

# SINGLE

## Technical Data Book

Big Ceiling for Africa(R410A, 50Hz, HP)



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



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# 1 Nomenclature

## Indoor Units

### Model Names

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

### (1) Classification

AC	SINGLE
AM	VRF

### (2) Capacity

x 1/10 kW (3 digits)
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### (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

<b>AC</b>	<b>100</b>	<b>J</b>	<b>X</b>	<b>A</b>	<b>D</b>	<b>E</b>	<b>H</b>	/	<b>EU</b>
(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	AC100JNCDEH1EU	AC120JNCDEH/EU			
	Outdoor Unit		AC100JXADEH/EU	AC100JXADGH/EU	AC100JXADEH1EU	AC120JXADEH/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	2.80 / 10.00 / 12.00	3.50 / 12.00 / 13.50		
			Btu/h	9,600 / 34,100 / 40,900	9,600 / 34,100 / 40,900	9,600 / 34,100 / 40,900	11,900 / 40,900 / 46,100		
		Heating(Min/Std/Max)	kW	2.90 / 11.20 / 15.50	2.90 / 11.20 / 15.50	2.90 / 11.20 / 15.50	3.80 / 13.00 / 16.50		
			Btu/h	9,900 / 38,200 / 52,900	9,900 / 38,200 / 52,900	9,900 / 38,200 / 52,900	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	0.75 / 3.45 / 5.00	0.90 / 4.70 / 5.50	
			Heating(Min/Std/Max)	kW	0.65 / 3.15 / 5.50	0.65 / 3.15 / 5.50	0.65 / 3.20 / 5.50	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	4.30 / 15.00 / 21.50	5.10 / 20.40 / 23.50	
			Heating(Min/Std/Max)	A	3.40 / 13.70 / 21.80	1.40 / 4.90 / 9.00	3.40 / 14.10 / 21.80	3.90 / 16.40 / 22.80	
		MCA	A	26.70 (MCA)	14.70 (MCA)	24.70 (MCA)	26.70 (MCA)		
		MFA	A	30.00	16.20	30.00	30.00		
	Energy Efficiency	EER (Nominal Cooling)		-	2.90	2.90	2.55		
		COP (Nominal Heating)		-	3.56	3.56	3.47		
		Energy Grade		-	Energy Grade(C) A+	Energy Grade(C) A+	-	Energy Grade(C) 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	50	50	50	
Max. Height			m	30	30	30	30		
Field Wiring	Power Source Wire		Ø, mm	-	-	2.5~4.0	-		
	Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410	R410A	R410A		
	Control Method		-	-	-	-	-		
	Factory Charging		kg	2.80	2.80	2.80	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	153 x 1	244 x 1	
		Air Flow Rate	High/Mid/Low	CMM	26.00 / 23.00 / 19.00	26.00 / 23.00 / 19.00	26.00 / 23.00 / 19.00	30.00 / 24.00 / 20.00	
				l/s	433.33 / 383.33 / 316.67	433.33 / 383.33 / 316.67	433.33 / 383.33 / 316.67	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	48.0 / 44.0 / 40.0	44.0 / 41.0 / 37.0	
		Power	Cooling	dB(A)	60.0	60.0	-	62.0	
	External Dimension	Net Weight		kg	42.00	42.00	33.00	42.00	
		Shipping Weight		kg	48.00	48.00	39.00	48.00	
		Net Dimensions (WxHxD)		mm	1,650 x 235 x 675	1,650 x 235 x 675	1,350 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	1,439 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	-	-	-	-	
	Additional Accessories	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	1,2,220-240,50		
	Compressor	Type	-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary		
		Model		-	UG8T300LNBJU	UG8T300LNBJU	UG8T300LNBJU	UG5T450FUEJX	
		Output		kW	2.82	2.82	2.82	4.12	
	Oil	Type	-		POE	POE	POE	POE	
					-	-	-	-	
	Fan	Air Flow Rate	Cooling	CMM	68.00	68.00	68.00	70.00	
				l/s	1,133.33	1,133.33	1,133.33	1,166.67	
	Sound	Pressure	Cooling/Heating	dB(A)	52.0 / 54.0	52.0 / 54.0	52.0 / 54.0	54.0 / 56.0	
		Power	Cooling	dB(A)	69.0	69.0	-	70.0	
	External Dimension	Net Weight		kg	70.00	72.00	70.00	77.00	
		Shipping Weight		kg	74.00	76.00	74.00	82.00	
		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 for product improvement.

\*1) Mode

- HP : Heat Pump, HR : Heat Recovery

\*2) 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 : 5.0m, Level differences : 0m

\*3) 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 : 5.0m, Level differences : 0m

\*4) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

\*5) These products contain R410A which is fluorinated greenhouse gas.

# 2 Specifications

## Ceiling

Type			Ceiling	Ceiling	Ceiling	Ceiling		
Model Name	Indoor Unit		AC120JNCDEH/EU	AC140JNCDEH/EU	AC140JNCDEH/EU	AC160JNCDEH/EU		
	Outdoor Unit		AC120JXADGH/EU	AC140JXADGH/EU	AC140JXADGH/EU	AC160JXADGH/EU		
System	Mode			Heat Pump	Heat Pump	Heat Pump	Heat Pump	
				-	-	-	-	
	Capacity	Cooling(Min/Std/Max)	kW	3.50 / 12.00 / 13.50	4.30 / 14.00 / 15.40	4.30 / 14.00 / 15.40	4.30 / 15.00 / 17.30	
			Btu/h	11,900 / 40,900 / 46,100	14,700 / 47,800 / 52,500	14,700 / 47,800 / 52,500	14,700 / 51,200 / 59,000	
		Heating(Min/Std/Max)	kW	3.80 / 13.00 / 16.50	4.70 / 16.00 / 18.00	4.70 / 16.00 / 18.00	4.70 / 17.50 / 19.00	
			Btu/h	13,000 / 44,400 / 56,300	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 / 4.70 / 5.50	0.90 / 4.65 / 5.50	0.90 / 4.65 / 5.50	0.90 / 5.28 / 6.40
			Heating(Min/Std/Max)	kW	0.70 / 3.75 / 5.60	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	1.70 / 7.20 / 9.50	5.10 / 20.20 / 23.50	1.70 / 7.10 / 9.50	1.70 / 8.20 / 9.80
			Heating(Min/Std/Max)	A	1.50 / 5.80 / 9.10	4.50 / 19.30 / 23.50	1.70 / 6.80 / 8.80	1.70 / 7.50 / 10.00
		MCA	A	14.70 (MCA)	26.70 (MCA)	14.70 (MCA)	14.70 (MCA)	
		MFA	A	16.20	30.00	16.20	16.20	
	Energy Efficiency	EER (Nominal Cooling)		-	2.55	3.01	3.01	2.84
		COP (Nominal Heating)		-	3.47	3.61	3.61	3.60
		Energy Grade		-	Energy Grade(C) 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	75	75	75
Max. Height			m	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	2.90	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	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
		Air Flow Rate	High/Mid/Low	CMM	30.00 / 24.00 / 20.00	34.00 / 27.00 / 23.00	34.00 / 27.00 / 23.00	37.00 / 31.00 / 26.00
		External Static Pressure	Min/Std/Max	mmAq	-	-	-	-
	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)	44.0 / 41.0 / 37.0	46.0 / 42.0 / 38.0	46.0 / 42.0 / 38.0
	Power		Cooling	dB(A)	62.0	64.0	64.0	-
	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	-	-	-	-
	Additional Accessories	Shipping Dimensions (WxHxD)		mm	-	-	-	-
		Drain pump	Drain pump	-	-	-	-	-
			Max. Lifting	mm/liter/h	-	-	-	-
		Air Filter		-	-	-	-	-
Outdoor Unit	Power Supply		Ø, #, V, Hz	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50	3,4,380-415,50	
	Compressor	Type	-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
		Model		-	UG5T450FUFJX	UG5T450FUEJX	UG5T450FUFJX	UG5T450FXAJX
		Output		kW	4.12	4.12	4.12	4.01
	Fan	Oil	Type	-	POE	POE	POE	POE
			Air Flow Rate	Cooling	CMM	70.00	100.00	100.00
	Sound	Pressure	Cooling/Heating	dB(A)	54.0 / 56.0	53.0 / 54.0	53.0 / 54.0	56.0 / 58.0
		Power	Cooling	dB(A)	70.0	70.0	70.0	-
	External Dimension	Net Weight		kg	79.00	88.00	90.00	96.00
		Shipping Weight		kg	84.00	98.00	100.00	106.00
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	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	-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 for product improvement.

\*1) Mode

- HP : Heat Pump, HR : Heat Recovery

\*2) 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 : 5.0m, Level differences : 0m

\*3) 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 : 5.0m, Level differences : 0m

\*4) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

\*5) 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	2.86	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

- 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

### AC100JNCDEH1EU + AC100JXADEH1EU

#### 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	4.27	2.66	5.47	4.37	2.72	5.60	4.48	2.79	5.74	4.59	2.86	5.88	4.70	2.93	6.02	4.82	3.00

#### 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

### 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	3.08	6.39	5.11	3.19

#### 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

- 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 + 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
-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
-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

### 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
-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
-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

- 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 + 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

### 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	15.81	12.64	2.23	16.19	12.96	2.29	16.59	13.27	2.34	17.00	13.60	2.40	17.41	13.93	2.46	17.83	14.26	2.52
21.0	14.88	11.90	4.00	15.24	12.19	4.10	15.62	12.49	4.20	16.00	12.80	4.30	16.38	13.11	4.40	16.78	13.42	4.51
35.0	13.95	11.16	6.02	14.29	11.43	6.17	14.64	11.71	6.32	15.00	12.00	6.48	15.36	12.29	6.64	15.73	12.58	6.79
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	5.10	17.68	5.05	17.50	5.00	17.33	4.95	17.15	4.90	16.98	4.85
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

