SINGLE

Technical Data Book

Duct s for Europe (Premium Type)

SAMSUNG

History

Version	Modification	Date	Remark
Ver.1.0	Released SINGLE Duct S (Deluxe) TDB	14.04.24	
Ver.1.1	Modification for erros : the number of fan motors in Specification	15.04.07	
Ver 1.2	Add Note information in Specification regarding EU F-Gas regulation.	15.06.16	
Ver.1.3	Modified 'recommended operation range' data	18.05.15.	

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1 Nomenclature

Indoor Units

Model Names

AC	026	H	B	M	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		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	026	H	C	B	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		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
		Air Flow Rate		High/Mid/Low	CMM	16.00 / 13.50 / 11.00	22.00 / 19.00 / 16.00
					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	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
		Power	Cooling			63.0	65.0
	External Dimension	Net Weight			kg	54.00	64.50
		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	Cooling			ºC	-15.0 ~ 50.0	-15.0 ~ 50.0
		Heating			ºC	-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
		Air Flow Rate		High/Mid/Low	CMM	29.00 / 25.00 / 21.00	33.00 / 27.00 / 22.00
					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
		Power	Cooling			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	Cooling			ºC	-15.0 ~ 50.0	-15.0 ~ 50.0
		Heating			ºC	-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
		Air Flow Rate		High/Mid/Low	CMM	33.00 / 27.00 / 22.00	38.00 / 32.00 / 25.00
					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 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	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
		Power	Cooling			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			ºC	-15.0 ~ 50.0	-15.0 ~ 50.0
		Heating			ºC	-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
		Air Flow Rate		High/Mid/Low	CMM	38.00 / 32.00 / 25.00	42.00 / 34.00 / 25.00
					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	-	-
		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	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
		Power	Cooling			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	Cooling			ºC	-15.0 ~ 50.0	-15.0 ~ 50.0
		Heating			ºC	-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				AC140HBMPKH/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
		Air Flow Rate		High/Mid/Low	CMM	42.00 / 34.00 / 25.00
					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 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	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			ºC	-15.0 ~ 50.0
		Heating			ºC	-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
	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

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
	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

- 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 (ºC, DB)	Indoor temperature (ºC, 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 (ºC, DB)	Indoor temperature (ºC, 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

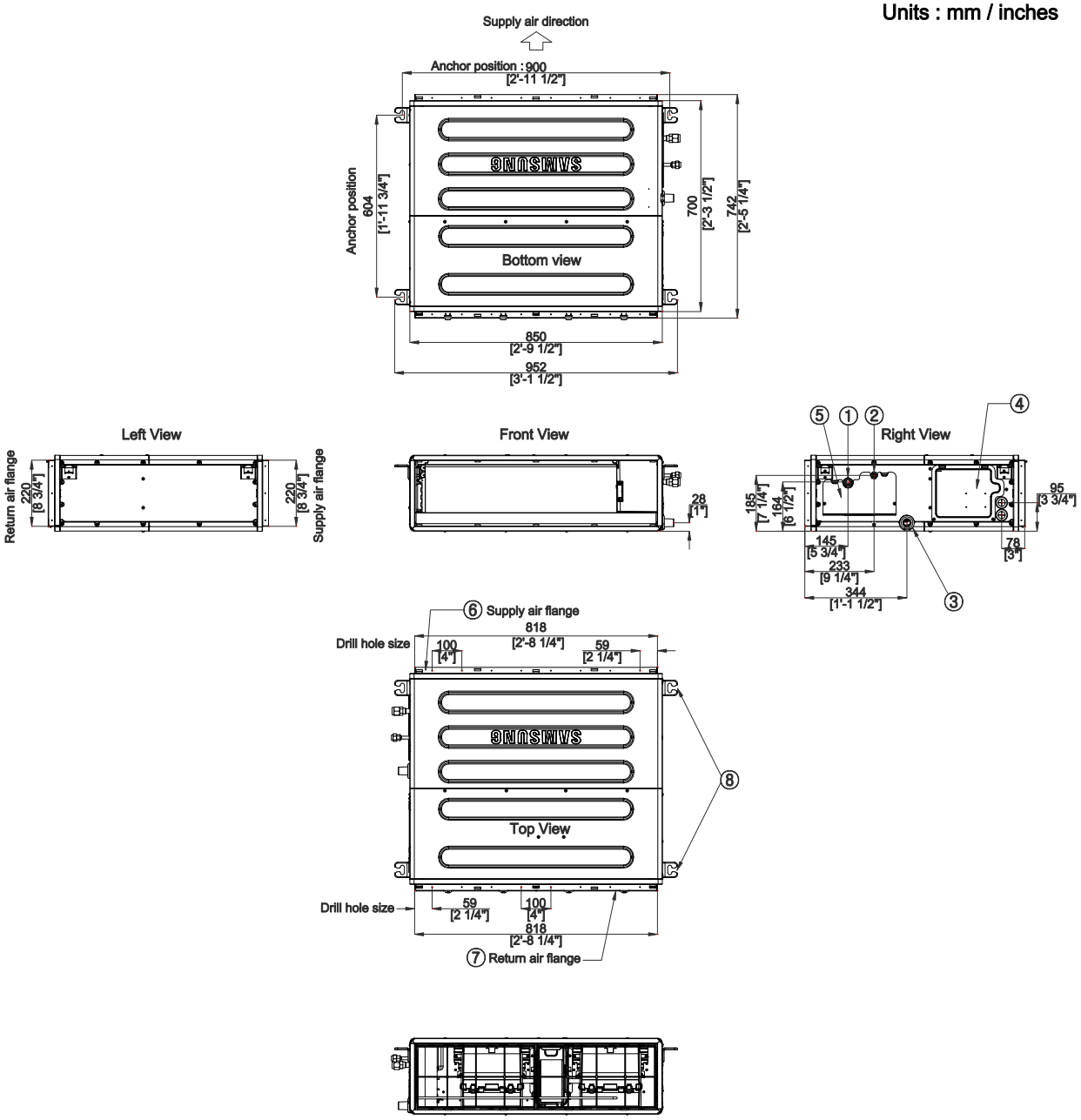


Table of descriptions			
1	Refrigerant gas pipe	7	Return air flange
2	Refrigerant liquid pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

4 Dimensional drawing

Duct S

AC071HBMPKH/EU

Units : mm / inches

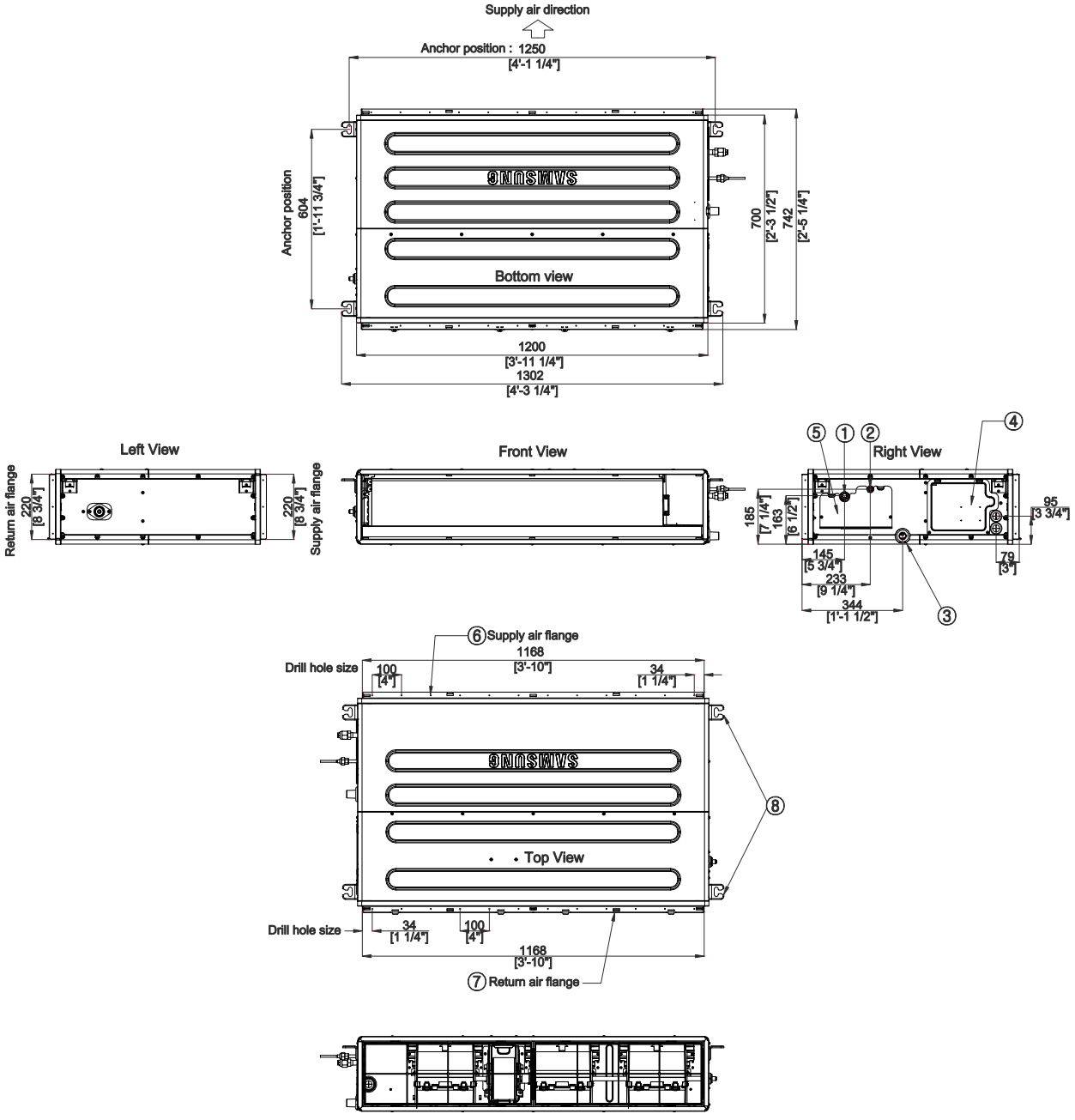


Table of descriptions			
1	Refrigerant gas pipe	7	Return air flange
2	Refrigerant liquid pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

