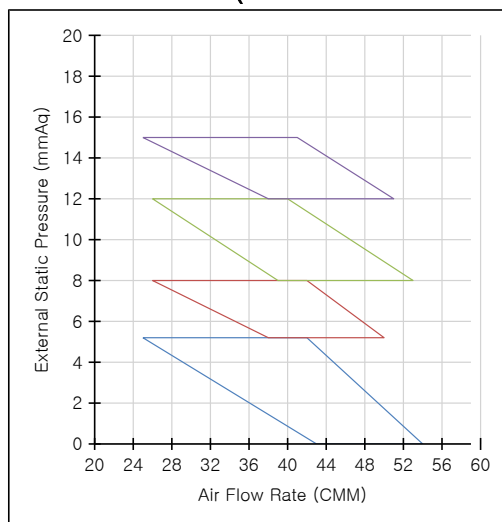
Note

- Adjust option code according to the actual installation condition (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.

8 Recommended operation range

Duct S

9) AC140HBMPKH/EU (ODU : AC140HCAPNH/EU)



External Static Pressure (mmAq)	Option Code
0-5.2	01B06C-1C544C-278CA0-371045
5.2-8	01B06C-1C5592-278CA0-371045
8-12	01B06C-1C55FA-278CA0-371045
12-15	01B06C-1C593E-278CA0-371045

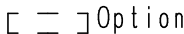
Note

- Adjust option code according to the actual installation condition (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.