- 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

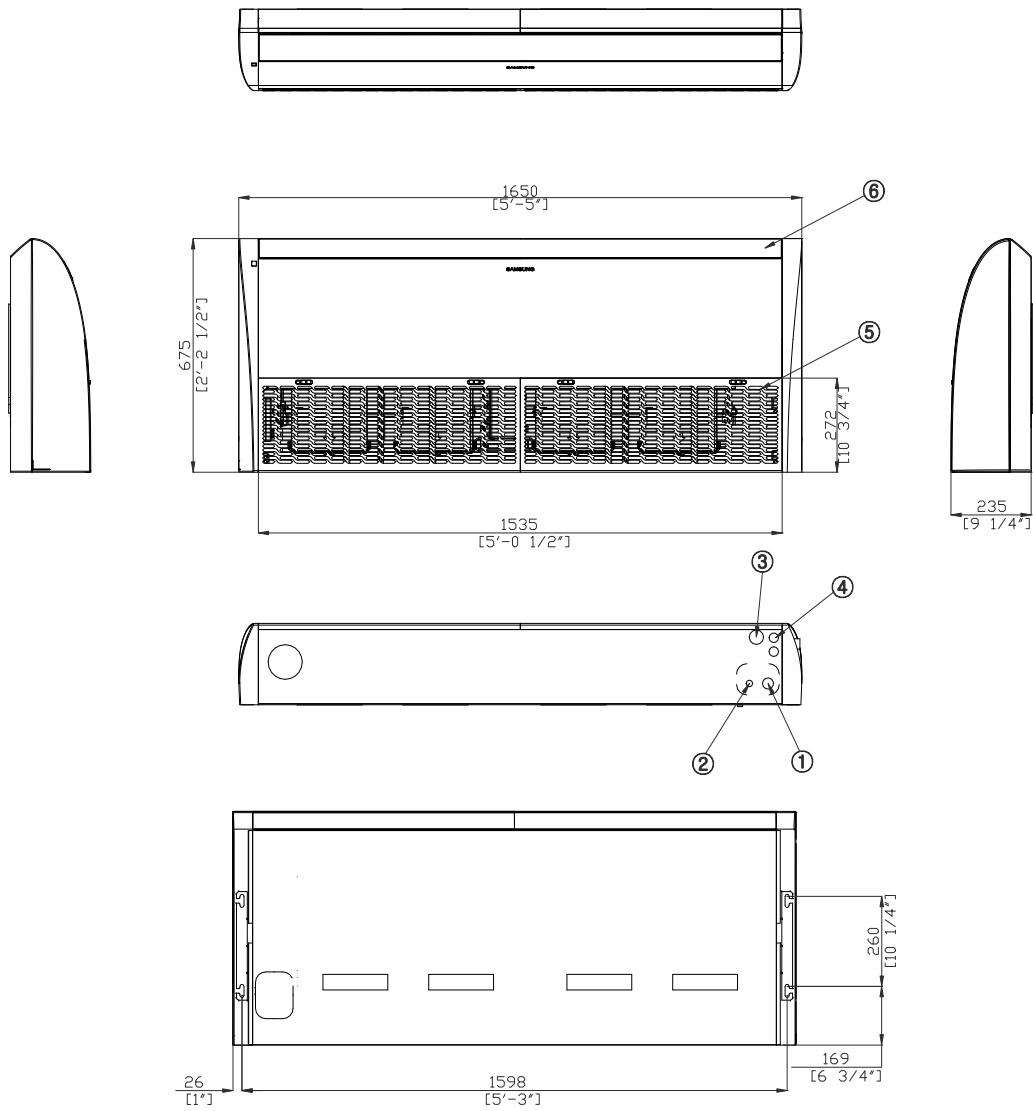


Table of descriptions

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	

# 4 Dimensional drawing

## Ceiling

AC100JNCDEH1EU

Units : mm/inches

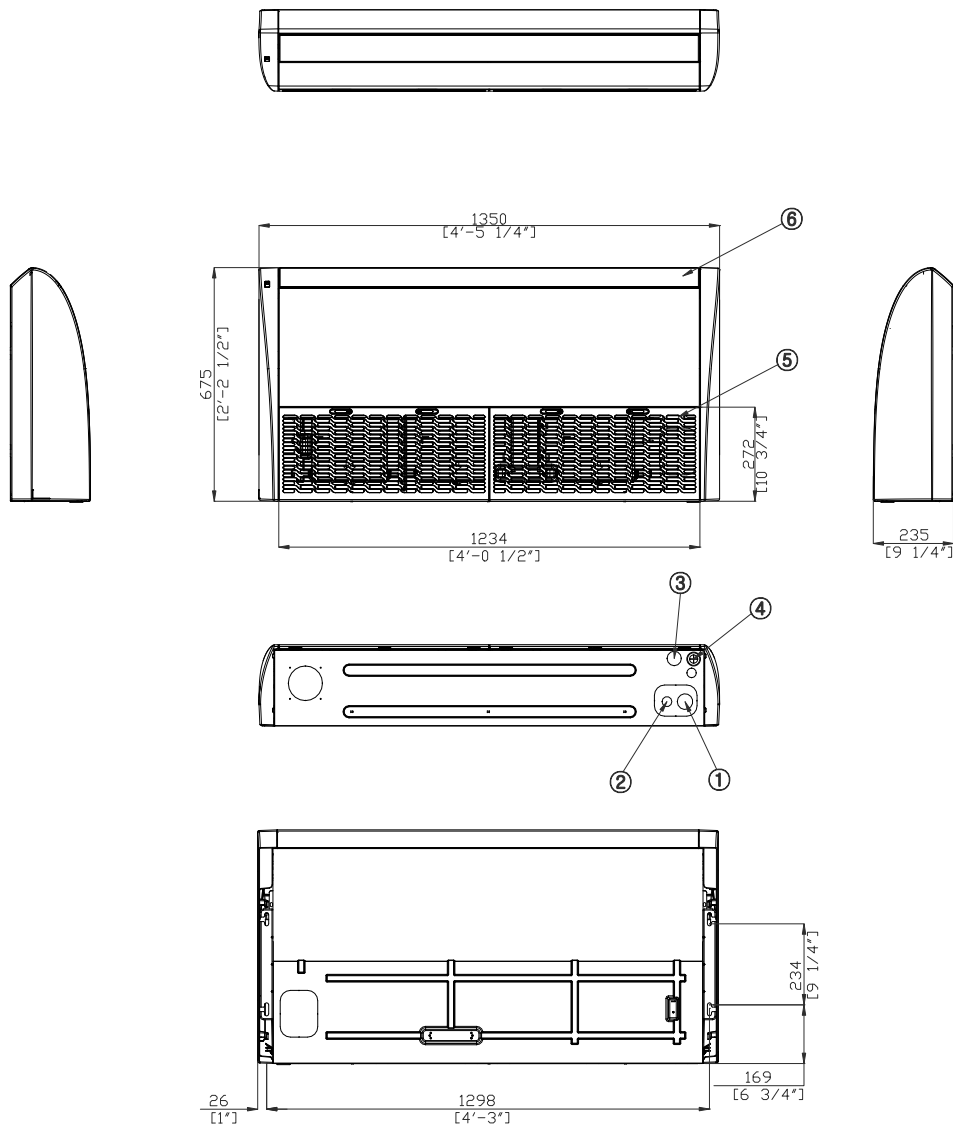


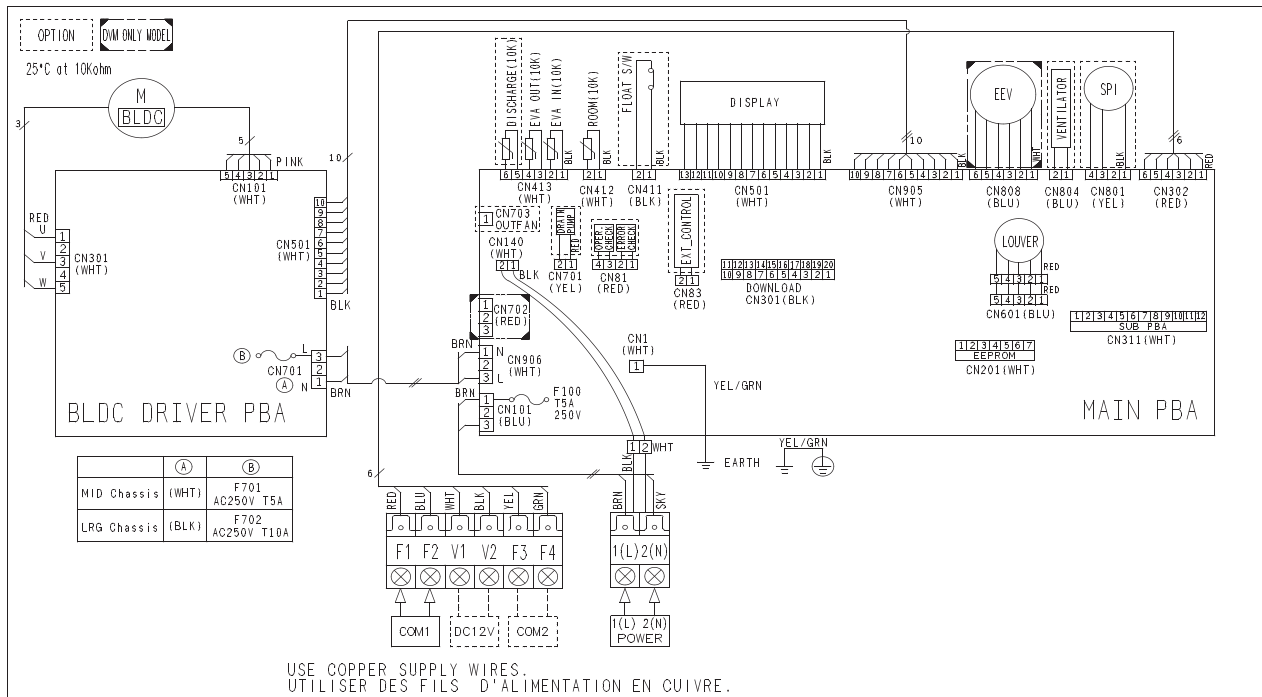
Table of descriptions

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

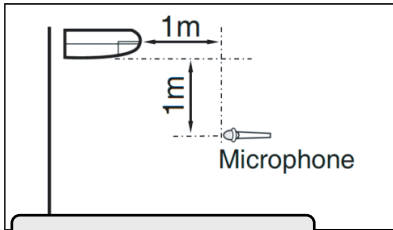
AC100JNCDEH/EU, AC100JNCDEH1EU, AC120JNCDEH/EU, AC140JNCDEH/EU, AC160JNCDEH/EU



# 6 Sound pressure level

## Ceiling

Unit: dB(A)



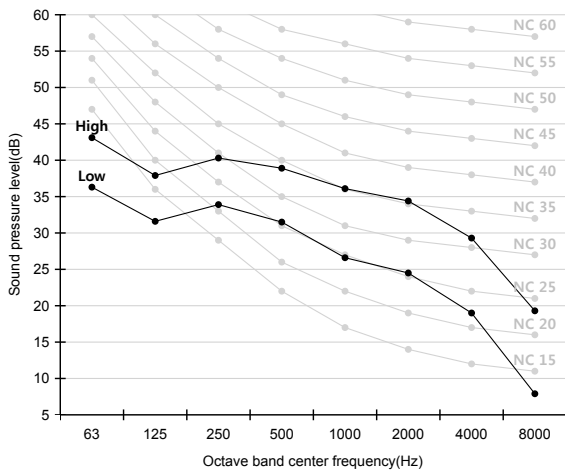
Model	High	Low
AC100JNCDEH/EU (ODU : AC100JXADEH/EU)	42.0	34.0
AC100JNCDEH/EU (ODU : AC100JXADGH/EU)	42.0	34.0
AC100JNCDEH1EU (ODU : AC100JXADEH1EU)	48.0	40.0
AC120JNCDEH/EU (ODU : AC120JXADEH/EU)	44.0	37.0

### Note

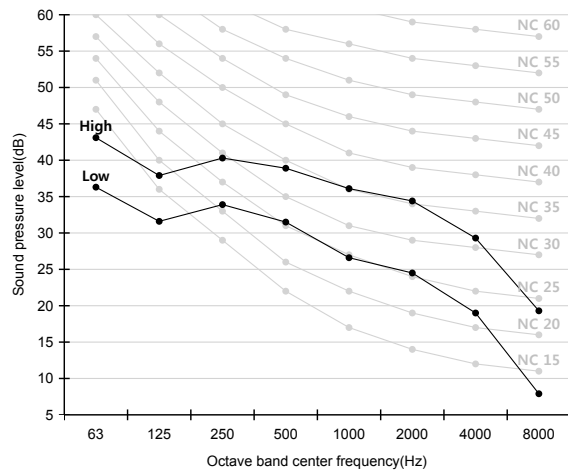
- These operation values were obtained in an anechoic room. - Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

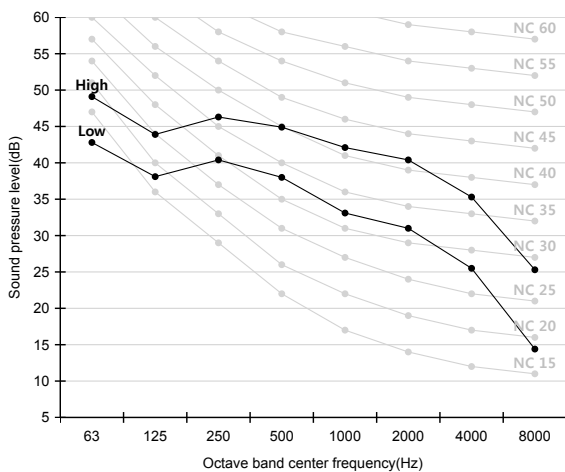
1) AC100JNCDEH/EU (ODU : AC100JXADEH/EU)