4 Dimensional drawing

Duct S

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

Units : mm / inches

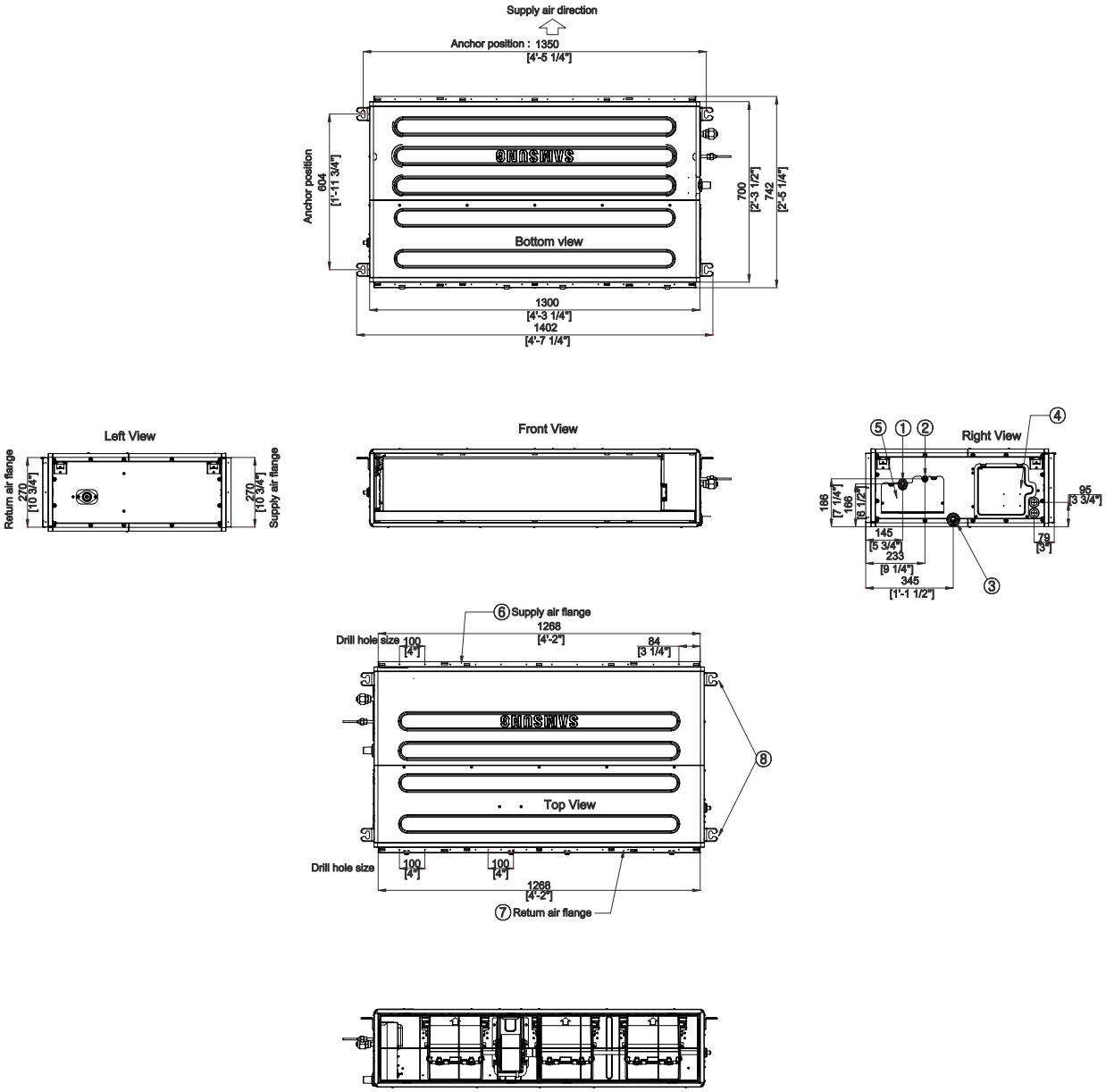
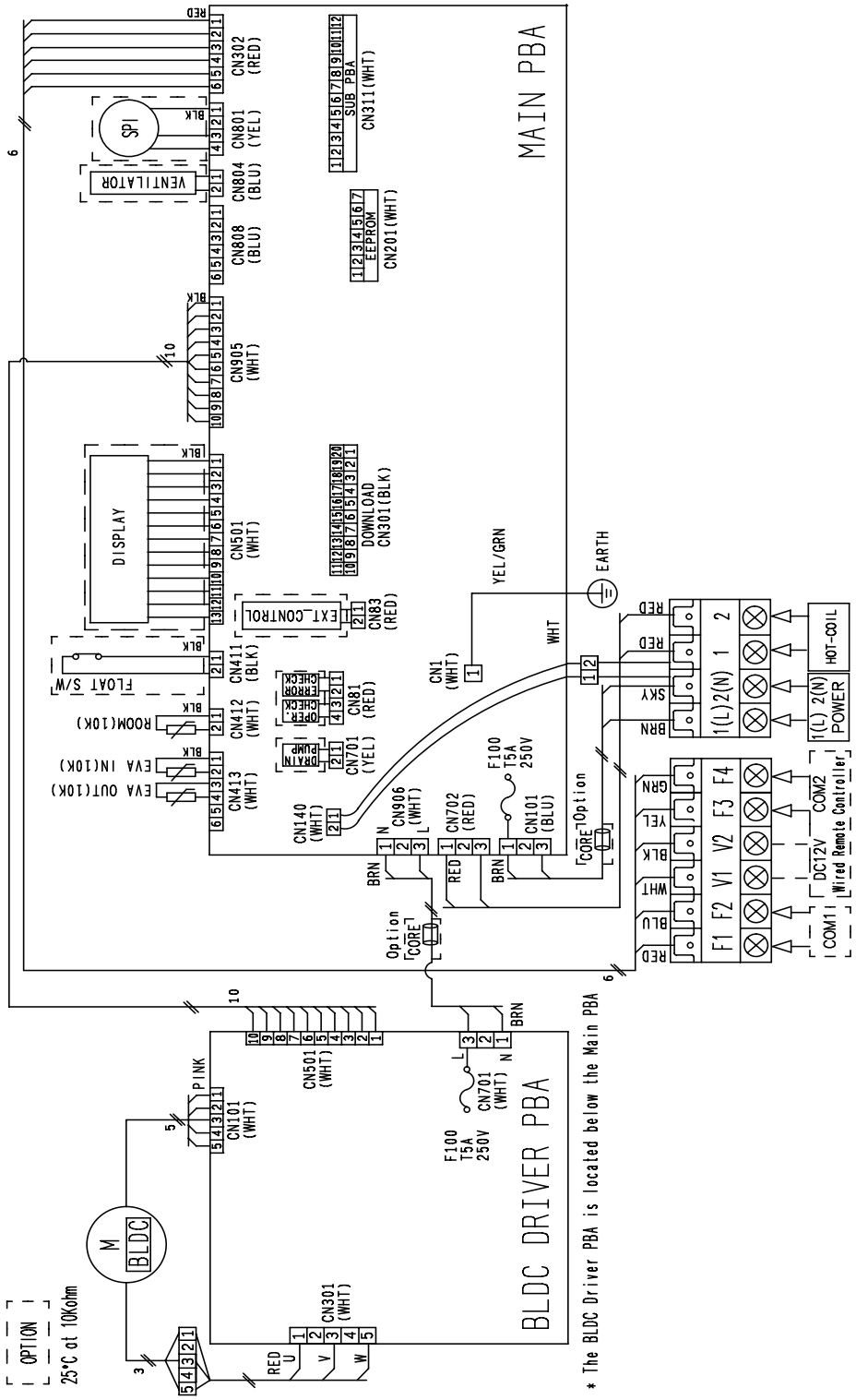


Table of descriptions			
1	Refrigerant gas pipe	7	Return air flange
2	Refrigerant liquid pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

5 Electrical wiring diagram

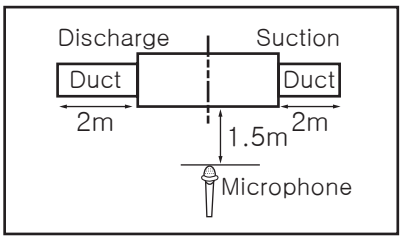
Duct S

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



6 Sound pressure level

Duct S



Unit: dB(A)

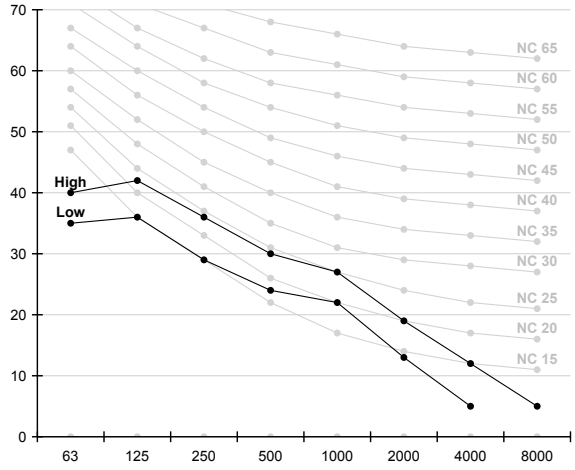
Model	High	Low
AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)	33.0	27.0
AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)	36.0	28.0
AC090HBMPKH/EU (ODU : AC090HCAPKH/EU)	36.0	30.0
AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)	37.0	31.0

Note

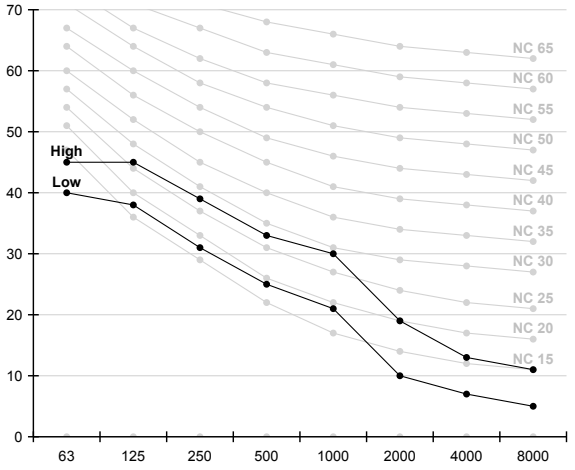
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

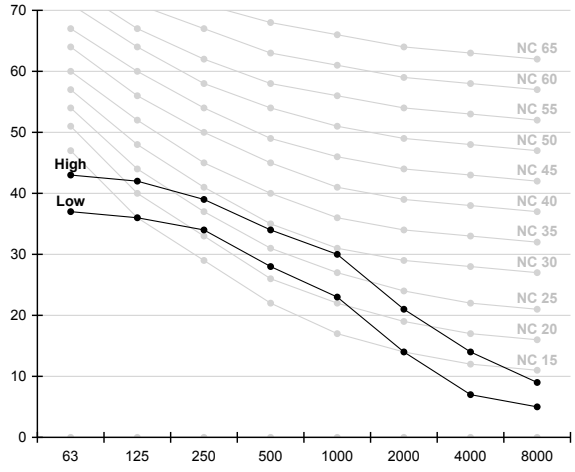
1) AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)



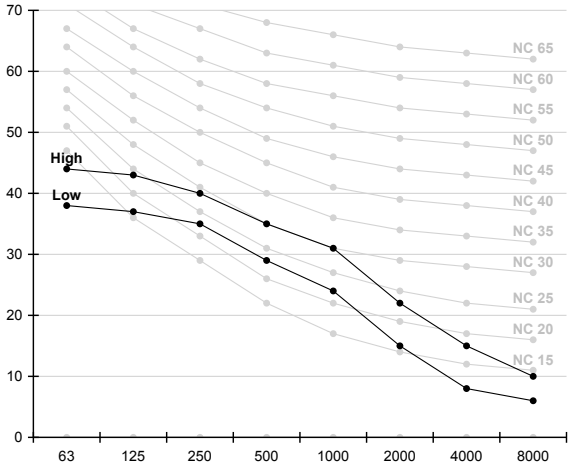
2) AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)



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

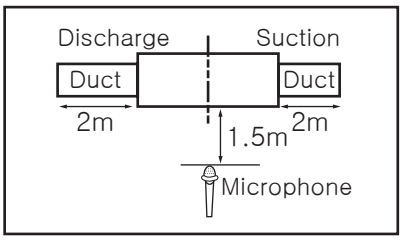


4) AC100HBMPKH/EU (ODU : AC100HCAPKH/EU)



6 Sound pressure level

Duct S



Unit: dB(A)

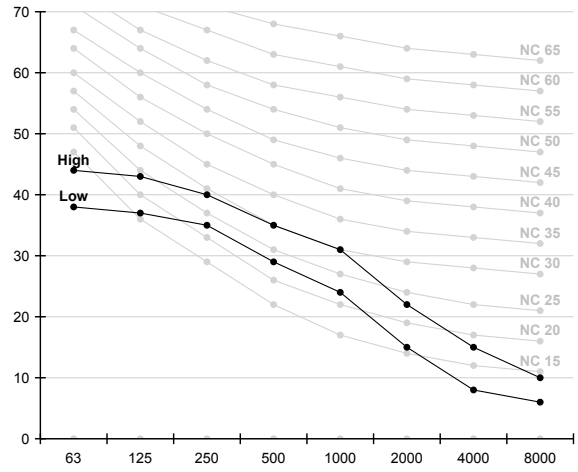
Model	High	Low
AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)	37.0	31.0
AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)	39.0	33.0
AC120HBMPKH/EU (ODU : AC120HCAPNH/EU)	39.0	33.0
AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)	40.0	33.0

Note

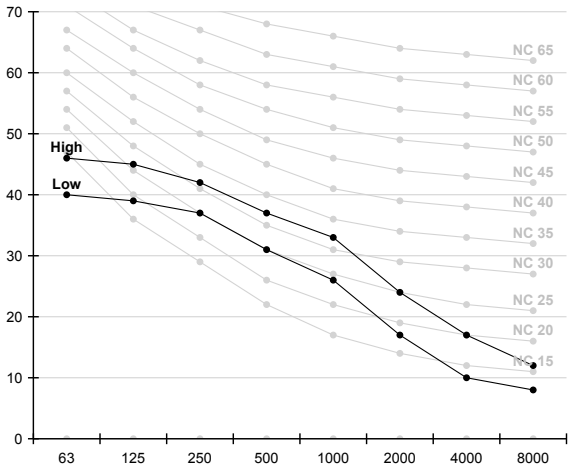
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

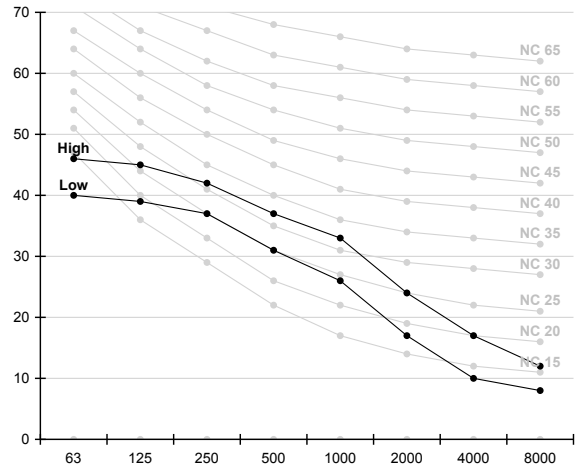
1) AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)



