SINGLE

Technical Data Book

SINGLE 4Way CST for Nordic (R410A, 50Hz, H/P)

SAMSUNG

History

Version	Modification	Date	Remark
Ver.1.0	Released SINGLE for Nordic TDB	15.03.20	

Index

1 Nomenclature

Indoor Units

Model Names

AC	071	J	N	4	C	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC

(2) Capacity

x 1/10 kW (3 digits)
x 1,000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

N	Indoor Unit
X	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
C	Deluxe + Low Temp.

(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	071	J	X	S	C	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC

(2) Capacity

x 1/10 kW (3 digits)
x 1,000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Feature1

A	Inv+Side+General Temp
B	Non Inv+Side+General Temp
S	Inv+Side+Low Temp.
N	Non Inv+Side+Low Temp.

(6) Feature2

F	Standrad+Tropical+Non Module
S	Standard
D	Deluxe
P	Premium
C	Deluxe + Low Temp.

(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

4 Way Cassette S

Type						4Way Cassette	4Way Cassette
Model Name		Indoor Unit				AC071JN4CEH/EU	AC100JN4CEH/EU
		Outdoor Unit				AC071JXSCEH/EU	AC100JXSCEH/EU
System	Mode				-	Heat Pump	Heat Pump
	Capacity	Cooling(Min/Std/Max)			kW	1.70 / 7.10 / 8.50	2.20 / 10.00 / 12.00
					Btu/h	5,800 / 24,200 / 29,000	7,500 / 34,100 / 40,900
		Heating(Min/Std/Max)			kW	3.00 / 8.00 / 11.00	3.30 / 11.20 / 17.00
					Btu/h	10,200 / 27,300 / 37,500	11,300 / 38,200 / 58,000
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)		kW	0.71 / 1.80 / 2.20	0.74 / 2.74 / 3.54
			Heating(Min/Std/Max)			0.68 / 1.99 / 5.08	0.68 / 2.79 / 6.90
		Current Input (Nominal)	Cooling(Min/Std/Max)		A	3.60 / 8.10 / 10.00	3.60 / 12.00 / 15.60
			Heating(Min/Std/Max)			3.40 / 9.00 / 22.00	3.30 / 12.40 / 30.00
		MCA			A	25.00 (MCA)	33.00 (MCA)
		MFA			A	30.00	40.00
	Energy Efficiency	EER (Nominal Cooling)			-	3.94	3.65
		COP (Nominal Heating)			-	4.02	4.01
		Energy Grade			-	SEER 6.7 (A++)	SEER 7.0 (A++)
					-	SCOP 4.0 (A+)	SCOP 4.1 (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	-	-
		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			-	Turbo	Turbo
		Motor		Output	W	97 x 1	97 x 1
		Air Flow Rate		High/Mid/Low	CMM	19.50 / 17.50 / 15.50	30.00 / 24.00 / 18.90
					l/s	325.00 / 291.67 / 258.33	500.00 / 400.00 / 315.00
		External Static Pressure		Min/Std/Max	mmAq	-	-
					Pa	-	-
	Drain	Drain Pipe			Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Pressure	High/Mid/Low		dB(A)	36.0 / 33.0 / 30.0	43.0 / 38.0 / 33.0
		Power	Cooling			53.0	59.0
	External Dimension	Net Weight			kg	18.00	20.00
		Shipping Weight			kg	23.00	25.00
		Net Dimensions (WxHxD)			mm	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)			mm	898 x 357 x 898	898 x 357 x 898
	Panel Size	Panel model			-	PC4NUSKAN	PC4NUSKAN
		Panel Net Weight			kg	5.80	5.80
		Shipping Weight			kg	8.40	8.40
		Net Dimensions (WxHxD)			mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)			mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	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 -	Twin BLDC Rotary
		Model			-	UG5T450FUEJX	UG5T450FXAJX
		Output			kW	4.12	4.01
		Oil	Type		-	PVE	PVE
	Fan	Air Flow Rate	Cooling		CMM	112.00	112.00
					l/s	1,866.67	1,866.67
	Sound	Pressure	Cooling/Heating		dB(A)	49.0 / 49.0	50.0 / 50.0
		Power	Cooling			65.0	66.0
	External Dimension	Net Weight			kg	96.00	96.00
		Shipping Weight			kg	106.00	106.00
		Net Dimensions (WxHxD)			mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)			mm	995 x 1,598 x 426	995 x 1,598 x 426
	Operating Temp. Range	Cooling			ºC	-18.0 ~ 50.0	-18.0 ~ 50.0
		Heating			ºC	-25.0 ~ 24.0	-25.0 ~ 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 have a global warming potential(GWP) greater than 150.

2 Specifications

4 Way Cassette S

Type						4Way Cassette	4Way Cassette
Model Name		Indoor Unit				AC100JN4CEH/EU	AC125JN4CEH/EU
		Outdoor Unit				AC100JXSCGH/EU	AC125JXSCGH/EU
System	Mode				-	Heat Pump	Heat Pump
	Capacity	Cooling(Min/Std/Max)			kW	2.20 / 10.00 / 12.00	2.20 / 12.50 / 14.00
					Btu/h	7,500 / 34,100 / 40,900	7,500 / 42,700 / 47,800
		Heating(Min/Std/Max)			kW	3.30 / 11.20 / 17.00	3.30 / 14.00 / 19.00
					Btu/h	11,300 / 38,200 / 58,000	11,300 / 47,800 / 64,800
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)		kW	0.74 / 2.74 / 3.54	0.74 / 3.89 / 4.25
			Heating(Min/Std/Max)			0.68 / 2.79 / 6.90	0.68 / 3.77 / 7.20
		Current Input (Nominal)	Cooling(Min/Std/Max)		A	1.40 / 4.40 / 5.50	1.40 / 6.00 / 6.60
			Heating(Min/Std/Max)			1.30 / 4.50 / 11.00	1.30 / 6.00 / 11.00
		MCA			A	13.00 (MCA)	13.00 (MCA)
		MFA			A	15.00	15.00
	Energy Efficiency	EER (Nominal Cooling)			-	3.65	3.21
		COP (Nominal Heating)			-	4.01	3.71
		Energy Grade			-	SEER 7.0 (A++)	-
					-	SCOP 4.1 (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	-	-
		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			-	Turbo	Turbo
		Motor		Output	W	97 x 1	97 x 1
		Air Flow Rate		High/Mid/Low	CMM	30.00 / 24.00 / 18.90	30.00 / 24.00 / 18.90
					l/s	500.00 / 400.00 / 315.00	500.00 / 400.00 / 315.00
		External Static Pressure		Min/Std/Max	mmAq	-	-
					Pa	-	-
	Drain	Drain Pipe			Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Pressure	High/Mid/Low		dB(A)	43.0 / 38.0 / 33.0	44.0 / 39.0 / 34.0
		Power	Cooling			59.0	60.0
	External Dimension	Net Weight			kg	20.00	20.00
		Shipping Weight			kg	25.00	25.00
		Net Dimensions (WxHxD)			mm	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)			mm	898 x 357 x 898	898 x 357 x 898
	Panel Size	Panel model			-	PC4NUSKAN	PC4NUSKAN
		Panel Net Weight			kg	5.80	5.80
		Shipping Weight			kg	8.40	8.40
		Net Dimensions (WxHxD)			mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)			mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	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	3,4,380-415,50
	Compressor	Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Model			-	UG5T450FXAJX	UG5T450FXAJX
		Output			kW	4.01	4.01
		Oil	Type		-	PVE	PVE
	Fan	Air Flow Rate	Cooling		CMM	112.00	112.00
					l/s	1,866.67	1,866.67
	Sound	Pressure	Cooling/Heating		dB(A)	50.0 / 50.0	52.0 / 52.0
		Power	Cooling			66.0	69.0
	External Dimension	Net Weight			kg	96.00	96.00
		Shipping Weight			kg	106.00	106.00
		Net Dimensions (WxHxD)			mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)			mm	995 x 1,598 x 426	995 x 1,598 x 426
	Operating Temp. Range	Cooling			ºC	-18.0 ~ 50.0	-18.0 ~ 50.0
		Heating			ºC	-25.0 ~ 24.0	-25.0 ~ 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 have a global warming potential(GWP) greater than 150.

