

# SINGLE

## Technical Data Book

4Way Cassette S for Africa(R410A, 50Hz)



Model : AC\*\*\*JN4D\*H/AF  
(ODU: AC\*\*\*JX4D\*H/AF)

# History

Version	Modification	Date	Remark
Ver.1.0	Release TDB	15.11.30	
Ver.1.1	Modified error : the unit of IDU temp in Heating(WB → DB) in Capacity table	15.12.15	

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# 1 Nomenclature

## Indoor Units

### Model Names

<b>AC</b>	<b>052</b>	<b>J</b>	<b>N</b>	<b>4</b>	<b>D</b>	<b>E</b>	<b>H</b>	/	<b>AF</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>052</b>	<b>J</b>	<b>X</b>	<b>4</b>	<b>D</b>	<b>E</b>	<b>H</b>	/	<b>AF</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

## 4 Way Cassette S

Type				4Way CST	4Way CST		
Model Name	Indoor Unit			AC052JN4DEH/AF	AC071JN4DEH/AF		
	Outdoor Unit			AC052JX4DEH/AF	AC071JX4DEH/AF		
System	Mode			Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	1.47 / 4.98 / 5.28	2.08 / 7.18 / 7.77	
				Btu/h	5,000 / 17,000 / 18,000	7,100 / 24,500 / 26,500	
		Heating(Min/Std/Max)		kW	0.73 / 4.98 / 6.45	1.44 / 7.18 / 8.03	
				Btu/h	2,500 / 17,000 / 22,000	4,900 / 24,500 / 27,400	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.35 / 1.60 / 1.70	0.38 / 2.45 / 3.00	
			Heating(Min/Std/Max)	kW	0.26 / 1.23 / 2.20	0.27 / 2.00 / 2.90	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	2.20 / 7.20 / 8.00	2.30 / 11.00 / 13.00	
			Heating(Min/Std/Max)	A	1.60 / 5.70 / 9.00	1.70 / 9.00 / 12.60	
		MCA		A	10.80 (MCA)	20.80 (MCA)	
		MFA		A	12.50	25.00	
	Energy Efficiency	EER (Nominal Cooling)		-	3.11	2.93	
		COP (Nominal Heating)		-	4.05	3.59	
		Energy Grade		-	-	-	
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	
				Ø, inch	1/4"	1/4"	
		Gas Pipe		Ø, mm	12.70	15.88	
				Ø, inch	1/2"	5/8"	
		Installation Limitation	Max. Length	m	30	30	
			Max. Height	m	15	15	
Field Wiring	Power Source Wire		Ø, mm	2.50	2.50		
	Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410A		
	Control Method		-	-	-		
	Factory Charging		kg	1.10	1.30		
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
	Fan	Type		-	Turbo Fan		
		Motor	Output		W	65 x 1	65 x 1
			Air Flow Rate		High/Mid/Low	CMM	18.00 / 15.00 / 13.00
		External Static Pressure		Min/Std/Max	mmAq	-	-
				Pa	-	-	
	Drain Pipe			Ø,mm	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	
	Sound	Pressure	High/Mid/Low		37 / 34 / 31	43 / 40 / 37	
		Power	Cooling	dB(A)	-	-	
	External Dimension	Net Weight		kg	14.50	14.50	
		Shipping Weight		kg	18.00	18.00	
		Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	
		Shipping Dimensions (WxHxD)		mm	898 x 275 x 898	898 x 275 x 898	
	Panel Size	Panel model		-	PC4NUSKAN	PC4NUSKAN	
		Panel Net Weight		kg	5.80	5.80	
		Shipping Weight		kg	8.40	8.40	
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005		
	Additional Accessories	Drain pump	Drain pump	-	-	-	
			Max. Lifting	mm/liter/h	-	-	
Air Filter			-	-	-		
Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
	Compressor	Type		-	BLDC Rotary		
		Model		-	UG4T150LNBEG		
		Output		kW	1.42	1.79	
	Oil	Type		-	POE		
		Air Flow Rate		Cooling	CMM	40.00	41.00
				I/s	666.67	683.33	
	Sound	Pressure	Cooling/Heating	dB(A)	47 / 48	49 / 51	
		Power	Cooling	dB(A)	-	-	
	External Dimension	Net Weight		kg	36.00	45.00	
		Shipping Weight		kg	39.00	48.00	
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	
		Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	1,023 x 730 x 413	
	Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	
		Heating		°C	-15.0 ~ 24.0	-15.0 ~ 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