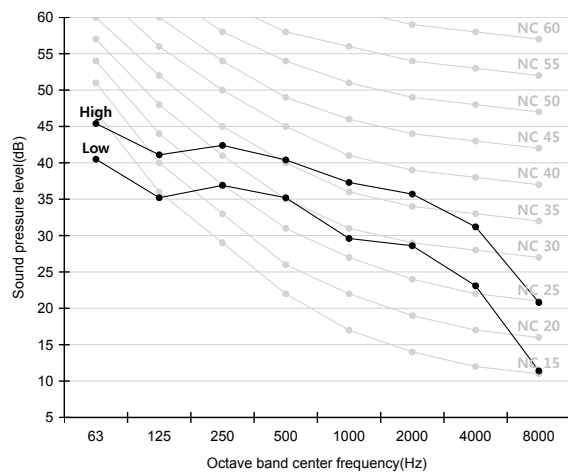
2) AC100JNCDEH/EU (ODU : AC100JXADGH/EU)



3) AC100JNCDEH1EU (ODU : AC100JXADEH1EU)



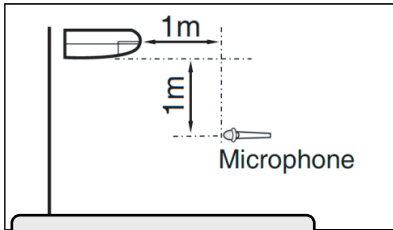
4) AC120JNCDEH/EU (ODU : AC120JXADEH/EU)



# 6 Sound pressure level

## Ceiling

Unit: dB(A)



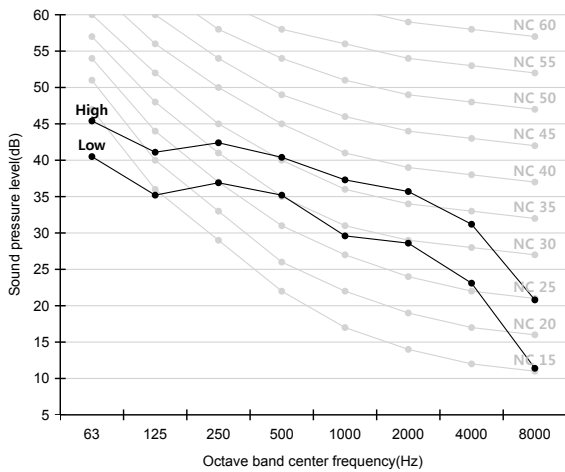
Model	High	Low
AC120JNCDEH/EU (ODU : AC120JXADGH/EU)	44.0	37.0
AC140JNCDEH/EU (ODU : AC140JXADEH/EU)	46.0	38.0
AC140JNCDEH/EU (ODU : AC140JXADGH/EU)	46.0	38.0
AC160JNCDEH/EU (ODU : AC160JXADGH/EU)	51.0	44.0

### Note

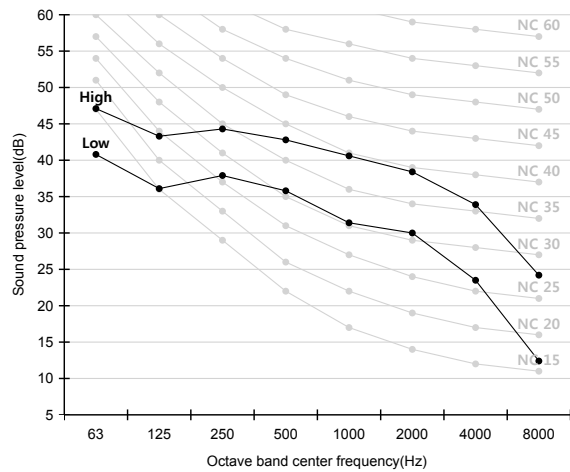
- These operation values were obtained in an anechoic room. - Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

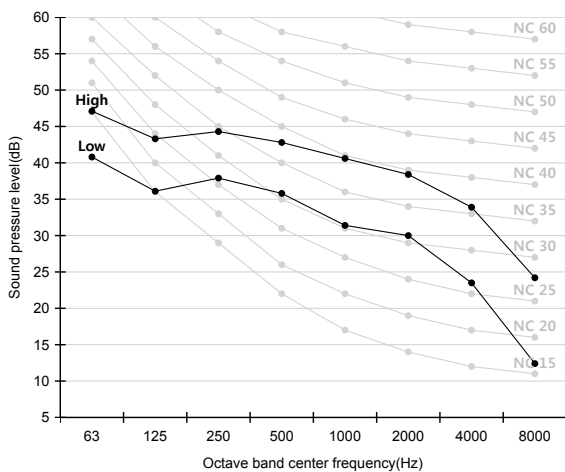
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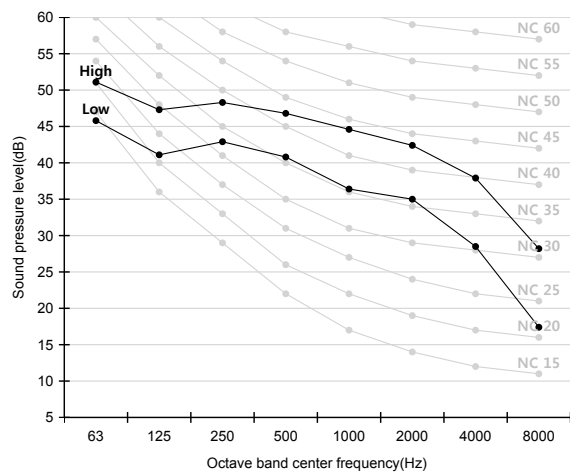
2) AC140JNCDEH/EU (ODU : AC140JXADEH/EU)