3 Capacity table

4 Way Cassette S

AC071JN4CEH/EU + AC071JXSCEH/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
-18.0	7.90	6.30	1.37	8.00	6.40	1.41	8.20	6.60	1.44	8.40	6.80	1.48	8.70	6.90	1.51	8.90	7.10	1.55
21.0	8.20	6.50	1.42	8.40	6.70	1.46	8.60	6.90	1.49	8.80	7.00	1.53	9.00	7.20	1.57	9.20	7.40	1.60
35.0	6.60	5.30	1.67	6.80	5.40	1.71	6.90	5.50	1.76	7.10	5.70	1.80	7.30	5.80	1.84	7.40	6.00	1.89
43.0	5.20	4.20	1.92	5.30	4.30	1.97	5.50	4.40	2.02	5.60	4.50	2.07	5.70	4.60	2.12	5.90	4.70	2.17
50.0	4.30	3.40	1.76	4.40	3.50	1.80	4.50	3.60	1.84	4.60	3.70	1.89	4.70	3.80	1.94	4.80	3.90	1.98

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
-25.0	5.60	2.54	5.60	2.51	5.50	2.49	5.50	2.46	5.40	2.44	5.40	2.41
-20.0	6.30	2.67	6.20	2.65	6.20	2.62	6.10	2.59	6.10	2.57	6.00	2.54
-10.0	7.70	2.94	7.60	2.91	7.50	2.89	7.40	2.86	7.40	2.83	7.30	2.80
0.0	7.90	2.49	7.80	2.46	7.80	2.44	7.70	2.41	7.60	2.39	7.50	2.37
7.0	8.20	2.03	8.10	2.01	8.00	1.99	7.90	1.97	7.80	1.95	7.80	1.93
24.0	10.90	2.33	10.80	2.31	10.70	2.29	10.60	2.27	10.50	2.24	10.40	2.22

AC100JN4CEH/EU + AC100JXSCEH/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
-18.0	11.10	8.90	2.09	11.30	9.10	2.14	11.60	9.30	2.19	11.90	9.50	2.25	12.20	9.70	2.30	12.50	10.00	2.36
21.0	11.50	9.20	2.17	11.80	9.40	2.22	12.10	9.70	2.27	12.40	9.90	2.33	12.70	10.20	2.38	13.00	10.40	2.44
35.0	9.30	7.40	2.55	9.50	7.60	2.61	9.80	7.80	2.67	10.00	8.00	2.74	10.20	8.20	2.81	10.50	8.40	2.87
43.0	7.30	5.90	2.93	7.50	6.00	3.00	7.70	6.20	3.08	7.90	6.30	3.15	8.10	6.50	3.23	8.30	6.60	3.30
50.0	6.00	4.80	2.67	6.20	4.90	2.74	6.30	5.10	2.81	6.50	5.20	2.88	6.60	5.30	2.95	6.80	5.40	3.02

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
-25.0	7.90	3.56	7.80	3.52	7.70	3.49	7.70	3.45	7.60	3.42	7.50	3.38
-20.0	8.80	3.75	8.70	3.71	8.70	3.67	8.60	3.64	8.50	3.60	8.40	3.56
-10.0	10.70	4.13	10.60	4.09	10.50	4.05	10.40	4.01	10.30	3.96	10.20	3.93
0.0	11.10	3.49	11.00	3.45	10.90	3.42	10.80	3.38	10.60	3.35	10.50	3.32
7.0	11.40	2.85	11.30	2.82	11.20	2.79	11.10	2.76	11.00	2.73	10.90	2.71
24.0	15.30	3.27	15.20	3.24	15.00	3.21	14.90	3.18	14.70	3.14	14.60	3.11

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 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

4 Way Cassette S

AC100JN4CEH/EU + AC100JXSCGH/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
-18.0	11.10	8.90	2.09	11.30	9.10	2.14	11.60	9.30	2.19	11.90	9.50	2.25	12.20	9.70	2.30	12.50	10.00	2.36
21.0	11.50	9.20	2.17	11.80	9.40	2.22	12.10	9.70	2.27	12.40	9.90	2.33	12.70	10.20	2.38	13.00	10.40	2.44
35.0	9.30	7.40	2.55	9.50	7.60	2.61	9.80	7.80	2.67	10.00	8.00	2.74	10.20	8.20	2.81	10.50	8.40	2.87
43.0	7.30	5.90	2.93	7.50	6.00	3.00	7.70	6.20	3.08	7.90	6.30	3.15	8.10	6.50	3.23	8.30	6.60	3.30
50.0	6.00	4.80	2.67	6.20	4.90	2.74	6.30	5.10	2.81	6.50	5.20	2.88	6.60	5.30	2.95	6.80	5.40	3.02

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
-25.0	7.90	3.56	7.80	3.52	7.70	3.49	7.70	3.45	7.60	3.42	7.50	3.38
-20.0	8.80	3.75	8.70	3.71	8.70	3.67	8.60	3.64	8.50	3.60	8.40	3.56
-10.0	10.70	4.13	10.60	4.09	10.50	4.05	10.40	4.01	10.30	3.96	10.20	3.93
0.0	11.10	3.49	11.00	3.45	10.90	3.42	10.80	3.38	10.60	3.35	10.50	3.32
7.0	11.40	2.85	11.30	2.82	11.20	2.79	11.10	2.76	11.00	2.73	10.90	2.71
24.0	15.30	3.27	15.20	3.24	15.00	3.21	14.90	3.18	14.70	3.14	14.60	3.11

AC125JN4CEH/EU + AC125JXSCGH/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
-18.0	13.80	11.10	2.97	14.20	11.30	3.04	14.50	11.60	3.11	14.90	11.90	3.19	15.20	12.20	3.27	15.60	12.50	3.34
21.0	14.40	11.50	3.07	14.80	11.80	3.15	15.10	12.10	3.23	15.50	12.40	3.31	15.90	12.70	3.39	16.30	13.00	3.47
35.0	11.60	9.30	3.62	11.90	9.50	3.71	12.20	9.80	3.80	12.50	10.00	3.89	12.80	10.20	3.98	13.10	10.50	4.08
43.0	9.20	7.30	4.16	9.40	7.50	4.26	9.60	7.70	4.37	9.90	7.90	4.47	10.10	8.10	4.58	10.40	8.30	4.69
52.0	7.50	6.00	3.80	7.70	6.20	3.89	7.90	6.30	3.99	8.10	6.50	4.08	8.30	6.60	4.18	8.50	6.80	4.28

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
-25.0	9.90	4.81	9.80	4.76	9.70	4.71	9.60	4.67	9.50	4.62	9.40	4.57
-20.0	11.60	5.19	11.50	5.14	11.40	5.09	11.30	5.04	11.20	4.99	11.10	4.94
-10.0	13.40	5.58	13.30	5.52	13.20	5.47	13.00	5.41	12.90	5.36	12.80	5.30
0.0	13.90	4.71	13.70	4.66	13.60	4.62	13.40	4.57	13.30	4.53	13.20	4.48
7.0	14.30	3.85	14.10	3.81	14.00	3.77	13.90	3.73	13.70	3.69	13.60	3.66
24.0	19.10	4.42	18.90	4.38	18.80	4.34	18.60	4.29	18.40	4.25	18.20	4.21

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 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

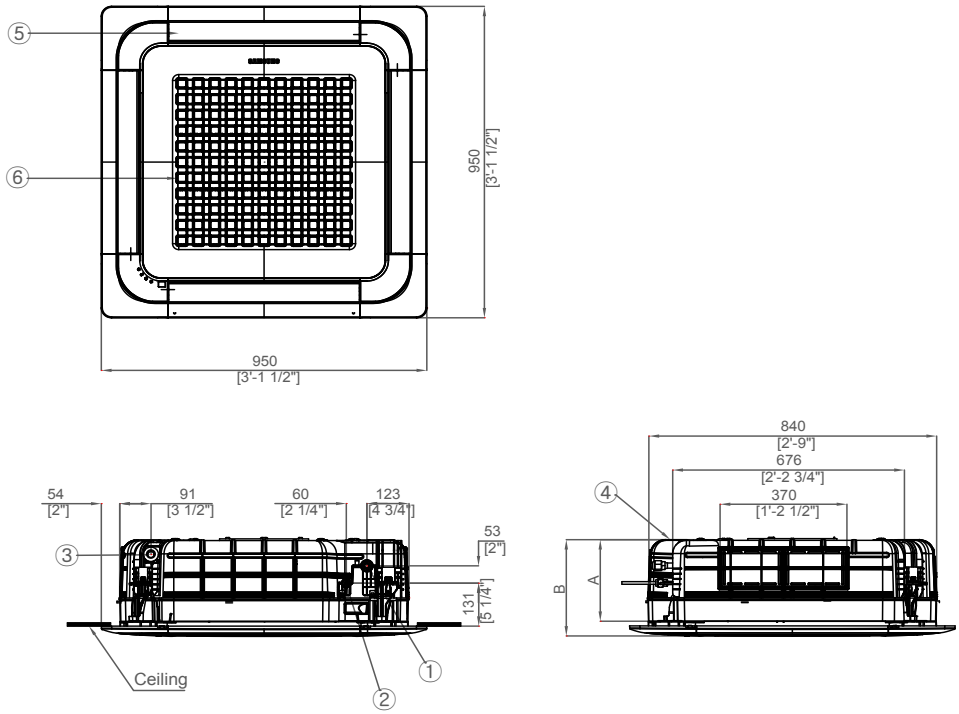
. Level difference : 0m.