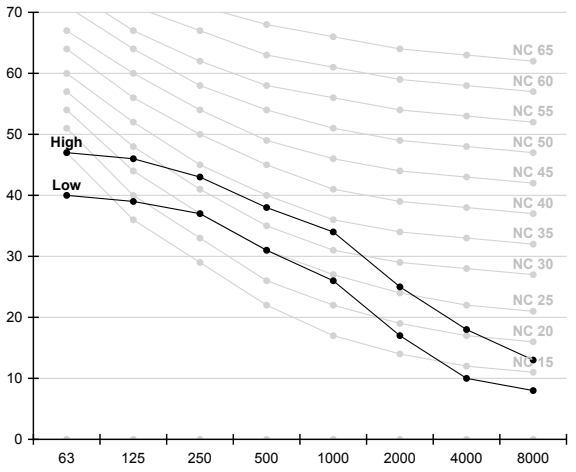
2) AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)



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

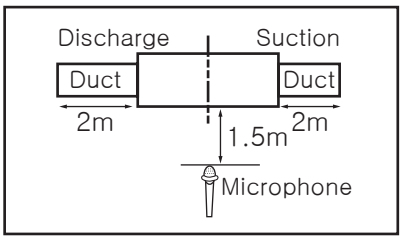


4) AC140HBMPKH/EU (ODU : AC140HCAPKH/EU)



6 Sound pressure level

Duct S



Unit: dB(A)

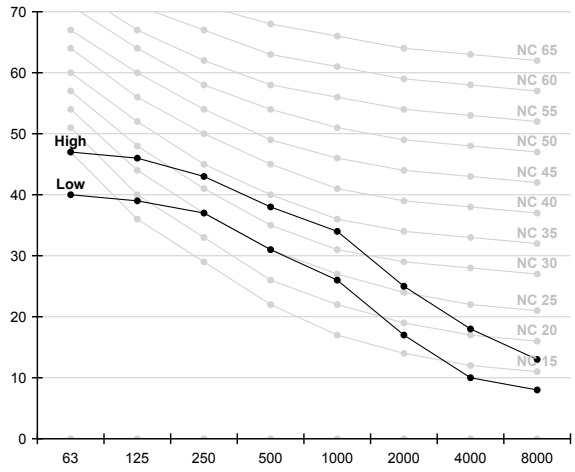
Model	High	Low
AC140HBMPKH/EU (ODU : AC140HCAPNH/EU)	40.0	33.0

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

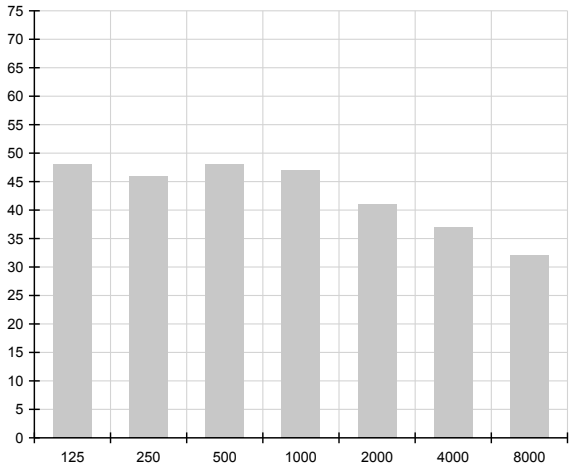
Note

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

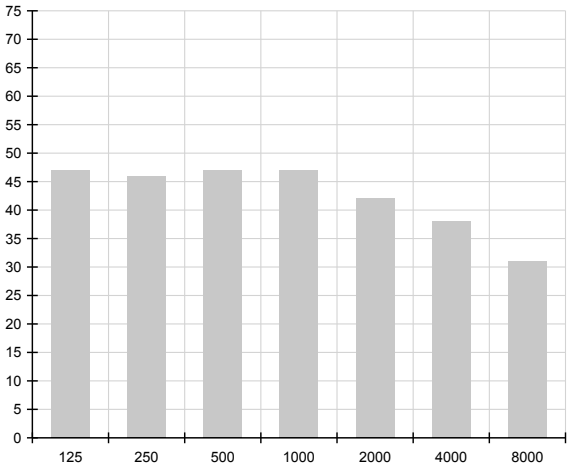
Unit: dB(A)

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

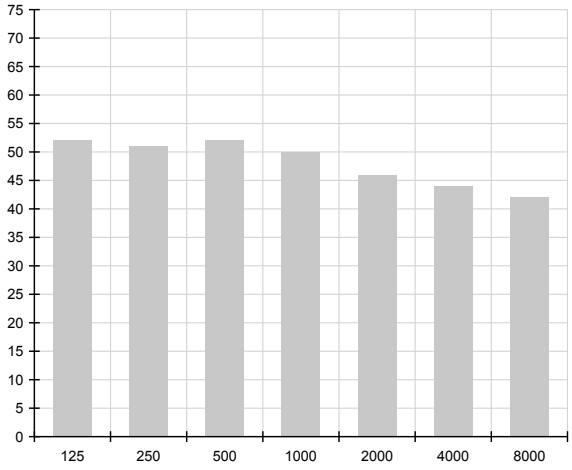
1) AC052HBMPKH/EU (ODU : AC052HCAPKH/EU)



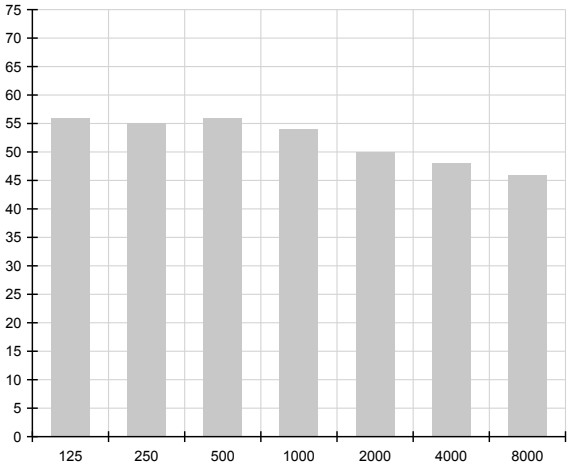
2) AC071HBMPKH/EU (ODU : AC071HCAPKH/EU)



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



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



7 Sound power level

Duct S

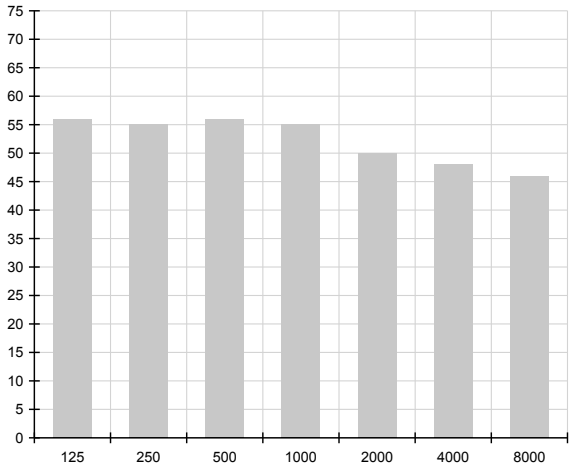
Note

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

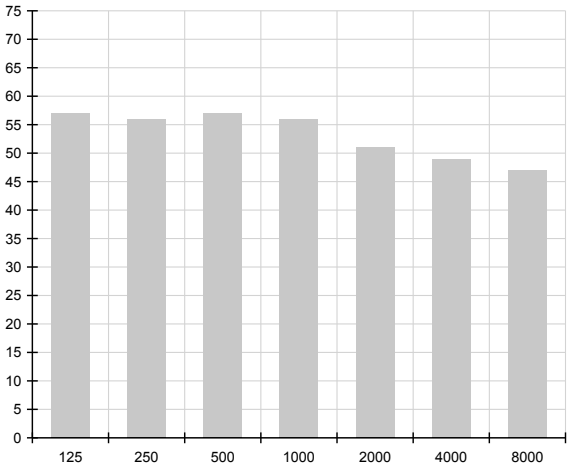
Unit: dB(A)

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

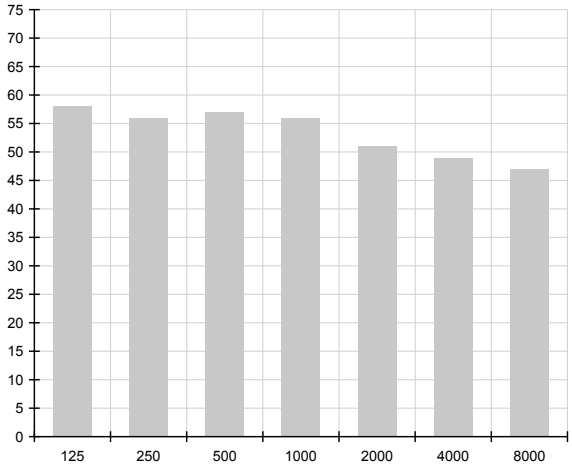
1) AC100HBMPKH/EU (ODU : AC100HCAPNH/EU)



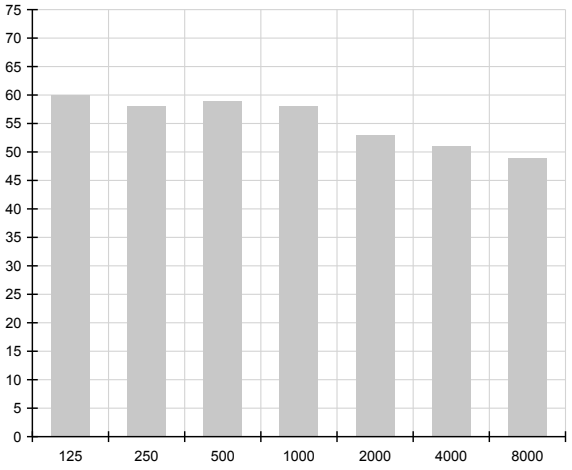
2) AC120HBMPKH/EU (ODU : AC120HCAPKH/EU)



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



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



7 Sound power level

Duct S

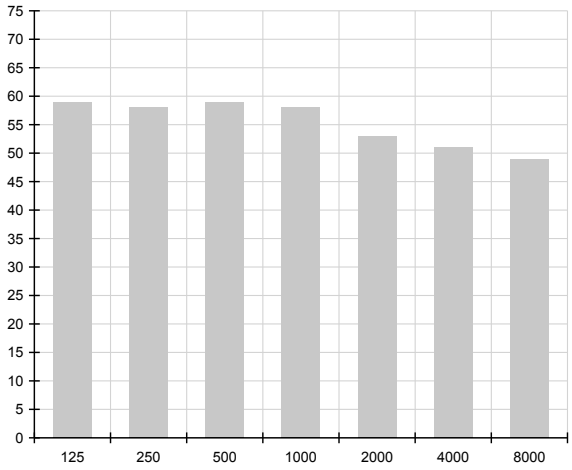
Note

- 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)

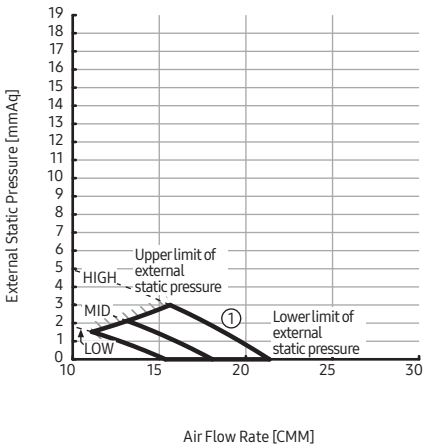


8 Recommended operation range

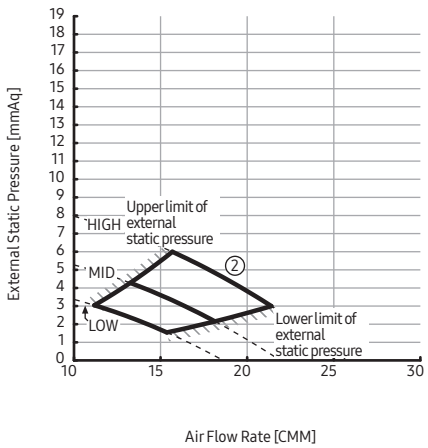
Duct S

1) AC052HBMPKH/EU

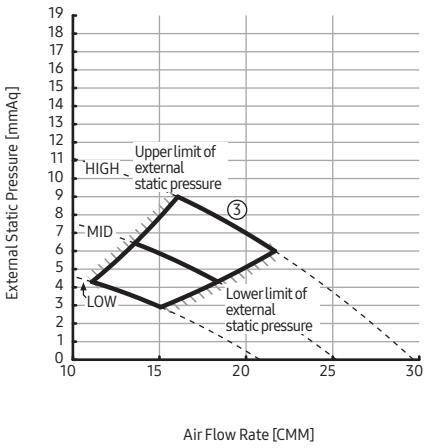
①	External Static Pressure (mmAq)	Option Code
	0~3	01B06C-1C50E6-27343C-373000