9

Outdoor

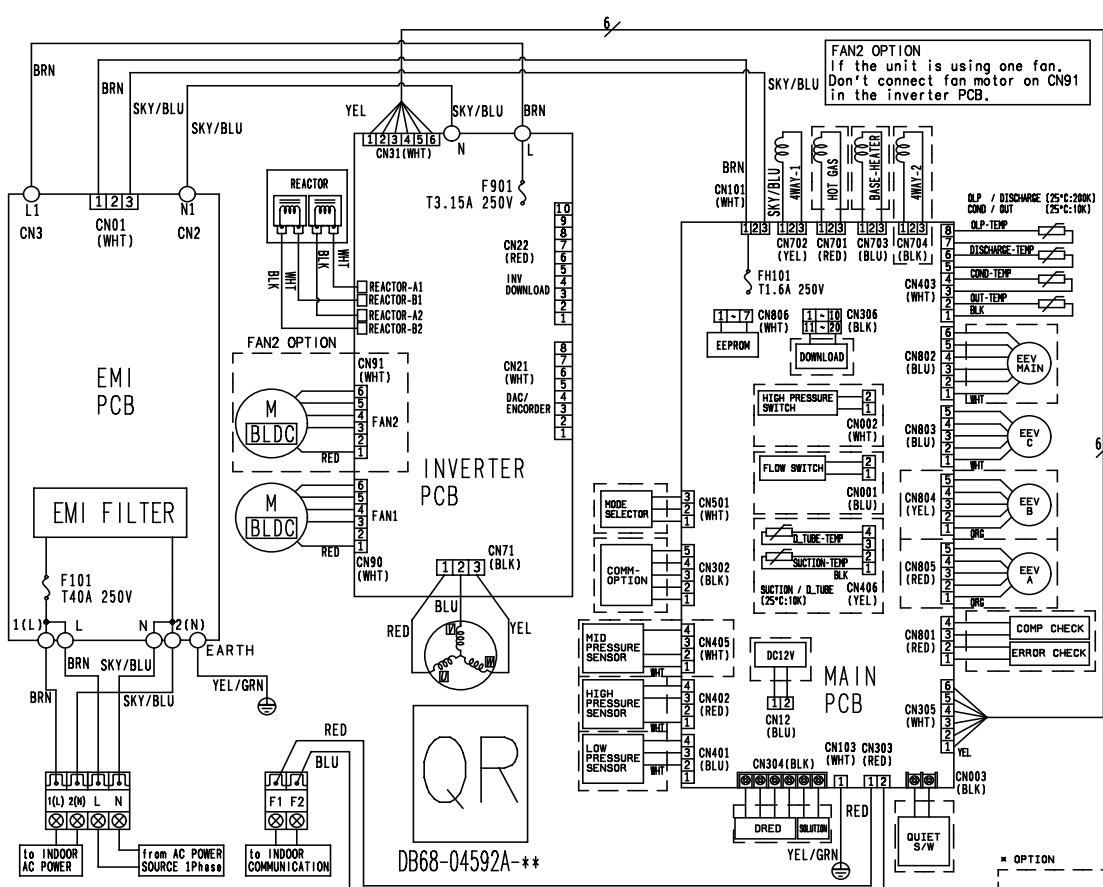
AC052HCAPKH/EU



9) Electrical wiring diagram

Outdoor

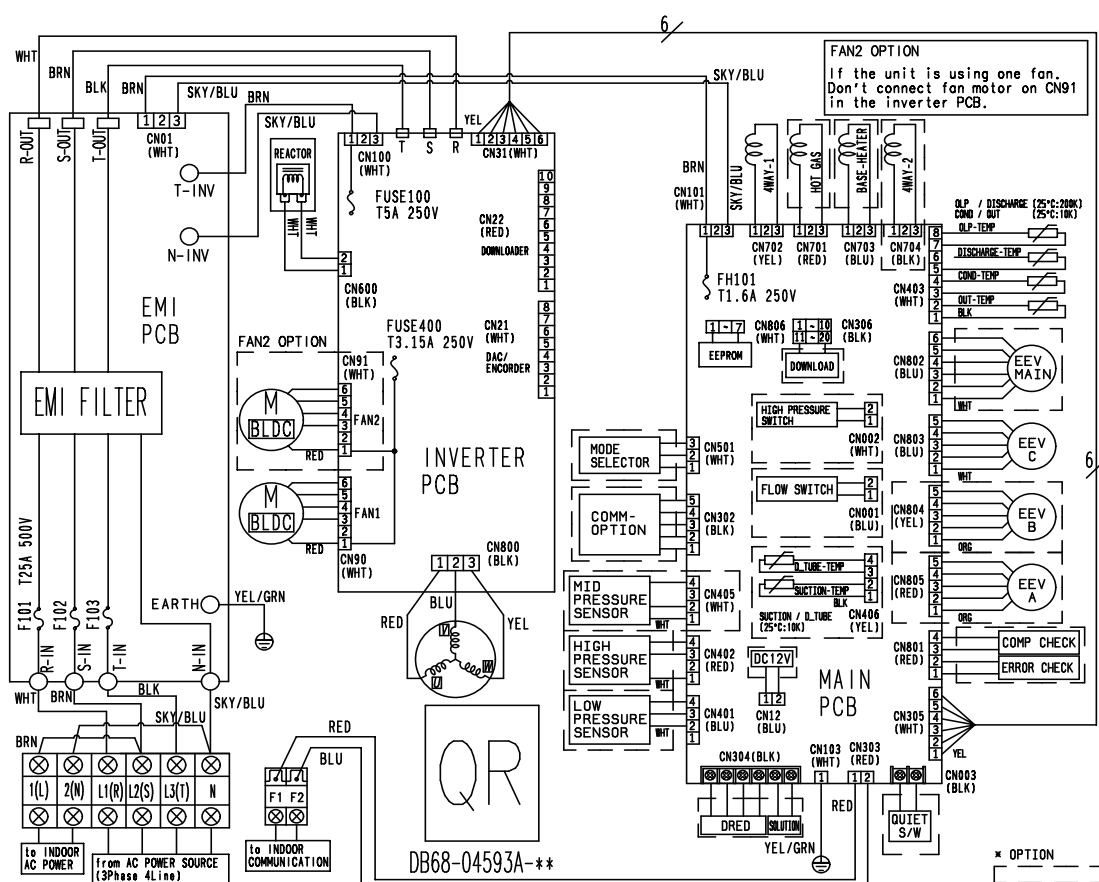
AC071HCAPKH/EU, AC090HCAPKH/EU, AC100HCAPKH/EU, AC120HCAPKH/EU, AC140HCAPKH/EU



9) Electrical wiring diagram

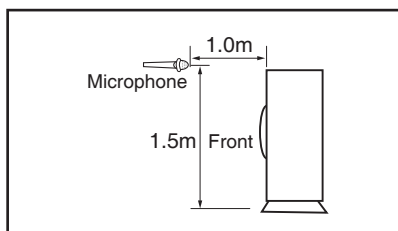
Outdoor

AC100HCAPNH/EU, AC120HCAPNH/EU, AC140HCAPNH/EU



10 Sound pressure level

Outdoor



Unit: dB(A)

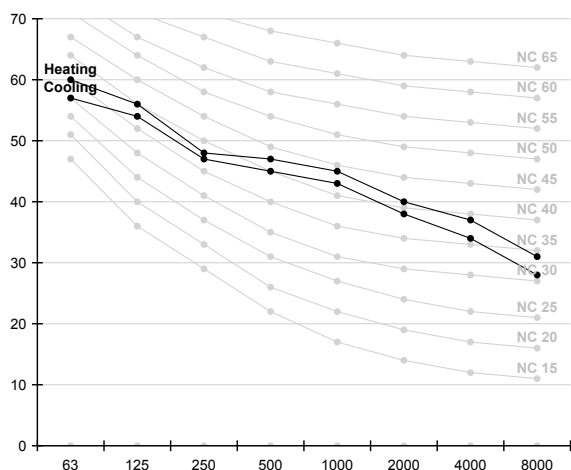
Model	Cooling	Heating
AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)	48.0	50.0
AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)	49.0	51.0
AC090HCAPKH/EU (IDU : AC090HBMPKH/EU)	49.0	51.0
AC100HCAPKH/EU (IDU : AC100HBMPKH/EU)	49.0	51.0

Note

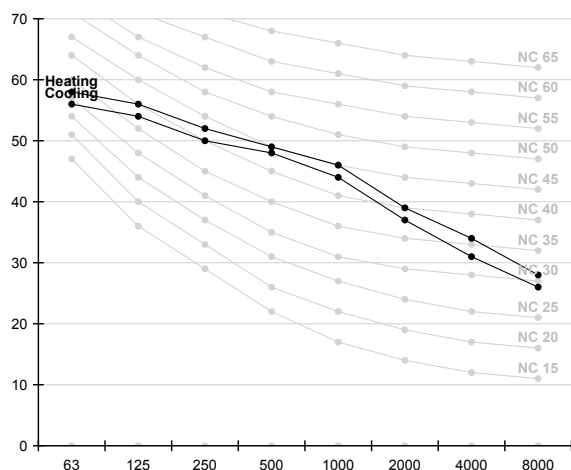
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

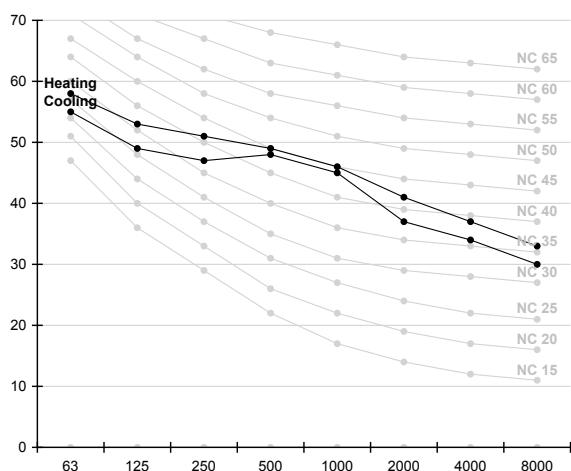
1) AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)



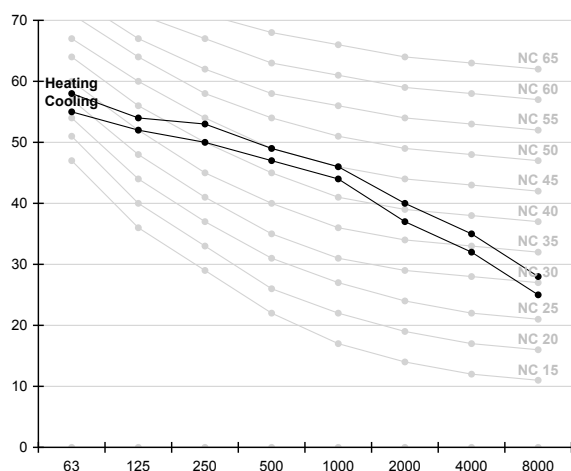
2) AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)