## 4 Way Cassette S

Type				4Way CST	4Way CST		
Model Name	Indoor Unit			AC090JN4DEH/AF	AC100JN4DEH/AF		
	Outdoor Unit			AC090JX4DEH/AF	AC100JX4DGH/AF		
System	Mode			Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	2.93 / 8.79 / 9.96	3.22 / 10.26 / 10.99	
				Btu/h	10,000 / 30,000 / 34,000	11,000 / 35,000 / 37,500	
		Heating(Min/Std/Max)		kW	1.29 / 9.23 / 10.26	2.17 / 10.26 / 11.58	
				Btu/h	4,400 / 31,500 / 35,000	7,400 / 35,000 / 39,500	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.87 / 2.80 / 4.50	0.70 / 3.55 / 4.80	
			Heating(Min/Std/Max)	kW	0.60 / 2.45 / 4.10	0.45 / 2.75 / 4.26	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.70 / 12.50 / 20.00	2.00 / 5.70 / 9.10	
			Heating(Min/Std/Max)	A	3.50 / 11.00 / 18.00	1.50 / 4.50 / 7.90	
		MCA		A	23.70 (MCA)	13.70 (MCA)	
		MFA		A	27.50	15.10	
	Energy Efficiency	EER (Nominal Cooling)		-	3.14	2.89	
		COP (Nominal Heating)		-	3.77	3.73	
		Energy Grade		-	-	-	
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	
				Ø, inch	3/8"	3/8"	
		Gas Pipe		Ø, mm	15.88	15.88	
				Ø, inch	5/8"	5/8"	
		Installation Limitation	Max. Length	m	50	50	
			Max. Height	m	30	30	
Field Wiring	Power Source Wire		Ø, mm	2.50	2.50		
	Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410A		
	Control Method		-	-	-		
	Factory Charging		kg	2.50	2.50		
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
	Fan	Type		-	Turbo Fan		
		Motor	Output		W	97 x 1	97 x 1
			Air Flow Rate		High/Mid/Low	CMM	29.00 / 24.00 / 19.00
		External Static Pressure	Min/Std/Max		l/s	483.33 / 400.00 / 316.67	550.00 / 433.33 / 316.67
	mmAq		-	-	-		
	Pa		-	-	-		
	Drain	Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	
		Sound	Pressure	High/Mid/Low		42 / 38 / 33	43 / 38 / 33
	Power		Cooling	dB(A)	-	-	
	External Dimension	Net Weight		kg	18.00	18.00	
		Shipping Weight		kg	22.00	22.00	
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898	
	Panel Size	Panel model		-	PC4NUSKAN	PC4NUSKAN	
		Panel Net Weight		kg	5.80	5.80	
		Shipping Weight		kg	8.40	8.40	
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005		
	Additional Accessories	Drain pump	Drain pump	-	-	-	
Max. Lifting			mm/liter/h	-	-		
Air Filter		-	-	-			
Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	3,4,380-415,50	
	Compressor	Type		-	Twin BLDC Rotary		
		Model		-	UG8T300LNBJU		
		Output		kW	2.82	2.82	
	Oil	Type		-	PVE		
		Air Flow Rate		Cooling	CMM	60.00	60.00
	Sound	Pressure	Cooling/Heating	l/s	1,000.00	1,000.00	
		Power	Cooling	dB(A)	54 / 56	55 / 57	
	External Dimension	Net Weight		kg	67.00	69.50	
		Shipping Weight		kg	72.00	74.50	
		Net Dimensions (WxHxD)		mm	880 x 967 x 320	880 x 967 x 320	
		Shipping Dimensions (WxHxD)		mm	1,047 x 1,045 x 415	1,047 x 1,045 x 415	
	Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	
		Heating		°C	-15.0 ~ 24.0	-15.0 ~ 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

## 4 Way Cassette S

Type				4Way CST	4Way CST		
Model Name	Indoor Unit			AC100JN4DEH/AF	AC120JN4DEH/AF		
	Outdoor Unit			AC100JX4DEH/AF	AC120JX4DGH/AF		
System	Mode		-	Heat Pump	Heat Pump		
	Capacity	Cooling(Min/Std/Max)		kW	3.22 / 10.26 / 10.84	2.93 / 12.31 / 12.46	
				Btu/h	11,000 / 35,000 / 37,000	10,000 / 42,000 / 42,500	
		Heating(Min/Std/Max)		kW	2.17 / 10.26 / 11.58	3.52 / 13.48 / 16.35	
				Btu/h	7,400 / 35,000 / 39,500	12,000 / 46,000 / 55,800	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.70 / 3.60 / 4.80	1.03 / 4.32 / 5.89	
			Heating(Min/Std/Max)	kW	0.45 / 2.75 / 4.26	0.88 / 4.35 / 7.30	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.00 / 16.00 / 21.00	2.10 / 6.80 / 9.00	
			Heating(Min/Std/Max)	A	2.90 / 12.00 / 19.50	1.80 / 6.80 / 12.00	
		MCA		A	23.70 (MCA)	13.70 (MCA)	
		MFA		A	27.50	15.10	
	Energy Efficiency	EER (Nominal Cooling)		-	2.85	2.85	
		COP (Nominal Heating)		-	3.73	3.10	
		Energy Grade		-	-	-	
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	
				Ø, inch	3/8"	3/8"	
		Gas Pipe		Ø, mm	15.88	15.88	
				Ø, inch	5/8"	5/8"	
		Installation Limitation	Max. Length	m	50	50	
			Max. Height	m	30	30	
Field Wiring	Power Source Wire		Ø, mm	2.50	2.50		
	Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410A		
	Control Method		-	-	-		
	Factory Charging		kg	2.50	2.20		
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50		
	Fan	Type		-	Turbo Fan	Turbo Fan	
		Motor		Output	W	97 x 1	97 x 1
		Air Flow Rate		High/Mid/Low	CMM	33.00 / 26.00 / 19.00	31.00 / 24.00 / 19.00
		External Static Pressure		Min/Std/Max	l/s	550.00 / 433.33 / 316.67	516.67 / 400.00 / 316.67
	Drain	Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	
		Pressure	High/Mid/Low		43 / 38 / 33	44 / 40 / 36	
	Sound	Power	Cooling		-	-	
				dB(A)	-	-	
	External Dimension	Net Weight		kg	18.00	18.00	
		Shipping Weight		kg	22.00	22.00	
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898	
	Panel Size	Panel model		-	PC4NUSKAN	PC4NUSKAN	
		Panel Net Weight		kg	5.80	5.80	
		Shipping Weight		kg	8.40	8.40	
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	
	Additional Accessories	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	
		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		
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	
		Model		-	UG8T300LNBJU	UG5T450FUFJX	
		Output		kW	2.82	4.12	
	Oil	Type		-	PVE	PVE	
		Air Flow Rate		Cooling	CMM	60.00	70.00
	Sound	Pressure	Cooling/Heating		55 / 57	57 / 58	
		Power	Cooling	dB(A)	-	-	
	External Dimension	Net Weight		kg	67.00	89.00	
		Shipping Weight		kg	72.00	99.00	
		Net Dimensions (WxHxD)		mm	880 x 967 x 320	932 x 1,162 x 375	
		Shipping Dimensions (WxHxD)		mm	1,047 x 1,045 x 415	1,095 x 1,286 x 476	
	Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	
		Heating		°C	-15.0 ~ 24.0	-15.0 ~ 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