4 Dimensional drawing

4 Way Cassette S

AC071JN4CEH/EU, AC100JN4CEH/EU, AC125JN4CEH/EU

Units : mm / inches



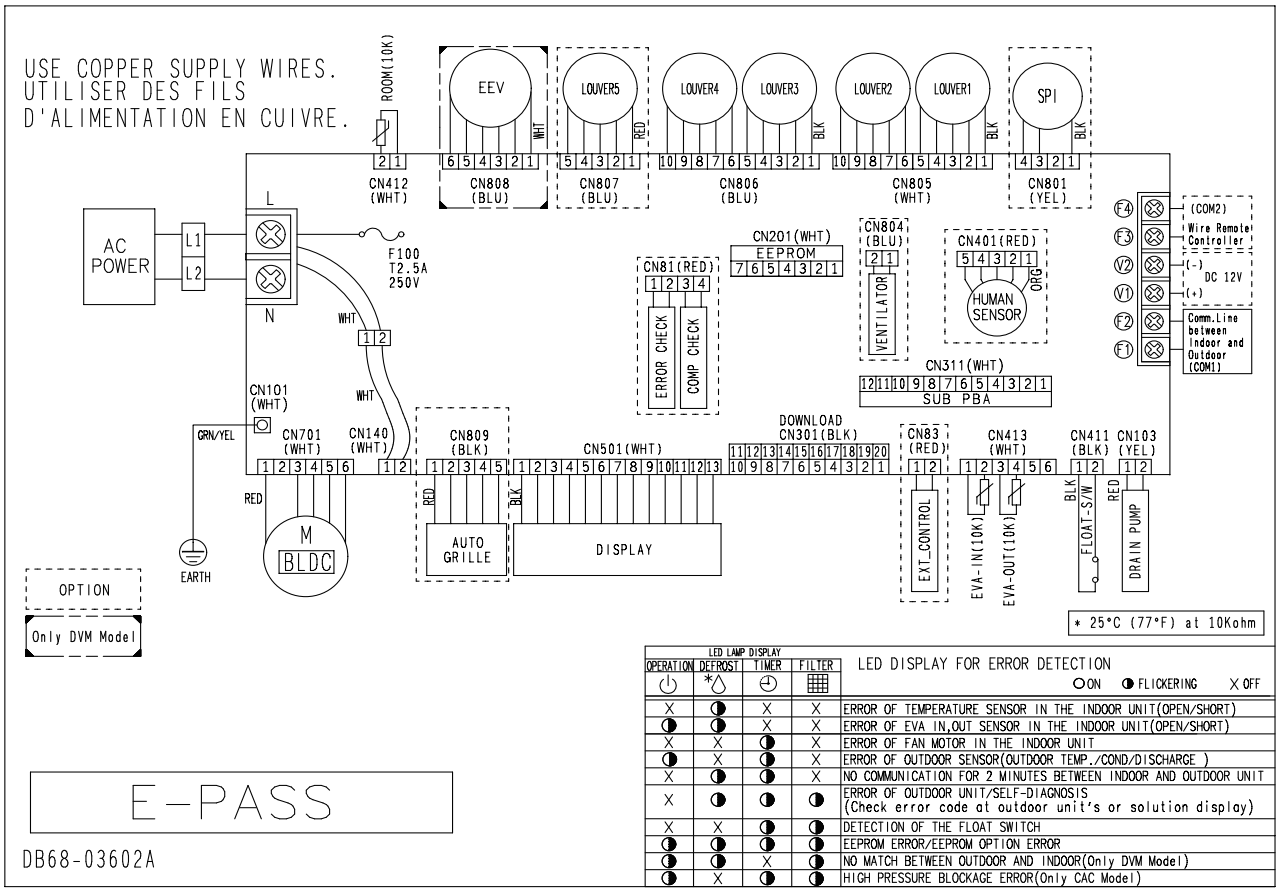
	Description
	7.1kW, 10kW, 12.5kW
A (mm)	288
B (mm)	337

Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Air outlet louver		
6	Air inlet grile		

5 Electrical wiring diagram

4 Way Cassette S

AC071JN4CEH/EU, AC100JN4CEH/EU, AC125JN4CEH/EU



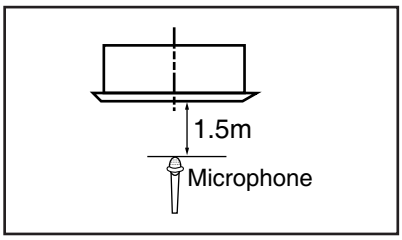
LED LAMP DISPLAY				LED DISPLAY FOR ERROR DETECTION ○ON ◑FLICKERING X OFF
OPERATION	DEFROST	TIMER	FILTER	
X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	◑	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	ERROR OF FAN MOTOR IN THE INDOOR UNIT
◑	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	◑	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR(Only DVM Model)
◑	X	◑	◑	HIGH PRESSURE BLOCKAGE ERROR(Only CAC Model)

E-PASS

DB68-03602A

6 Sound pressure level

4 Way Cassette S



Unit: dB(A)

Model	High	Low
AC071JN4CEH/EU (ODU : AC071JXSCEH/EU)	36.0	30.0
AC100JN4CEH/EU (ODU : AC100JXSCEH/EU)	43.0	33.0
AC100JN4CEH/EU (ODU : AC100JXSCGH/EU)	43.0	33.0
AC125JN4CEH/EU (ODU : AC125JXSCGH/EU)	44.0	34.0

Note

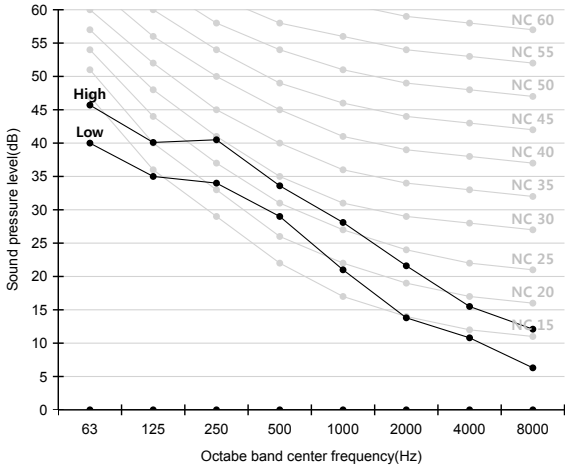
> Measuring place: Anechoic chamber (conversion value)

> 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.

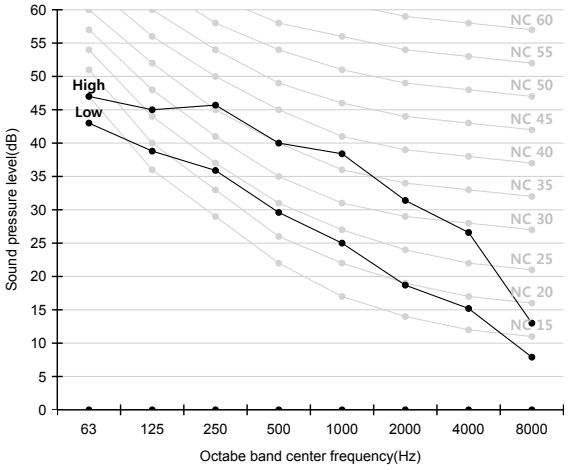
> Operation sound level may differ depending on operation and ambient conditions.)