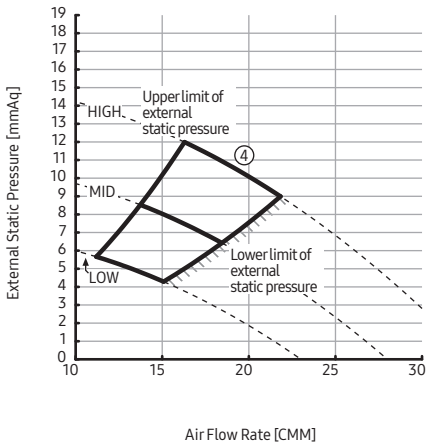
②	External Static Pressure (mmAq)	Option Code
	3~6	01B06C-1C544D-27343C-373000



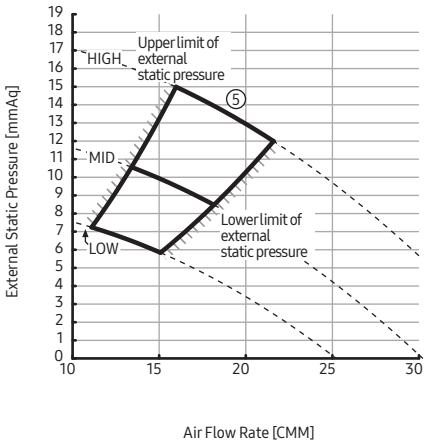
③	External Static Pressure (mmAq)	Option Code
	6~9	01B06C-1C55A4-27343C-373000



④	External Static Pressure (mmAq)	Option Code
	9~12	01B06C-1C591A-27343C-373000



⑤	External Static Pressure (mmAq)	Option Code
	12~15	01B06C-1C5A75-27343C-373000

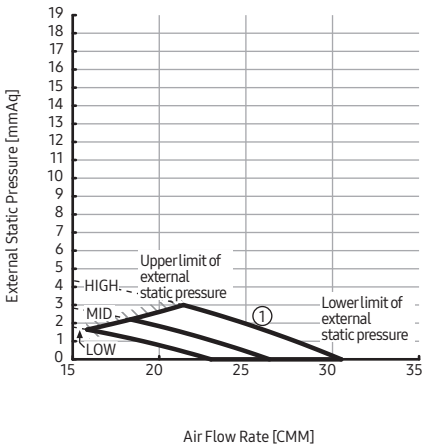


8 Recommended operation range

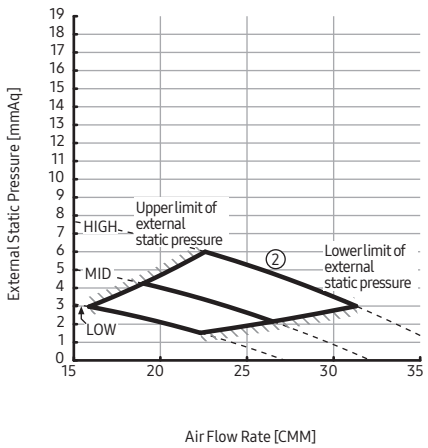
Duct S

2) AC071HBMPKH/EU

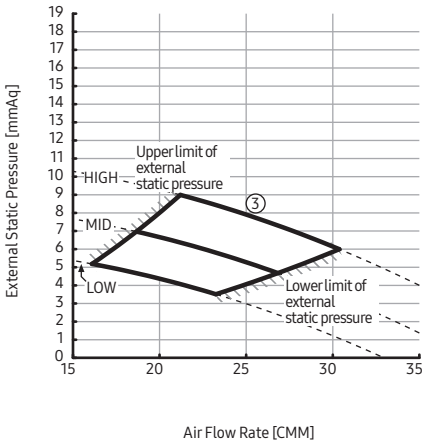
①	External Static Pressure (mmAq)	Option Code
	0~3	01B06C-1C50D8-274750-373020



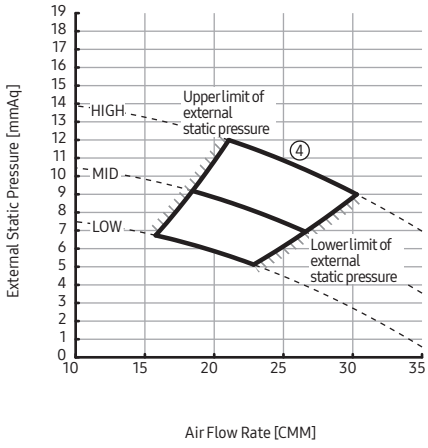
②	External Static Pressure (mmAq)	Option Code
	3~6	01B06C-1C5541-274750-373020



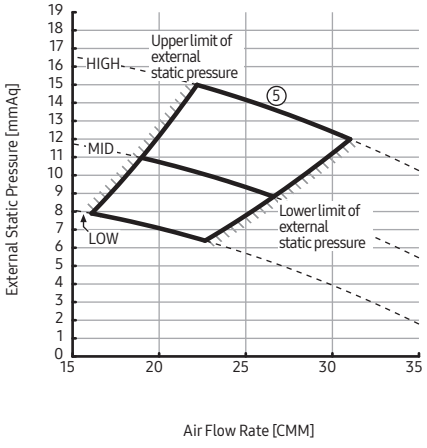
③	External Static Pressure (mmAq)	Option Code
	6~9	01B06C-1C5596-274750-373020



④	External Static Pressure (mmAq)	Option Code
	9~12	01B06C-1C55DB-274750-373020



⑤	External Static Pressure (mmAq)	Option Code
	12~15	01B06C-1C5A94-274750-373020

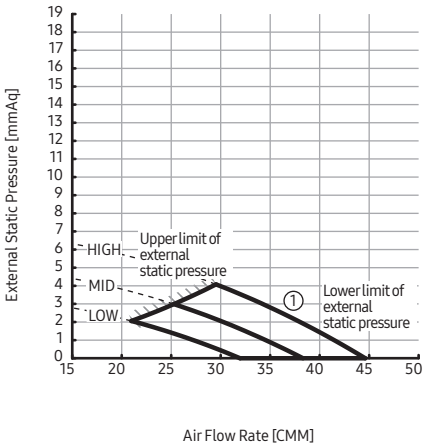


8 Recommended operation range

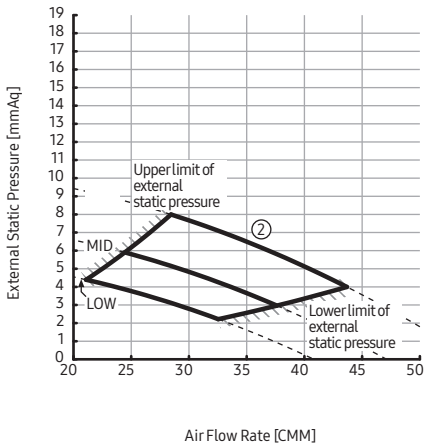
Duct S

3) AC090HBMPKH/EU

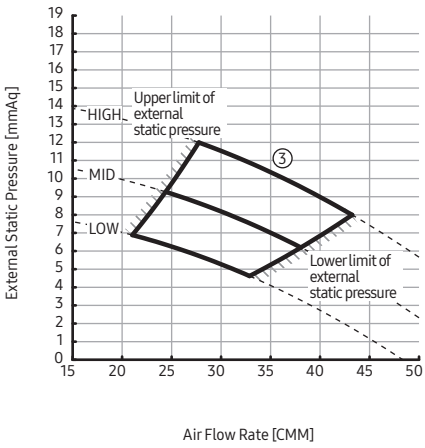
①	External Static Pressure (mmAq)	Option Code
	0~4	01B06C-1C50B7-275A64-374040



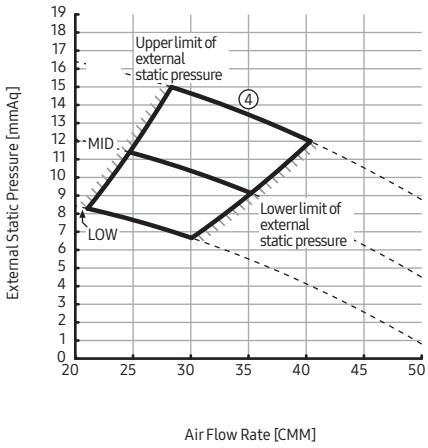
②	External Static Pressure (mmAq)	Option Code
	4~8	01B06C-1C543F-275A64-374040



③	External Static Pressure (mmAq)	Option Code
	8~12	01B06C-1C55A7-275A64-374040



④	External Static Pressure (mmAq)	Option Code
	12~15	01B06C-1C55FD-275A64-374040

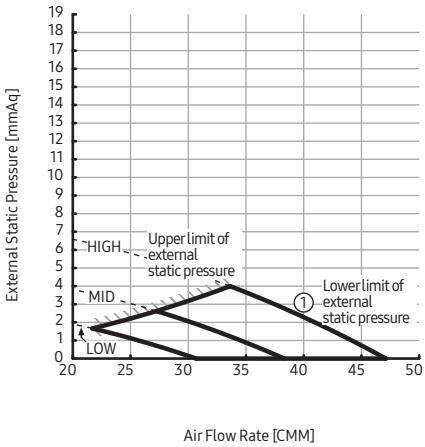


8 Recommended operation range

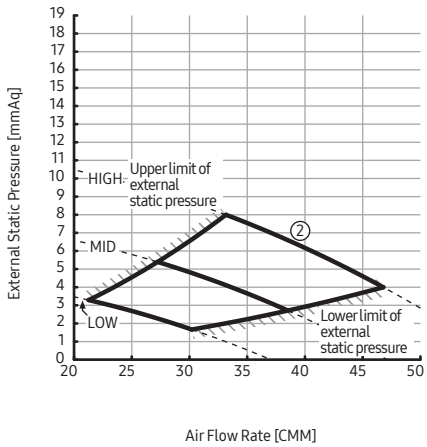
Duct S

4) AC100HBMPKH/EU

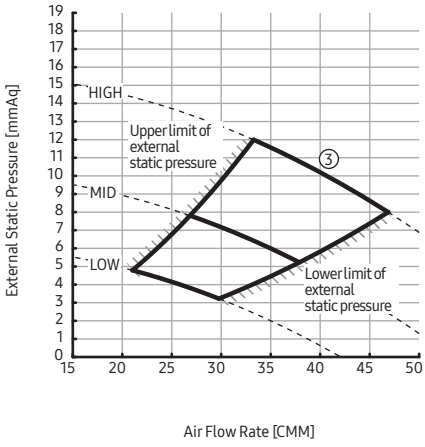
①	External Static Pressure (mmAq)	Option Code
	0~4	01B06C-1C50F9-276470-373040



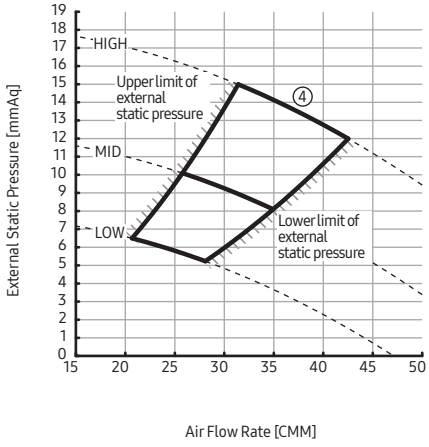
②	External Static Pressure (mmAq)	Option Code
	4~8	01B06C-1C5540-276470-373040



③	External Static Pressure (mmAq)	Option Code
	8~12	01B06C-1C55B9-276470-373040



④	External Static Pressure (mmAq)	Option Code
	12~15	01B06C-1C591F-276470-373040

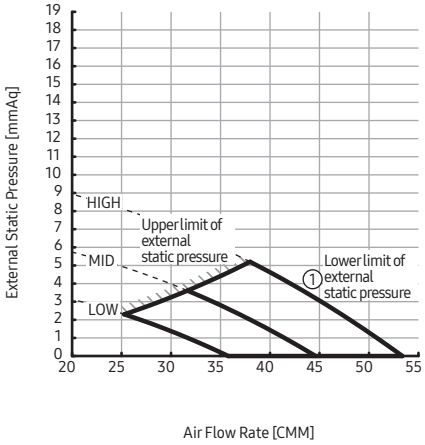


8 Recommended operation range

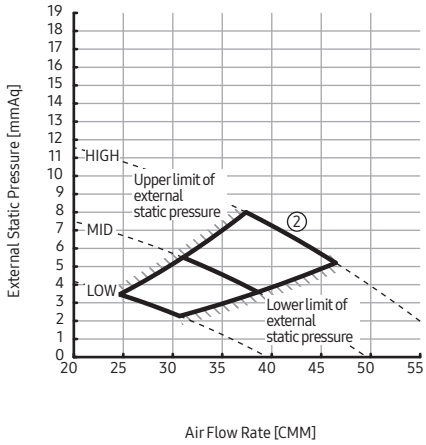
Duct S

5) AC120HBMPKH/EU

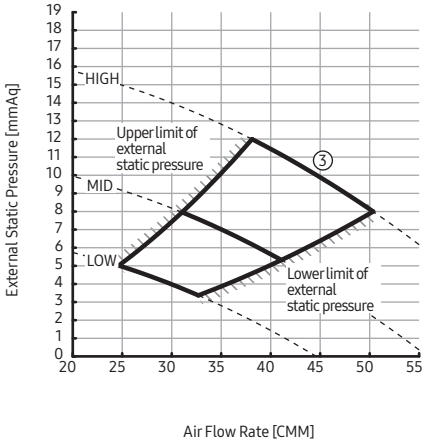
①	External Static Pressure (mmAq)	Option Code
	0~5.2	01B06C-1C542C-27788C-372045



