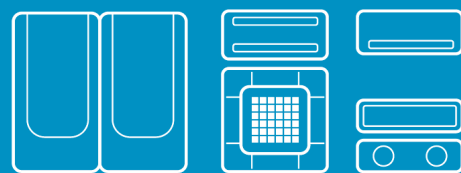


SINGLE

Technical Data Book

Big Ceiling for Europe (R410A, 50Hz, H/P)



Model : AC***JNCDEH (ODU: AC***JXAD*H)

History

Version	Modification	Date	Remark
Ver.1.0	Release SINGLE Big Ceiling for Europe	15.04.03	
Ver.1.1	Modification for drain pipe size in Specification	15.04.27	
Ver.1.2	Modification for Energy Grade in Specifications	15.06.10	
Ver.1.3	1. Add Note information in Specification regarding EU F-Gas regulation	15.06.16	
	2. Add Temperature and air flow distribution		
Ver.1.4	Added model : AC160JNCDEH/EU	15.09.18	
Ver.1.5	1. Add Temperature and air flow distribution (AC160JNCDEH/EU)	15.09.25	
	2. Modificatoin for Ccapacity talbe :AC160JNCDEH/EU		

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1 Nomenclature

Indoor Units

Model Names

AC	100	J	N	C	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1/10 kW (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
2	2Way Cassette
N	4Way Cassette S (600 x 600)
4	4Way Cassette S
L	LSP Duct (Slim Duct)
M	MSP Duct
H	HSP Duct
C	Ceiling
T	Neo Forte
E	OAP Duct

(6) Feature

D	DELUXE
F	FLAGSHIP
P	Premium
G(EHS)	Cascade (EEV)

(7) Rating Voltage

C	1Ø, 208~230V, 60Hz
E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz
K	1Ø, 220~240V, 50/60Hz
N	3Ø, 380~415V, 50/60Hz

(8) Mode

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

1 Nomenclature

Outdoor Units

Model Names

AC	100	J	X	A	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE
AM	VRF

(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

B	Indoor Unit
C	Outdoor Unit
N	Indoor Unit (NASA)
X	Outdoor Unit (NASA)

(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

Ceiling

Type				Ceiling		Ceiling		Ceiling		Ceiling		
Model Name		Indoor Unit		AC100JNCDEH/EU		AC100JNCDEH/EU		AC120JNCDEH/EU		AC120JNCDEH/EU		
		Outdoor Unit		AC100JXADEH/EU		AC100JXADGH/EU		AC120JXADEH/EU		AC120JXADGH/EU		
System	Mode			-	Heat Pump		Heat Pump		Heat Pump		Heat Pump	
	Capacity	Cooling(Min/Std/Max)		kW	2.80 / 10.00 / 12.00		2.80 / 10.00 / 12.00		3.50 / 12.00 / 13.50		3.50 / 12.00 / 13.50	
				Btu/h	9,600 / 34,100 / 40,900		9,600 / 34,100 / 40,900		11,900 / 40,900 / 46,100		11,900 / 40,900 / 46,100	
		Heating(Min/Std/Max)		kW	2.90 / 11.20 / 15.50		2.90 / 11.20 / 15.50		3.80 / 13.00 / 16.50		3.80 / 13.00 / 16.50	
	Btu/h			9,900 / 38,200 / 52,900		9,900 / 38,200 / 52,900		13,000 / 44,400 / 56,300		13,000 / 44,400 / 56,300		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.75 / 3.45 / 5.00		0.75 / 3.45 / 5.00		0.90 / 4.70 / 5.50		0.90 / 4.70 / 5.50	
			Heating(Min/Std/Max)		0.65 / 3.15 / 5.50		0.65 / 3.15 / 5.50		0.70 / 3.75 / 5.60		0.70 / 3.75 / 5.60	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.30 / 15.00 / 21.50		1.60 / 5.40 / 7.50		5.10 / 20.40 / 23.50		1.70 / 7.20 / 9.50	
			Heating(Min/Std/Max)		3.40 / 13.70 / 21.80		1.40 / 4.90 / 9.00		3.90 / 16.40 / 22.80		1.50 / 5.80 / 9.10	
		MCA		A	26.70 (MCA)		14.70 (MCA)		26.70 (MCA)		14.70 (MCA)	
		MFA		A	30.00		16.20		30.00		16.20	
	Energy Efficiency	EER (Nominal Cooling)		-	2.90		2.90		2.55		2.55	
		COP (Nominal Heating)		-	3.56		3.56		3.47		3.47	
		Energy Grade		-	Energy Grade(C) A+		Energy Grade(C) A+		Energy Grade(C) A+		Energy Grade(C) A+	
				-	Energy Grade(H) A		Energy Grade(H) A		Energy Grade(H) A+		Energy Grade(H) A+	
	Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		9.52		9.52	
				Ø, inch	3/8"		3/8"		3/8"		3/8"	
		Gas Pipe		Ø, mm	15.88		15.88		15.88		15.88	
				Ø, inch	5/8"		5/8"		5/8"		5/8"	
		Installation Limitation	Max. Length	m	50 (55)		50 (55)		50 (55)		50 (55)	
			Max. Height	m	30 (30)		30 (30)		30 (30)		30 (30)	
	Field Wiring	Power Source Wire		Ø, mm	-		-		-		-	
		Transmission Cable		Ø, mm	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
	Refrigerant	Type		-	R410A		R410A		R410A		R410A	
		Control Method		-	-		-		-		-	
		Factory Charging		kg	2.80		2.80		2.90		2.90	
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50		1,2,220-240,50		1,2,220-240,50	
	Fan	Type		-	Sirroco		Sirroco		Sirroco		Sirroco	
		Motor	Output	W	244 x 1		244 x 1		244 x 1		244 x 1	
				CMM	26.00 / 23.00 / 19.00		26.00 / 23.00 / 19.00		30.00 / 24.00 / 20.00		30.00 / 24.00 / 20.00	
		Air Flow Rate		High/Mid/Low	l/s	433.33 / 383.33 / 316.67		433.33 / 383.33 / 316.67		500.00 / 400.00 / 333.33		500.00 / 400.00 / 333.33
	External Static Pressure		Min/Std/Max	mmAq	-		-		-		-	
				Pa	-		-		-		-	
	Drain	Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)		VP20 (OD 25,ID 20)		VP20 (OD 25,ID 20)		VP20 (OD 25,ID 20)	
	Sound	Pressure	High/Mid/Low	dB(A)	42.0 / 38.0 / 34.0		42.0 / 38.0 / 34.0		44.0 / 41.0 / 37.0		44.0 / 41.0 / 37.0	
		Power	Cooling		60.0		60.0		62.0		62.0	
	External Dimension	Net Weight		kg	42.00		42.00		42.00		42.00	
		Shipping Weight		kg	48.00		48.00		48.00		48.00	
		Net Dimensions (WxHxD)		mm	1,650 x 235 x 675		1,650 x 235 x 675		1,650 x 235 x 675		1,650 x 235 x 675	
		Shipping Dimensions (WxHxD)		mm	1,739 x 321 x 758		1,739 x 321 x 758		1,739 x 321 x 758		1,739 x 321 x 758	
	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		3,4,380-415,50		1,2,220-240,50		3,4,380-415,50	
	Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary	
		Model		-	UG8T300LNBJU		UG8T300LNBJU		UG5T450FUEJX		UG5T450FUFJX	
		Output		kW	2.82		2.82		4.12		4.12	
		Oil	Type	-	POE		POE		POE		POE	
	-			POE		POE		POE		POE		
	Fan	Air Flow Rate	Cooling	CMM	68.00		68.00		70.00		70.00	
				l/s	1,133.33		1,133.33		1,166.67		1,166.67	
	Sound	Pressure	Cooling/Heating	dB(A)	52.0 / 54.0		52.0 / 54.0		54.0 / 56.0		54.0 / 56.0	
			Cooling		69.0		69.0		70.0		70.0	
	External Dimension	Net Weight		kg	70.00		72.00		77.00		79.00	
		Shipping Weight		kg	74.00		76.00		82.00		84.00	
		Net Dimensions (WxHxD)		mm	940 x 998 x 330		940 x 998 x 330		940 x 998 x 330		940 x 998 x 330	
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426		995 x 1,096 x 426		995 x 1,096 x 426		995 x 1,096 x 426	
	Operating Temp. Range	Cooling		°C	-15.0 ~ 50.0		-15.0 ~ 50.0		-15.0 ~ 50.0		-15.0 ~ 50.0	
		Heating		°C	-20.0 ~ 24.0		-20.0 ~ 24.0		-20.0 ~ 24.0		-20.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

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

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m

2) Nominal heating capacities are based on;

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

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m

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

4) These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Ceiling

Type				Ceiling	Ceiling	Ceiling		
Model Name		Indoor Unit		AC140JNCDEH/EU	AC140JNCDEH/EU	AC160JNCDEH/EU		
		Outdoor Unit		AC140JXADEH/EU	AC140JXADGH/EU	AC160JXADGH/EU		
System	Mode			Heat Pump	Heat Pump	Heat Pump		
	Capacity	Cooling(Min/Std/Max)		kW	4.30 / 14.00 / 15.40	4.30 / 14.00 / 15.40	4.30 / 15.00 / 17.30	
				Btu/h	14,700 / 47,800 / 52,500	14,700 / 47,800 / 52,500	14,700 / 51,200 / 59,000	
		Heating(Min/Std/Max)		kW	4.70 / 16.00 / 18.00	4.70 / 16.00 / 18.00	4.70 / 17.50 / 19.00	
				Btu/h	16,000 / 54,600 / 61,400	16,000 / 54,600 / 61,400	16,000 / 59,700 / 64,800	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.90 / 4.65 / 5.50	0.90 / 4.65 / 5.50	0.90 / 5.28 / 6.40	
			Heating(Min/Std/Max)		0.80 / 4.43 / 5.70	0.80 / 4.43 / 5.70	0.80 / 4.86 / 6.50	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	5.10 / 20.20 / 23.50	1.70 / 7.10 / 9.50	1.70 / 8.20 / 9.80	
			Heating(Min/Std/Max)		4.50 / 19.30 / 23.50	1.70 / 6.80 / 8.80	1.70 / 7.50 / 10.00	
		MCA		A	26.70 (MCA)	14.70 (MCA)	14.70 (MCA)	
		MFA		A	30.00	16.20	16.20	
	Energy Efficiency	EER (Nominal Cooling)		-	3.01	3.01	2.84	
		COP (Nominal Heating)		-	3.61	3.61	3.60	
		Energy Grade		-	-	-	-	
				-	-	-	-	
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52	
				Ø, inch	3/8"	3/8"	3/8"	
		Gas Pipe		Ø, mm	15.88	15.88	15.88	
				Ø, inch	5/8"	5/8"	5/8"	
		Installation Limitation	Max. Length	m	75 (75)	75 (75)	75 (75)	
			Max. Height	m	30 (30)	30 (30)	30 (30)	
	Field Wiring	Power Source Wire		Ø, mm	-	-	-	
		Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	
	Refrigerant	Type		-	R410A	R410A	R410A	
		Control Method		-	-	-	-	
		Factory Charging		kg	3.20	3.20	3.50	
	Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
		Fan	Type		-	Sirroco	Sirroco	Sirroco
			Motor	Output	W	244 x 1	244 x 1	244 x 1
					CMM	34.00 / 27.00 / 23.00	34.00 / 27.00 / 23.00	37.00 / 31.00 / 26.00
			Air Flow Rate	High/Mid/Low	l/s	566.67 / 450.00 / 383.33	566.67 / 450.00 / 383.33	616.67 / 516.67 / 433.33
			External Static Pressure		Min/Std/Max	mmAq	-	-
		Pa	-	-	-			
Drain		Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	
Sound		Pressure	High/Mid/Low	dB(A)	46.0 / 42.0 / 38.0	46.0 / 42.0 / 38.0	51.0 / 47.0 / 44.0	
		Power	Cooling		64.0	64.0	68.0	
External Dimension		Net Weight		kg	42.00	42.00	42.00	
		Shipping Weight		kg	48.00	48.00	48.00	
		Net Dimensions (WxHxD)		mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675	
		Shipping Dimensions (WxHxD)		mm	1,739 x 321 x 758	1,739 x 321 x 758	1,739 x 321 x 758	
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	3,4,380-415,50	1,2,220-240,50
		Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Model		-	UG5T450FUEJX	UG5T450FUFJX	UG5T450FXAJX		
	Output		kW	4.12	4.12	4.01		
	Oil		Type	-	POE	POE	PVE	
		CMM		100.00	100.00	115.00		
	Fan	Air Flow Rate	Cooling	l/s	1,666.67	1,666.67	1,916.67	
		Sound	Pressure	Cooling/Heating	dB(A)	53.0 / 54.0	53.0 / 54.0	56.0 / 58.0
	Power		Cooling	70.0		70.0	73.0	
	External Dimension	Net Weight		kg	88.00	90.00	96.00	
		Shipping Weight		kg	98.00	100.00	106.00	
		Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330	
		Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	995 x 1,388 x 426	995 x 1,598 x 426	
	Operating Temp. Range	Cooling		°C	-15.0 ~ 50.0	-15.0 ~ 50.0	-15.0 ~ 50.0	
		Heating		°C	-20.0 ~ 24.0	-20.0 ~ 24.0	-20.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

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

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m

2) Nominal heating capacities are based on;

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

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m

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

4) These products contain R410A which is fluorinated greenhouse gas.

3 Capacity table

Ceiling

AC100JNCDEH/EU + AC100JXADEH/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	9.76	7.81	1.58	10.00	8.00	1.62	10.25	8.20	1.66	10.50	8.40	1.70	10.75	8.60	1.74	11.01	8.81	1.78
21.0	10.23	8.18	2.79	10.48	8.38	2.86	10.74	8.59	2.93	11.00	8.80	3.00	11.26	9.01	3.07	11.53	9.23	3.15
35.0	9.30	7.44	3.21	9.53	7.62	3.29	9.76	7.81	3.37	10.00	8.00	3.45	10.24	8.19	3.53	10.49	8.39	3.62
46.0	6.90	5.52	2.93	7.07	5.65	3.00	7.24	5.79	3.07	7.42	5.93	3.15	7.60	6.08	3.23	7.78	6.22	3.30
50.0	5.34	2.09	1.33	5.47	2.14	1.36	5.60	2.20	1.40	5.74	4.59	2.86	5.88	4.70	3.55	6.02	4.82	3.63

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	7.34	3.06	7.27	3.03	7.20	3.00	7.13	2.97	7.06	2.94	6.99	2.91
-10.0	11.02	5.00	10.91	4.95	10.80	4.90	10.69	4.85	10.59	4.80	10.48	4.75
7.0	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24.0	14.08	3.92	13.94	3.88	13.80	3.84	13.66	3.80	13.53	3.76	13.39	3.73

AC100JNCDEH/EU + AC100JXADGH/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	9.76	7.81	1.58	10.00	8.00	1.62	10.25	8.20	1.66	10.50	8.40	1.70	10.75	8.60	1.74	11.01	8.81	1.78
21.0	10.23	8.18	2.79	10.48	8.38	2.86	10.74	8.59	2.93	11.00	8.80	3.00	11.26	9.01	3.07	11.53	9.23	3.15
35.0	9.30	7.44	3.21	9.53	7.62	3.29	9.76	7.81	3.37	10.00	8.00	3.45	10.24	8.19	3.53	10.49	8.39	3.62
46.0	6.90	5.52	2.93	7.07	5.65	3.00	7.24	5.79	3.07	7.42	5.93	3.15	7.60	6.08	3.23	7.78	6.22	3.30
50.0	5.34	2.09	1.33	5.47	2.14	1.36	5.60	2.20	1.40	5.74	4.59	2.66	5.88	4.70	3.30	6.02	4.82	3.38

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	7.34	3.06	7.27	3.03	7.20	3.00	7.13	2.97	7.06	2.94	6.99	2.91
-10.0	11.02	5.00	10.91	4.95	10.80	4.90	10.69	4.85	10.59	4.80	10.48	4.75
7.0	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24.0	14.08	3.92	13.94	3.88	13.80	3.84	13.66	3.80	13.53	3.76	13.39	3.73

* Capacity table may be subject to change without prior notice.