NC curve

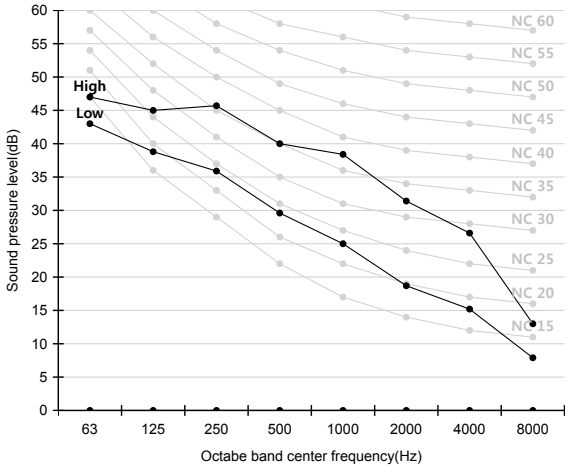
1) AC071JN4CEH/EU (ODU : AC071JXSCEH/EU)



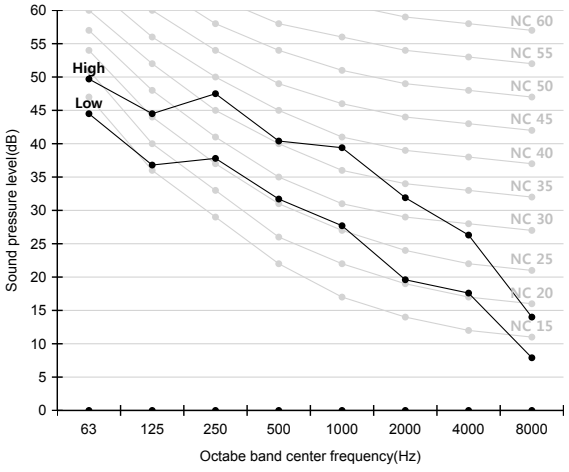
2) AC100JN4CEH/EU (ODU : AC100JXSCEH/EU)



3) AC100JN4CEH/EU (ODU : AC100JXSCGH/EU)



4) AC125JN4CEH/EU (ODU : AC125JXSCGH/EU)



7 Sound power level

4 Way Cassette S

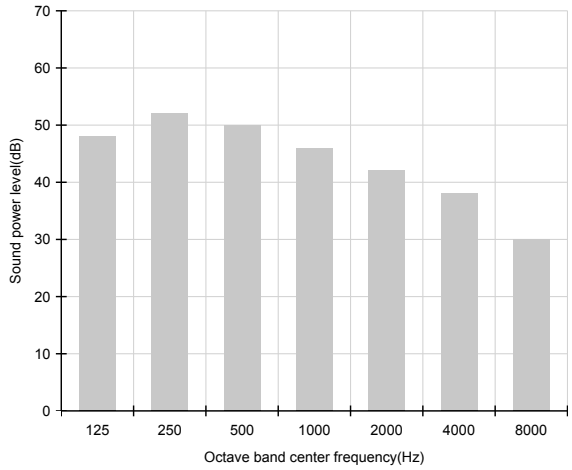
Note

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

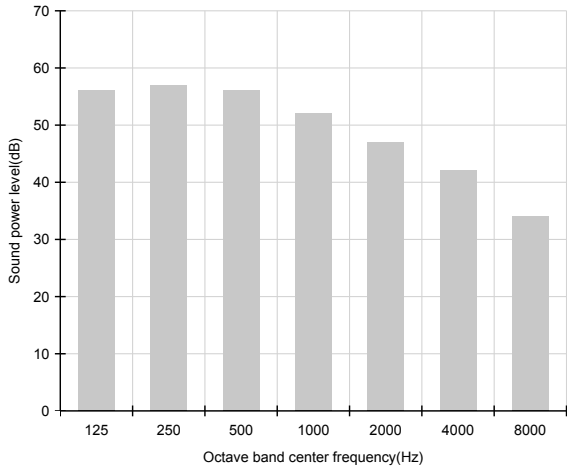
Unit: dB(A)

Model	Power
AC071JN4CEH/EU (ODU : AC071JXSCEH/EU)	53.0
AC100JN4CEH/EU (ODU : AC100JXSCEH/EU)	59.0
AC100JN4CEH/EU (ODU : AC100JXSCGH/EU)	59.0
AC125JN4CEH/EU (ODU : AC125JXSCGH/EU)	60.0

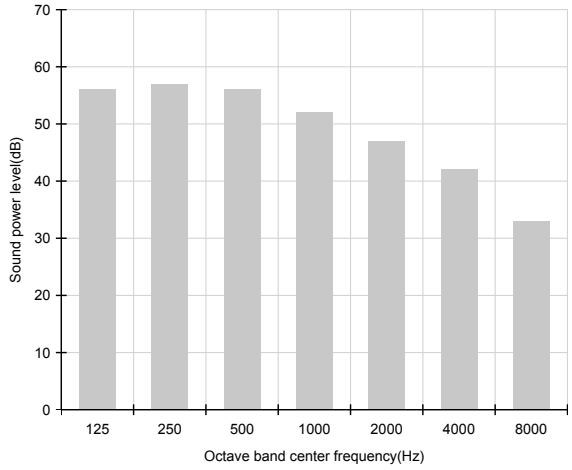
1) AC071JN4CEH/EU (ODU : AC071JXSCEH/EU)



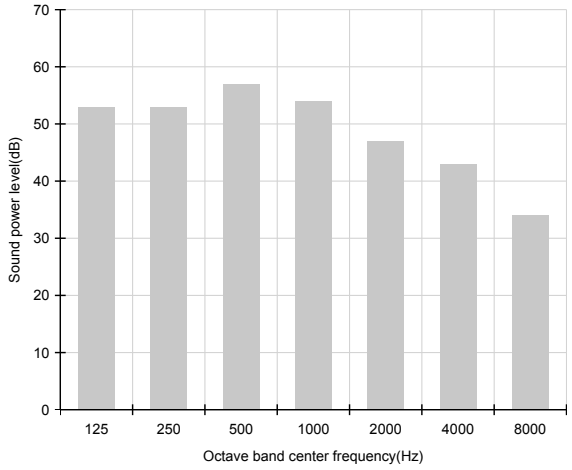
2) AC100JN4CEH/EU (ODU : AC100JXSCEH/EU)



3) AC100JN4CEH/EU (ODU : AC100JXSCGH/EU)



4) AC125JN4CEH/EU (ODU : AC125JXSCGH/EU)