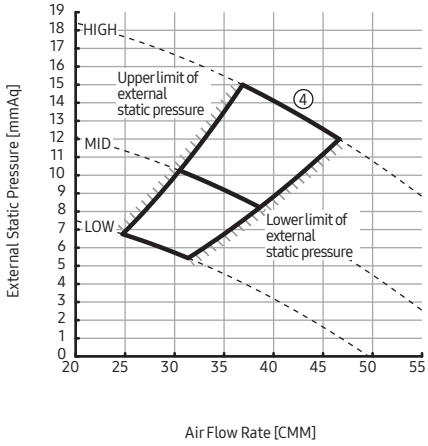
②	External Static Pressure (mmAq)	Option Code
	5.2~8	01B06C-1C5572-27788C-372045



③	External Static Pressure (mmAq)	Option Code
	8~12	01B06C-1C55EA-27788C-372045



④	External Static Pressure (mmAq)	Option Code
	12~15	01B06C-1C592E-27788C-372045

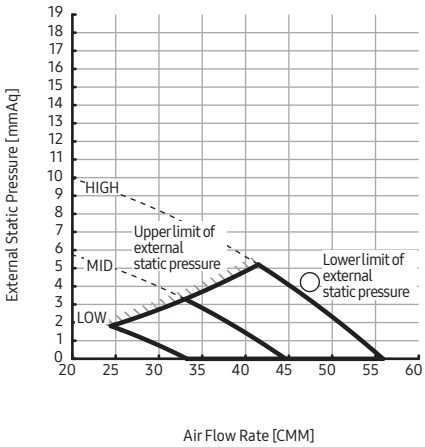


8 Recommended operation range

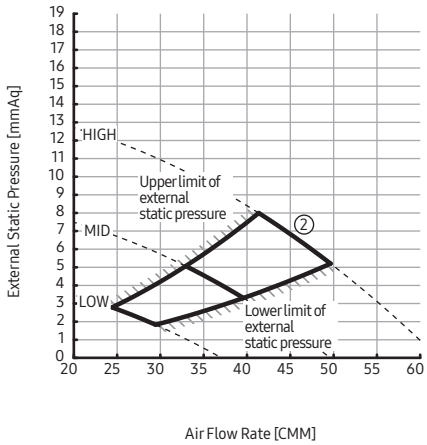
Duct S

6) AC140HBMPKH/EU

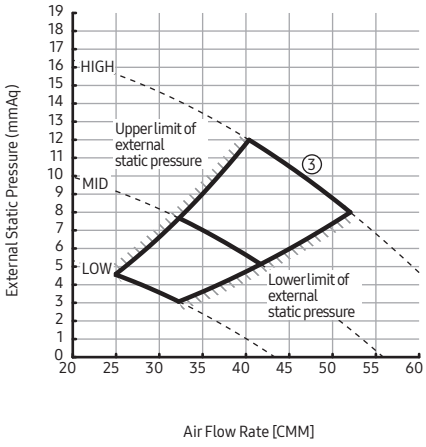
①	External Static Pressure (mmAq)	Option Code
	0~5.2	01B06C-1C544C-278CA0-371045



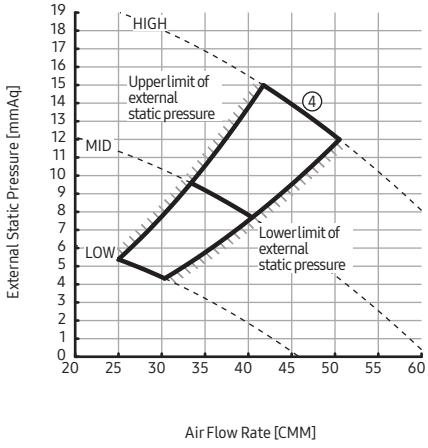
②	External Static Pressure (mmAq)	Option Code
	5.2~8	01B06C-1C5592-278CA0-371045



③	External Static Pressure (mmAq)	Option Code
	8~12	01B06C-1C55FA-278CA0-371045



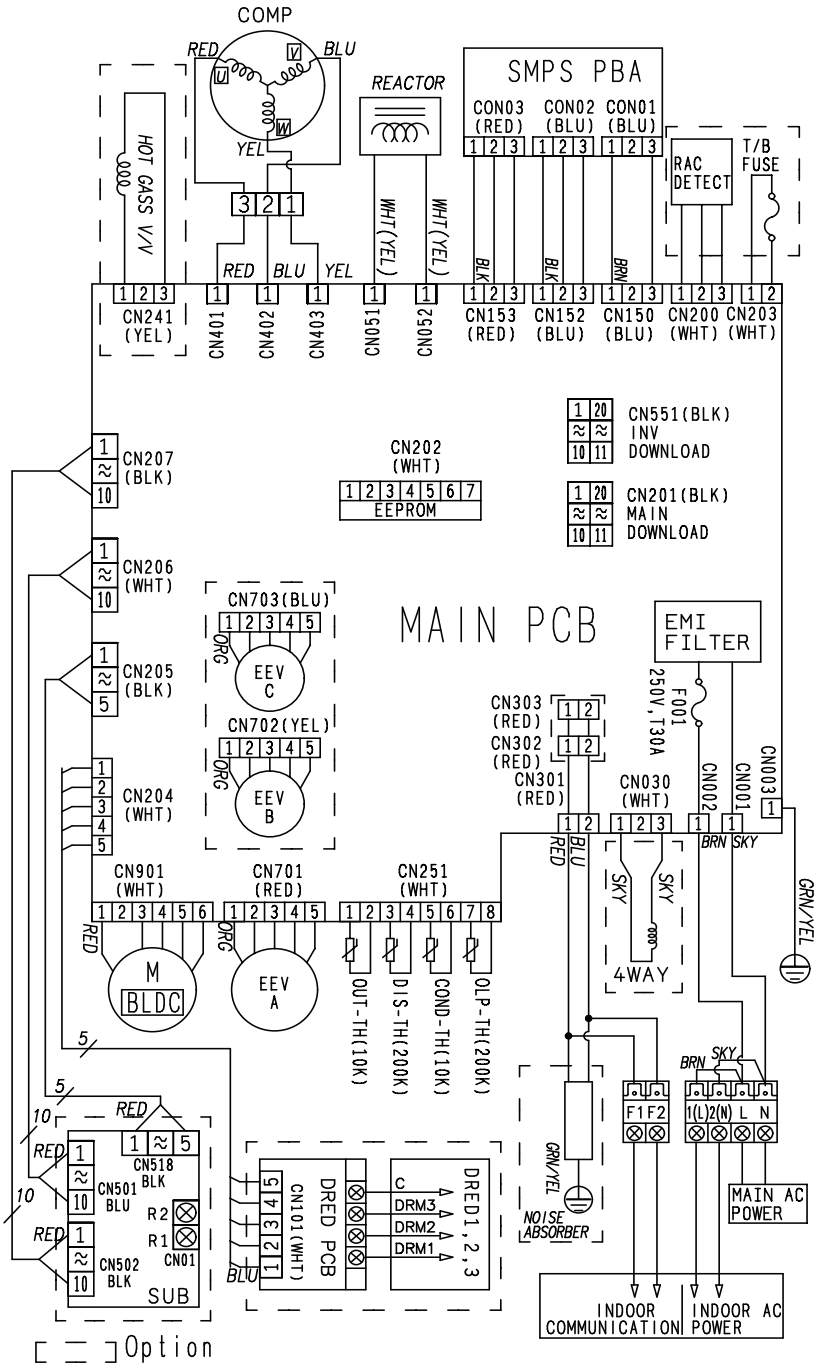
④	External Static Pressure (mmAq)	Option Code
	12~15	01B06C-1C593E-278CA0-371045