1) 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

Ceiling

AC120JNCDEH/EU + AC120JXADEH/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	10.07	8.06	3.25	10.32	8.25	3.33	10.57	8.46	3.42	10.83	8.66	3.50	11.09	8.87	3.58	11.36	9.08	3.67
21.0	12.82	10.26	3.90	13.14	10.51	4.00	13.46	10.77	4.10	13.79	11.03	4.20	14.12	11.30	4.30	14.46	11.57	4.40
35.0	11.16	8.93	4.37	11.43	9.14	4.48	11.71	9.37	4.59	12.00	9.60	4.70	12.29	9.83	4.81	12.58	10.07	4.93
46.0	8.20	6.56	3.35	8.40	6.72	3.43	8.61	6.89	3.51	8.82	7.06	3.60	9.03	7.23	3.69	9.25	7.40	3.77
50.0	5.66	2.09	1.33	5.80	2.14	1.36	5.94	2.20	1.40	6.09	4.87	2.97	6.24	4.99	3.68	6.39	5.11	3.77

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	8.71	4.03	8.63	3.99	8.54	3.95	8.45	3.91	8.37	3.87	8.29	3.83
-10.0	12.82	5.22	12.70	5.17	12.57	5.12	12.44	5.07	12.32	5.02	12.20	4.97
7.0	13.26	3.83	13.13	3.79	13.00	3.75	12.87	3.71	12.74	3.68	12.61	3.64
24.0	14.93	4.24	14.79	4.20	14.64	4.16	14.49	4.12	14.35	4.08	14.21	4.04

AC120JNCDEH/EU + AC120JXADGH/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	10.07	8.06	3.25	10.32	8.25	3.33	10.57	8.46	3.42	10.83	8.66	3.50	11.09	8.87	3.58	11.36	9.08	3.67
21.0	12.82	10.26	3.90	13.14	10.51	4.00	13.46	10.77	4.10	13.79	11.03	4.20	14.12	11.30	4.30	14.46	11.57	4.40
35.0	11.16	8.93	4.37	11.43	9.14	4.48	11.71	9.37	4.59	12.00	9.60	4.70	12.29	9.83	4.81	12.58	10.07	4.93
46.0	8.20	6.56	3.35	8.40	6.72	3.43	8.61	6.89	3.51	8.82	7.06	3.60	9.03	7.23	3.69	9.25	7.40	3.77
50.0	5.66	2.09	1.33	5.80	2.14	1.36	5.94	2.20	1.40	6.09	4.87	2.97	6.24	4.99	3.68	6.39	5.11	3.77

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	8.71	4.03	8.63	3.99	8.54	3.95	8.45	3.91	8.37	3.87	8.29	3.83
-10.0	12.82	5.22	12.70	5.17	12.57	5.12	12.44	5.07	12.32	5.02	12.20	4.97
7.0	13.26	3.83	13.13	3.79	13.00	3.75	12.87	3.71	12.74	3.68	12.61	3.64
24.0	14.93	4.24	14.79	4.20	14.64	4.16	14.49	4.12	14.35	4.08	14.21	4.04

* Capacity table may be subject to change without prior notice.

1) 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

Ceiling

AC140JNCDEH/EU + AC140JXADEH/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	10.30	8.24	3.30	10.55	8.44	3.38	10.81	8.65	3.46	11.08	8.86	3.55	11.35	9.08	3.64	11.62	9.29	3.72
21.0	14.84	11.87	4.68	15.20	12.16	4.80	15.58	12.46	4.92	15.96	12.77	5.04	16.34	13.07	5.16	16.74	13.39	5.28
35.0	13.02	10.41	4.32	13.34	10.67	4.43	13.66	10.93	4.54	14.00	11.20	4.65	14.34	11.47	4.76	14.68	11.74	4.88
46.0	8.96	7.17	3.93	9.18	7.35	4.03	9.41	7.53	4.13	9.64	7.71	4.23	9.87	7.90	4.33	10.11	8.09	4.44
50.0	6.02	2.09	1.33	6.17	2.14	1.36	6.32	2.20	1.40	6.48	5.18	3.17	6.64	5.31	3.93	6.79	5.44	4.03

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	9.67	4.26	9.57	4.22	9.48	4.18	9.38	4.14	9.29	4.10	9.20	4.06
-10.0	13.87	5.71	13.74	5.66	13.60	5.60	13.46	5.54	13.33	5.49	13.20	5.43
7.0	16.32	4.52	16.16	4.47	16.00	4.43	15.84	4.39	15.68	4.34	15.52	4.30
24.0	19.98	4.60	19.79	4.56	19.59	4.51	19.39	4.46	19.20	4.42	19.01	4.38

AC140JNCDEH/EU + AC140JXADGH/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	10.30	8.24	3.30	10.55	8.44	3.38	10.81	8.65	3.46	11.08	8.86	3.55	11.35	9.08	3.64	11.62	9.29	3.72
21.0	14.84	11.87	4.68	15.20	12.16	4.80	15.58	12.46	4.92	15.96	12.77	5.04	16.34	13.07	5.16	16.74	13.39	5.28
35.0	13.02	10.41	4.32	13.34	10.67	4.43	13.66	10.93	4.54	14.00	11.20	4.65	14.34	11.47	4.76	14.68	11.74	4.88
46.0	8.96	7.17	3.93	9.18	7.35	4.03	9.41	7.53	4.13	9.64	7.71	4.23	9.87	7.90	4.33	10.11	8.09	4.44
50.0	6.02	2.09	1.33	6.17	2.14	1.36	6.32	2.20	1.40	6.48	5.18	3.17	6.64	5.31	3.93	6.79	5.44	4.03

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	9.67	4.26	9.57	4.22	9.48	4.18	9.38	4.14	9.29	4.10	9.20	4.06
-10.0	13.87	5.71	13.74	5.66	13.60	5.60	13.46	5.54	13.33	5.49	13.20	5.43
7.0	16.32	4.52	16.16	4.47	16.00	4.43	15.84	4.39	15.68	4.34	15.52	4.30
24.0	19.98	4.60	19.79	4.56	19.59	4.51	19.39	4.46	19.20	4.42	19.01	4.38

* Capacity table may be subject to change without prior notice.

1) 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

Ceiling

AC160JNCDEH/EU + AC160JXADGH/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	13.95	11.16	2.23	14.29	11.43	2.29	14.64	11.71	2.34	15.00	12.00	2.40	15.36	12.29	2.46	15.73	12.58	2.52
21.0	15.81	12.65	4.00	16.20	12.96	4.10	16.60	13.28	4.20	17.01	13.61	4.30	17.42	13.93	4.40	17.84	14.27	4.51
35.0	13.95	11.16	4.91	14.29	11.43	5.03	14.64	11.71	5.15	15.00	12.00	5.28	15.36	12.29	5.41	15.73	12.58	5.54
46.0	12.68	10.15	5.37	12.99	10.39	5.51	13.31	10.65	5.64	13.64	10.91	5.78	13.97	11.17	5.92	14.30	11.44	6.06
50.0	9.46	7.57	4.62	9.70	7.76	4.73	9.94	7.95	4.85	10.18	8.14	4.97	10.42	8.34	6.16	10.67	8.54	6.31

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	9.91	4.53	9.81	4.48	9.71	4.44	9.61	4.40	9.52	4.35	9.42	4.31
-10.0	16.65	6.81	16.48	6.75	16.32	6.68	16.16	6.61	16.00	6.55	15.84	6.48
7.0	17.85	4.96	17.68	4.91	17.50	4.86	17.33	4.81	17.15	4.76	16.98	4.72
24.0	22.60	5.64	22.37	5.59	22.15	5.53	21.93	5.47	21.71	5.42	21.49	5.37

* Capacity table may be subject to change without prior notice.

1) 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

Ceiling

AC100JNCDEH/EU, AC120JNCDEH/EU, AC140JNCDEH/EU, AC160JNCDEH/EU

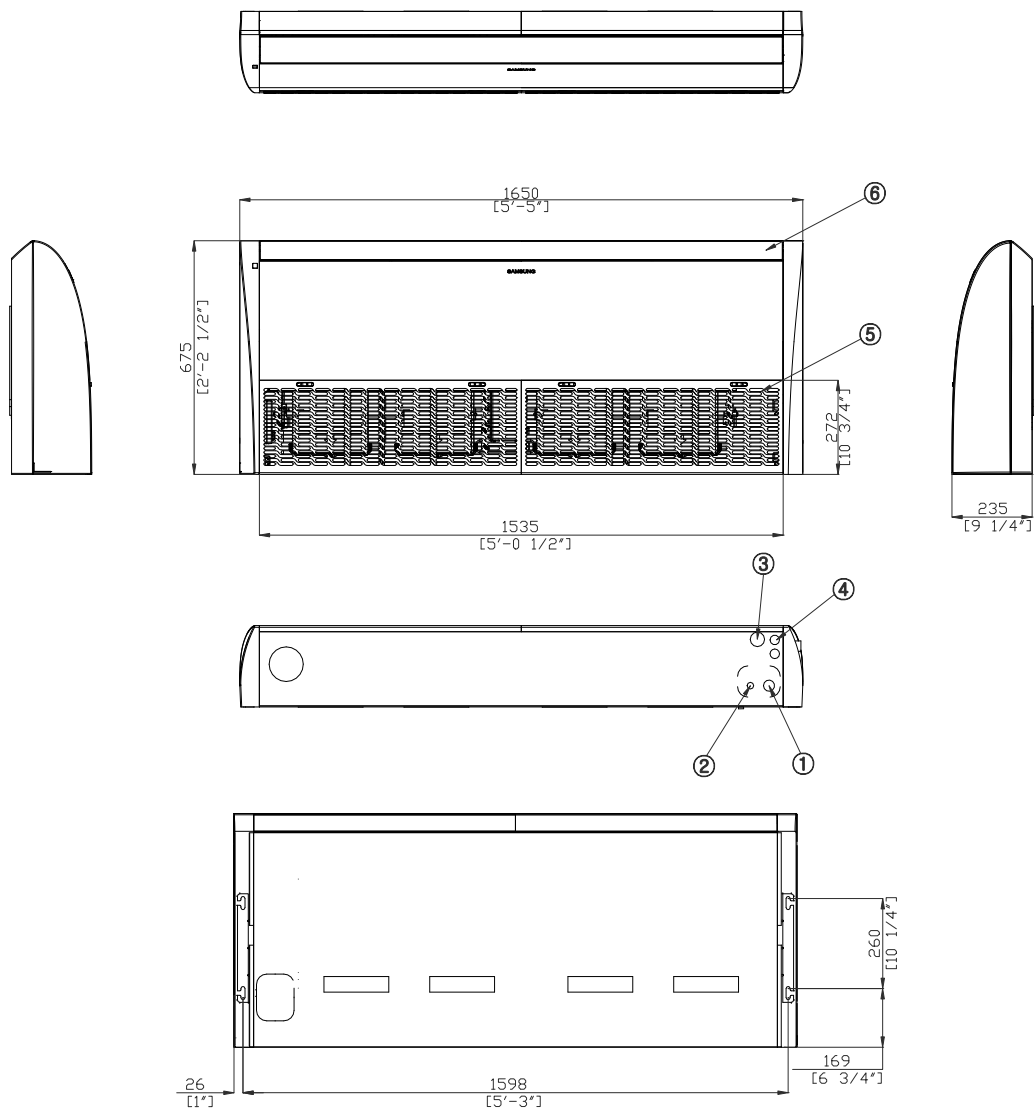


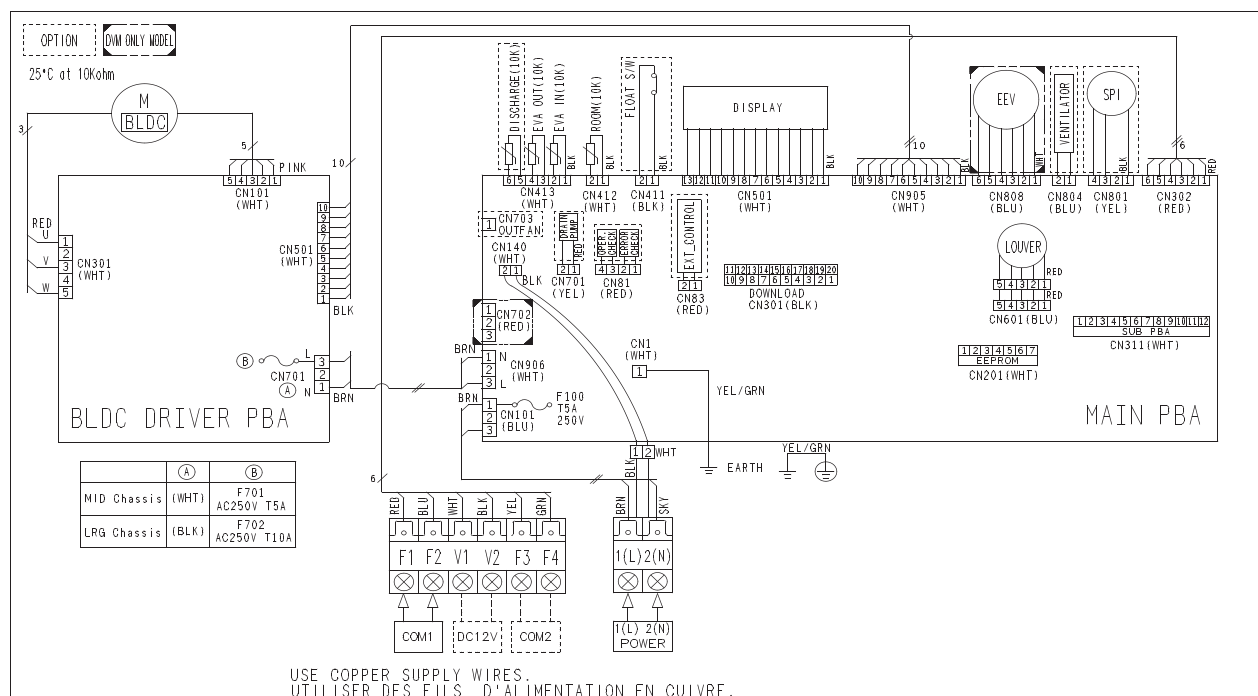
Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power&Comm. wiring conduits	10	
5	Air Inlet grille	11	
6	Air Outlet grille	12	