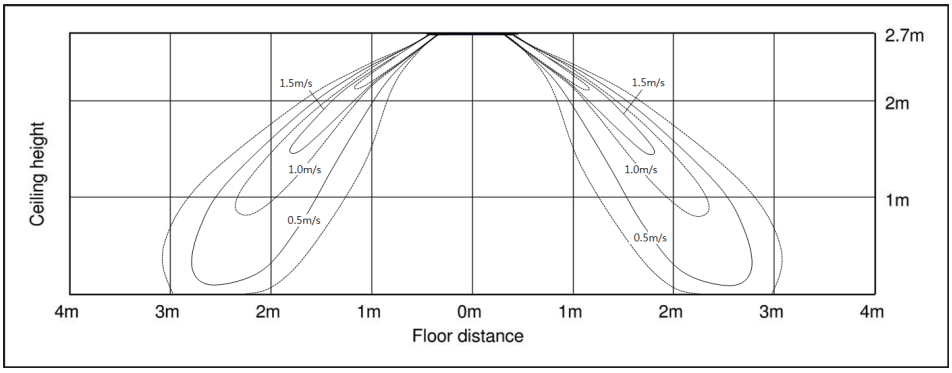
8 Temperature and air flow distribution

4 Way Cassette S

AC071JN4CEH/EU

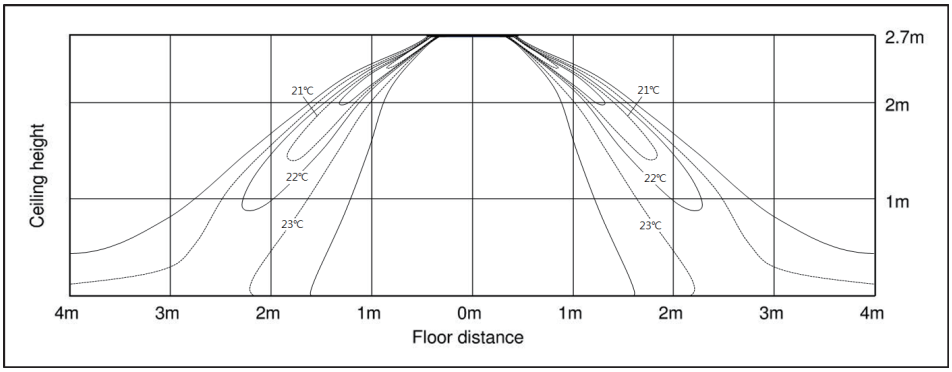
(1) Cooling air velocity distribution

Discharge angle : 37º



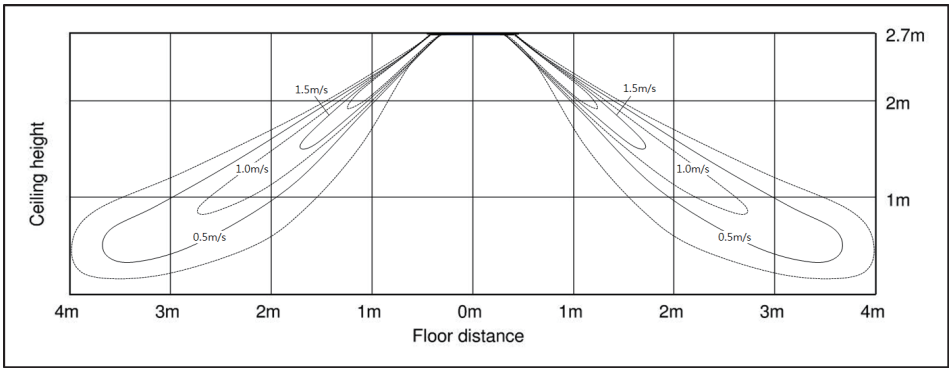
(2) Cooling temperature distribution

Discharge angle : 37º



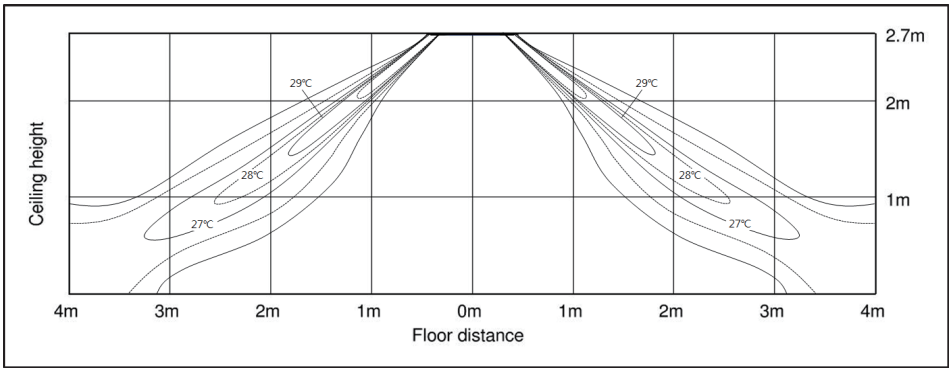
(3) Heating air velocity distribution

Discharge angle : 43º



(4) Heating temperature distribution

Discharge angle : 43º

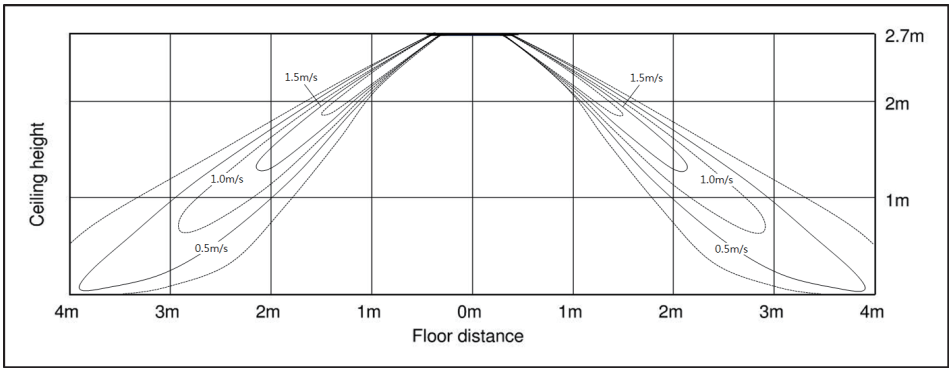


8 Temperature and air flow distribution

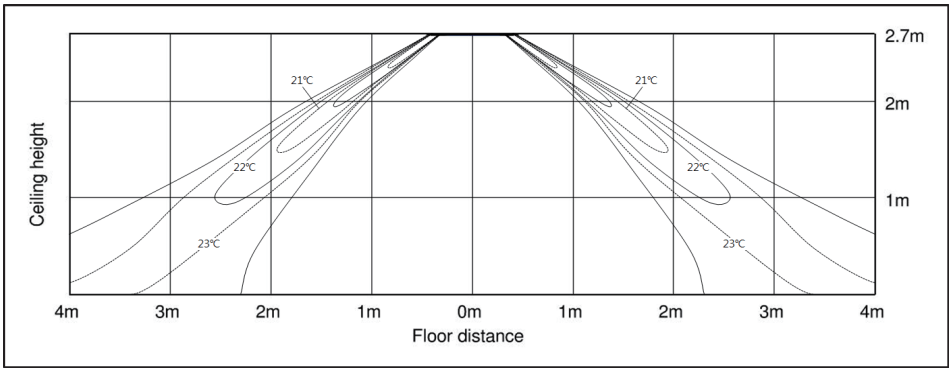
4 Way Cassette S

AC100JN4CEH/EU

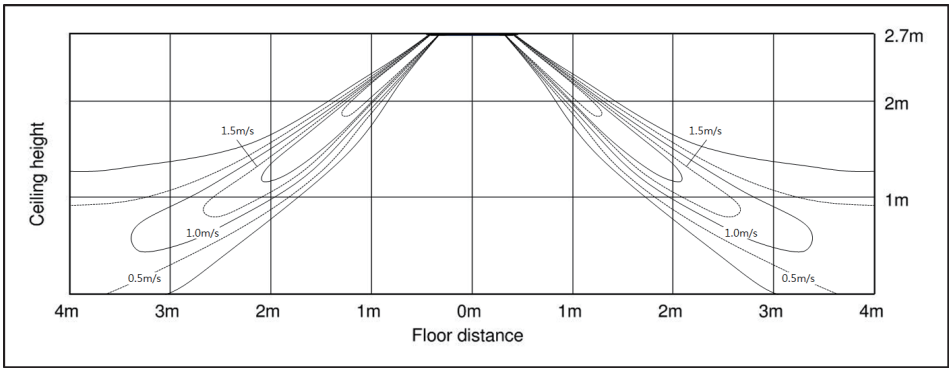
(1) Cooling air velocity distribution



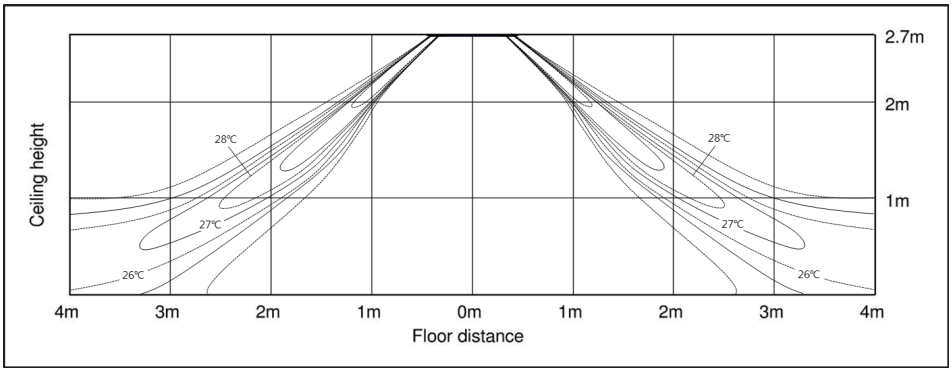
(2) Cooling temperature distribution



(3) Heating air velocity distribution



(4) Heating temperature distribution