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



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

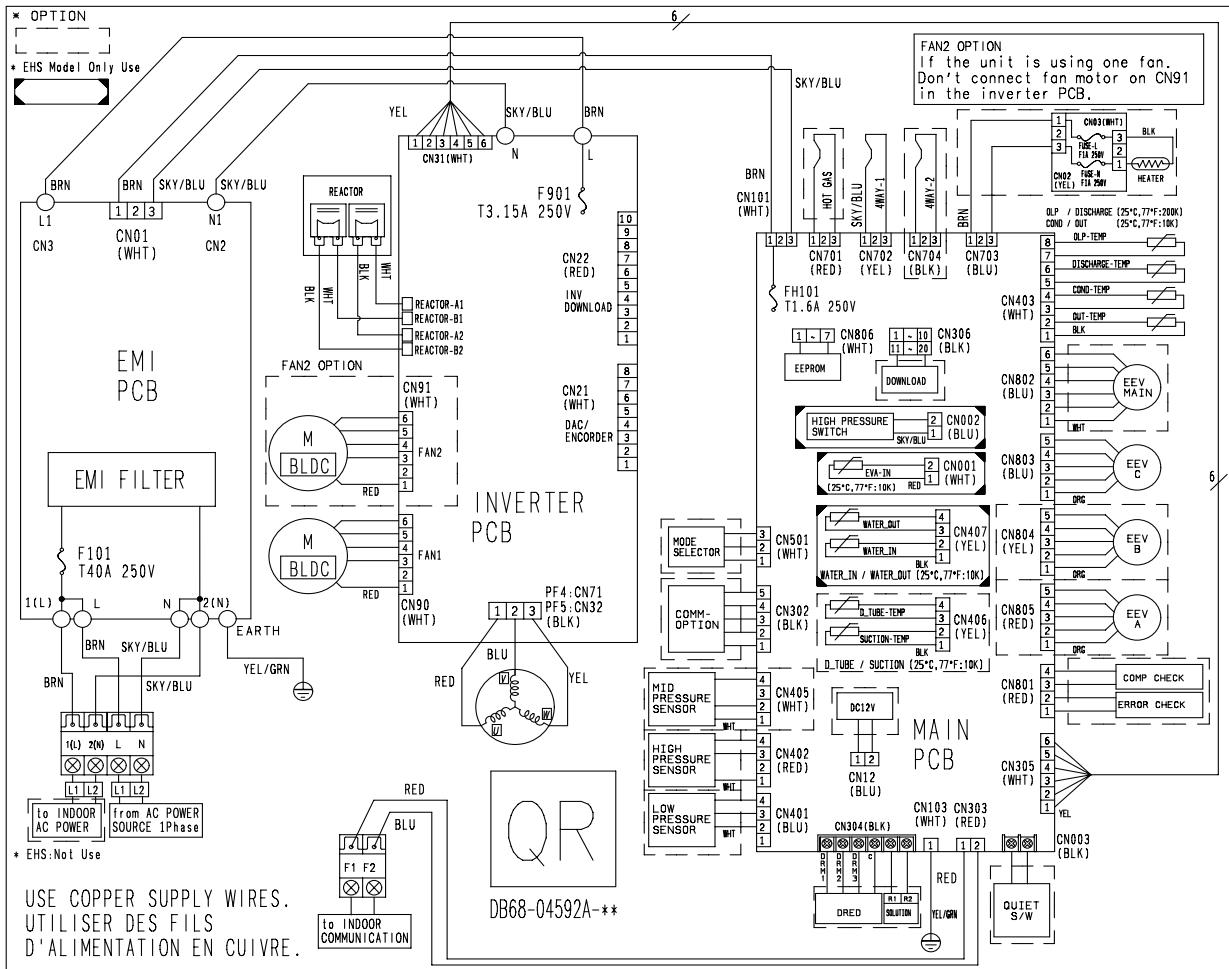




# 7 Electrical wiring diagram

## Outdoor

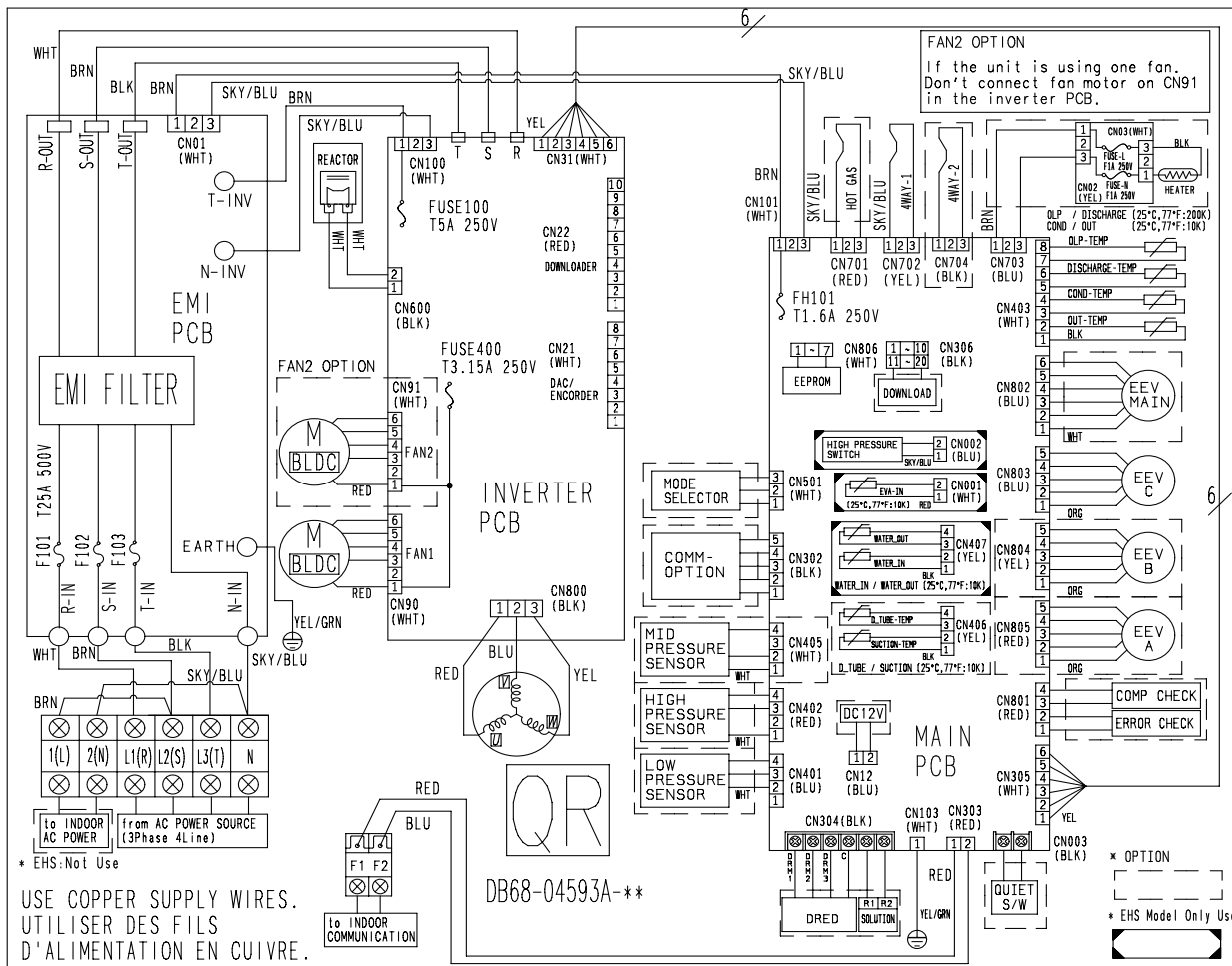
AC100JXADEH/EU, AC100JXADEH1EU, AC120JXADEH/EU, AC140JXADEH/EU, AC160JXADGH/EU



# 7 Electrical wiring diagram

## Outdoor

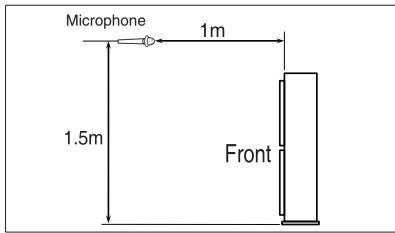
AC100JXADGH/EU, AC120JXADGH/EU, AC140JXADGH/EU



\* EHS:Not Use  
USE COPPER SUPPLY WIRES.  
UTILISER DES FILS  
D'ALIMENTATION EN CUIVRE.

# 8 Sound pressure level

## Outdoor



Unit: dB(A)

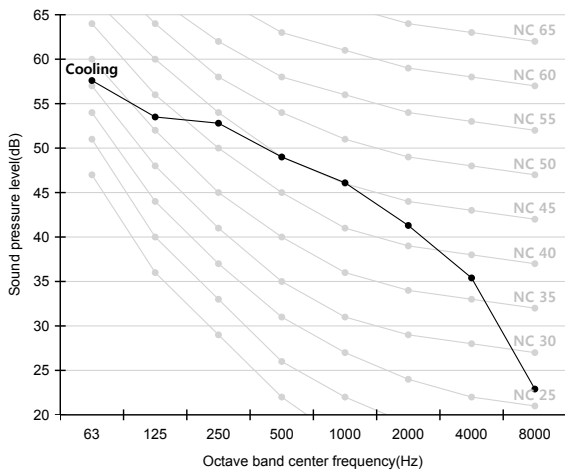
Model	Cooling	Heating
AC100JXADEH/EU (IDU : AC100JNCDEH/EU)	52.0	54.0
AC100JXADGH/EU (IDU : AC100JNCDEH/EU)	52.0	54.0
AC100JXADEH1EU (IDU : AC100JNCDEH1EU)	52.0	54.0
AC120JXADEH/EU (IDU : AC120JNCDEH/EU)	54.0	56.0

### Note

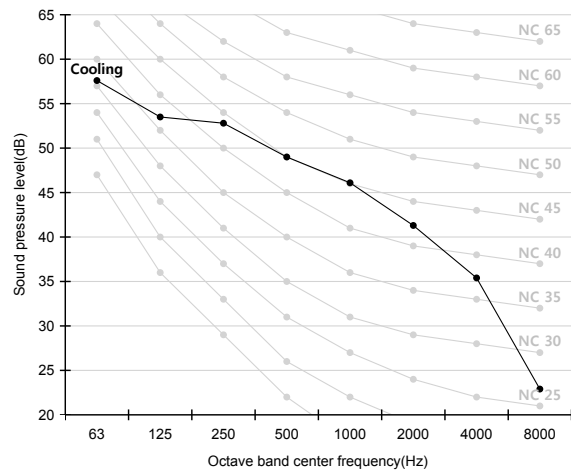
- These operation values were obtained in an anechoic room. - Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

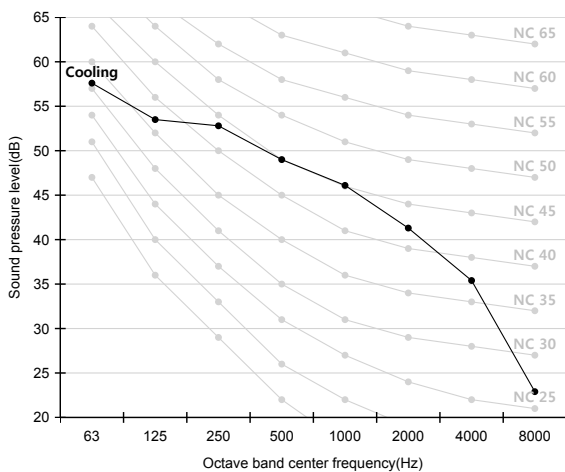
1) AC100JXADEH/EU (IDU : AC100JNCDEH/EU)



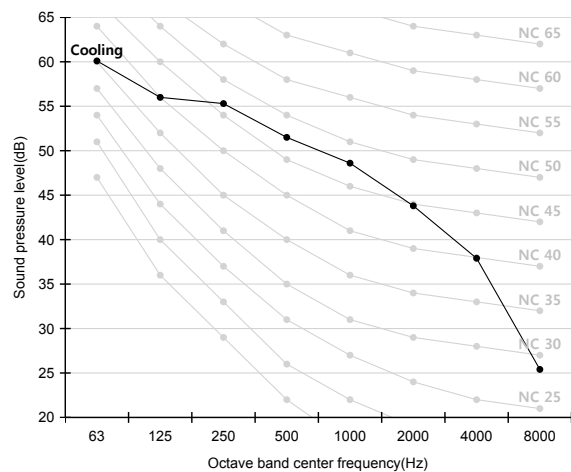
2) AC100JXADGH/EU (IDU : AC100JNCDEH/EU)



3) AC100JXADEH1EU (IDU : AC100JNCDEH1EU)

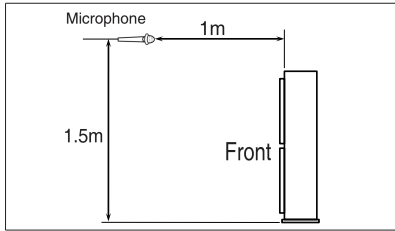


4) AC120JXADEH/EU (IDU : AC120JNCDEH/EU)



# 8 Sound pressure level

## Outdoor



Unit: dB(A)

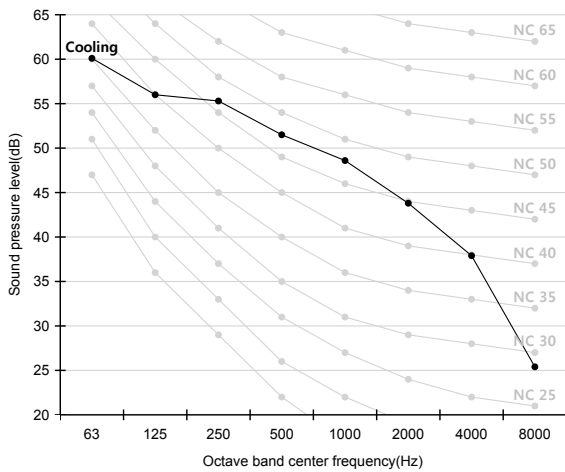
Model	Cooling	Heating
AC120JXADGH/EU (IDU : AC120JNCDEH/EU)	54.0	56.0
AC140JXADEH/EU (IDU : AC140JNCDEH/EU)	53.0	54.0
AC140JXADGH/EU (IDU : AC140JNCDEH/EU)	53.0	54.0
AC160JXADGH/EU (IDU : AC160JNCDEH/EU)	56.0	58.0

### Note

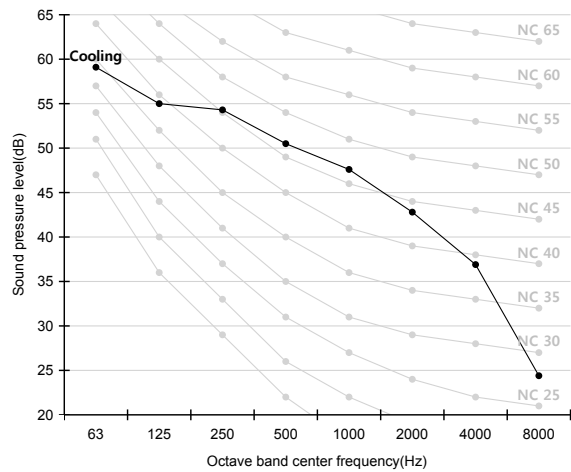
- These operation values were obtained in an anechoic room. - Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

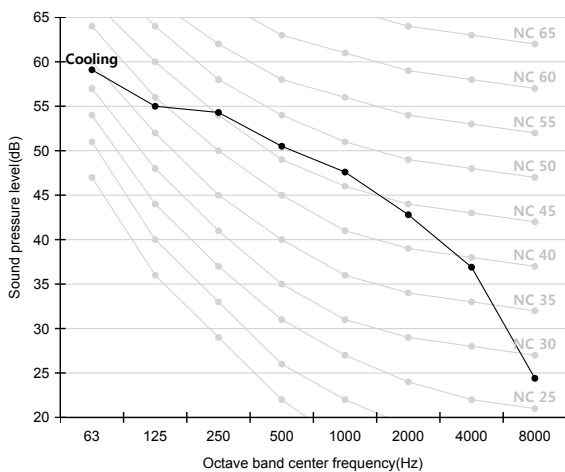
1) AC120JXADGH/EU (IDU : AC120JNCDEH/EU)



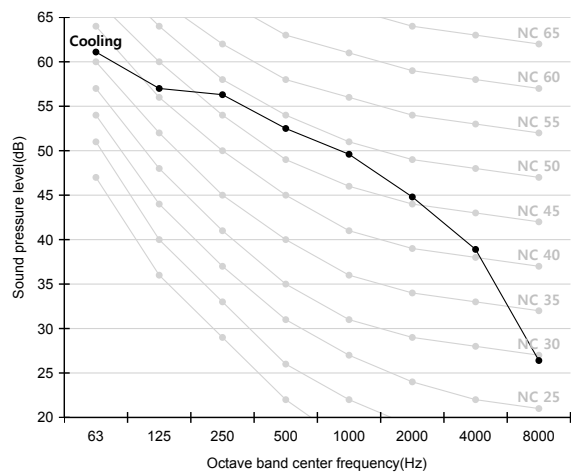
2) AC140JXADEH/EU (IDU : AC140JNCDEH/EU)