3) AC090HCAPKH/EU (IDU : AC090HBMPKH/EU)

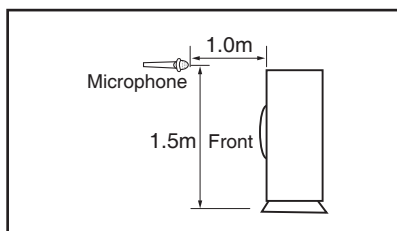


4) AC100HCAPKH/EU (IDU : AC100HBMPKH/EU)



10 Sound pressure level

Outdoor



Unit: dB(A)

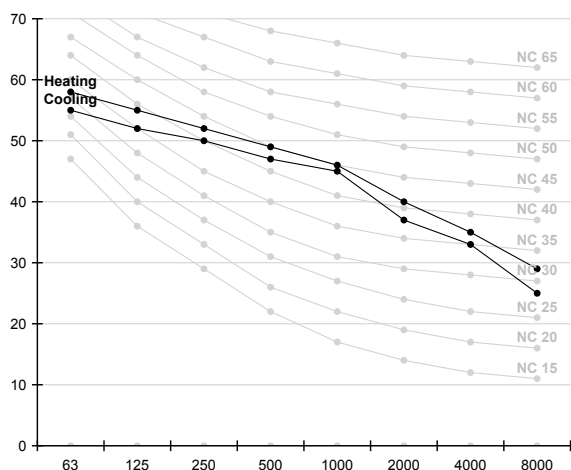
Model	Cooling	Heating
AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)	49.0	51.0
AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)	50.0	52.0
AC120HCAPNH/EU (IDU : AC120HBMPKH/EU)	50.0	52.0
AC140HCAPKH/EU (IDU : AC140HBMPKH/EU)	51.0	53.0

Note

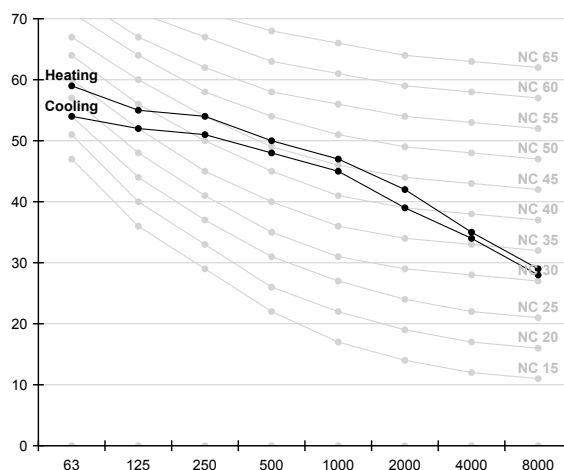
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

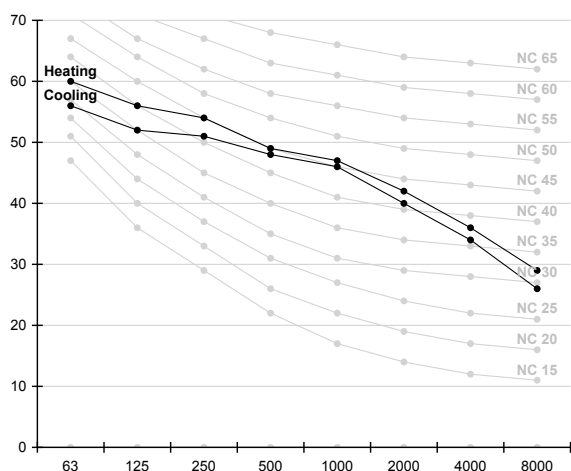
1) AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)



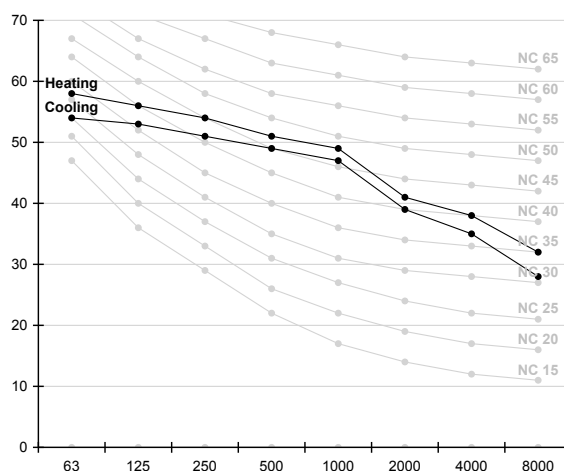
2) AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)



3) AC120HCAPNH/EU (IDU : AC120HBMPKH/EU)

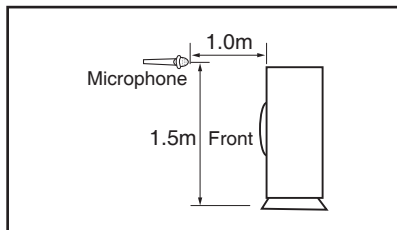


4) AC140HCAPKH/EU (IDU : AC140HBMPKH/EU)



10 Sound pressure level

Outdoor



Unit: dB(A)

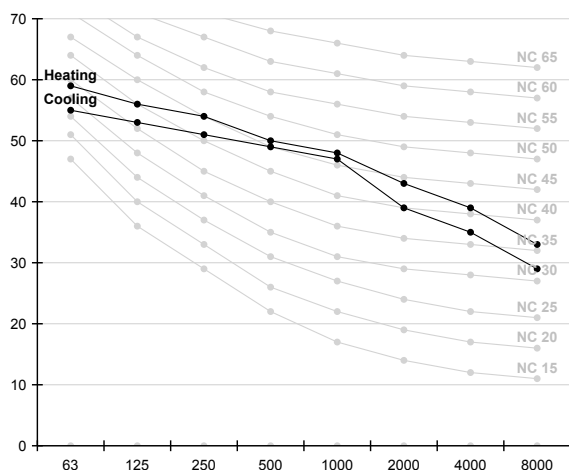
Model	Cooling	Heating
AC140HCAPNH/EU (IDU : AC140HBMPKH/EU)	51.0	53.0

Note

- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

1) AC140HCAPNH/EU (IDU : AC140HBMPKH/EU)