5 Electrical wiring diagram

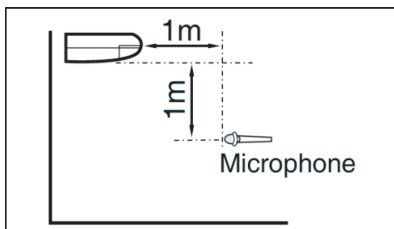
Ceiling

AC100JNCDEH/EU, AC120JNCDEH/EU, AC140JNCDEH/EU, AC160JNCDEH/EU



6 Sound pressure level

Ceiling



Unit: dB(A)

Model	High	Low
AC100JNCDEH/EU (ODU : AC100JXADEH/EU)	42.0	34.0
AC100JNCDEH/EU (ODU : AC100JXADGH/EU)	42.0	34.0
AC120JNCDEH/EU (ODU : AC120JXADEH/EU)	44.0	37.0
AC120JNCDEH/EU (ODU : AC120JXADGH/EU)	44.0	37.0

Note

* Specifications may be subject to change without prior notice

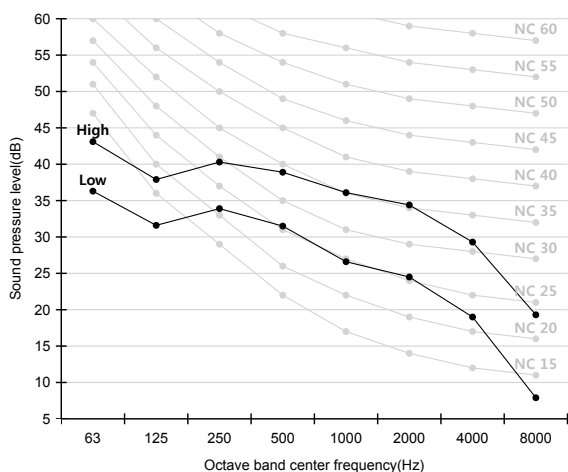
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

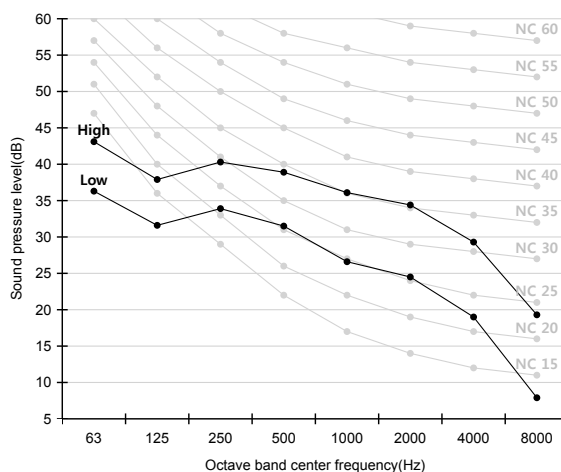
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

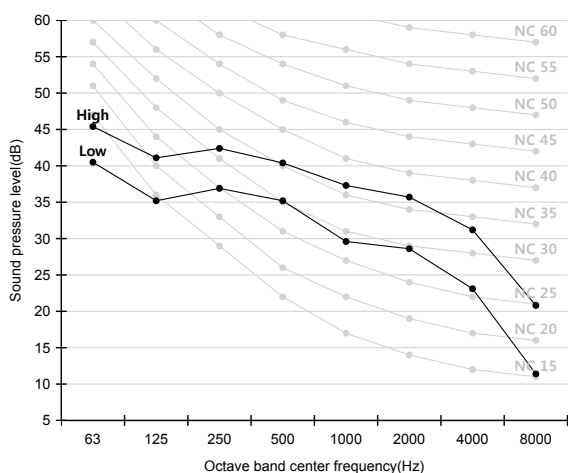
1) AC100JNCDEH/EU (ODU : AC100JXADEH/EU)



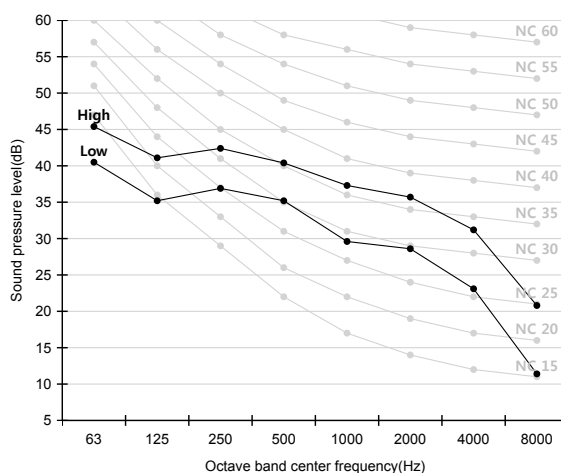
2) AC100JNCDEH/EU (ODU : AC100JXADGH/EU)



3) AC120JNCDEH/EU (ODU : AC120JXADEH/EU)

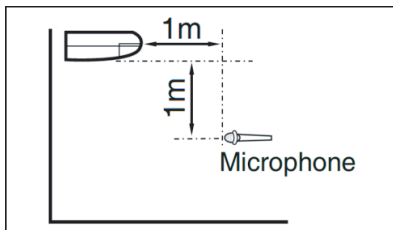


4) AC120JNCDEH/EU (ODU : AC120JXADGH/EU)



6 Sound pressure level

Ceiling



Unit: dB(A)

Model	High	Low
AC140JNCDEH/EU (ODU : AC140JXADEH/EU)	46.0	38.0
AC140JNCDEH/EU (ODU : AC140JXADGH/EU)	46.0	38.0
AC160JNCDEH/EU (ODU : AC160JXADGH/EU)	51.0	44.0

Note

* Specifications may be subject to change without prior notice

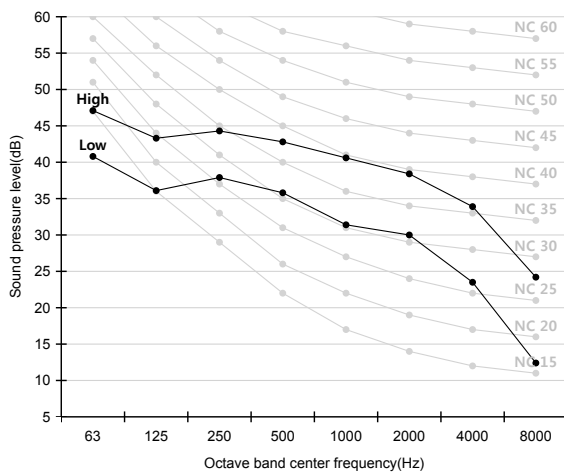
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

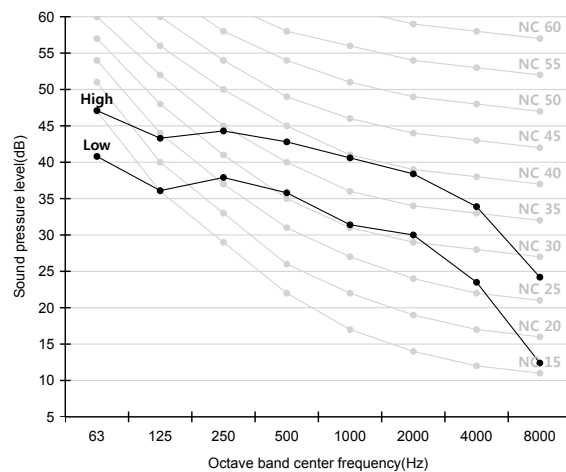
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

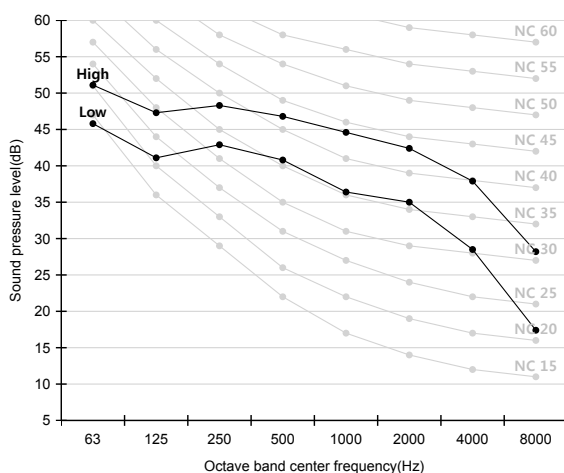
1) AC140JNCDEH/EU (ODU : AC140JXADEH/EU)



2) AC140JNCDEH/EU (ODU : AC140JXADGH/EU)



3) AC160JNCDEH/EU (ODU : AC160JXADGH/EU)



7 Sound power level

Ceiling

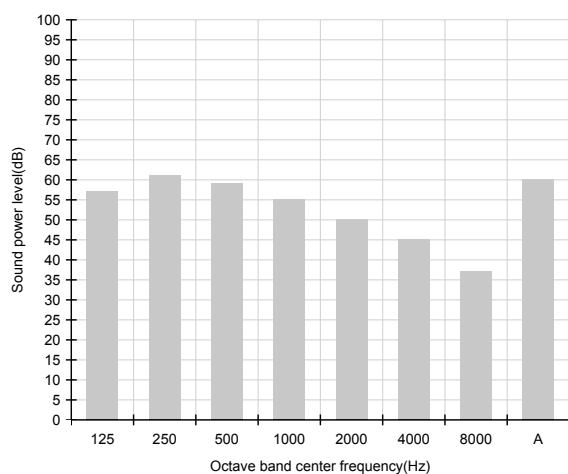
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
- 2) Reference power : 1pW.
- 3) Measured according to ISO 3741.

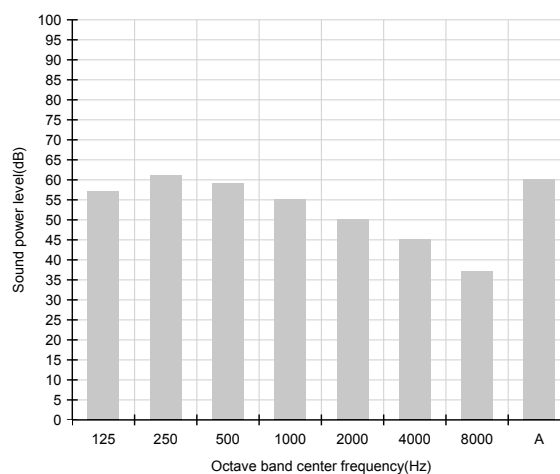
Unit: dB(A)

Model	Power
AC100JNCDEH/EU (ODU : AC100JXADEH/EU)	60.0
AC100JNCDEH/EU (ODU : AC100JXADGH/EU)	60.0
AC120JNCDEH/EU (ODU : AC120JXADEH/EU)	62.0
AC120JNCDEH/EU (ODU : AC120JXADGH/EU)	62.0

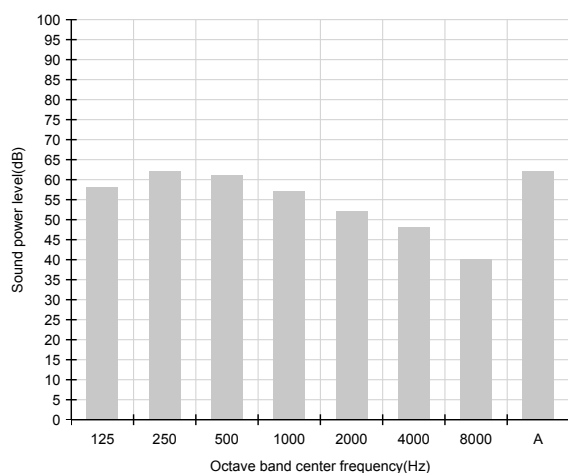
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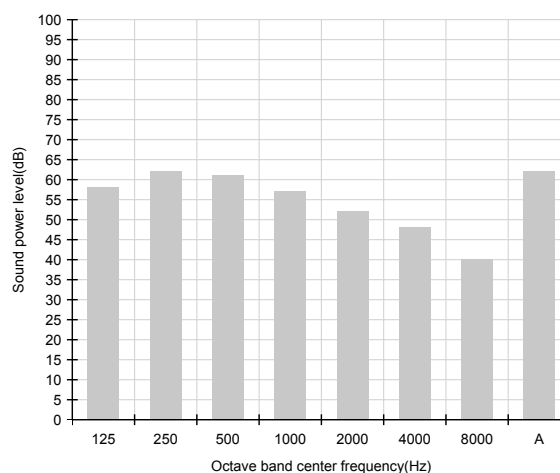
2) AC100JNCDEH/EU (ODU : AC100JXADGH/EU)



3) AC120JNCDEH/EU (ODU : AC120JXADEH/EU)



4) AC120JNCDEH/EU (ODU : AC120JXADGH/EU)



7 Sound power level

Ceiling

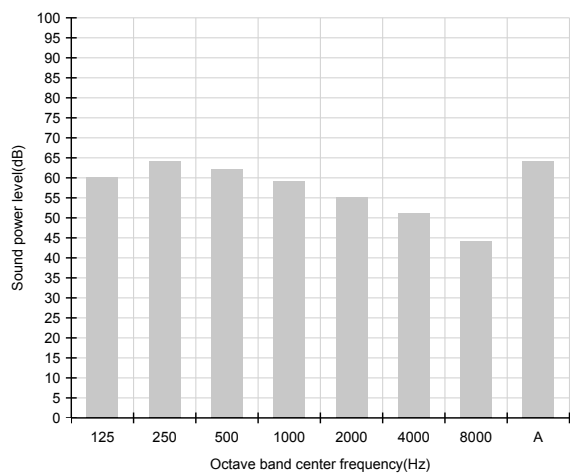
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
- 2) Reference power : 1pW.
- 3) Measured according to ISO 3741.