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



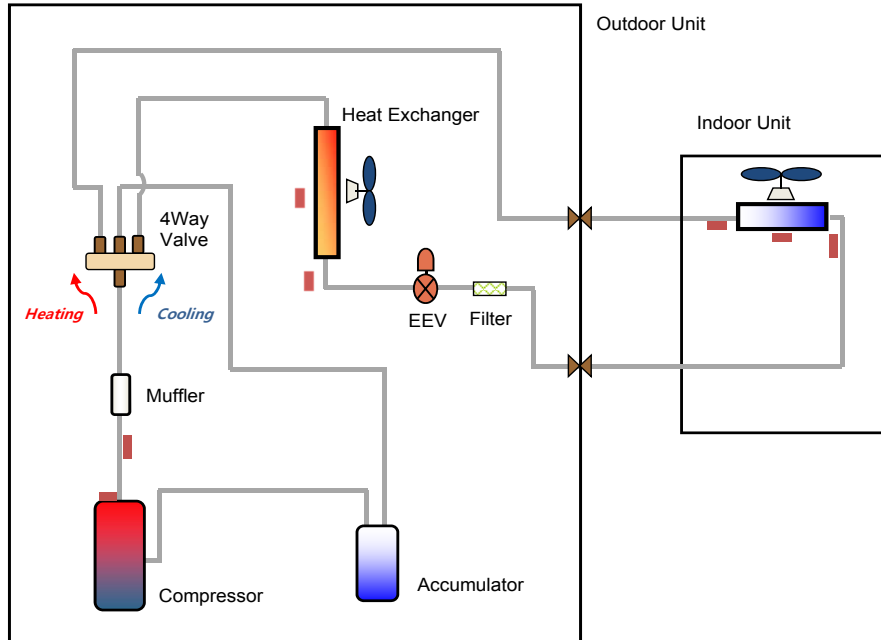
4) AC160JXADGH/EU (IDU : AC160JNCDEH/EU)



# 9 Cycle diagram

## Outdoor

AC100JXADGH/EU, AC100JXADEH/EU, AC100JXADEH1EU, 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