11 Sound power level

Outdoor

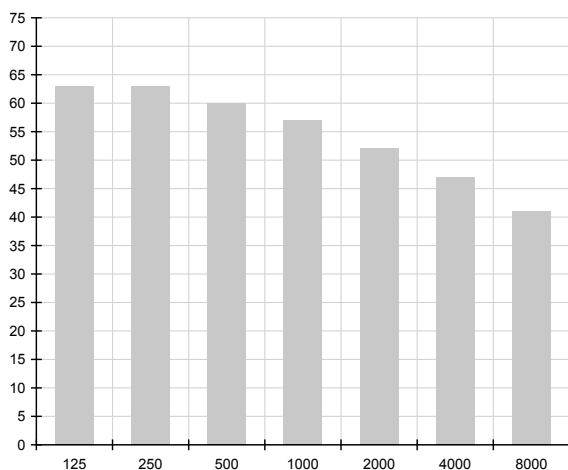
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

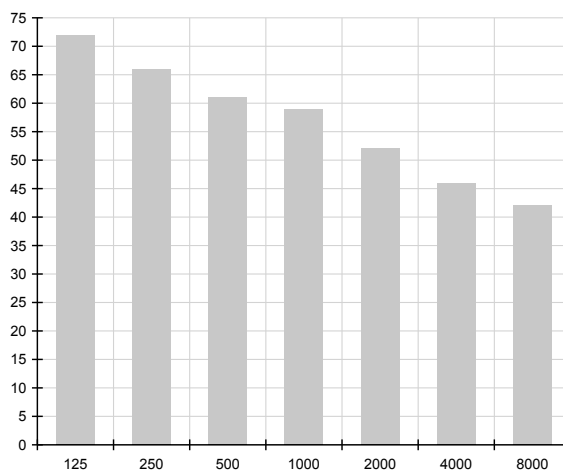
Unit: dB(A)

Model	Power
AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)	63.0
AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)	65.0
AC090HCAPKH/EU (IDU : AC090HBMPKH/EU)	65.0
AC100HCAPKH/EU (IDU : AC100HBMPKH/EU)	66.0

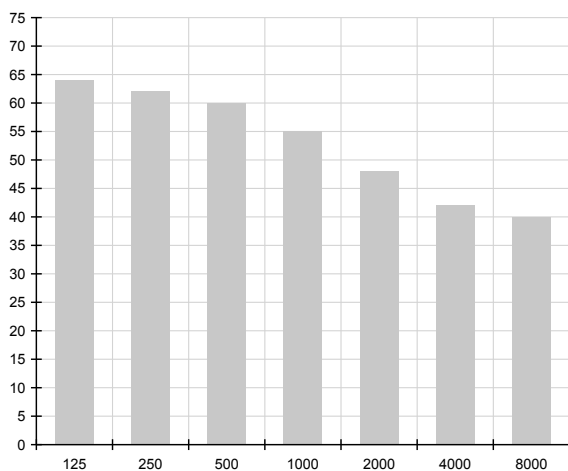
1) AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)



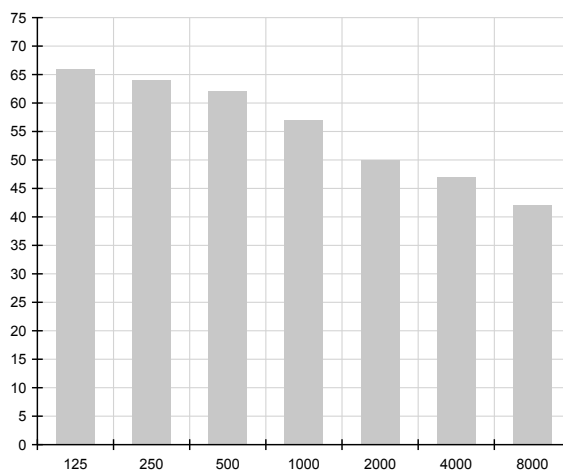
2) AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)



3) AC090HCAPKH/EU (IDU : AC090HBMPKH/EU)



4) AC100HCAPKH/EU (IDU : AC100HBMPKH/EU)



11 Sound power level

Outdoor

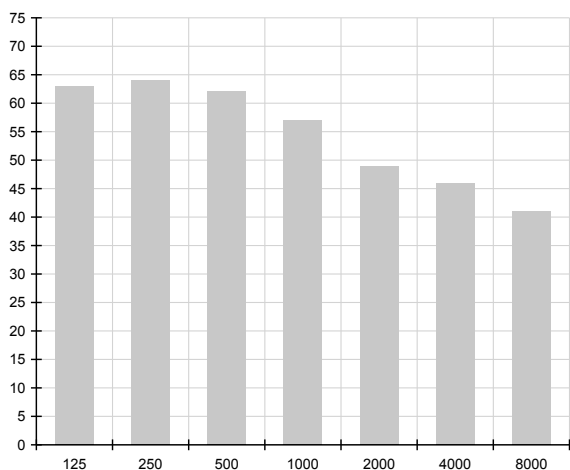
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

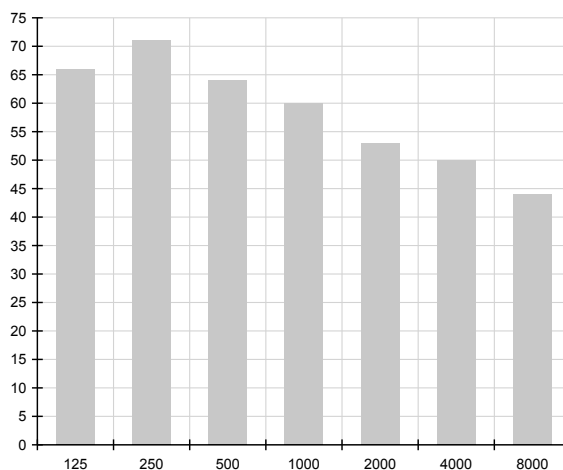
Unit: dB(A)

Model	Power
AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)	66.0
AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)	67.0
AC120HCAPNH/EU (IDU : AC120HBMPKH/EU)	67.0
AC140HCAPKH/EU (IDU : AC140HBMPKH/EU)	69.0