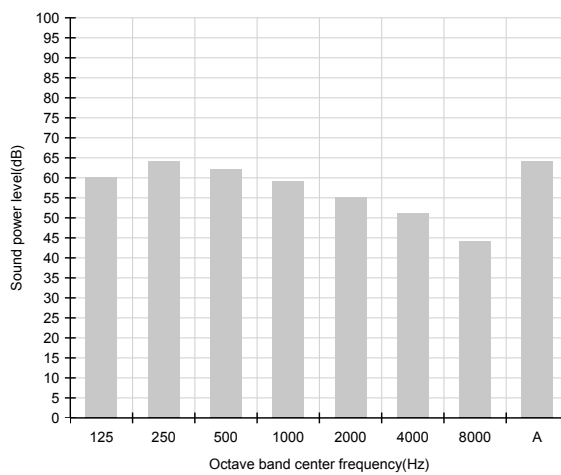
Unit: dB(A)

Model	Power
AC140JNCDEH/EU (ODU : AC140JXADEH/EU)	64.0
AC140JNCDEH/EU (ODU : AC140JXADGH/EU)	64.0
AC160JNCDEH/EU (ODU : AC160JXADGH/EU)	68.0

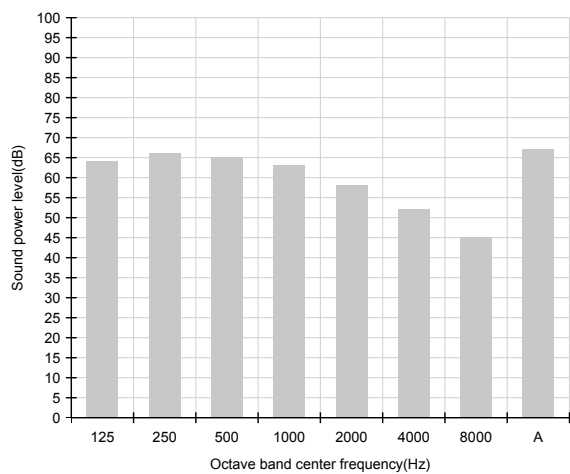
1) AC140JNCDEH/EU (ODU : AC140JXADEH/EU)



2) AC140JNCDEH/EU (ODU : AC140JXADGH/EU)



3) AC160JNCDEH/EU (ODU : AC160JXADGH/EU)



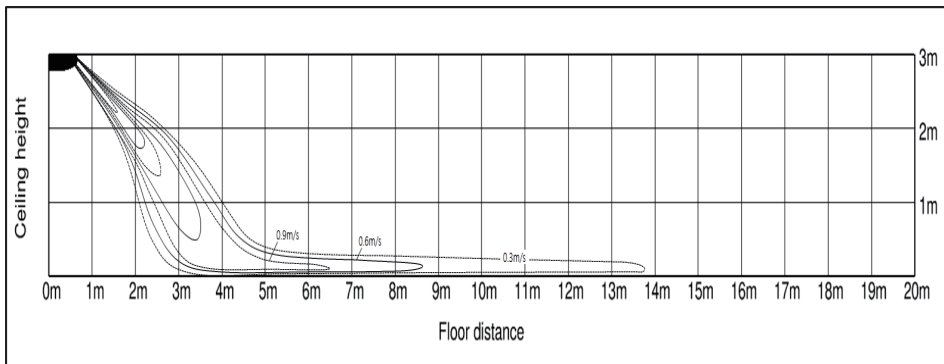
8 Temperature and air flow distribution

Ceiling

AC100JNCDEH/EU

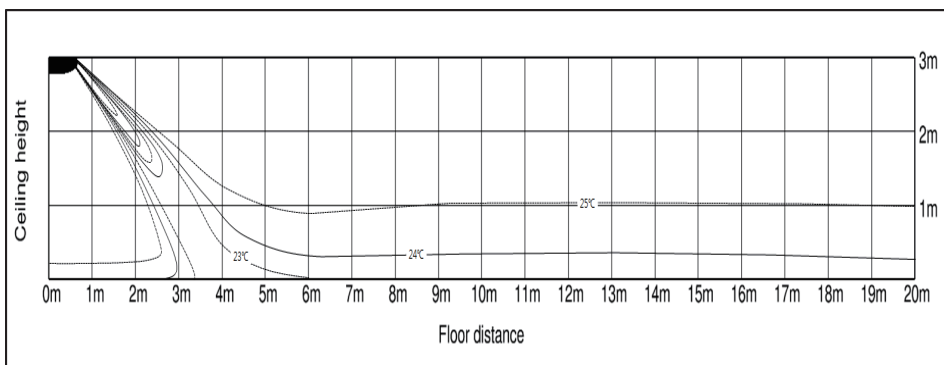
(1) Cooling air velocity distribution

Discharge angle : 32°



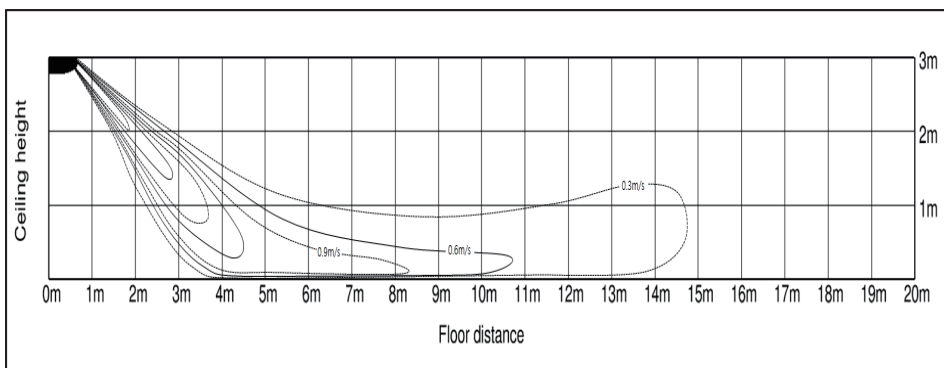
(2) Cooling temperature distribution

Discharge angle : 32°



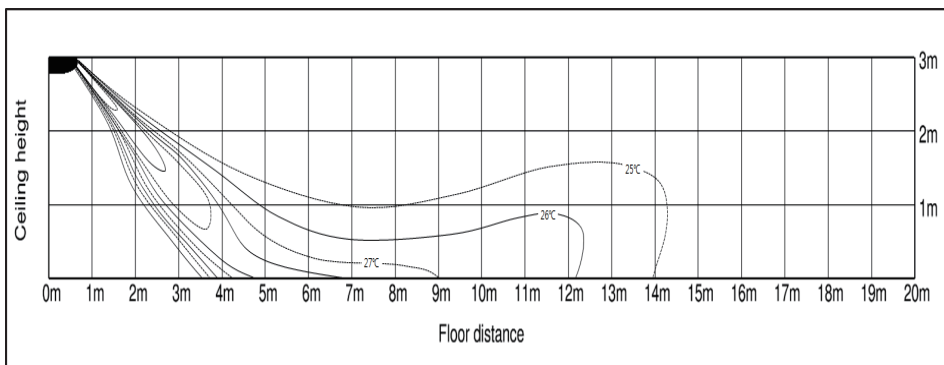
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



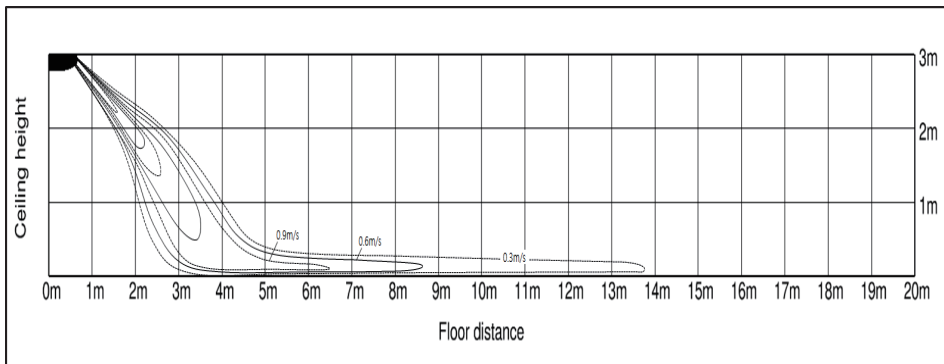
8 Temperature and air flow distribution

Ceiling

AC100JNCDEH/EU

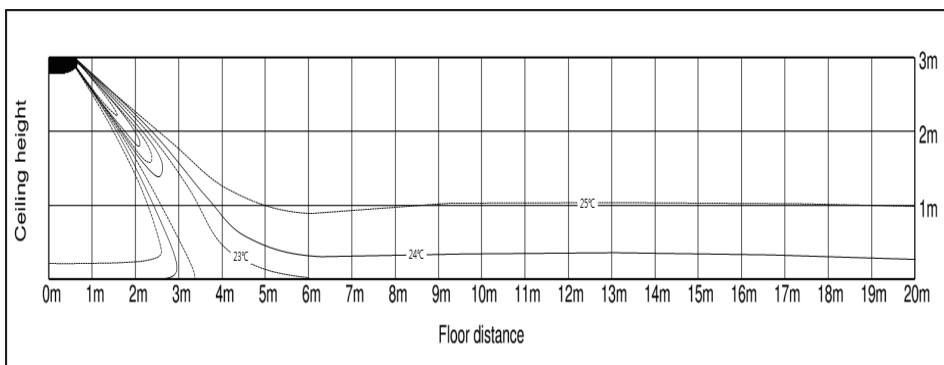
(1) Cooling air velocity distribution

Discharge angle : 32°



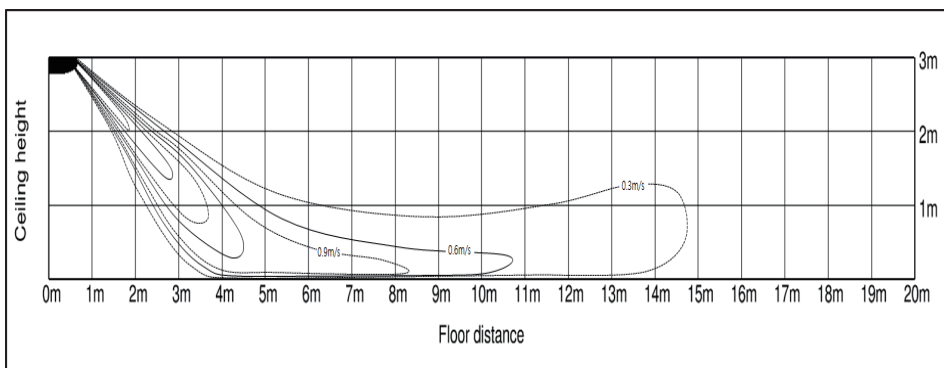
(2) Cooling temperature distribution

Discharge angle : 32°



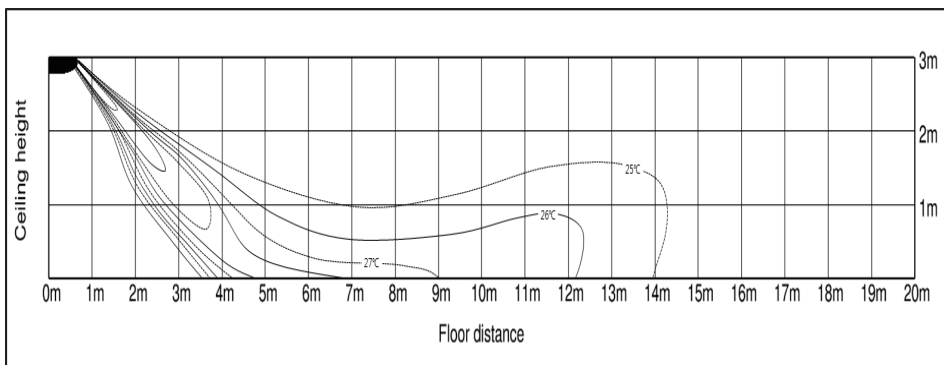
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



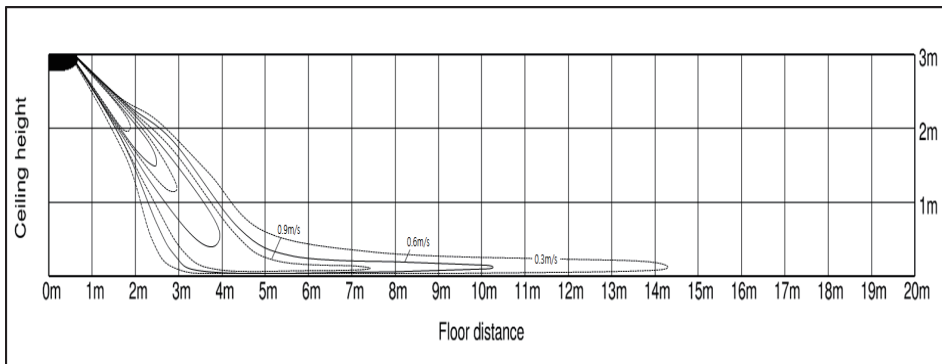
8 Temperature and air flow distribution

Ceiling

AC120JNCDEH/EU

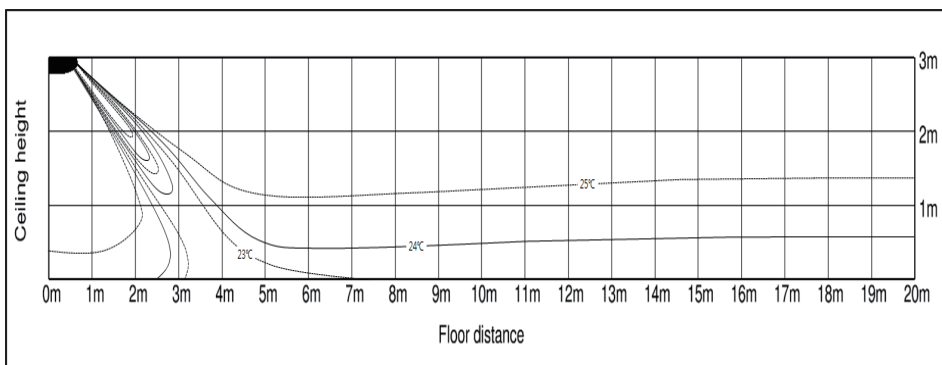
(1) Cooling air velocity distribution

Discharge angle : 32°



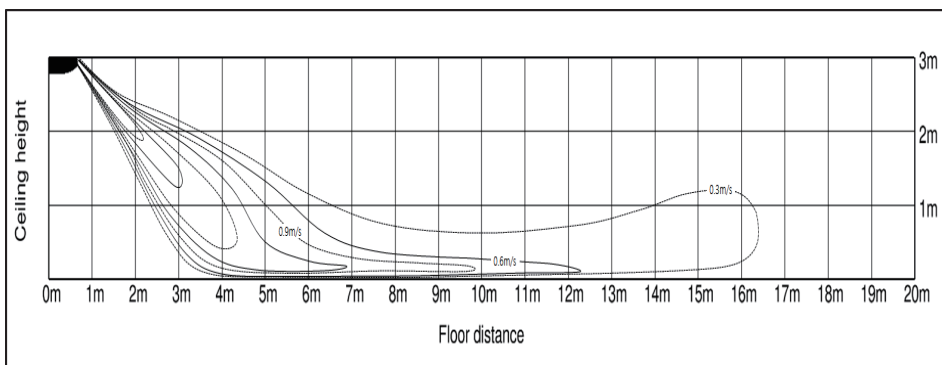
(2) Cooling temperature distribution

Discharge angle : 32°



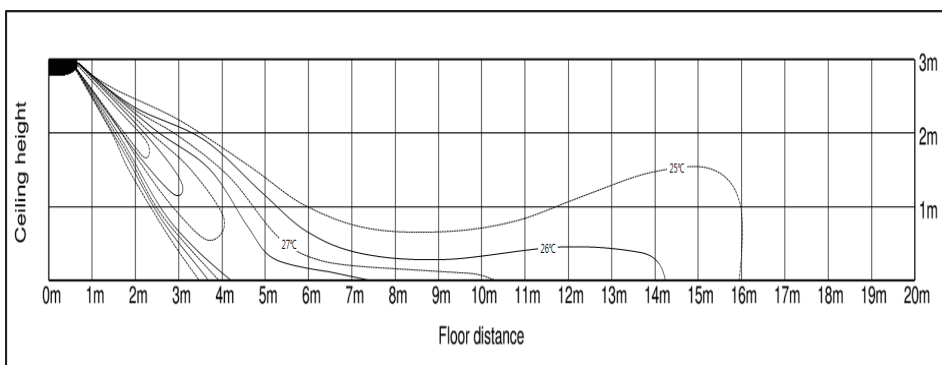
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