# 10 Dimensional drawing

## Outdoor

AC100JXADGH/EU, AC100JXADEH/EU, AC100JXADEH1EU, AC120JXADGH/EU, AC120JXADEH/EU

Units : mm / inches

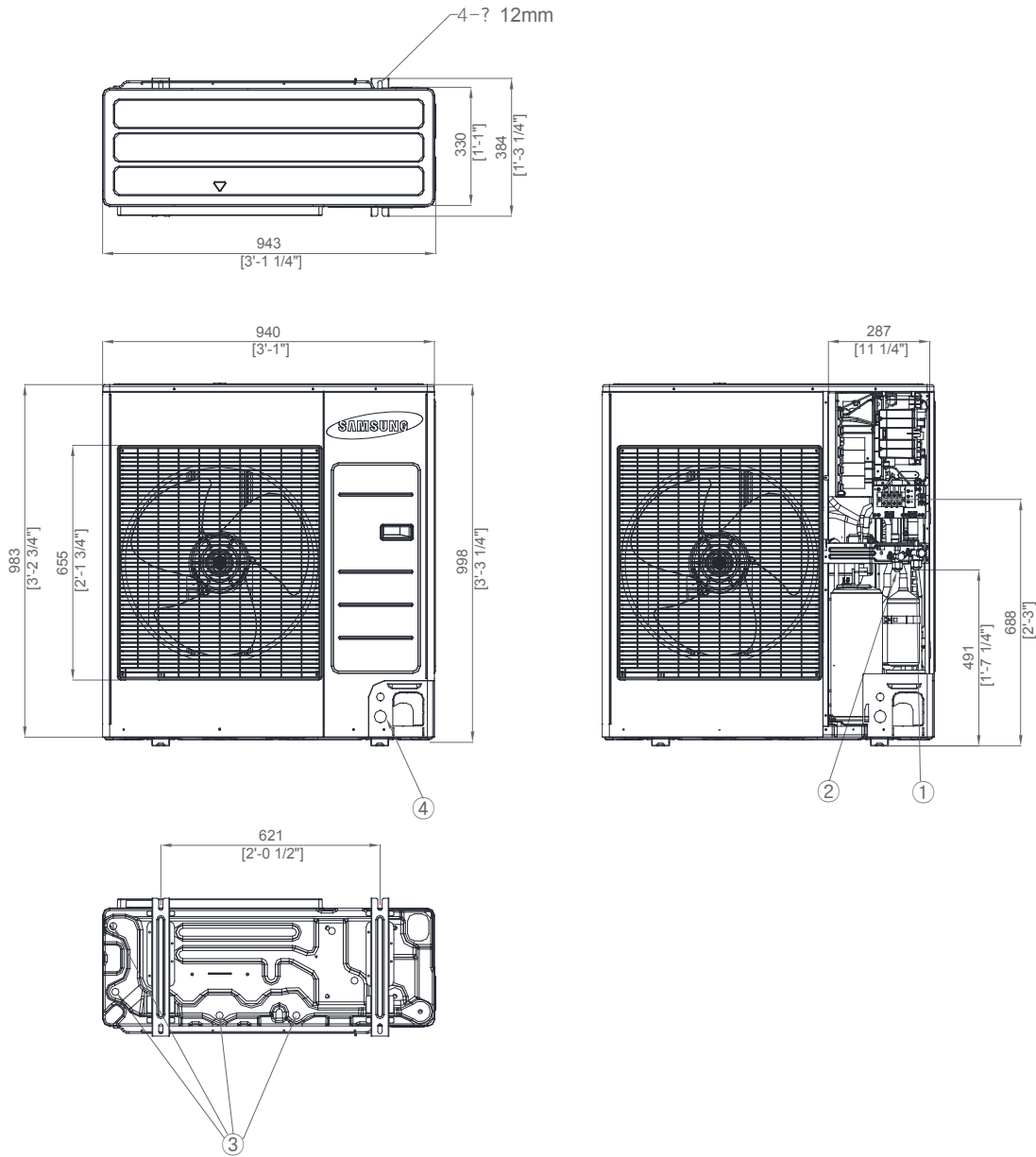


Table of descriptions

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

# 10 Dimensional drawing

## Outdoor

AC140JXADGH/EU, AC140JXADEH/EU

Units : mm / inches

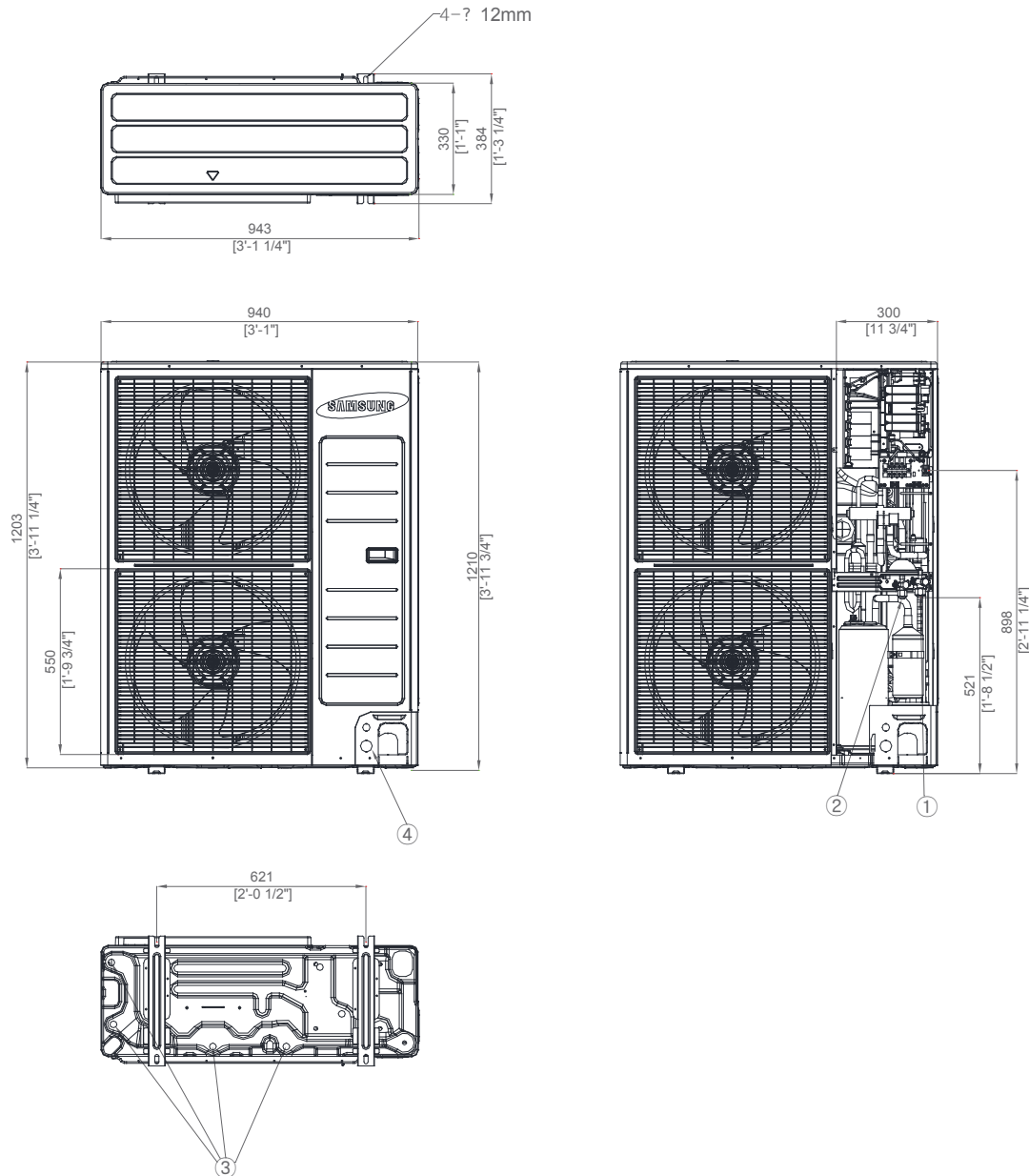


Table of descriptions

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

# 10 Dimensional drawing

## Outdoor

AC160JXADGH/EU

Units : mm / inches

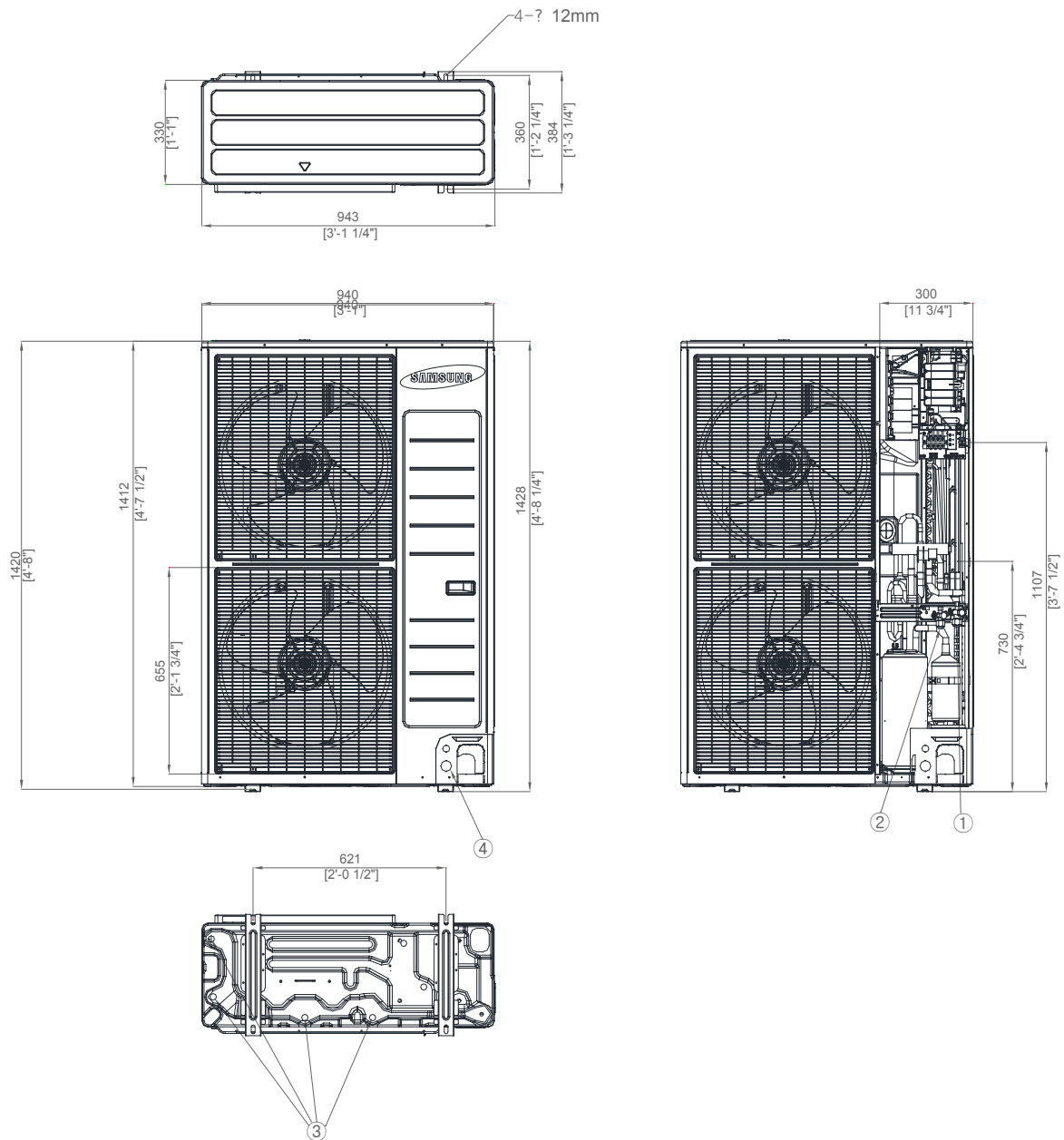


Table of descriptions

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



# 11 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

# 11 Capacity correction

## Outdoor


AC100JNCDEH1EU + AC100JXADEH1EU

### 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	0.91	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


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

# 11 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

AC140JNCDEH/EU + AC140JXADGH/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



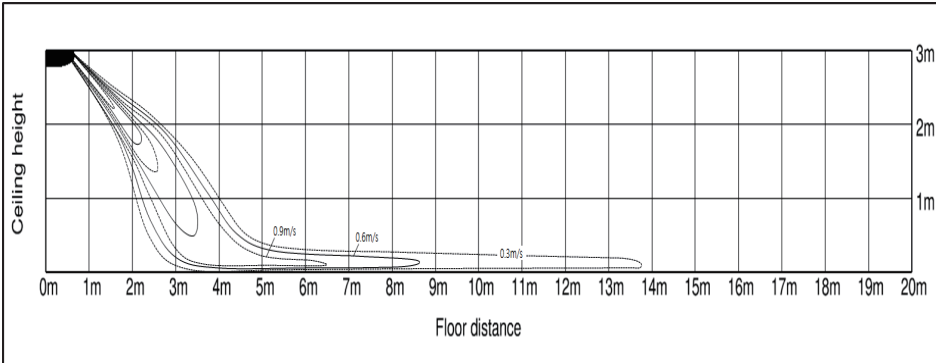
# 12 Temperature and air flow distribution

## Ceiling

AC100JNCDEH/EU

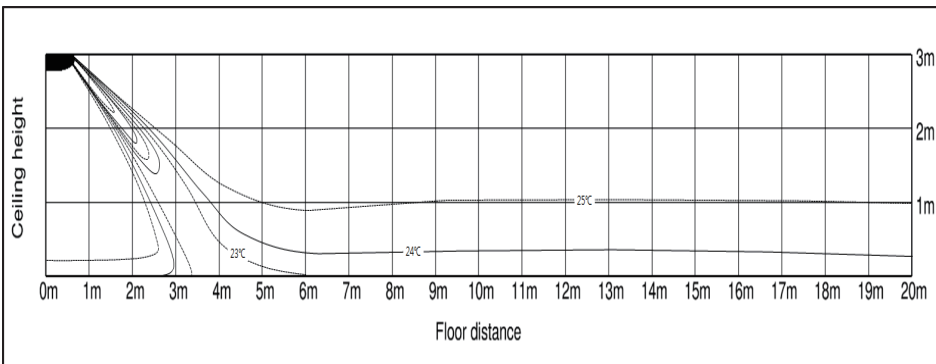
(1) Cooling air velocity distribution

Discharge angle : 32°



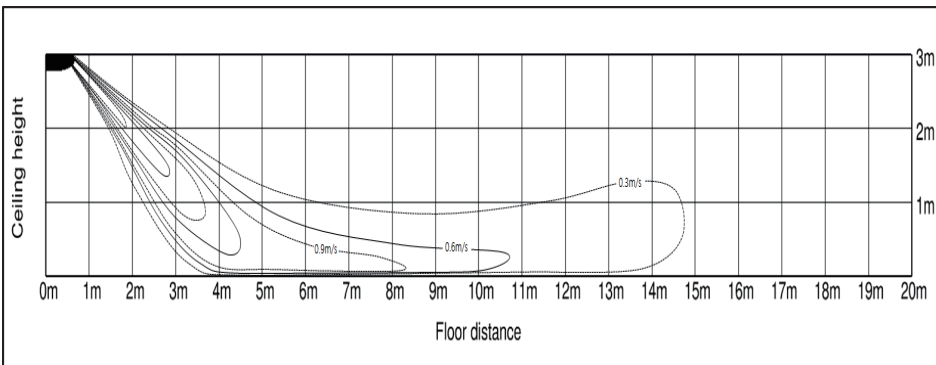
(2) Cooling temperature distribution

Discharge angle : 32°



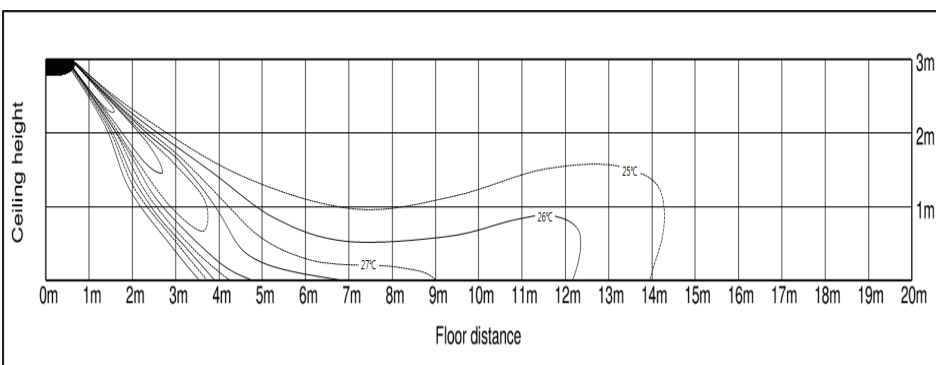
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



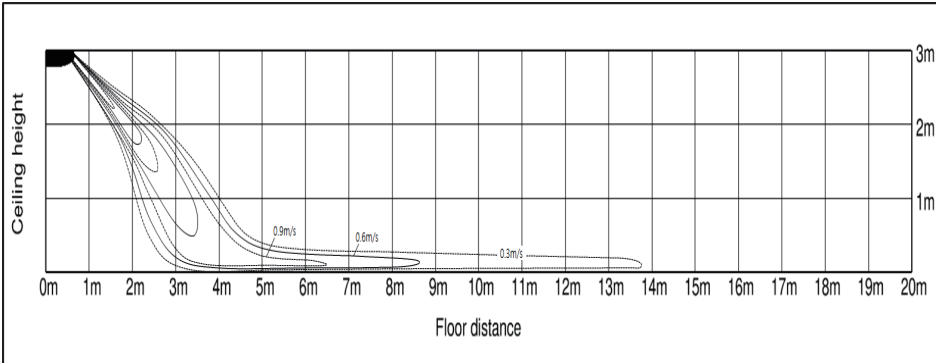
# 12 Temperature and air flow distribution

## Ceiling

AC100JNCDEH/EU, AC100JNCDEH1EU

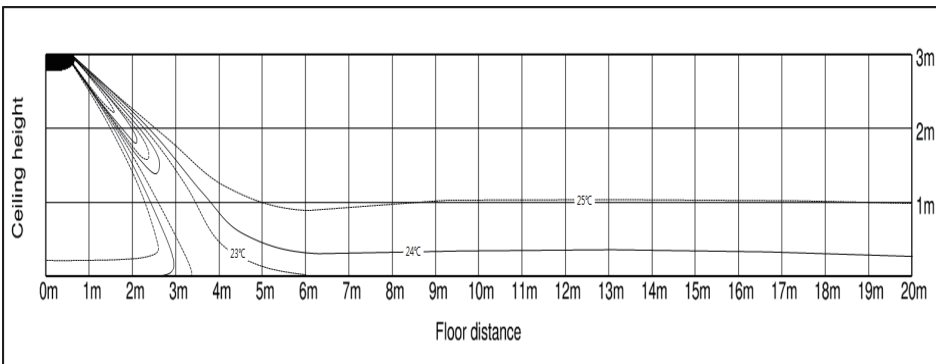
### (1) Cooling air velocity distribution

Discharge angle : 32°



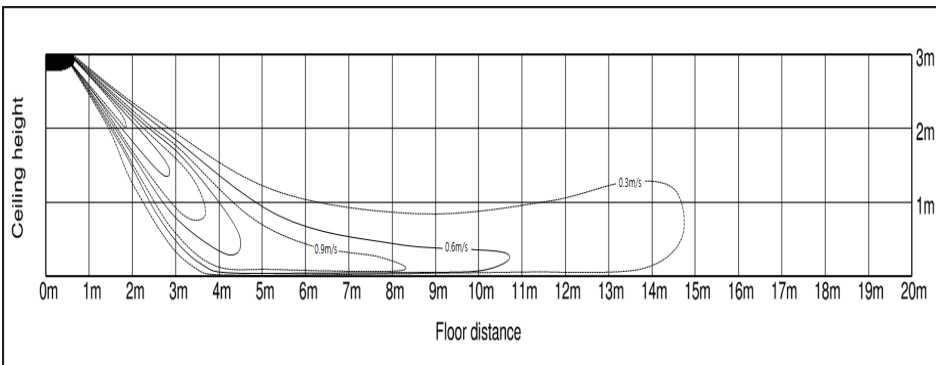
### (2) Cooling temperature distribution

Discharge angle : 32°



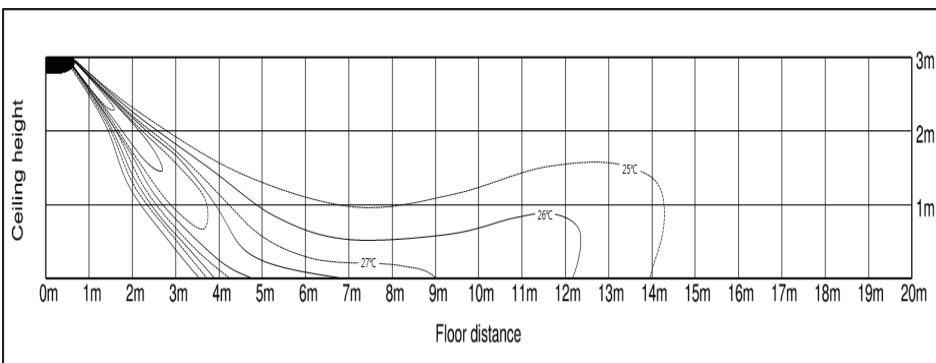
### (3) Heating air velocity distribution