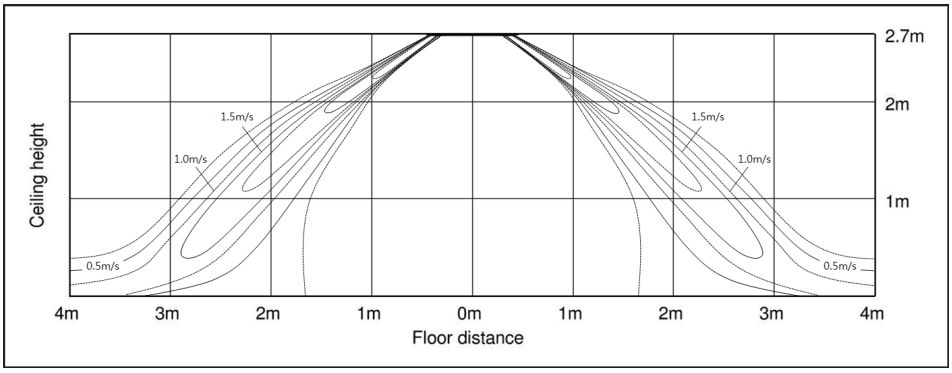
8 Temperature and air flow distribution

4 Way Cassette S

AC125JN4CEH/EU

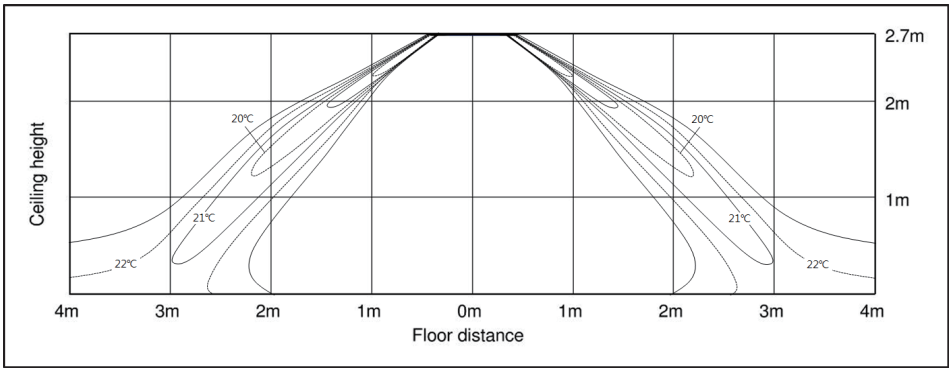
(1) Cooling air velocity distribution

Discharge angle : 37º



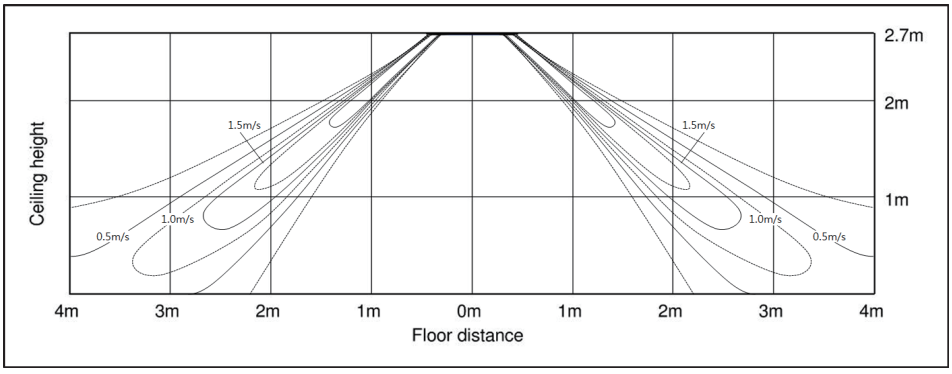
(2) Cooling temperature distribution

Discharge angle : 37º



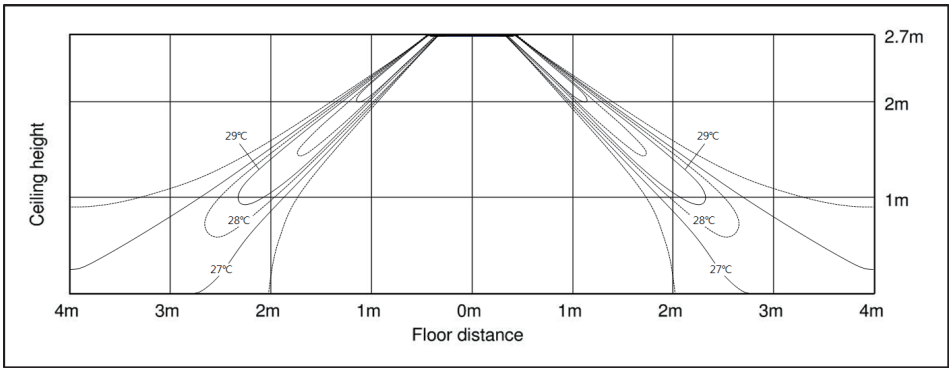
(3) Heating air velocity distribution

Discharge angle : 43º



(4) Heating temperature distribution

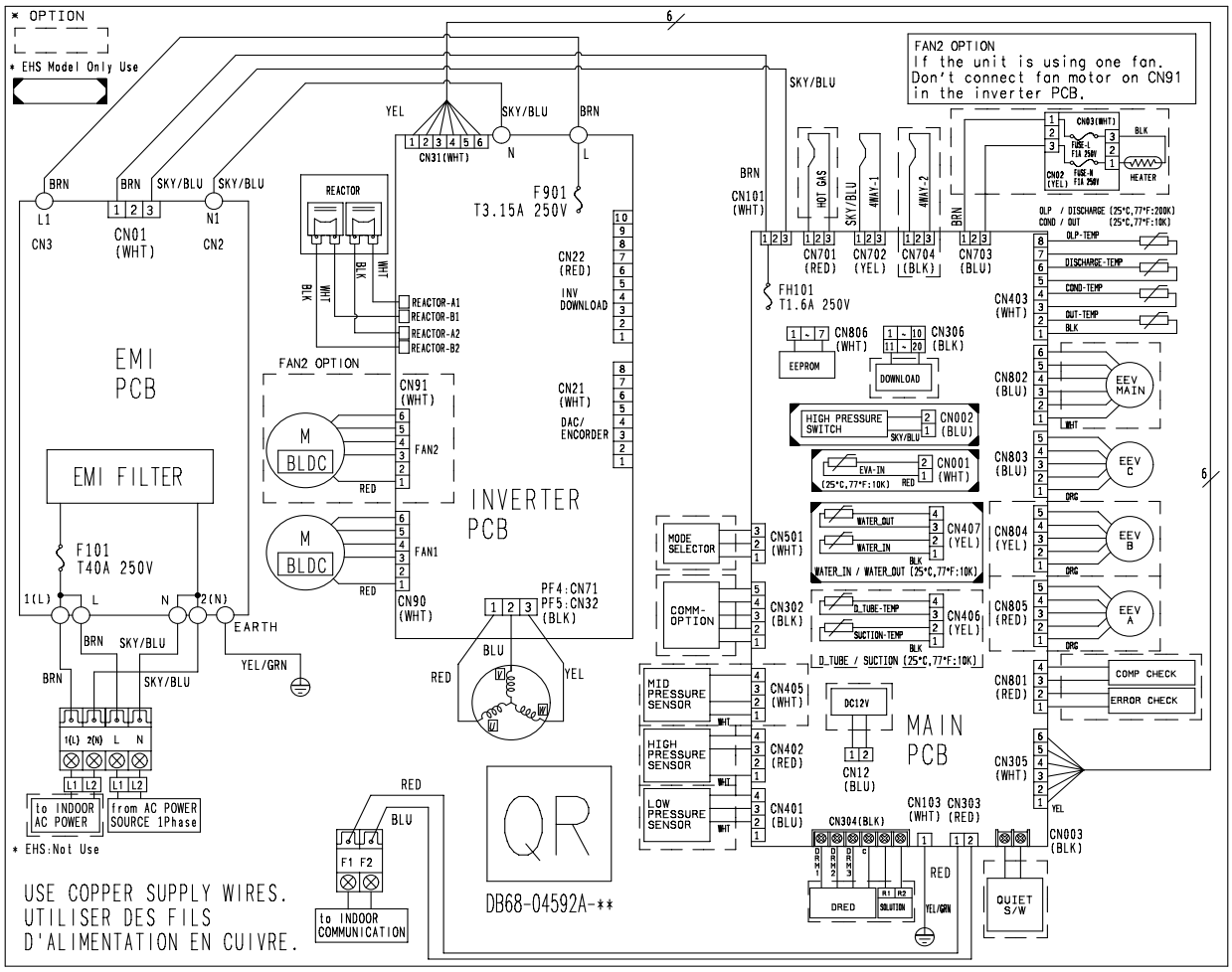
Discharge angle : 43º



9 Electrical wiring diagram

Outdoor

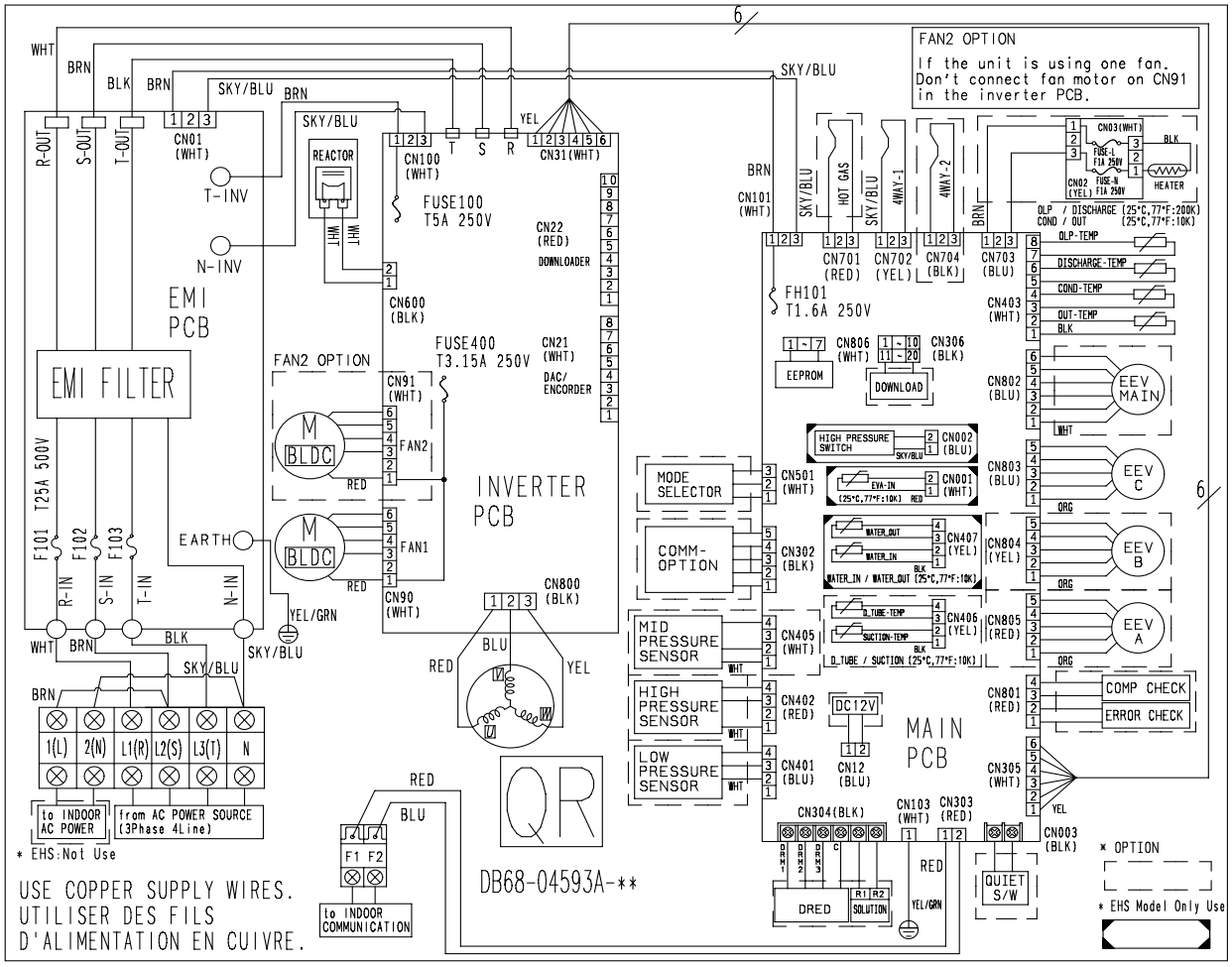
AC071JXSCEH/EU, AC100JXSCEH/EU



9 Electrical wiring diagram

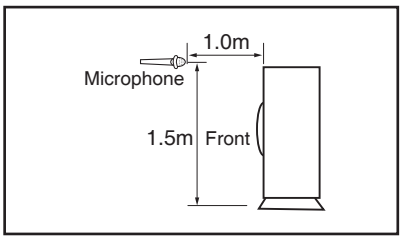
Outdoor

AC100JXSCGH/EU, AC125JXSCGH/EU



10 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling	Heating
AC071JXSCEH/EU (IDU : AC071JN4CEH/EU)	49.0	49.0