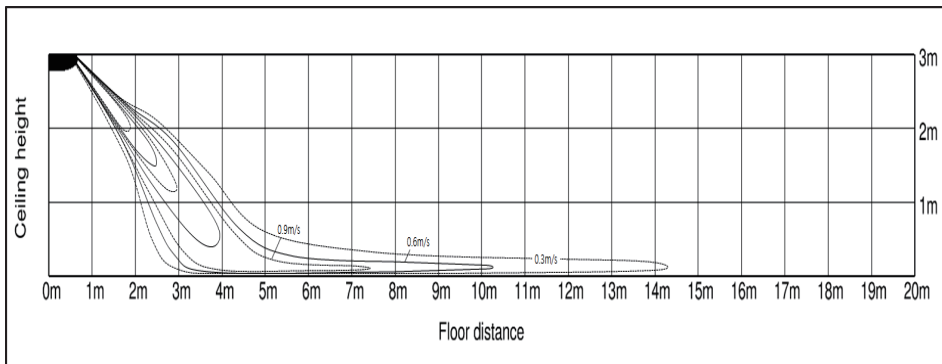
8 Temperature and air flow distribution

Ceiling

AC120JNCDEH/EU

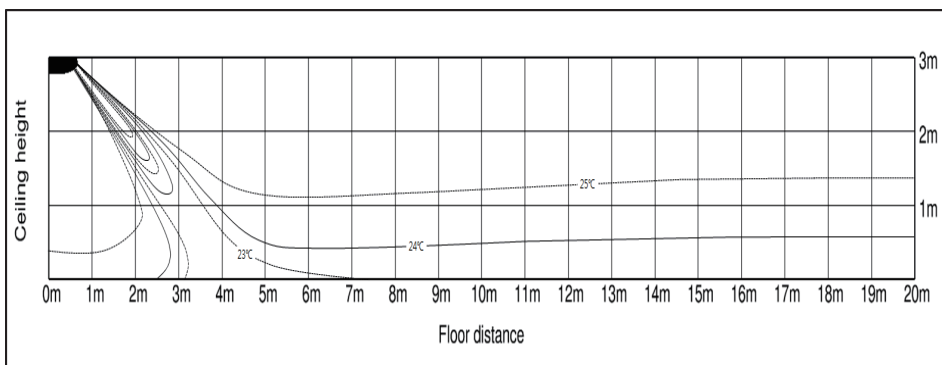
(1) Cooling air velocity distribution

Discharge angle : 32°



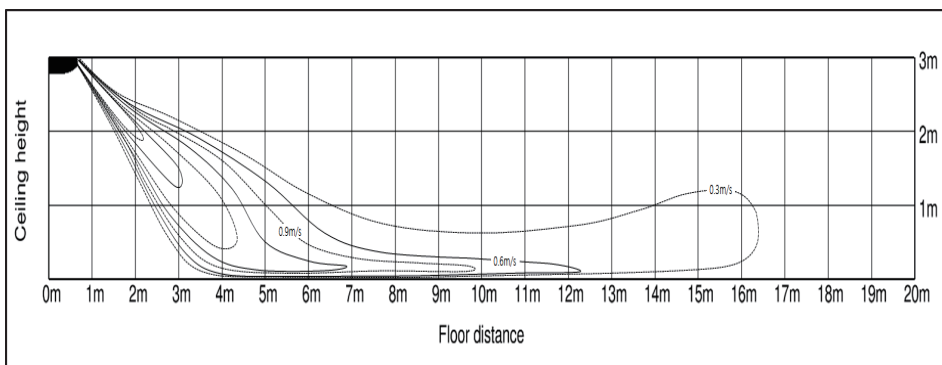
(2) Cooling temperature distribution

Discharge angle : 32°



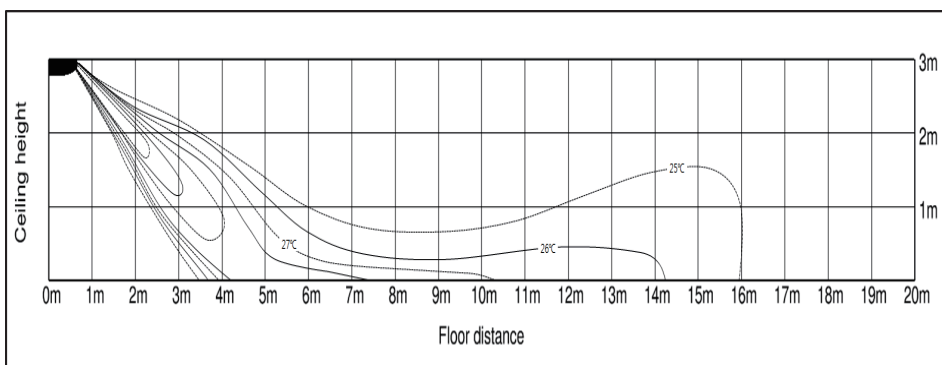
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



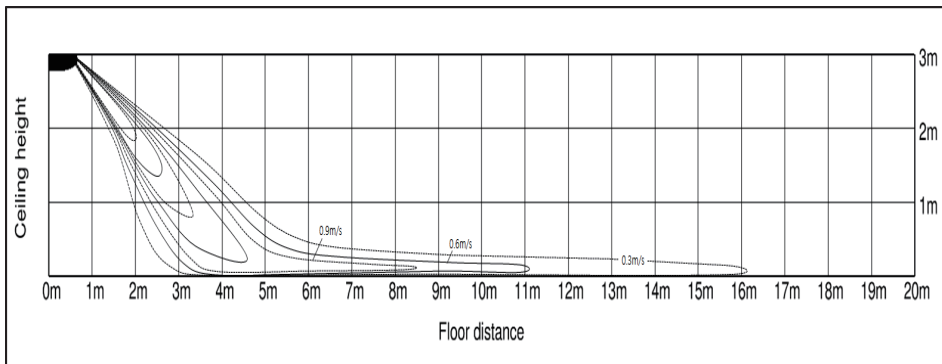
8 Temperature and air flow distribution

Ceiling

AC140JNCDEH/EU

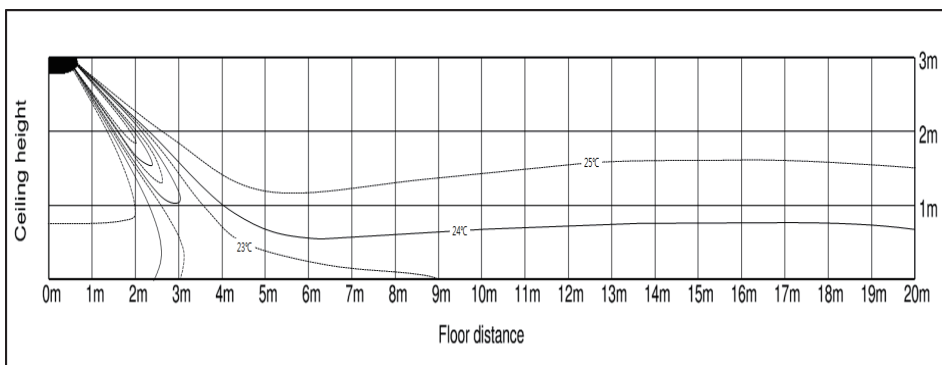
(1) Cooling air velocity distribution

Discharge angle : 32°



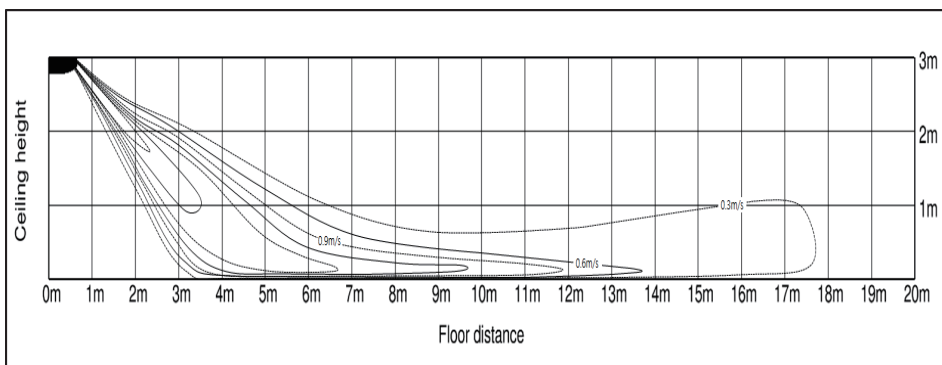
(2) Cooling temperature distribution

Discharge angle : 32°



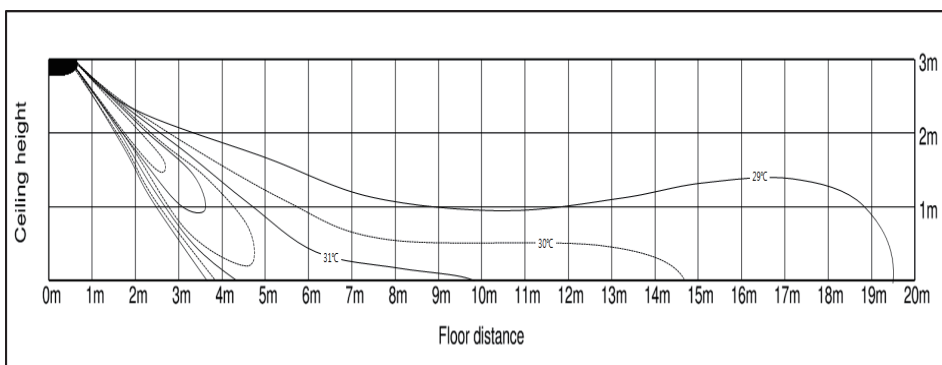
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



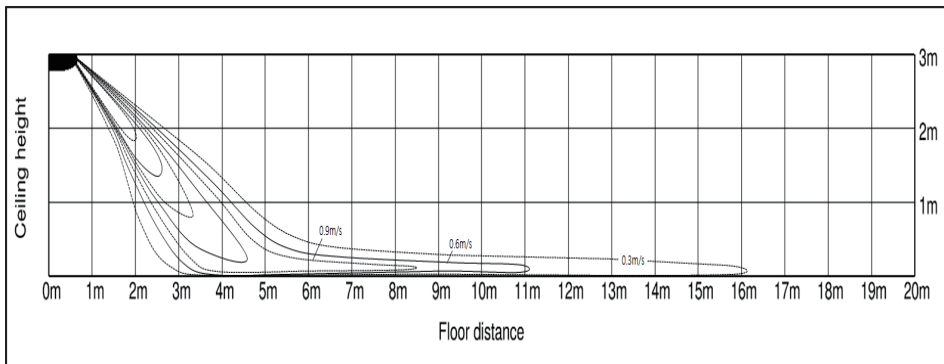
8 Temperature and air flow distribution

Ceiling

AC140JNCDEH/EU

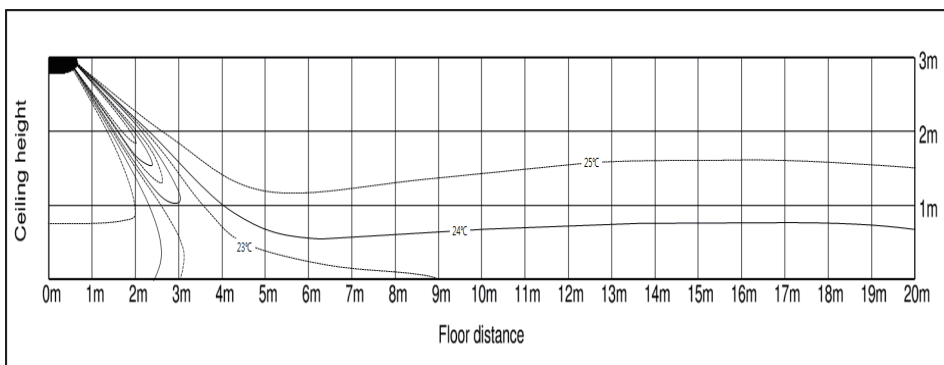
(1) Cooling air velocity distribution

Discharge angle : 32°



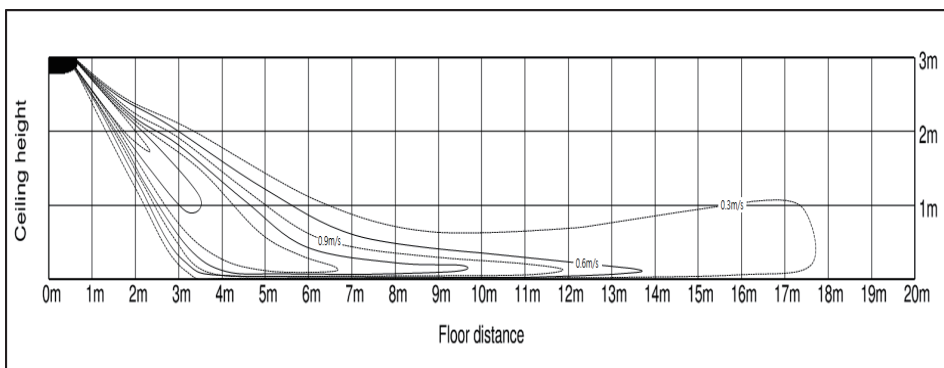
(2) Cooling temperature distribution

Discharge angle : 32°



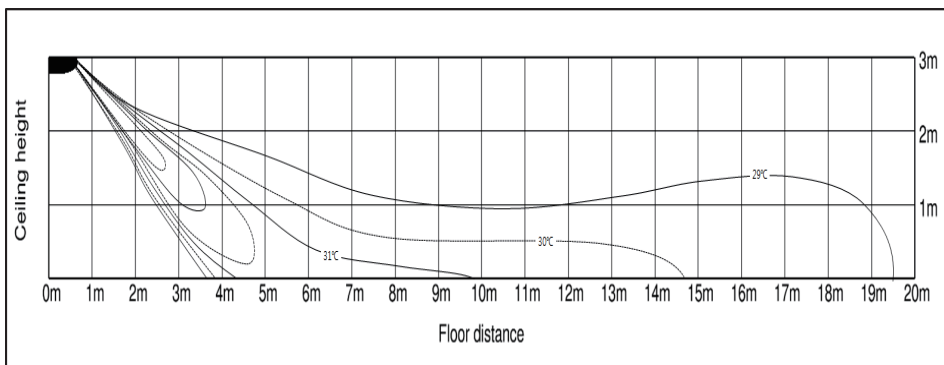
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