Discharge angle : 32°



### (4) Heating temperature distribution

Discharge angle : 32°



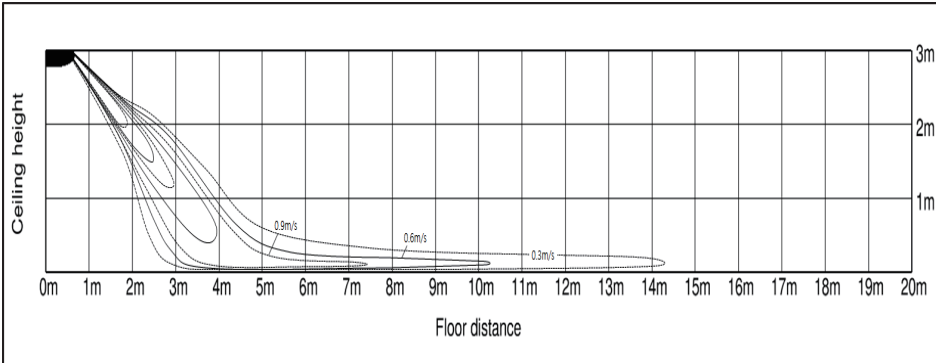
# 12 Temperature and air flow distribution

## Ceiling

AC120JNCDEH/EU

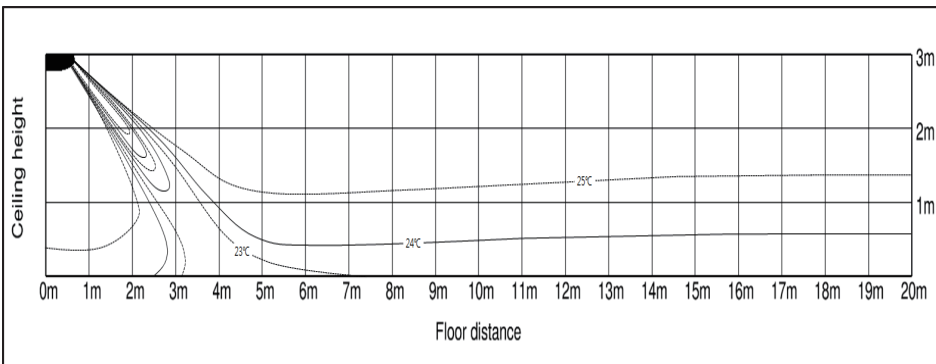
(1) Cooling air velocity distribution

Discharge angle : 32°



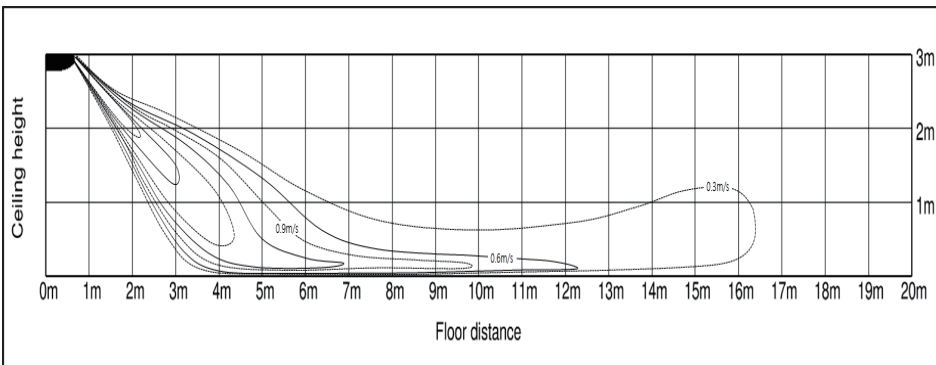
(2) Cooling temperature distribution

Discharge angle : 32°



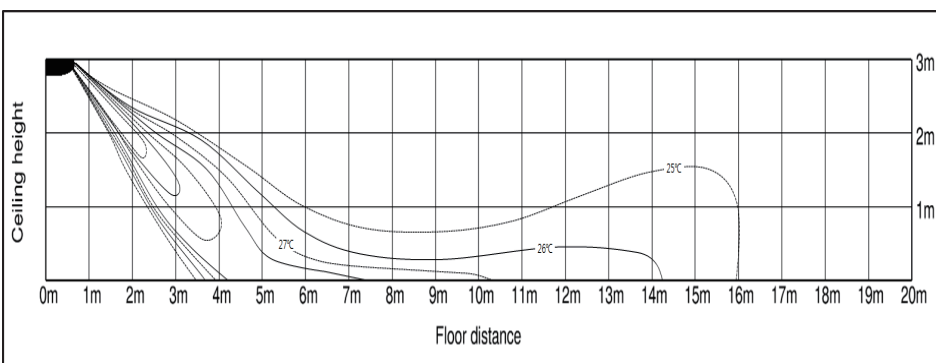
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



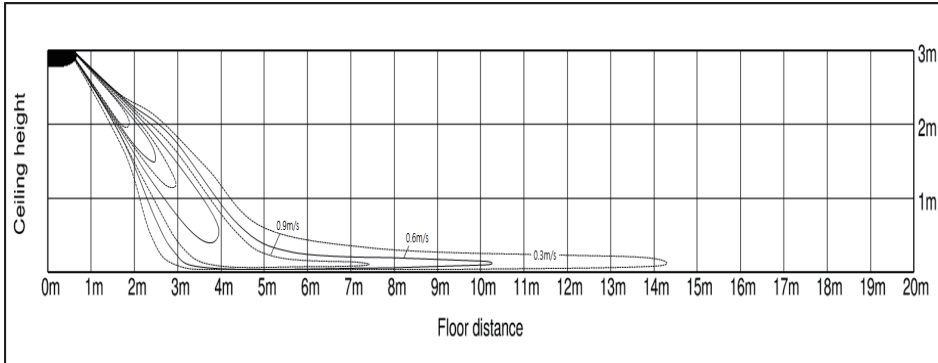
# 12 Temperature and air flow distribution

## Ceiling

AC120JNCDEH/EU

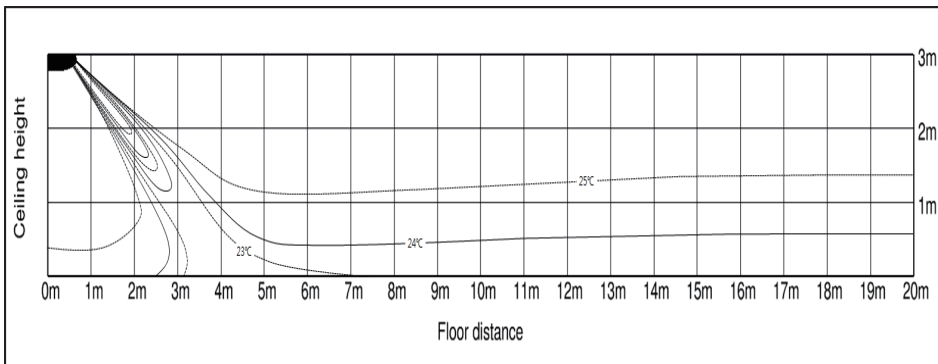
(1) Cooling air velocity distribution

Discharge angle : 32°



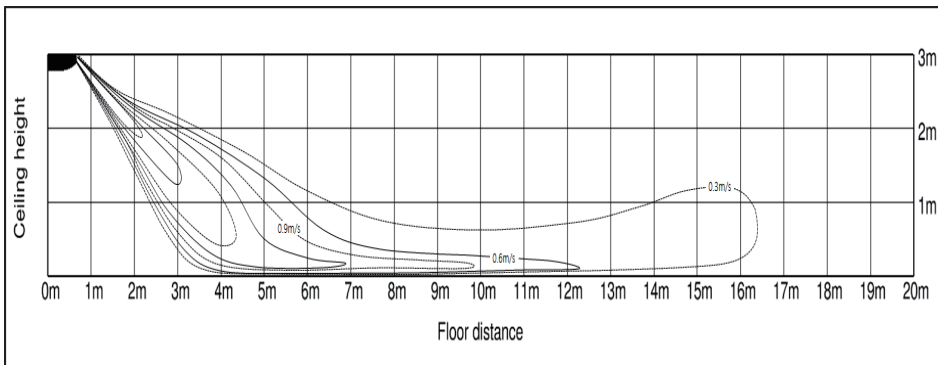
(2) Cooling temperature distribution

Discharge angle : 32°



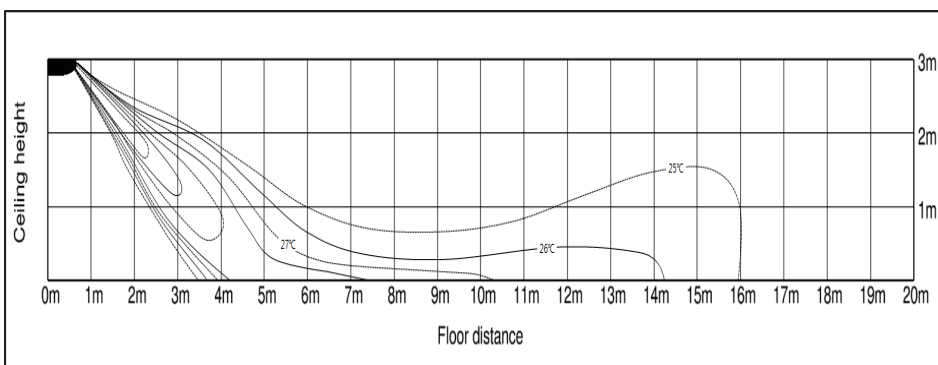
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°





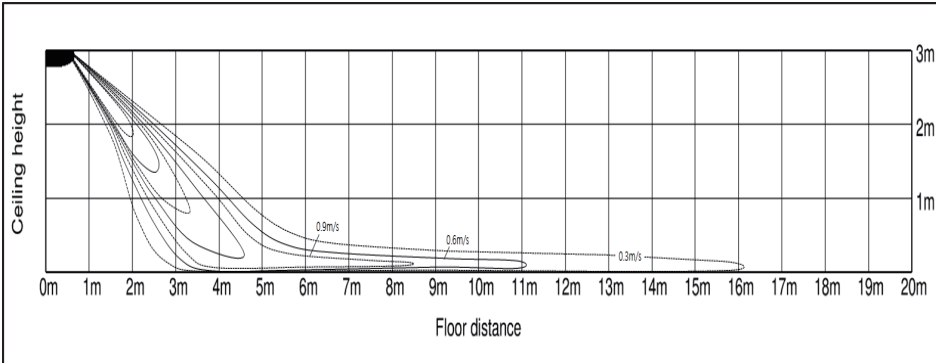
# 12 Temperature and air flow distribution