9 Electrical wiring diagram

Outdoor

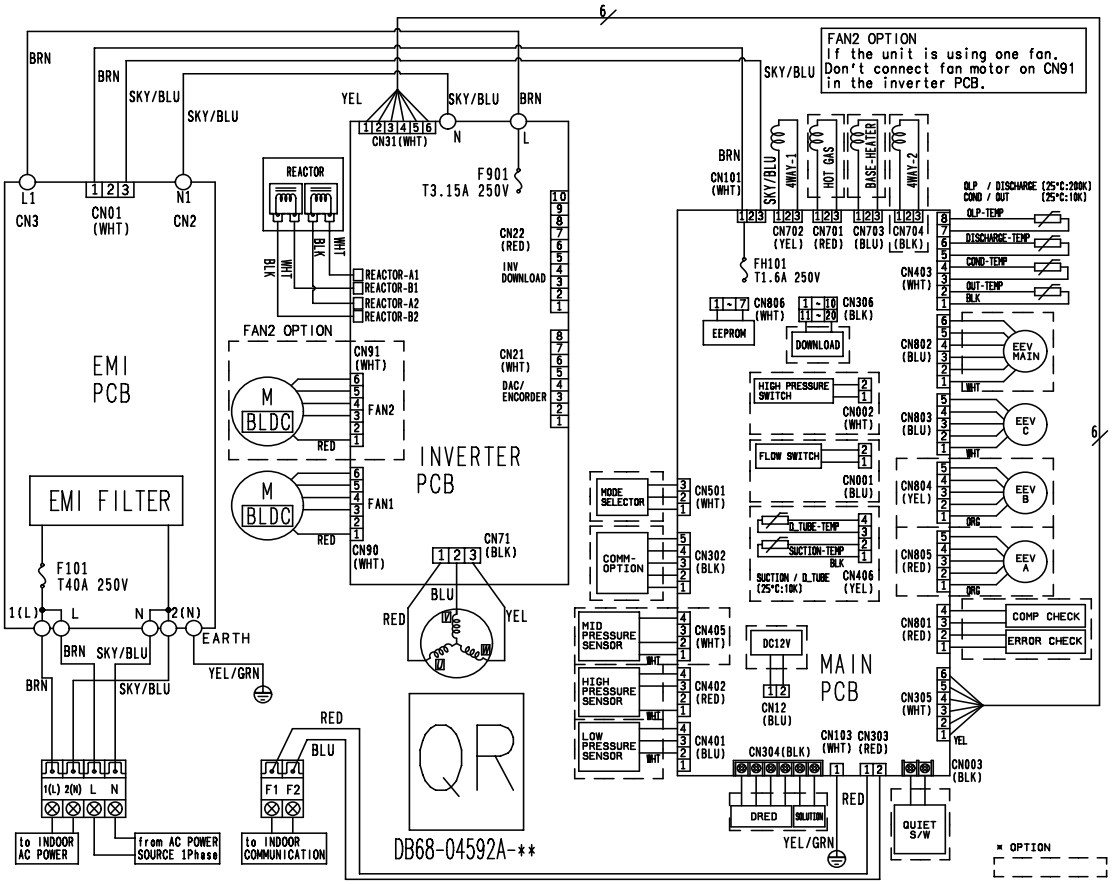
AC052HCAPKH/EU



9 Electrical wiring diagram

Outdoor

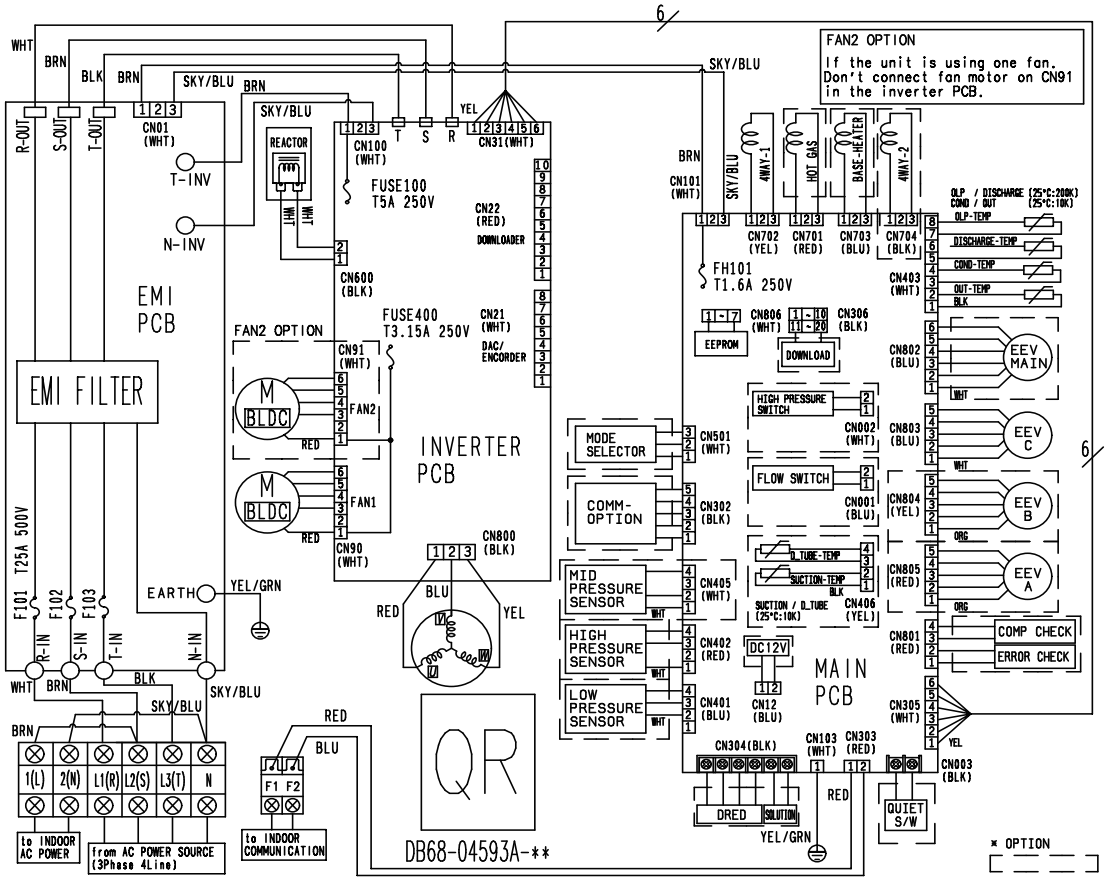
AC071HCAPKH/EU, AC090HCAPKH/EU, AC100HCAPKH/EU, AC120HCAPKH/EU, AC140HCAPKH/EU



9 Electrical wiring diagram

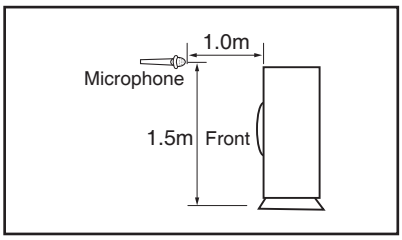
Outdoor

AC100HCAPNH/EU, AC120HCAPNH/EU, AC140HCAPNH/EU



10 Sound pressure level

Outdoor



Unit: dB(A)

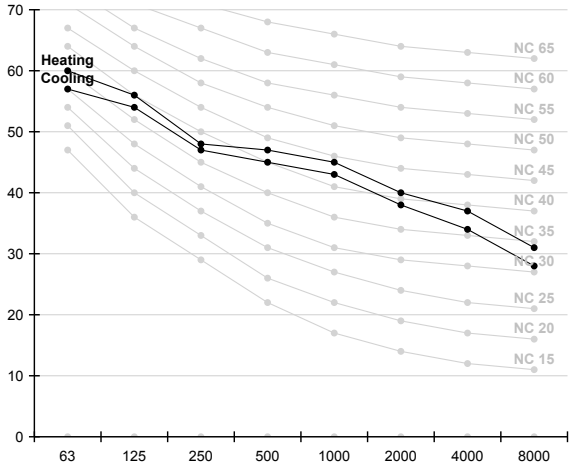
Model	Cooling	Heating
AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)	48.0	50.0
AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)	49.0	51.0
AC090HCAPKH/EU (IDU : AC090HBMPKH/EU)	49.0	51.0
AC100HCAPKH/EU (IDU : AC100HBMPKH/EU)	49.0	51.0

Note

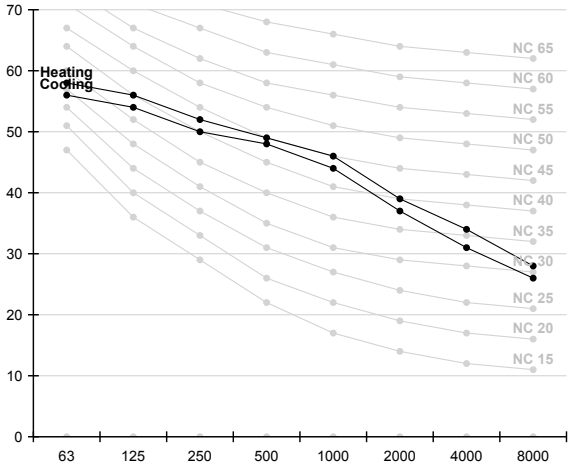
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

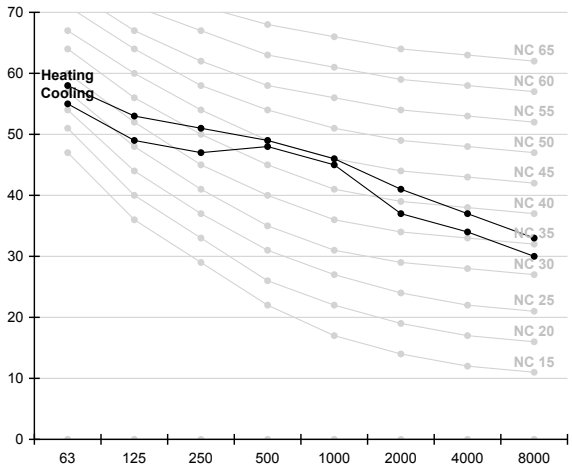
1) AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)



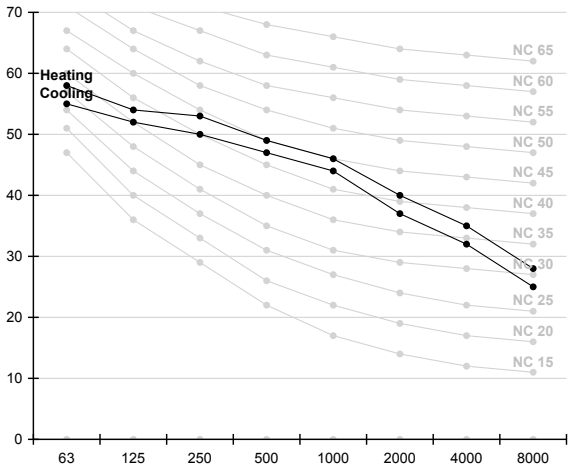
2) AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)



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

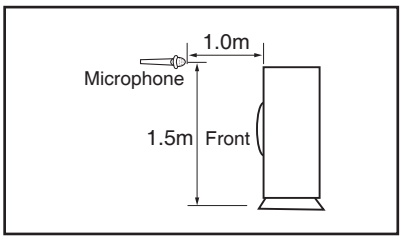


4) AC100HCAPKH/EU (IDU : AC100HBMPKH/EU)



10 Sound pressure level

Outdoor



Unit: dB(A)

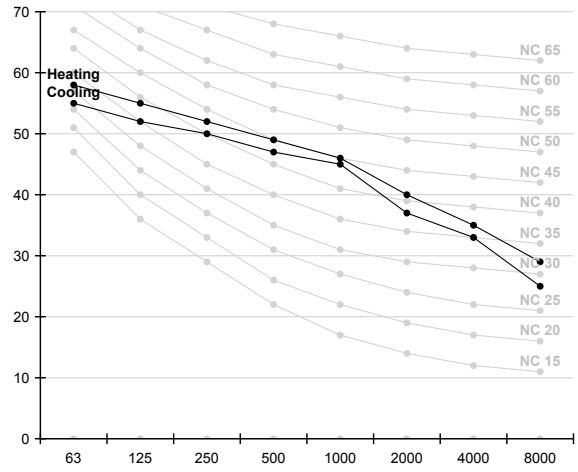
Model	Cooling	Heating
AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)	49.0	51.0
AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)	50.0	52.0
AC120HCAPNH/EU (IDU : AC120HBMPKH/EU)	50.0	52.0
AC140HCAPKH/EU (IDU : AC140HBMPKH/EU)	51.0	53.0

Note

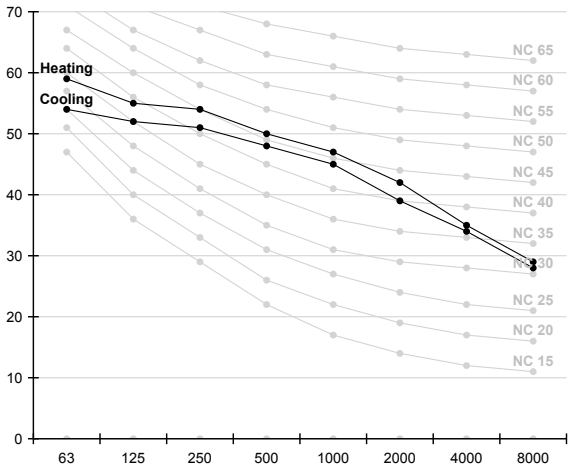
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

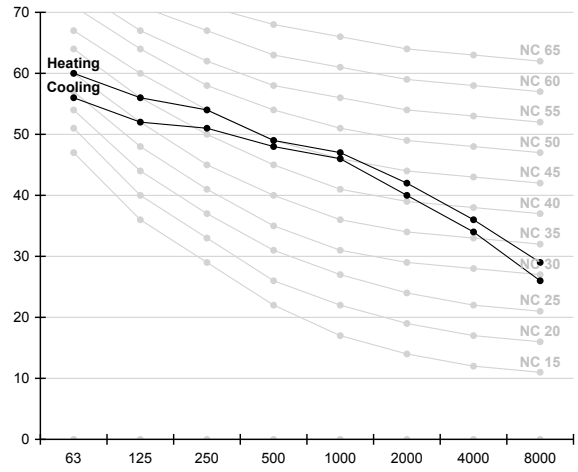
1) AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)



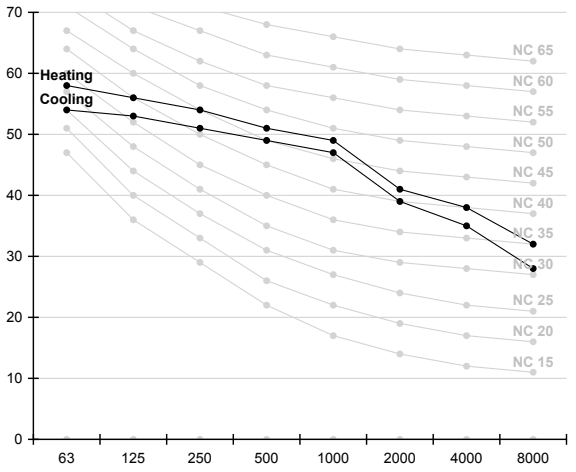
2) AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)



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

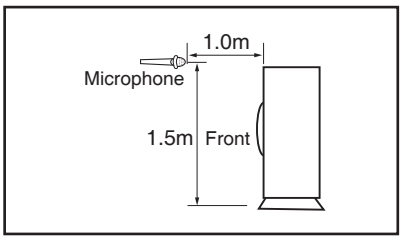


4) AC140HCAPKH/EU (IDU : AC140HBMPKH/EU)



10 Sound pressure level

Outdoor



Unit: dB(A)

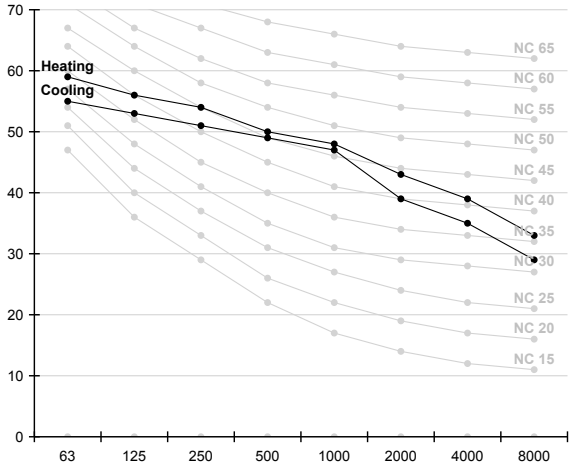
Model	Cooling	Heating
AC140HCAPNH/EU (IDU : AC140HBMPKH/EU)	51.0	53.0