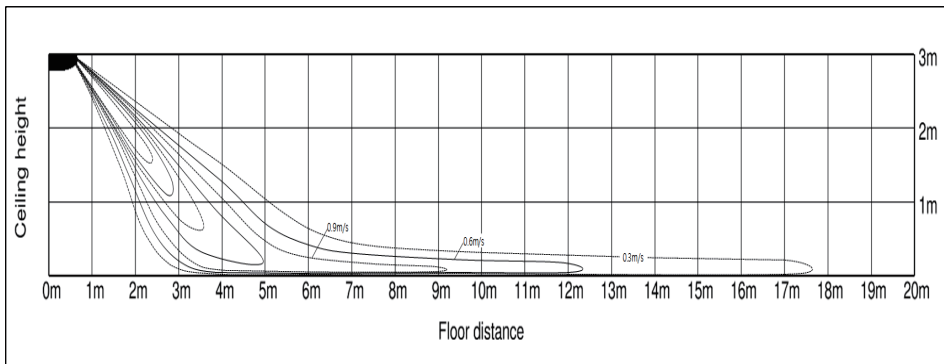
8 Temperature and air flow distribution

Ceiling

AC160JNCDEH/EU

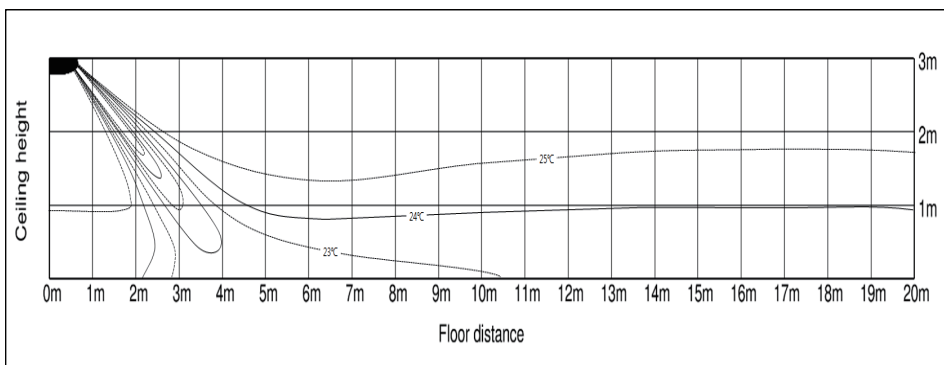
(1) Cooling air velocity distribution

Discharge angle : 32°



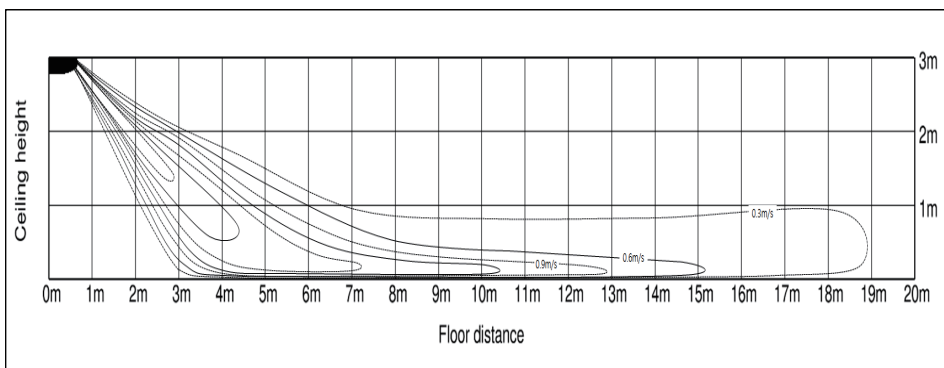
(2) Cooling temperature distribution

Discharge angle : 32°



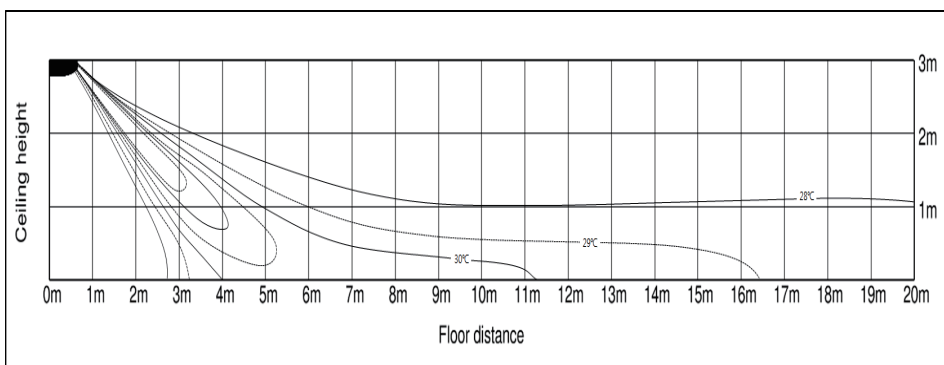
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

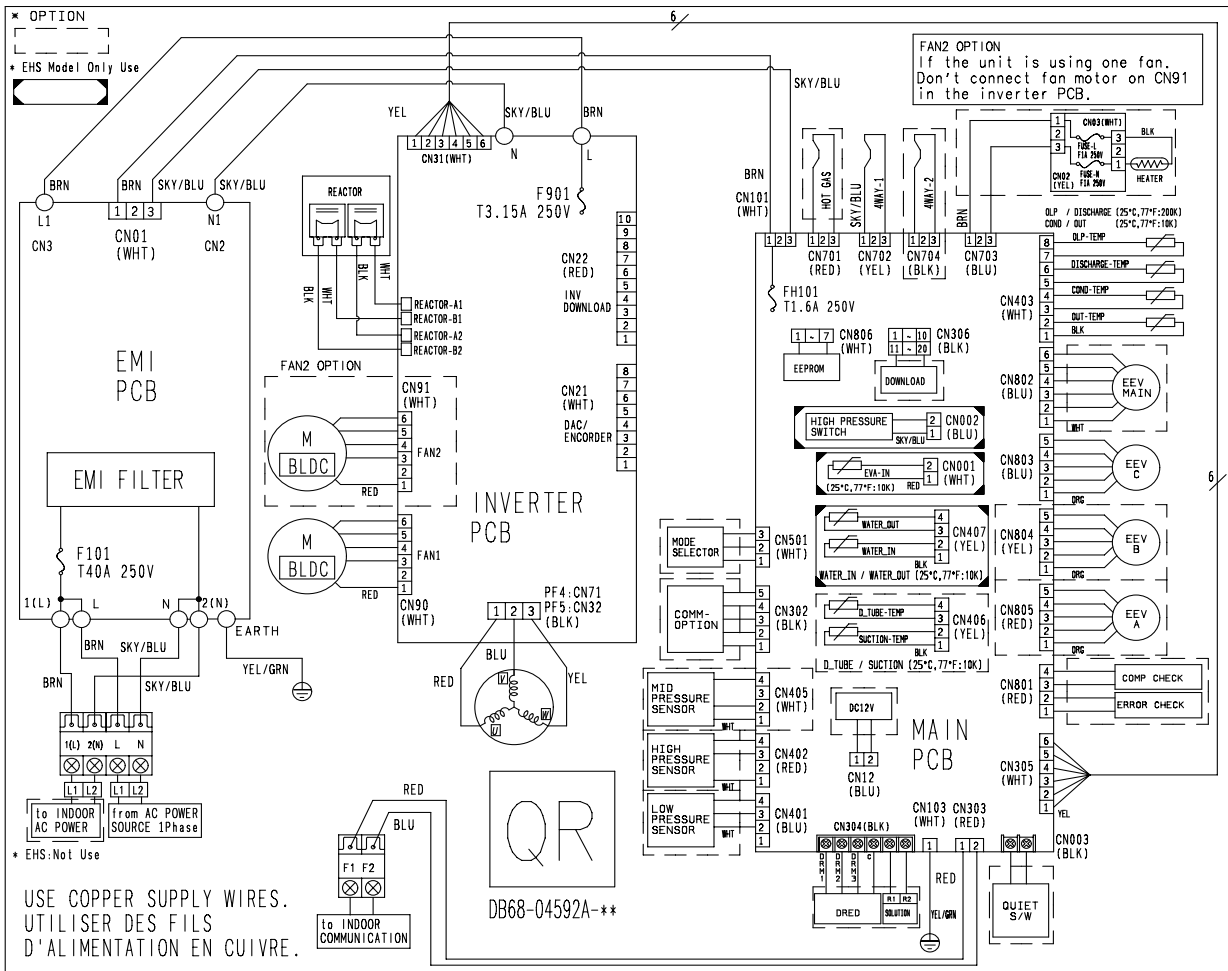
Discharge angle : 32°



9

Outdoor

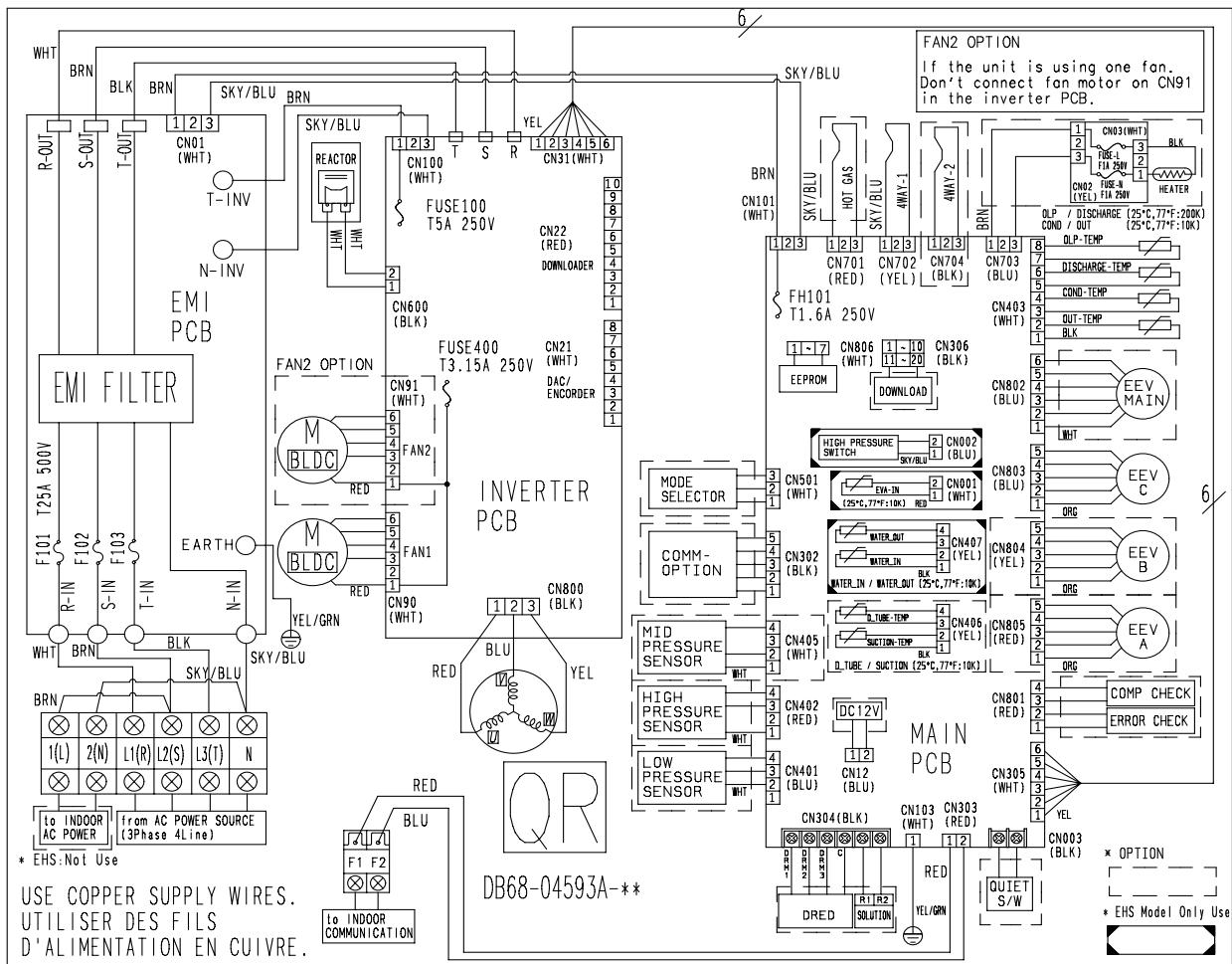
AC100JXADEH/EU, AC120JXADEH/EU, AC140JXADEH/EU, AC160JXADGH/EU



9

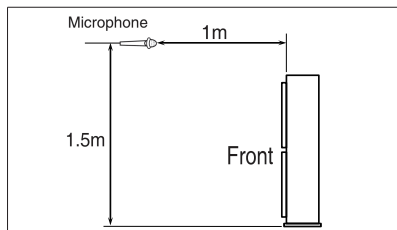
Outdoor

AC100JXADGH/EU, AC120JXADGH/EU, AC140JXADGH/EU



10 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling	Heating
AC100JXADEH/EU (IDU : AC100JNCDEH/EU)	52.0	54.0
AC100JXADGH/EU (IDU : AC100JNCDEH/EU)	52.0	54.0
AC120JXADEH/EU (IDU : AC120JNCDEH/EU)	54.0	56.0
AC120JXADGH/EU (IDU : AC120JNCDEH/EU)	54.0	56.0