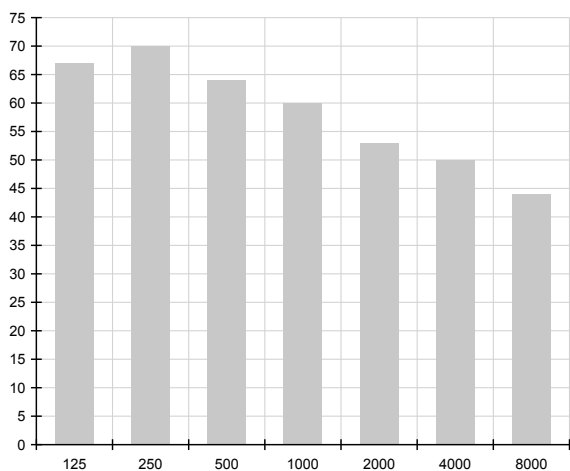
1) AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)



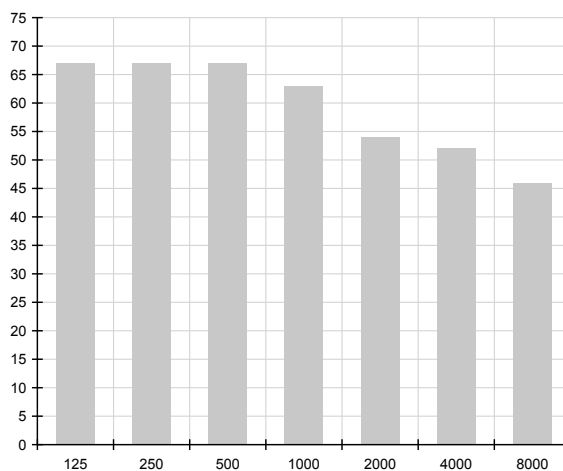
2) AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)



3) AC120HCAPNH/EU (IDU : AC120HBMPKH/EU)



4) AC140HCAPKH/EU (IDU : AC140HBMPKH/EU)



11 Sound power level

Outdoor

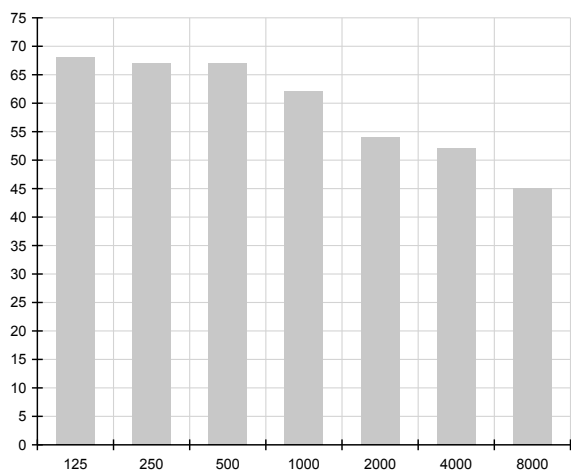
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AC140HCAPNH/EU (IDU : AC140HBMPKH/EU)	69.0

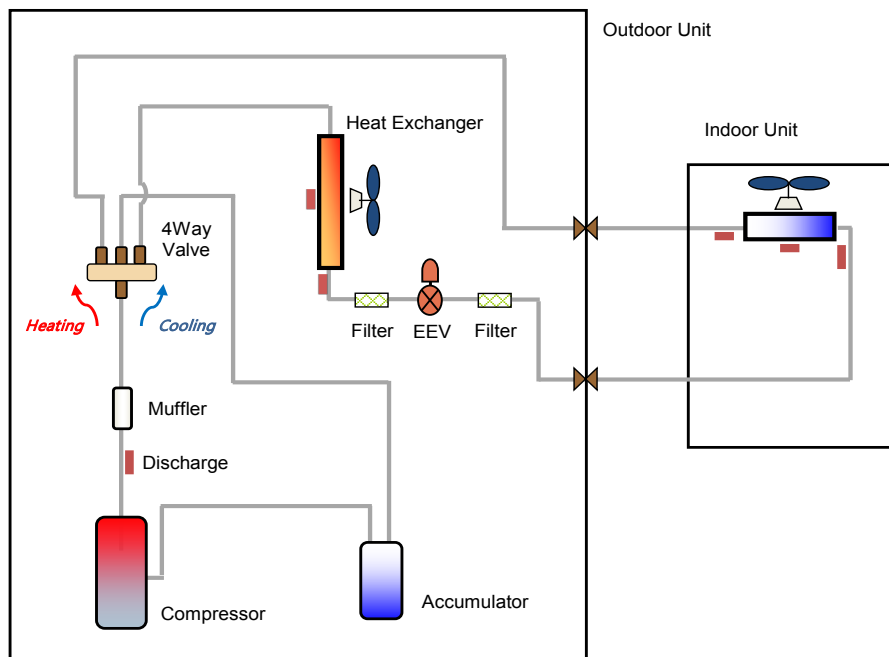
1) AC140HCAPNH/EU (IDU : AC140HBMPKH/EU)



12 Cycle diagram

Outdoor

AC052HCAPKH/EU

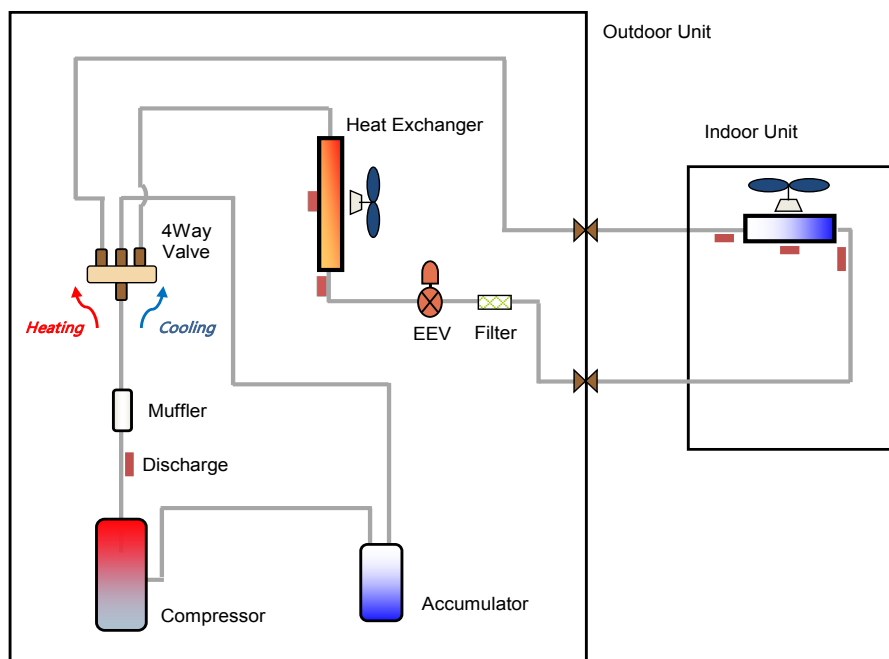


Category		Symbol	Description
Compressor			Rotary Inveter Compressor
Heat Exchanger			Condensing/Evaporating unit(FMC)
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Senser	Temperature		Pip/Air Temperature sensor