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

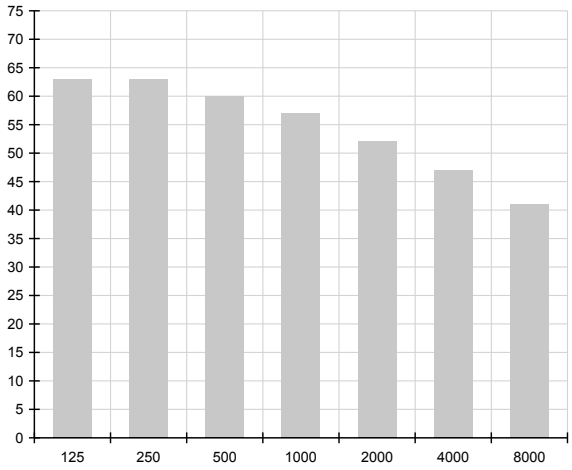
Note

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

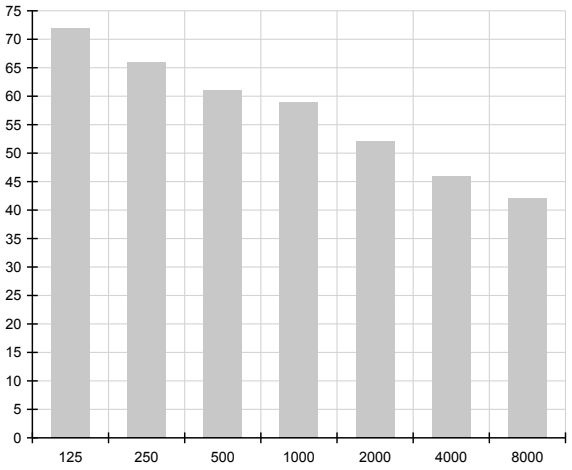
Unit: dB(A)

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

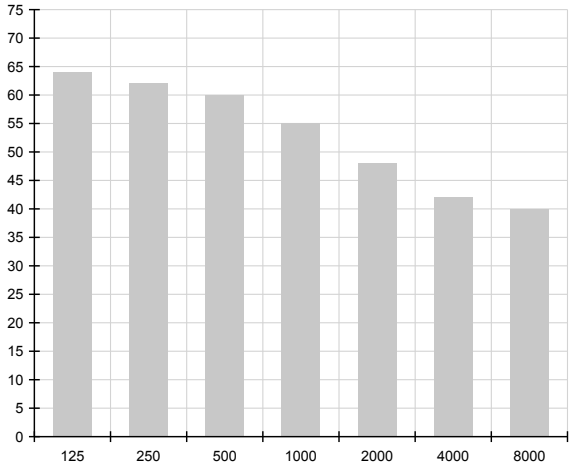
1) AC052HCAPKH/EU (IDU : AC052HBMPKH/EU)



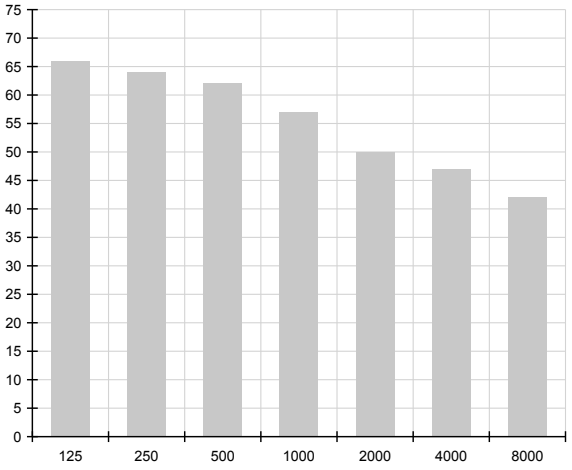
2) AC071HCAPKH/EU (IDU : AC071HBMPKH/EU)



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



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



11 Sound power level

Outdoor

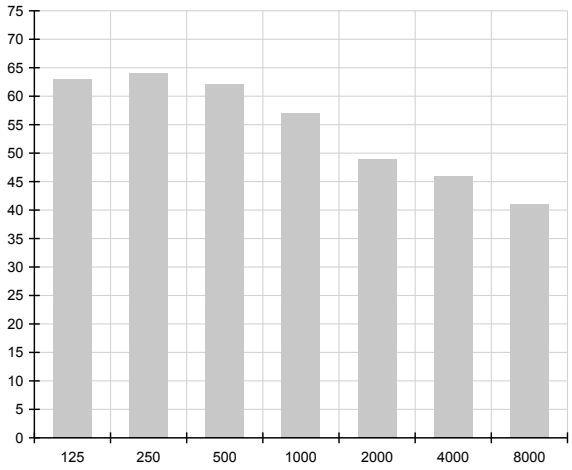
Note

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

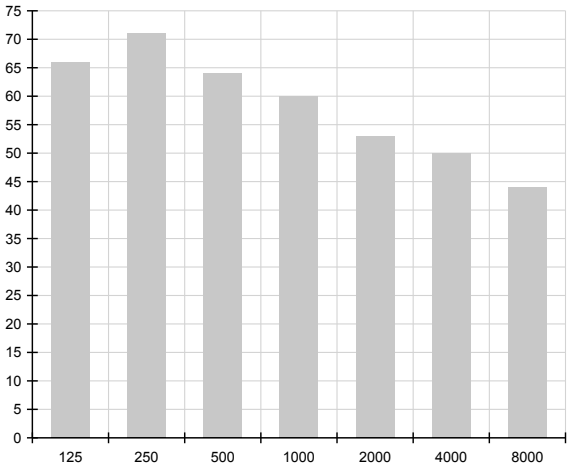
Unit: dB(A)

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

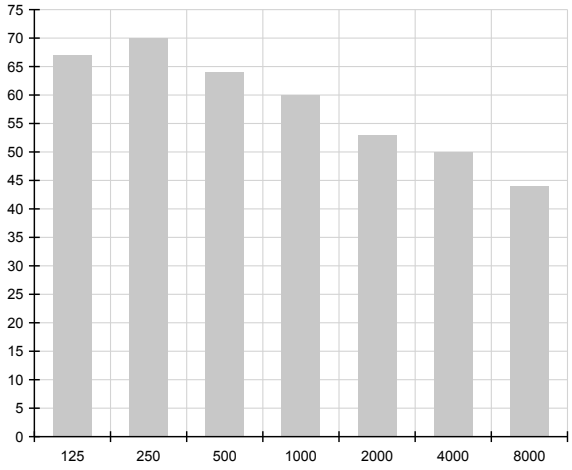
1) AC100HCAPNH/EU (IDU : AC100HBMPKH/EU)



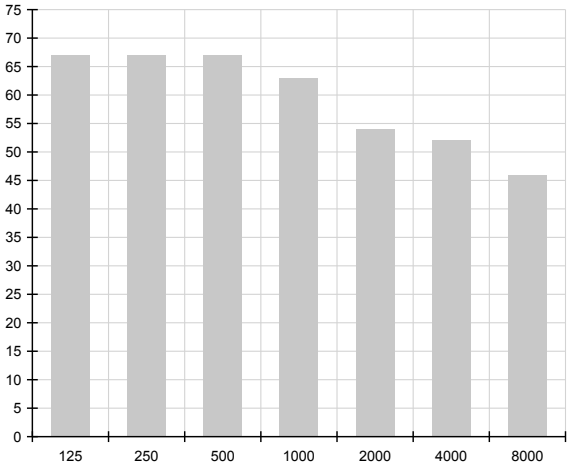
2) AC120HCAPKH/EU (IDU : AC120HBMPKH/EU)



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



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



11 Sound power level

Outdoor

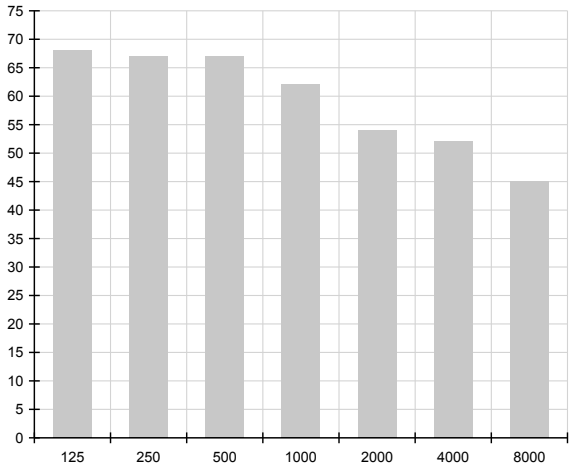
Note

- 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

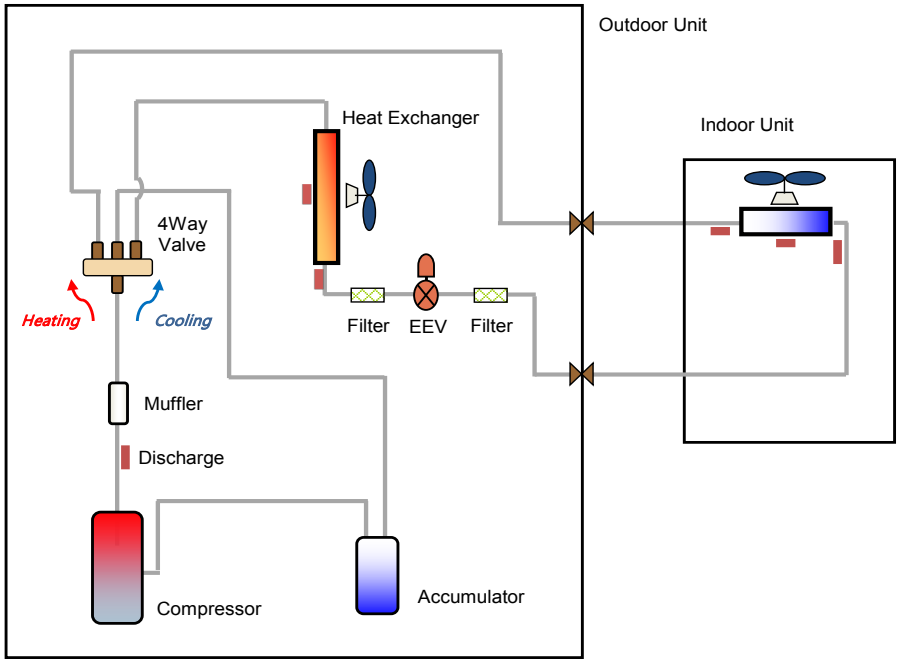
1) AC140HCAPNH/EU (IDU : AC140HBMPKH/EU)



12 Cycle diagram

Outdoor

AC052HCAPKH/EU



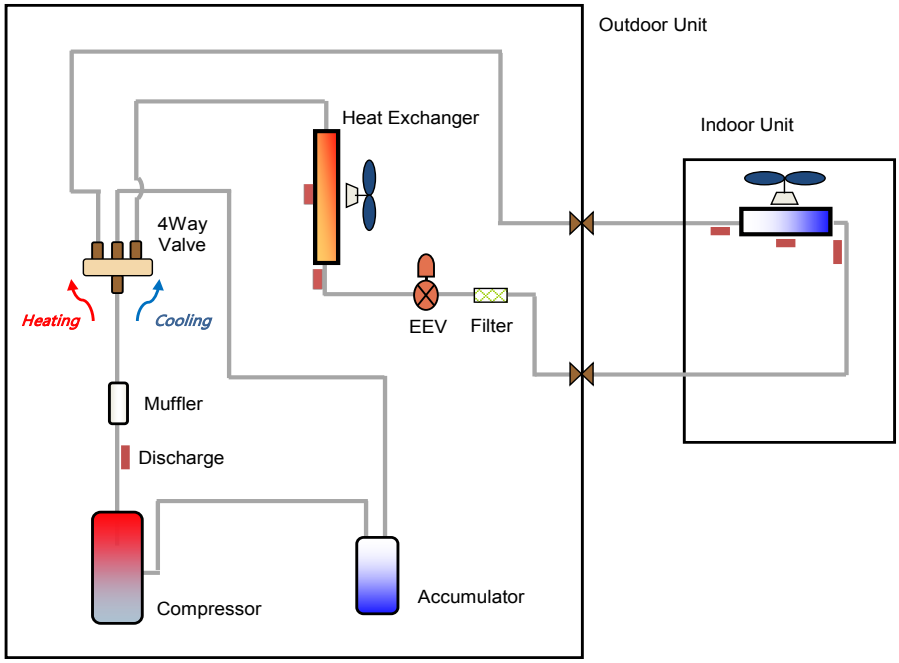
Category		Symbol	Description
Compressor			Rotary Inveter Compressor
Heat Exchanger			Condensing/Evaporating unit(FMC)
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Senser	Temperature		Pip/Air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

12 Cycle diagram

Outdoor

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

AC140HCAPNH/EU



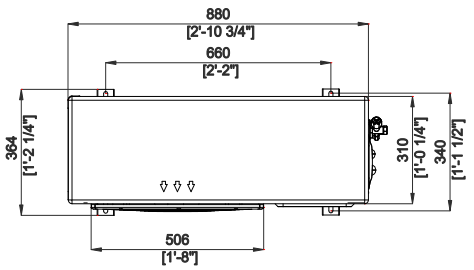
Category		Symbol	Description
Compressor			Rotary Inveter Compressor
Heat Exchanger			Condensing/Evaporating unit(FMC)
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Senser	Temperature		Pip/Air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