Note

* Specifications may be subject to change without prior notice

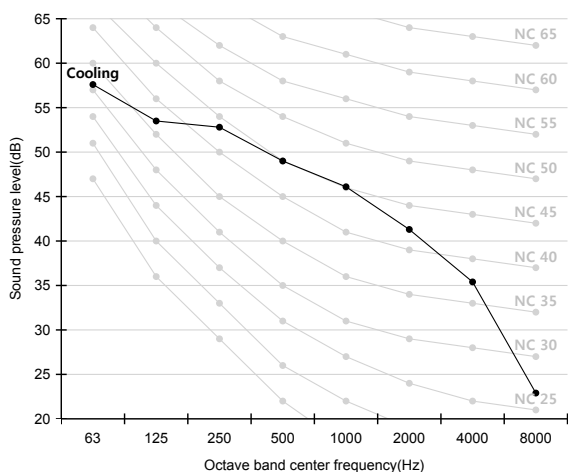
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

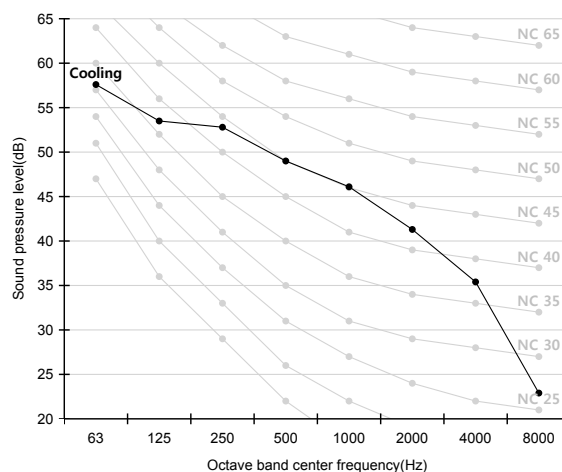
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

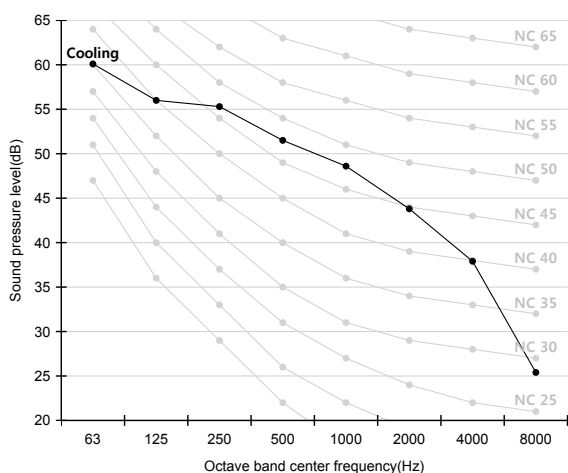
1) AC100JXADEH/EU (IDU : AC100JNCDEH/EU)



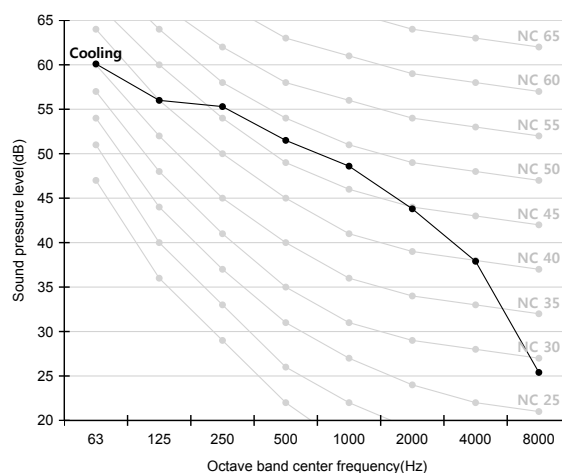
2) AC100JXADGH/EU (IDU : AC100JNCDEH/EU)



3) AC120JXADEH/EU (IDU : AC120JNCDEH/EU)

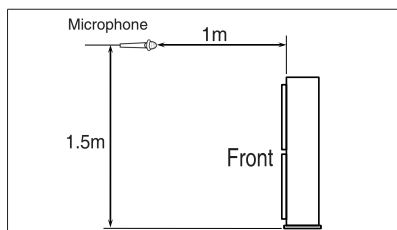


4) AC120JXADGH/EU (IDU : AC120JNCDEH/EU)



10 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling	Heating
AC140JXADEH/EU (IDU : AC140JNCDEH/EU)	53.0	54.0
AC140JXADGH/EU (IDU : AC140JNCDEH/EU)	53.0	54.0
AC160JXADGH/EU (IDU : AC160JNCDEH/EU)	56.0	58.0

Note

* Specifications may be subject to change without prior notice

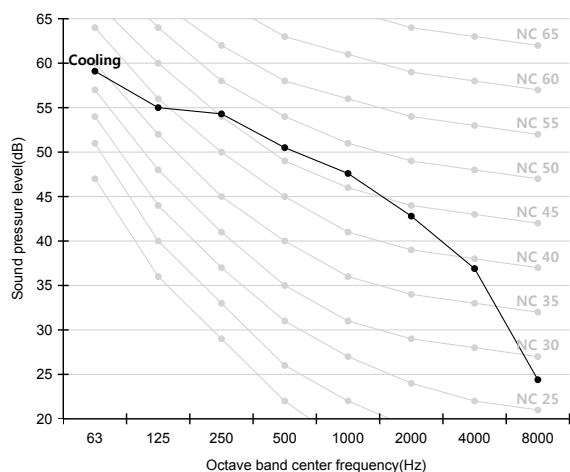
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

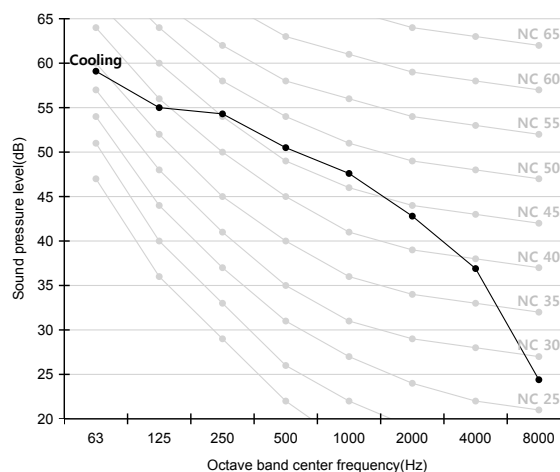
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

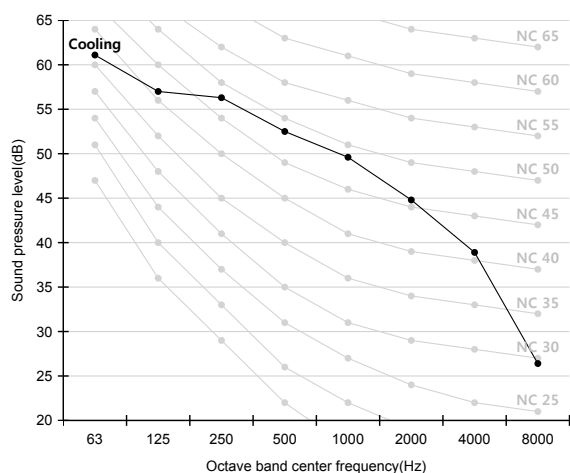
1) AC140JXADEH/EU (IDU : AC140JNCDEH/EU)



2) AC140JXADGH/EU (IDU : AC140JNCDEH/EU)



3) AC160JXADGH/EU (IDU : AC160JNCDEH/EU)



11 Sound power level

Outdoor

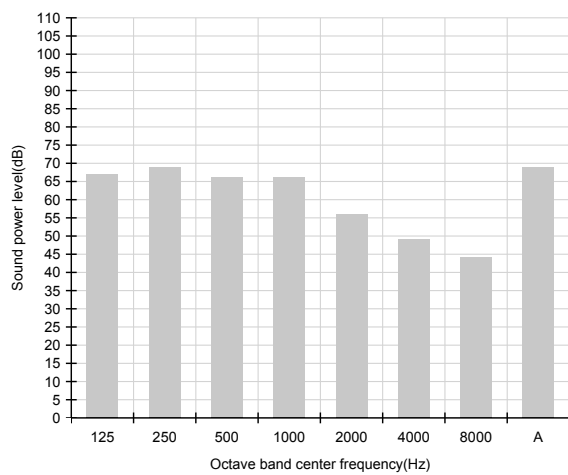
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
- 2) Reference power : 1pW.
- 3) Measured according to ISO 3741.

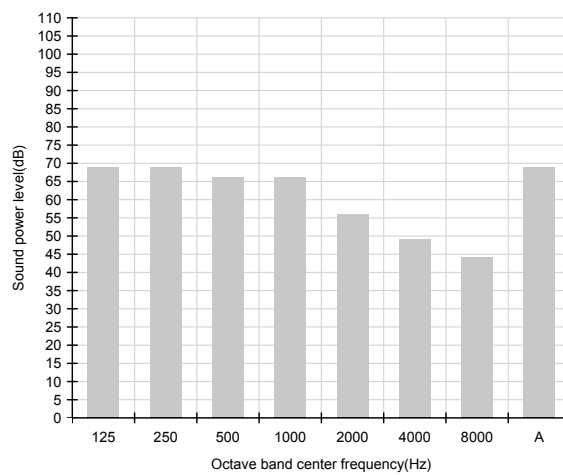
Unit: dB(A)

Model	Power
AC100JXADEH/EU (IDU : AC100JNCDEH/EU)	69.0
AC100JXADGH/EU (IDU : AC100JNCDEH/EU)	69.0
AC120JXADEH/EU (IDU : AC120JNCDEH/EU)	70.0
AC120JXADGH/EU (IDU : AC120JNCDEH/EU)	70.0

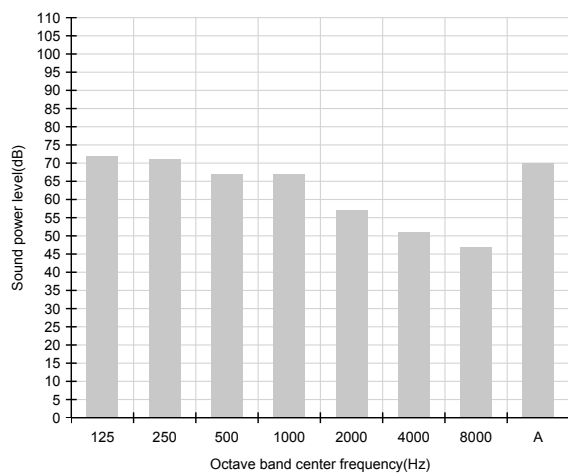
1) AC100JXADEH/EU (IDU : AC100JNCDEH/EU)



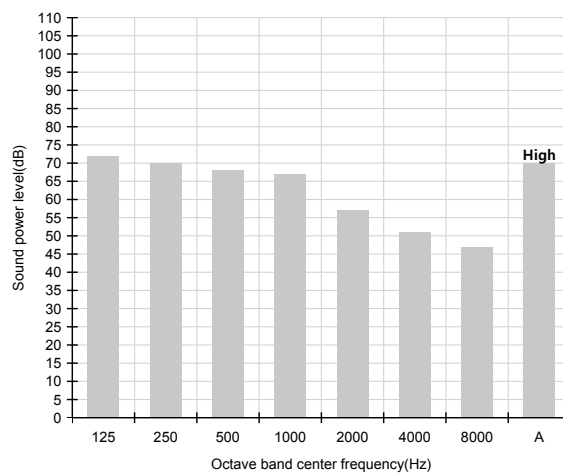
2) AC100JXADGH/EU (IDU : AC100JNCDEH/EU)



3) AC120JXADEH/EU (IDU : AC120JNCDEH/EU)



4) AC120JXADGH/EU (IDU : AC120JNCDEH/EU)



11 Sound power level

Outdoor

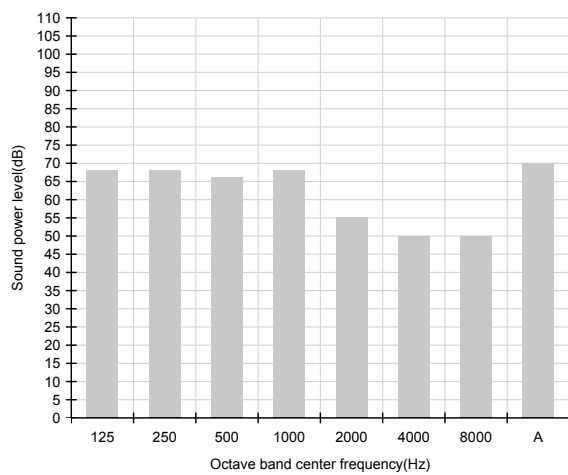
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
- 2) Reference power : 1pW.
- 3) Measured according to ISO 3741.

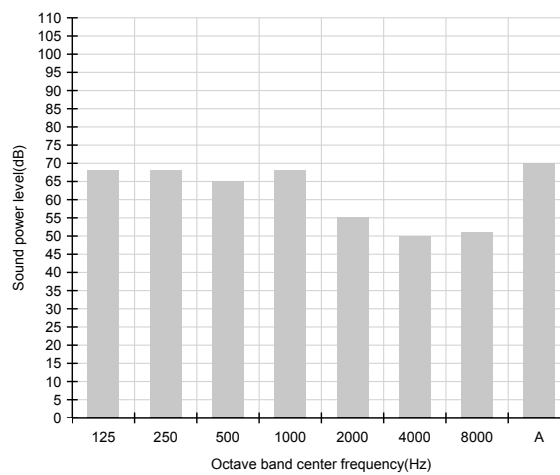
Unit: dB(A)

Model	Power
AC140JXADEH/EU (IDU : AC140JNCDEH/EU)	70.0
AC140JXADGH/EU (IDU : AC140JNCDEH/EU)	70.0
AC160JXADGH/EU (IDU : AC160JNCDEH/EU)	73.0

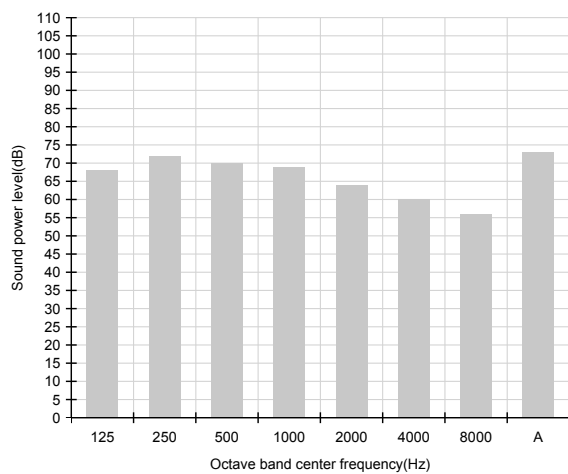
1) AC140JXADEH/EU (IDU : AC140JNCDEH/EU)



2) AC140JXADGH/EU (IDU : AC140JNCDEH/EU)