12 Cycle diagram

Outdoor

AC071HCAPKH/EU, AC090HCAPKH/EU, AC100HCAPKH/EU, AC100HCAPNH/EU, AC120HCAPKH/EU, AC120HCAPNH/EU, AC140HCAPKH/EU
AC140HCAPNH/EU



Category		Symbol	Description
Compressor			Rotary Inverter Compressor
Heat Exchanger			Condensing/Evaporating unit(FMC)
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Senser	Temperature		Pip/Air Temperature sensor

13 Dimensional drawing

Outdoor

AC052HCAPKH/EU

Units : mm / inches

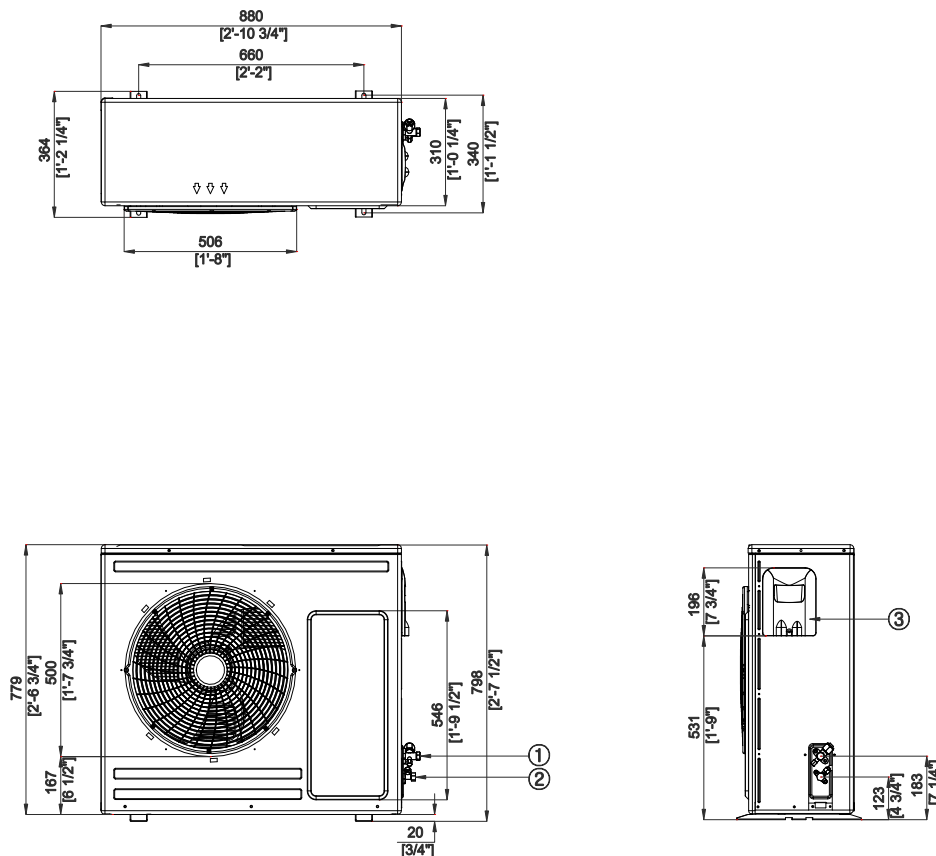


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

13 Dimensional drawing

Outdoor

AC071HCAPKH/EU

Units : mm / inches

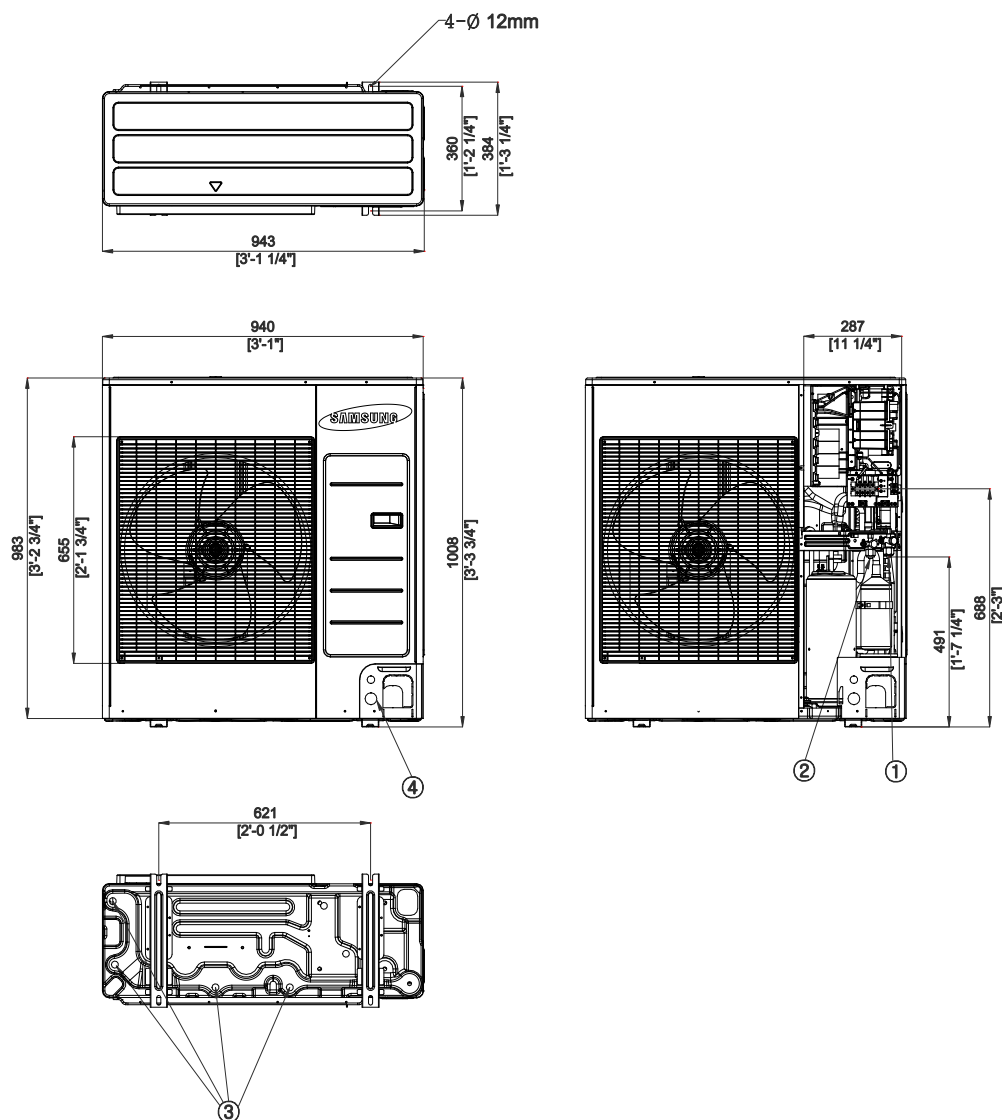


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

13 Dimensional drawing

Outdoor

AC090HCAPKH/EU

Units : mm / inches

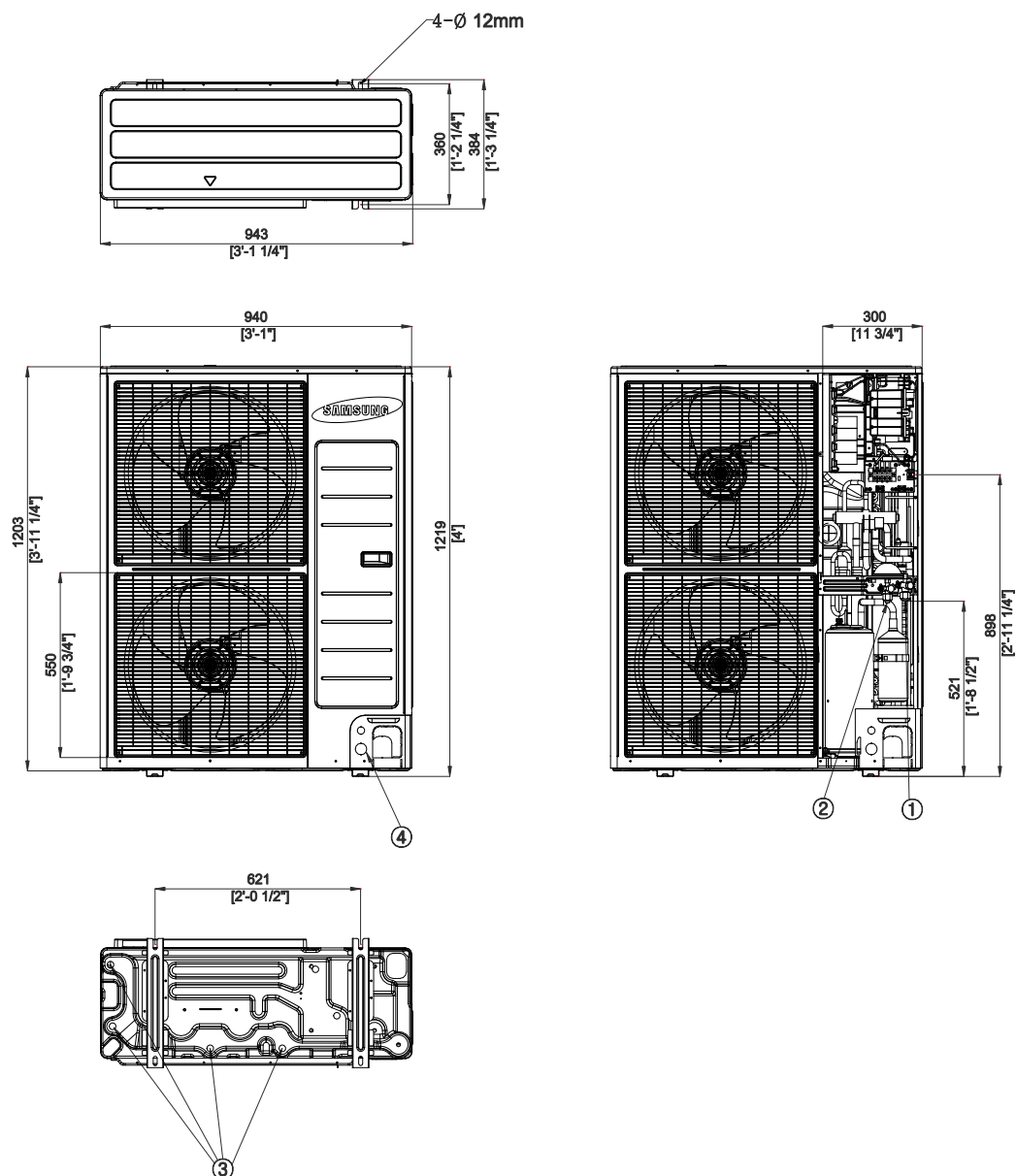


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

13 Dimensional drawing

Outdoor

AC100HCAPKH/EU, AC100HCAPNH/EU, AC120HCAPKH/EU, AC120HCAPNH/EU, AC140HCAPKH/EU, AC140HCAPNH/EU

Units : mm / inches

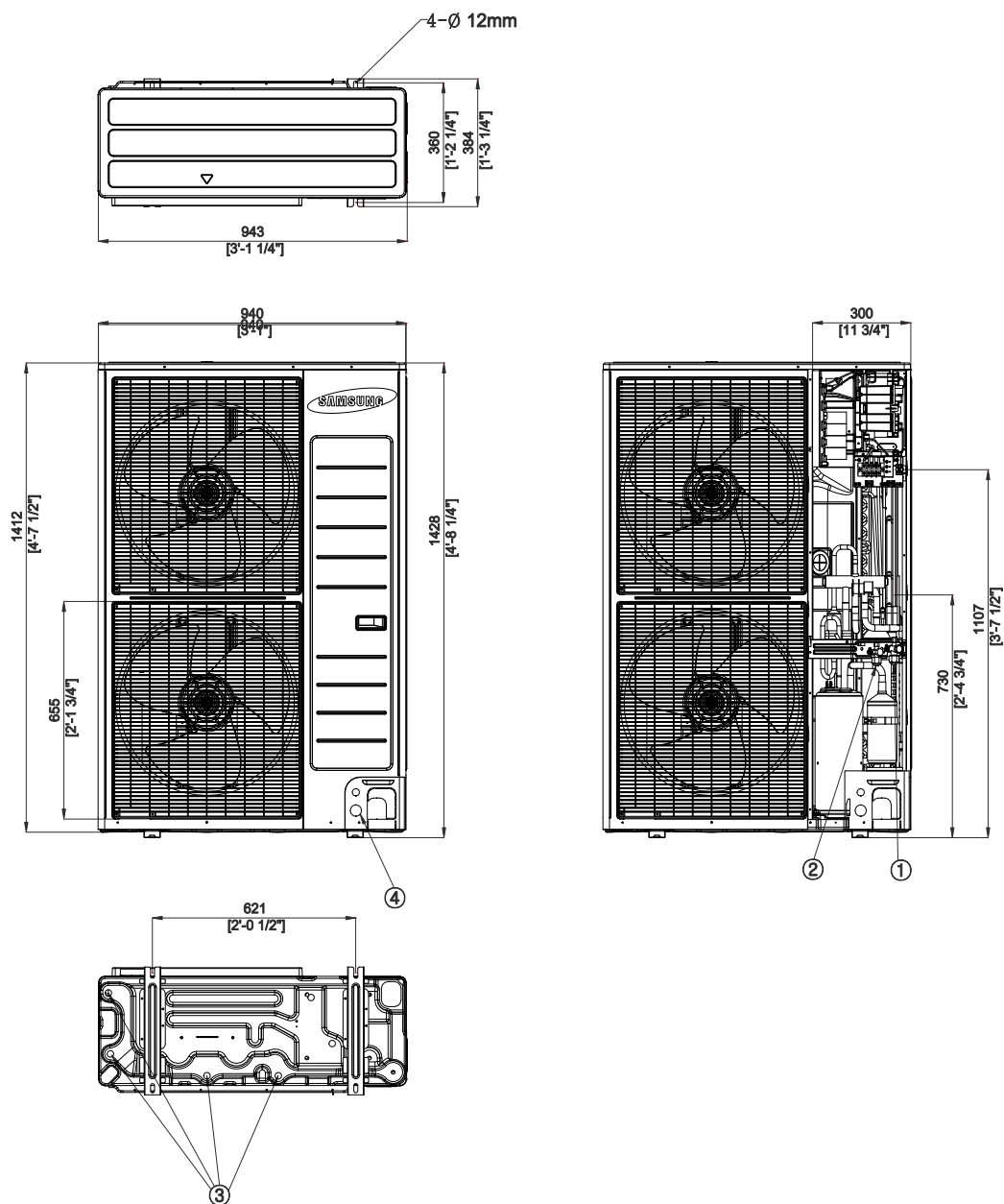


Table of descriptions


1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

14 Capacity correction

Outdoor


AC052HBMPKH/EU + AC052HCAPKH/EU

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	20	-	-	-	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	15	-	-	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	10	-	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	5	1.00	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	0	1.00	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	-5	1.00	0.97	0.95	0.93	0.91	0.90	-	-	-	-	-	-	-	-	-
	-10	-	0.96	0.95	0.92	0.91	0.89	-	-	-	-	-	-	-	-	-
	-15	-	-	0.94	0.91	0.90	0.89	-	-	-	-	-	-	-	-	-
	-20	-	-	-	0.90	0.89	0.88	-	-	-	-	-	-	-	-	-


Heating



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	20	-	-	-	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	15	-	-	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	10	-	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	5	1.00	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	0	1.00	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	-5	1.00	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	-10	-	0.98	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	-15	-	-	0.96	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-