AC100JXSCEH/EU (IDU : AC100JN4CEH/EU)	50.0	50.0
AC100JXSCGH/EU (IDU : AC100JN4CEH/EU)	50.0	50.0
AC125JXSCGH/EU (IDU : AC125JN4CEH/EU)	52.0	52.0

Note

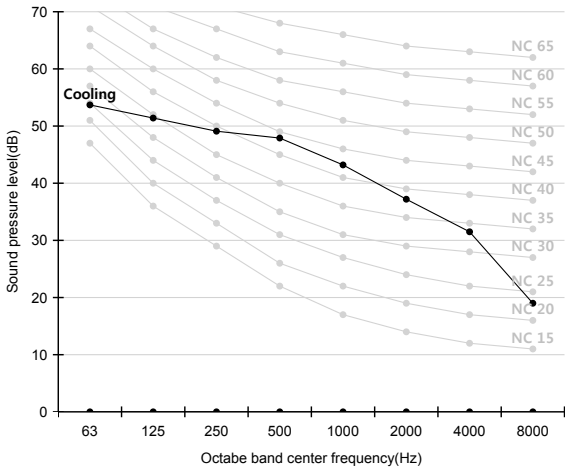
> Measuring place: Anechoic chamber (conversion value)

> 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.

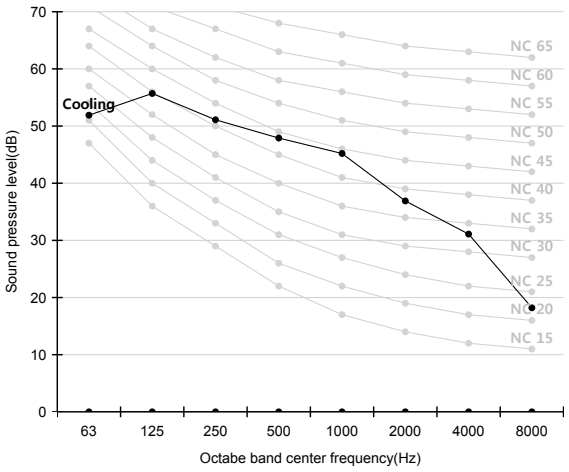
> Operation sound level may differ depending on operation and ambient conditions.)

NC curve

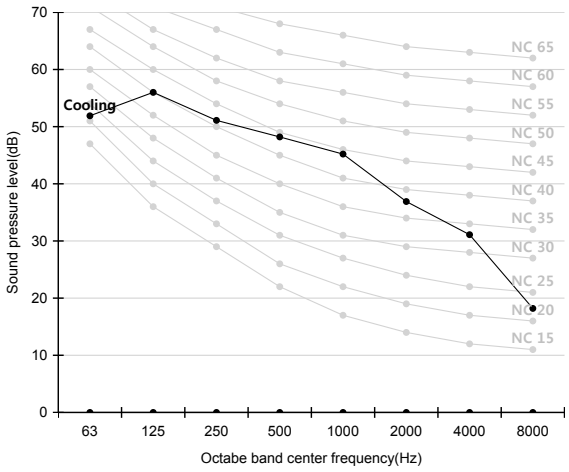
1) AC071JXSCEH/EU (IDU : AC071JN4CEH/EU)



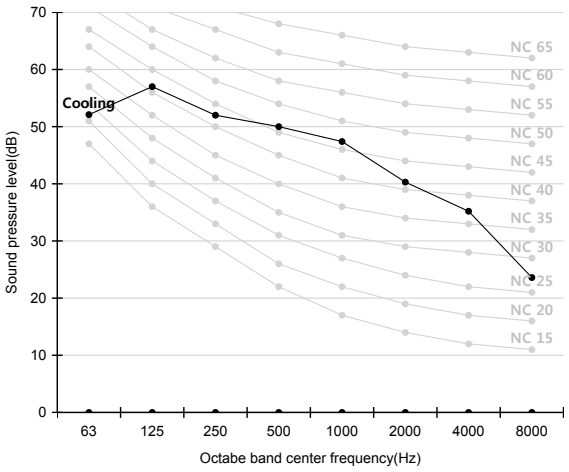
2) AC100JXSCEH/EU (IDU : AC100JN4CEH/EU)



3) AC100JXSCGH/EU (IDU : AC100JN4CEH/EU)



4) AC125JXSCGH/EU (IDU : AC125JN4CEH/EU)



11 Sound power level

Outdoor

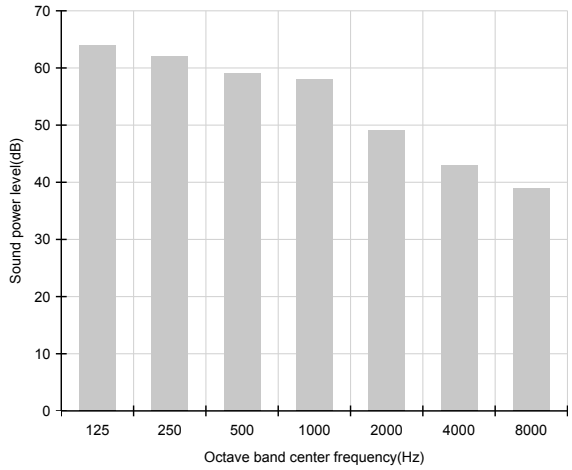
Note

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

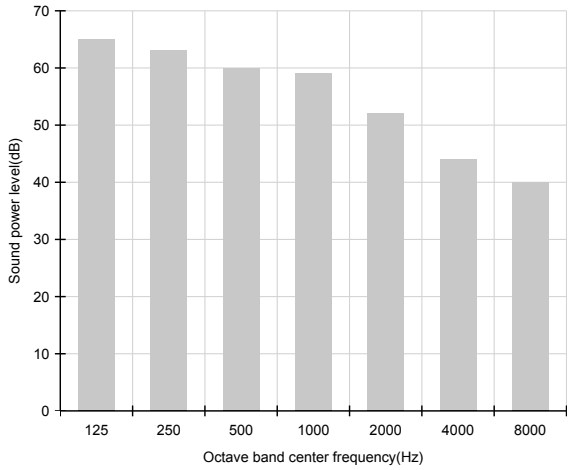
Unit: dB(A)