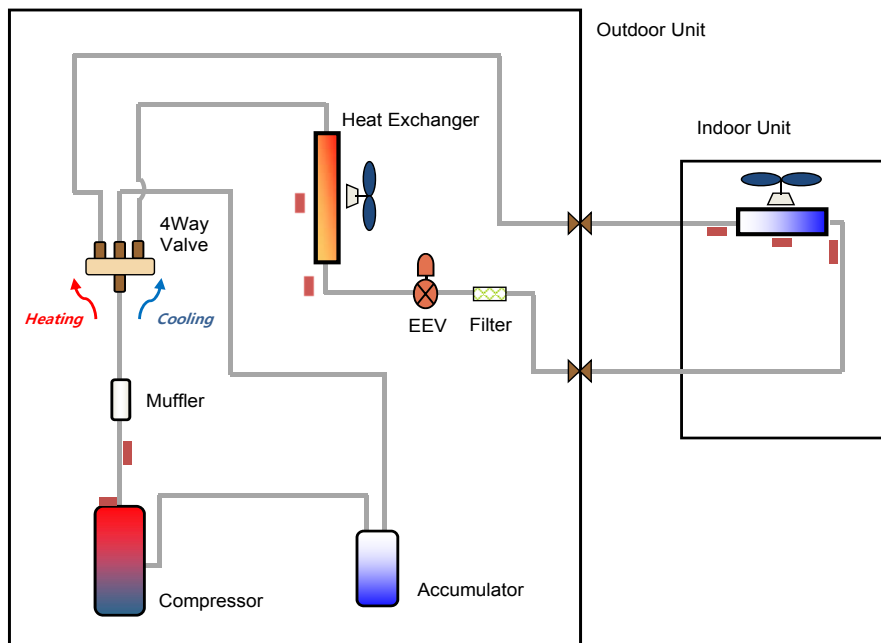
3) AC160JXADGH/EU (IDU : AC160JNCDEH/EU)



12 Cycle diagram

Outdoor

AC100JXADGH/EU, AC100JXADEH/EU, AC120JXADGH/EU, AC120JXADEH/EU, AC140JXADGH/EU, AC140JXADEH/EU, AC160JXADGH/EU



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

13 Dimensional drawing

Outdoor

AC100JXADGH/EU, AC100JXADEH/EU, AC120JXADGH/EU, AC120JXADEH/EU

Units : mm / inches

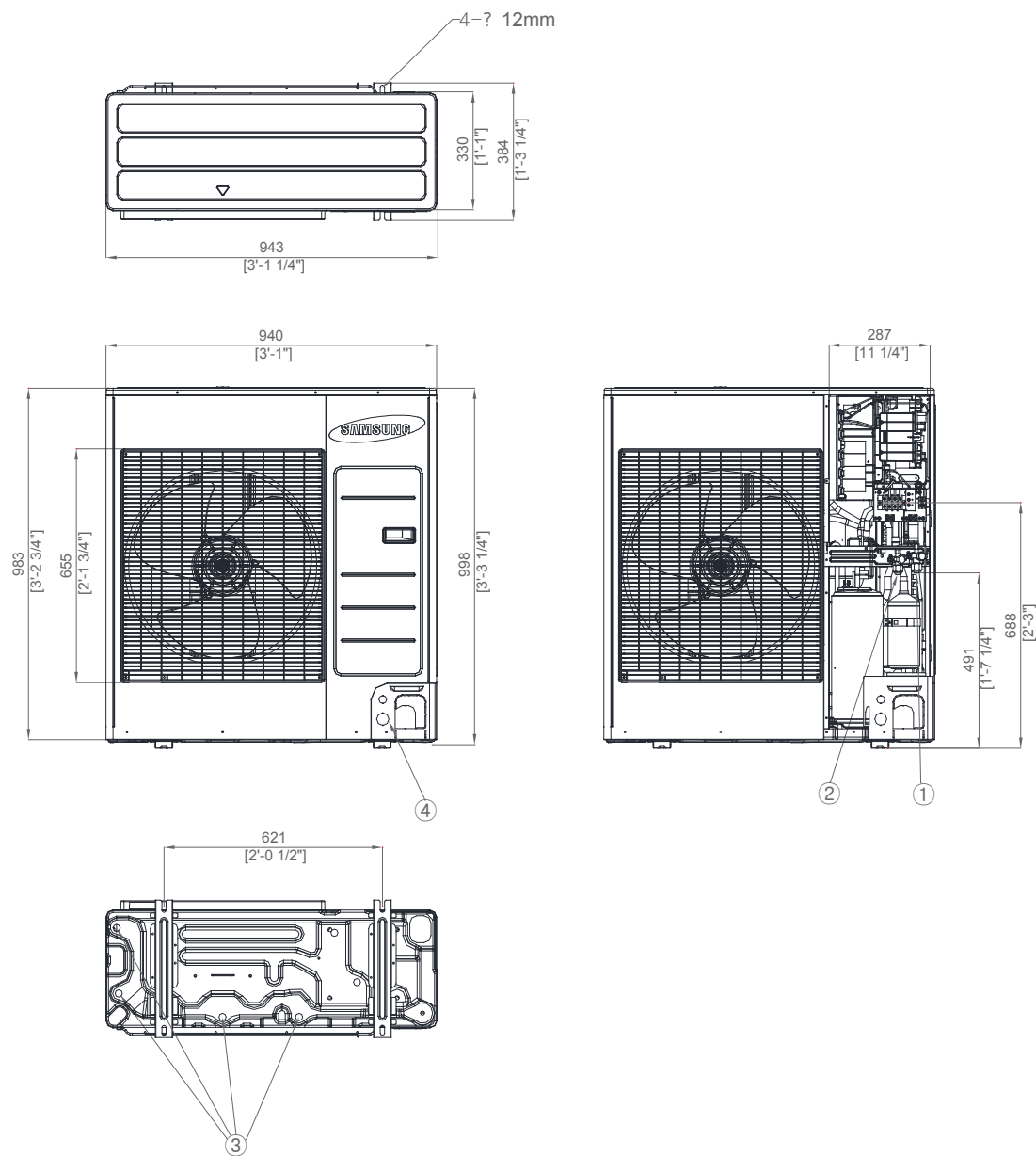


Table of descriptions

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

AC140JXADGH/EU, AC140JXADEH/EU

Units : mm / inches

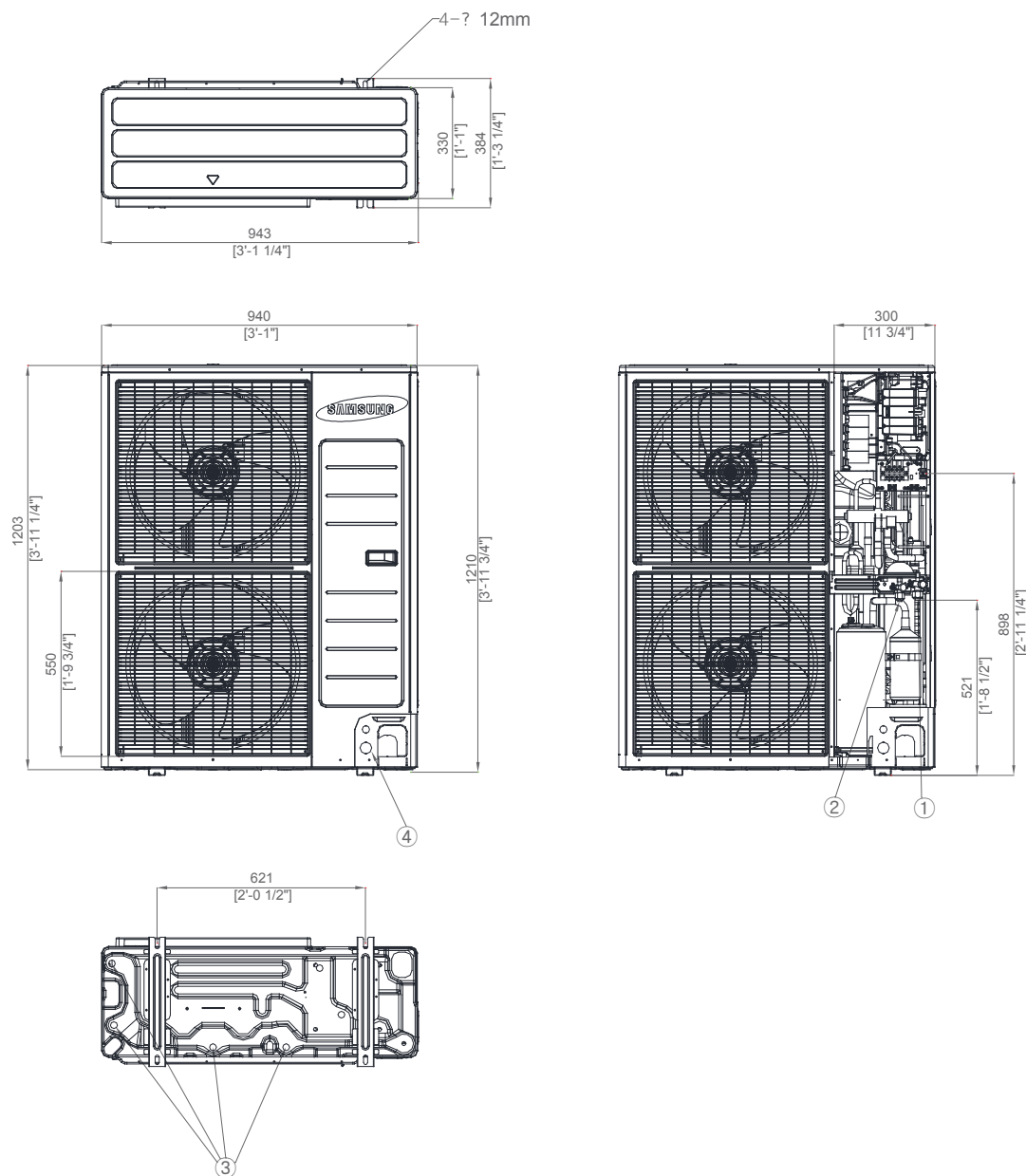


Table of descriptions

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

AC160JXADGH/EU

Units : mm / inches

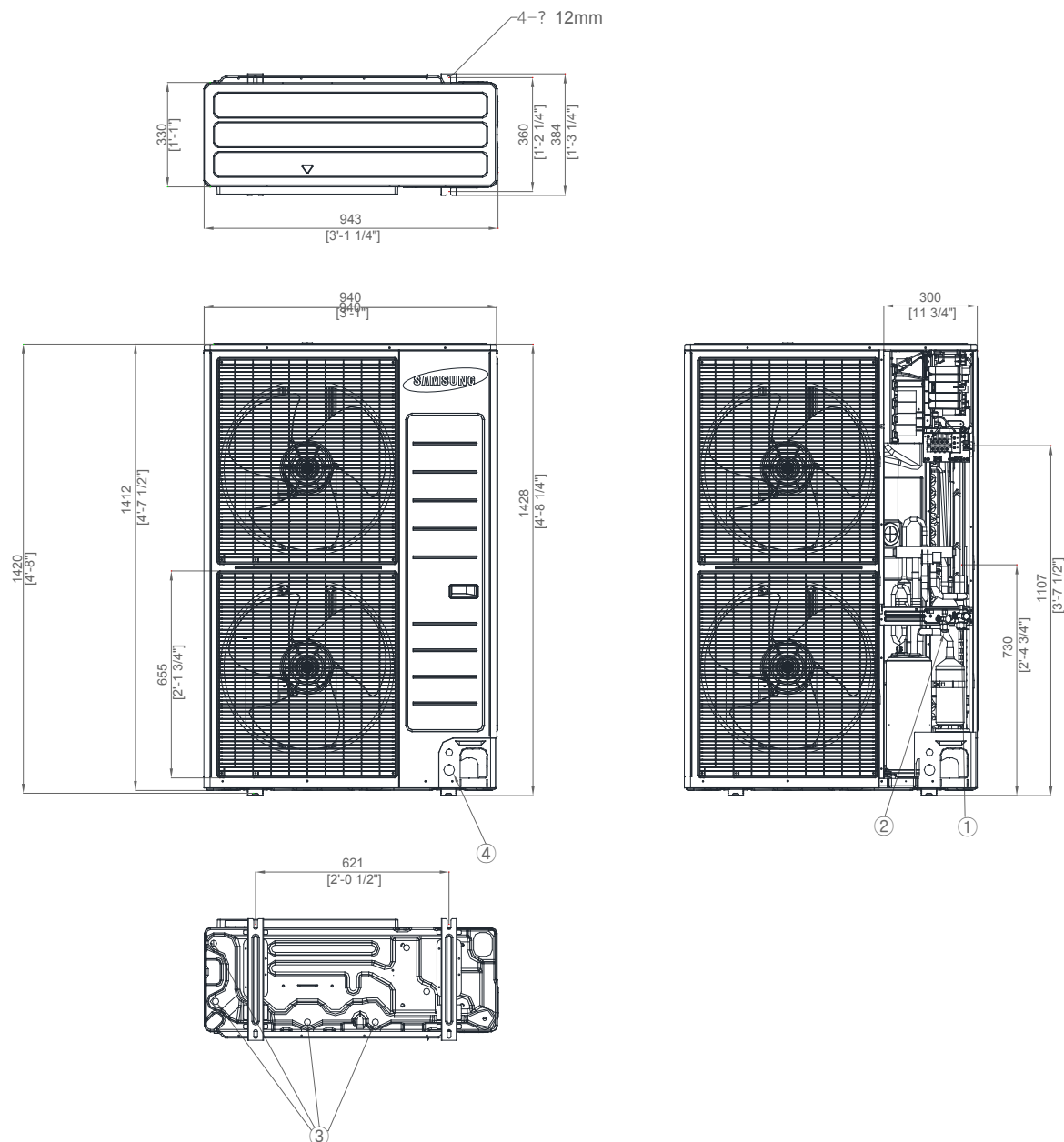


Table of descriptions


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


AC100JNCDEH/EU + AC100JXADGH/EU

Cooling



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


Heating



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


AC100JNCDEH/EU + AC100JXADEH/EU

Cooling



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

Heating




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

14 Capacity correction

Outdoor


AC120JNCDEH/EU + AC120JXADEH/EU

Cooling



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


Heating



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87
	25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	0	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	-30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87


AC120JNCDEH/EU + AC120JXADGH/EU

Cooling



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

Heating




		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87
	25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	0	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	-30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87

14 Capacity correction

Outdoor


AC160JNCDEH/EU + AC160JXADGH/EU

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	25	-	-	-	-	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	20	-	-	-	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	15	-	-	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	10	-	0.99	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	5	1.00	0.99	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	0	1.00	0.99	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82
	-5	1.00	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.89	0.88	0.87	0.85	0.84	0.83	0.82
	-10	-	0.97	0.97	0.95	0.94	0.93	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.81
	-15	-	-	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82	0.81
	-20	-	-	-	0.94	0.93	0.92	0.91	0.89	0.88	0.87	0.85	0.84	0.83	0.82	0.81
	-25	-	-	-	-	0.93	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.81	0.80
	-30	-	-	-	-	-	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.80

Heating



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

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