## Ceiling

AC140JNCDEH/EU

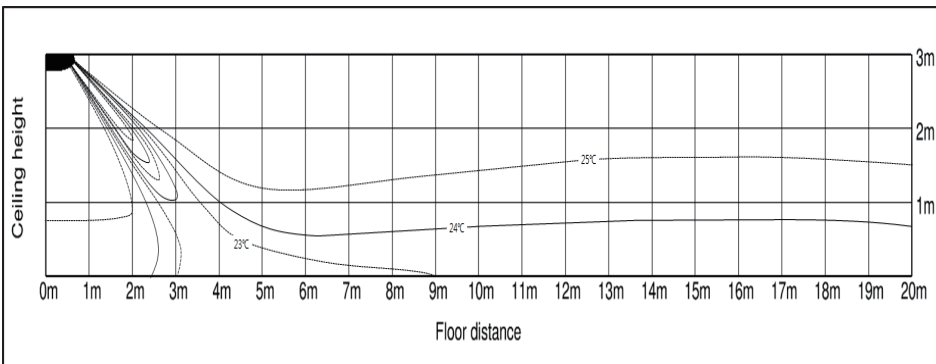
(1) Cooling air velocity distribution

Discharge angle : 32°



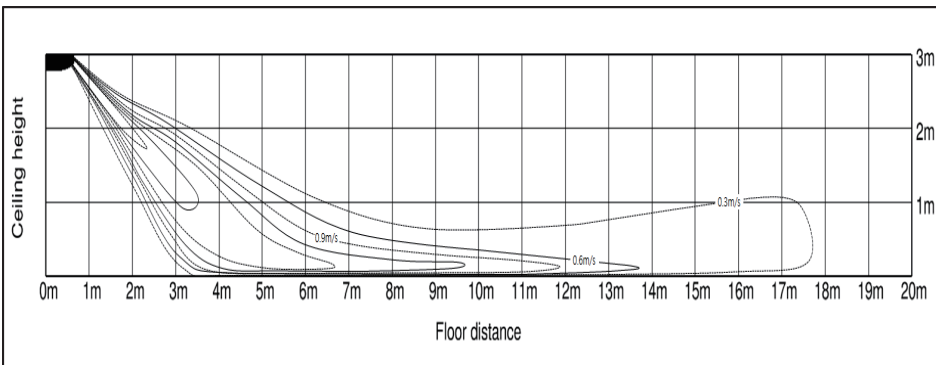
(2) Cooling temperature distribution

Discharge angle : 32°



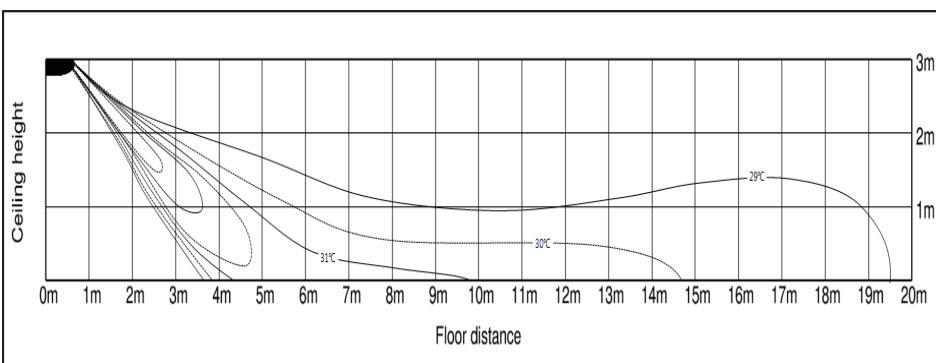
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



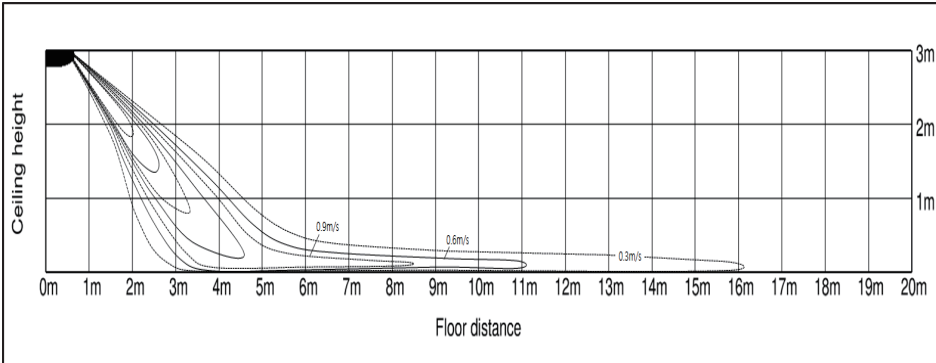
# 12 Temperature and air flow distribution

## Ceiling

AC140JNCDEH/EU

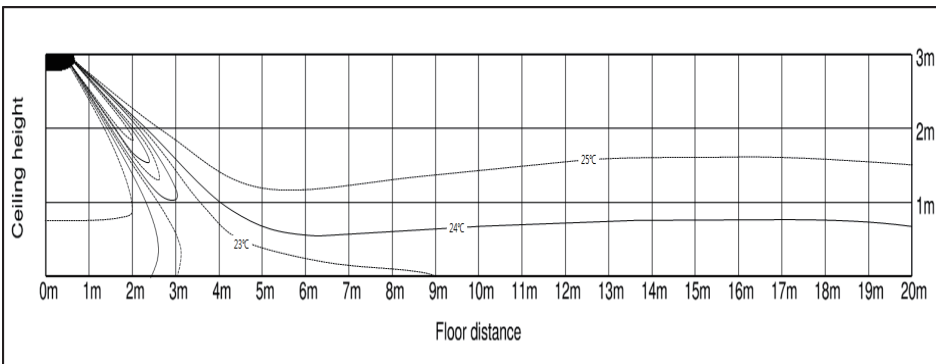
(1) Cooling air velocity distribution

Discharge angle : 32°



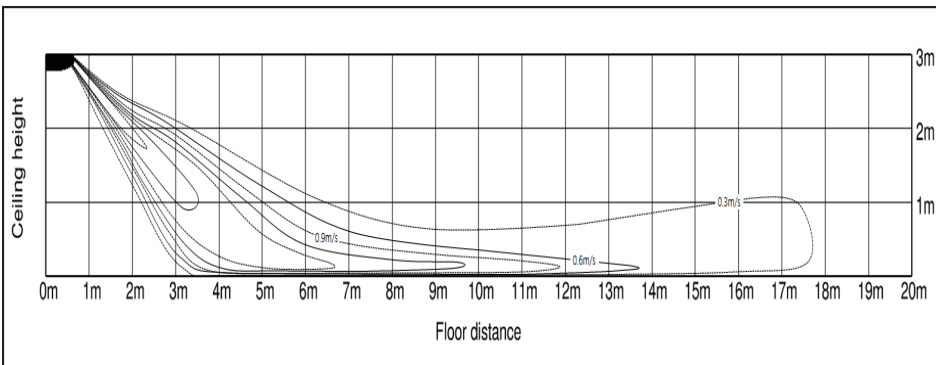
(2) Cooling temperature distribution

Discharge angle : 32°



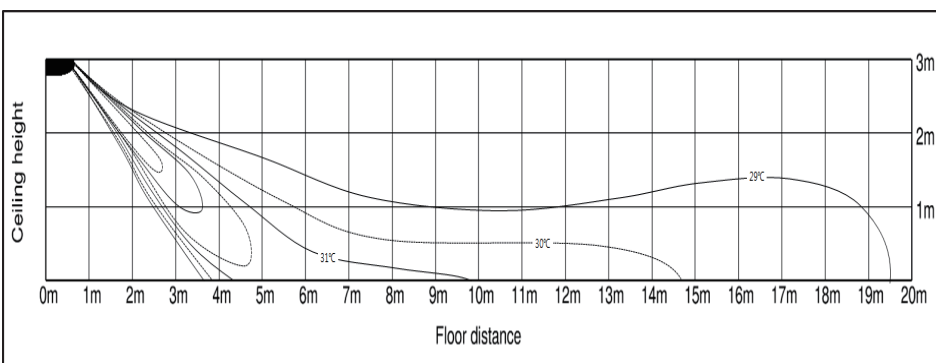
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



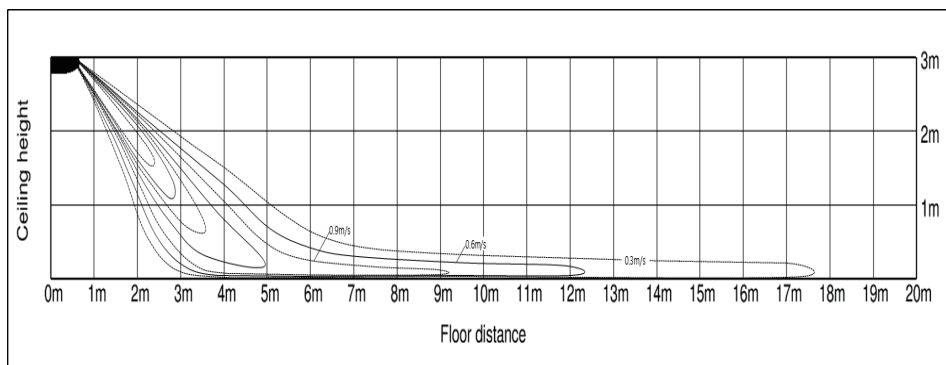
# 12 Temperature and air flow distribution

## Ceiling

AC160JNCDEH/EU

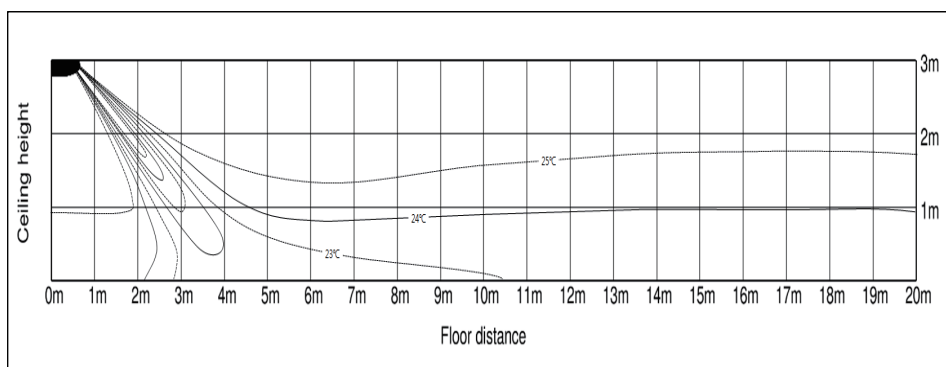
(1) Cooling air velocity distribution

Discharge angle : 32°



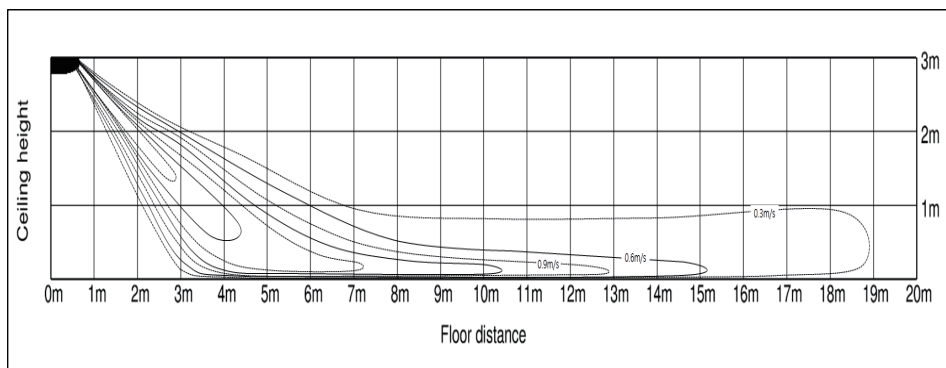
(2) Cooling temperature distribution

Discharge angle : 32°



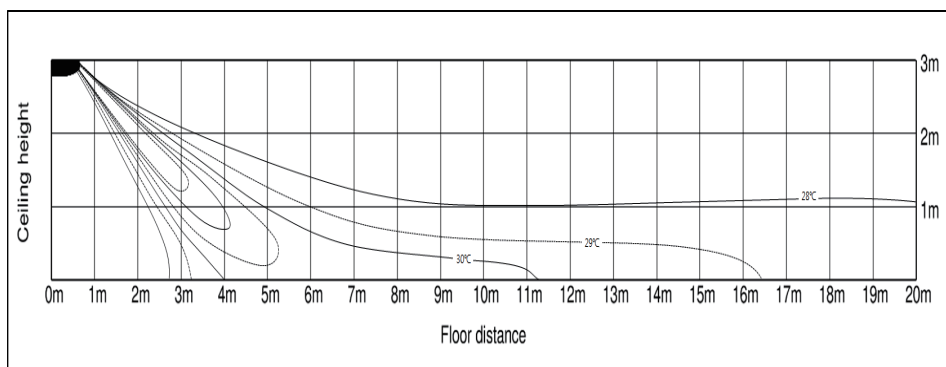
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



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Ver 1.2

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