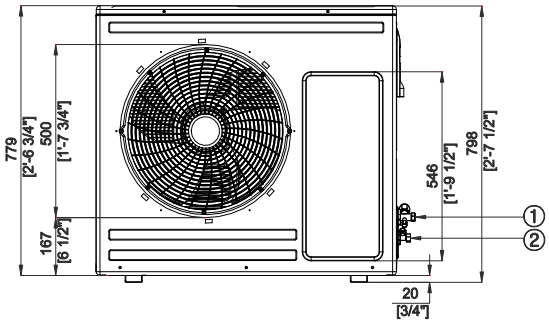
13 Dimensional drawing

Outdoor

AC052HCAPKH/EU

Units : mm / inches





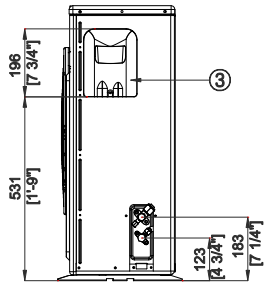


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

13 Dimensional drawing

Outdoor

AC071HCAPKH/EU

Units : mm / inches

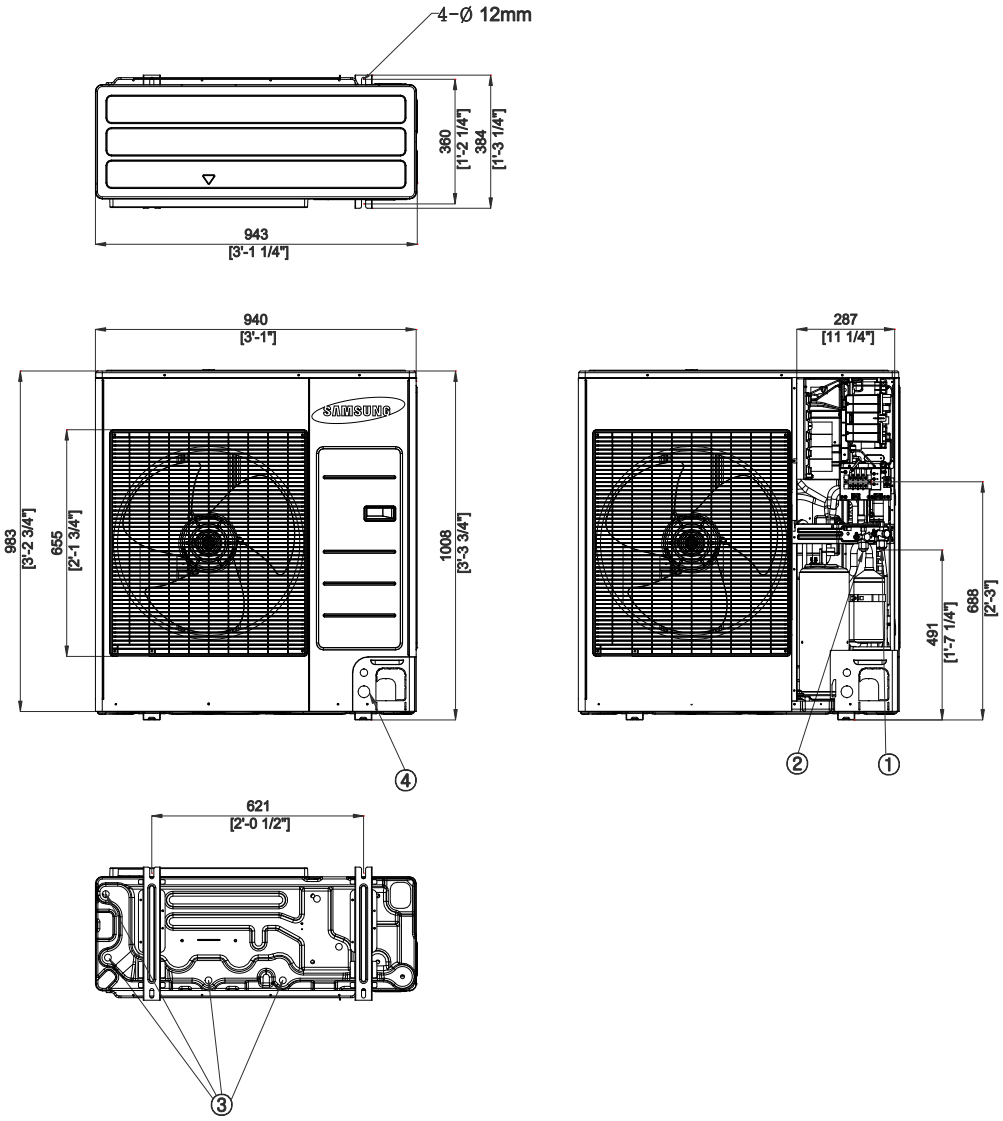


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

13 Dimensional drawing

Outdoor

AC090HCAPKH/EU

Units : mm / inches

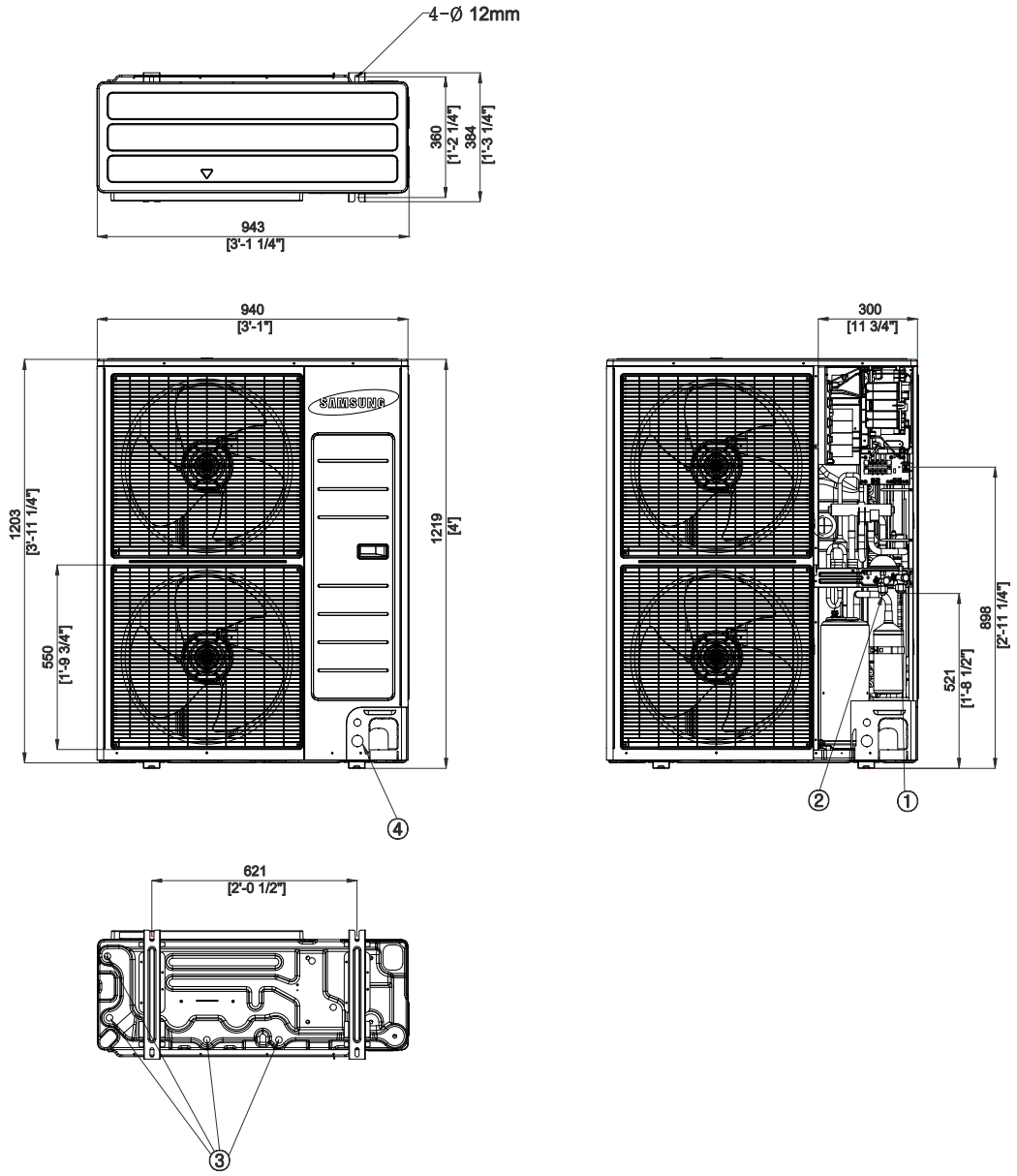


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

13 Dimensional drawing

Outdoor

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

Units : mm / inches

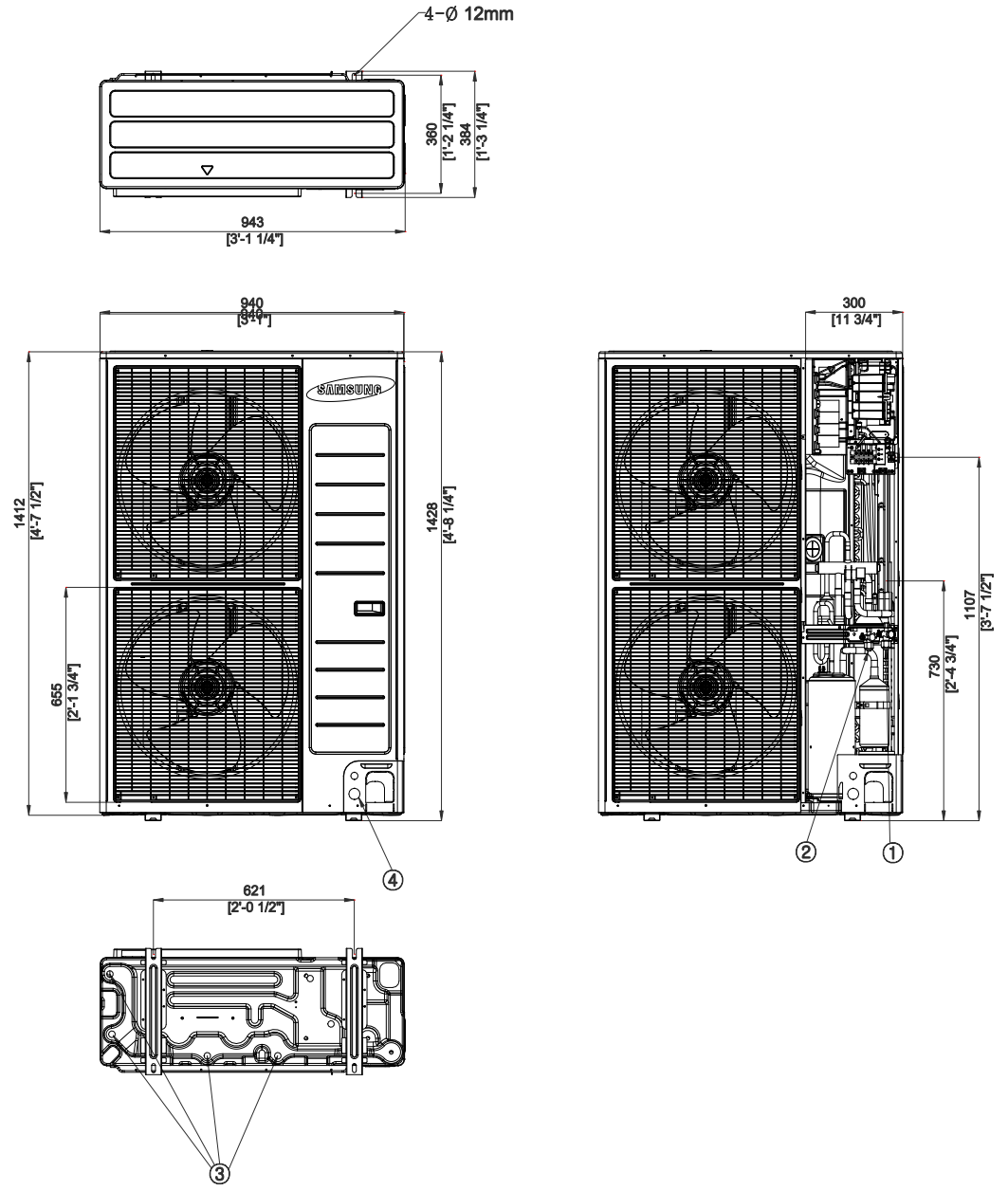


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

14 Capacity correction

Outdoor

AC052HBMPKH/EU + AC052HCAPKH/EU

Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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	0.91	0.90	-	-	-	-	-
-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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

AC100HBMPKH/EU + AC100HCAPKH/EU

Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

AC120HBMPKH/EU + AC120HCAPNH/EU

Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

AC120HBMPKH/EU + AC120HCAPKH/EU

Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

AC140HBMPKH/EU + AC140HCAPNH/EU

Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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

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