Model	Power
AC071JXSCEH/EU (IDU : AC071JN4CEH/EU)	65.0
AC100JXSCEH/EU (IDU : AC100JN4CEH/EU)	66.0
AC100JXSCGH/EU (IDU : AC100JN4CEH/EU)	66.0
AC125JXSCGH/EU (IDU : AC125JN4CEH/EU)	69.0

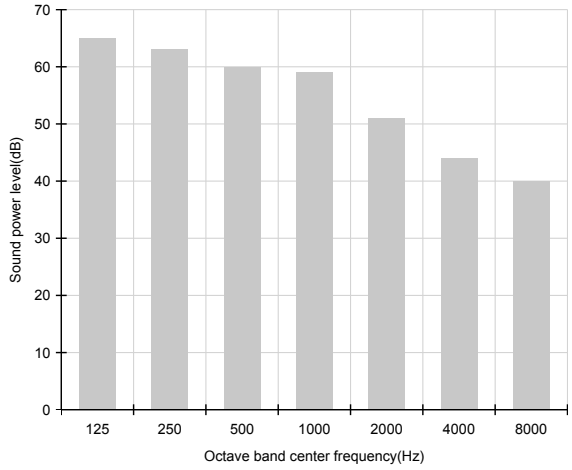
1) AC071JXSCEH/EU (IDU : AC071JN4CEH/EU)



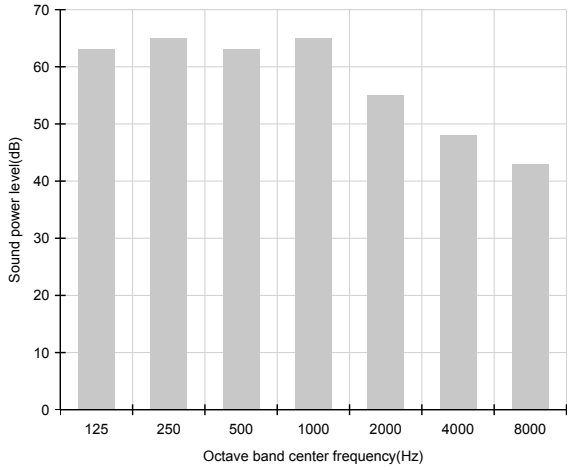
2) AC100JXSCEH/EU (IDU : AC100JN4CEH/EU)



3) AC100JXSCGH/EU (IDU : AC100JN4CEH/EU)



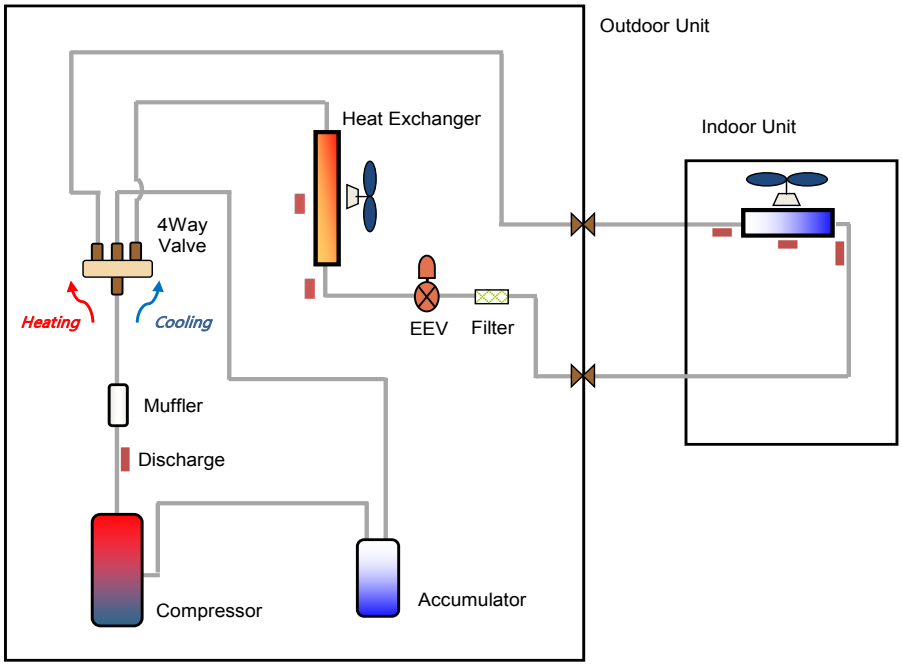
4) AC125JXSCGH/EU (IDU : AC125JN4CEH/EU)



12 Cycle diagram

Outdoor

AC071JXSCEH/EU, AC100JXSCGH/EU, AC100JXSCEH/EU, AC125JXSCGH/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

AC071JXSCEH/EU, AC100JXSCGH/EU, AC100JXSCEH/EU, AC125JXSCGH/EU

Units : mm / inches

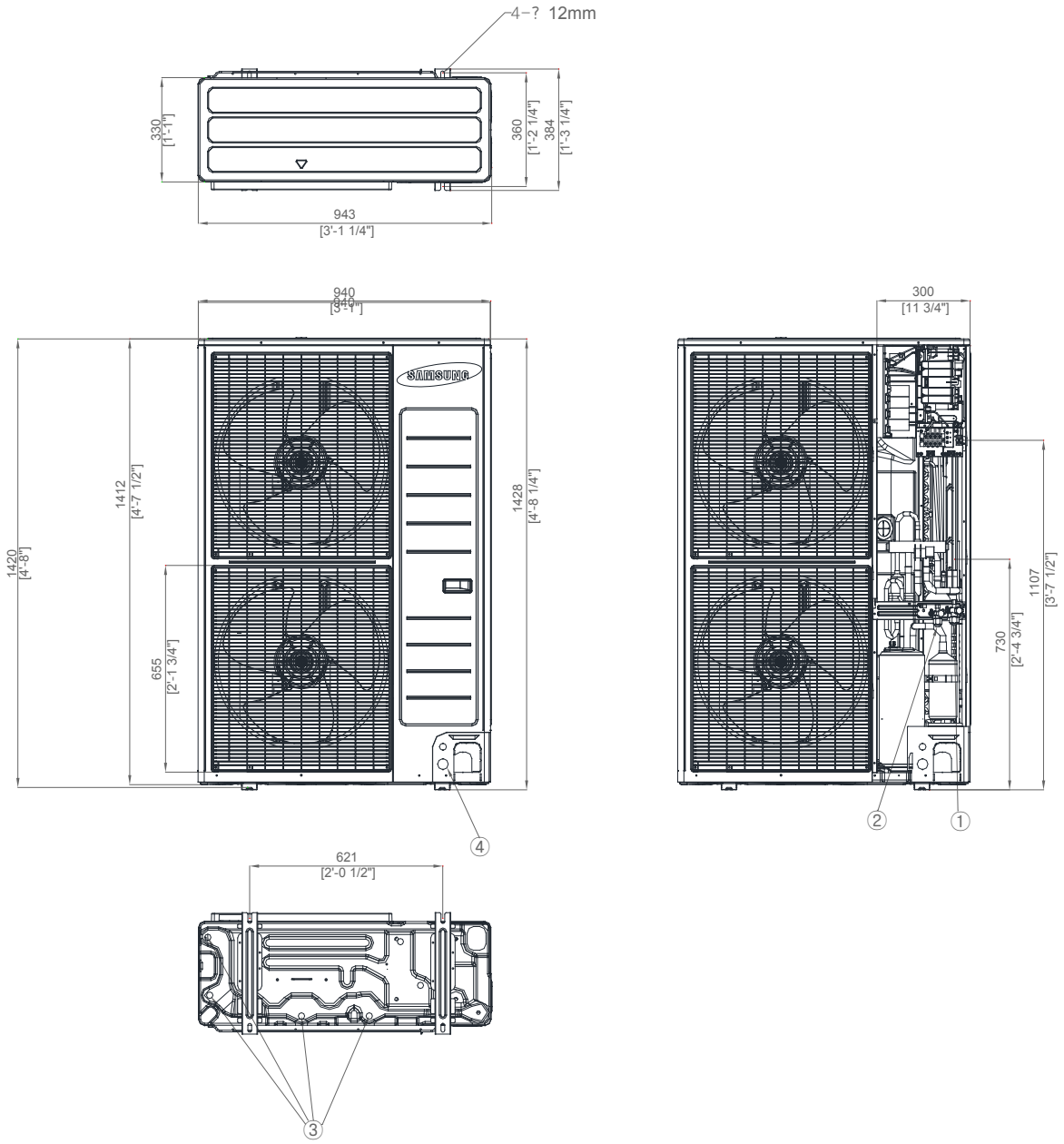


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

14 Capacity correction

Outdoor

AC071JXSCEH/EU, AC100JXSCEH/EU, AC100JXSCGH/EU, AC125JXSCEH/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

2015.03
Ver.1.0

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