	-20	-	-	-	0.94	0.92	0.90	-	-	-	-	-	-	-	-	-


AC071HBMPKH/EU + AC071HCAPKH/EU

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	25	-	-	-	-	0.96	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	20	-	-	-	0.97	0.96	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	15	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	10	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	5	1.00	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	0	1.00	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92	-	-	-	-	-
	-5	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	-	-	-	-	-
	-10	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	-	-	-	-	-
	-15	-	-	0.97	0.96	0.96	0.95	0.94	0.93	0.92	0.91	-	-	-	-	-
	-20	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.89	-	-	-	-	-
	-25	-	-	-	-	0.95	0.94	0.93	0.92	0.90	0.89	-	-	-	-	-
	-30	-	-	-	-	-	0.94	0.93	0.91	0.90	0.88	-	-	-	-	-

Heating




		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	-5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	-10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	-15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	-20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	-25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-
	-30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	-	-	-	-	-

14 Capacity correction

Outdoor


AC090HBMPKH/EU + AC090HCAPKH/EU

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	0	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-5	1.00	0.99	0.98	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88
	-10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
	-15	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.88	0.85
	-20	-	-	-	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.92	0.90	0.89	0.87	0.83
	-25	-	-	-	-	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.88	0.86	0.82
	-30	-	-	-	-	-	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.88	0.85	0.80


Heating



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	0	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90


AC100HBMPKH/EU + AC100HCAPNH/EU

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	25	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	20	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	15	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	5	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-5	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
	-10	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
	-15	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
	-20	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
	-25	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
	-30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating




		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	25	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	20	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	15	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	5	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-5	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-15	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-20	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-25	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

14 Capacity correction

Outdoor


AC140HBMPKH/EU + AC140HCAPKH/EU

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	25	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	20	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	15	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	5	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-5	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
	-10	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
	-15	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
	-20	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
	-25	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
	-30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	25	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	20	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	15	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	5	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-5	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-10	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-15	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-20	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-25	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-30	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

2015.06
Ver 1.2



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