## 4 Way Cassette S

Type				4Way CST		
Model Name	Indoor Unit			AC140JN4DEH/AF		
	Outdoor Unit			AC140JX4DGH/AF		
System	Mode			Heat Pump		
	Capacity	Cooling(Min/Std/Max)		kW	3.19 / 14.07 / 14.21	
				Btu/h	10,900 / 48,000 / 48,500	
		Heating(Min/Std/Max)		kW	3.52 / 14.07 / 18.40	
				Btu/h	12,000 / 48,000 / 62,800	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	1.30 / 5.20 / 6.30	
			Heating(Min/Std/Max)		1.30 / 4.54 / 7.50	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	3.00 / 8.50 / 9.50	
			Heating(Min/Std/Max)		2.00 / 7.00 / 12.40	
		MCA		A	13.70 (MCA)	
		MFA		A	15.10	
	Energy Efficiency	EER (Nominal Cooling)		-	2.71	
		COP (Nominal Heating)		-	3.10	
		Energy Grade		-	-	
	Piping Connections	Liquid Pipe		Ø, mm	9.52	
				Ø, inch	3/8"	
		Gas Pipe		Ø, mm	15.88	
				Ø, inch	5/8"	
		Installation Limitation	Max. Length	m	50	
			Max. Height	m	30	
	Field Wiring	Power Source Wire		Ø, mm	2.50	
		Transmission Cable		Ø, mm	0.75 ~ 1.50	
	Refrigerant	Type		-	R410A	
Control Method		-	-			
Factory Charging		kg	2.20			
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	
	Fan	Type		-	Turbo Fan	
		Motor	Output		W	97 x 1
			Air Flow Rate		High/Mid/Low	CMM
		External Static Pressure	Min/Std/Max		l/s	533.33 / 400.00 / 333.33
	mmAq		-	-		
	Drain	Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)	
		Sound	Pressure	High/Mid/Low	dB(A)	45 / 41 / 36
	Power		Cooling	-	-	
	External Dimension	Net Weight		kg	18.00	
		Shipping Weight		kg	22.00	
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	
	Panel Size	Panel model		-	PC4NUSKAN	
		Panel Net Weight		kg	5.80	
		Shipping Weight		kg	8.40	
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	
	Additional Accessories	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	
		Drain pump	Max. Lifting		-	-
			mm/liter/h		-	-
		Air Filter		-	-	-
	Outdoor Unit	Power Supply			Ø, #, V, Hz	3,4,380-415,50
		Compressor	Type		-	Twin BLDC Rotary
Model			-	UG5T450FUFJX		
Output			kW	4.12		
Oil			Type		-	PVE
		Fan	Air Flow Rate	Cooling	CMM	70.00
I/s				1,166.67		
Sound		Pressure	Cooling/Heating	dB(A)	57 / 59	
		Power		Cooling	-	-
External Dimension		Net Weight		kg	89.00	
		Shipping Weight		kg	99.00	
		Net Dimensions (WxHxD)		mm	932 x 1,162 x 375	
		Shipping Dimensions (WxHxD)		mm	1,095 x 1,286 x 476	
Operating Temp. Range		Cooling		°C	-5.0 ~ 48.0	
		Heating		°C	-15.0 ~ 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

## 4 Way Cassette S

AC052JN4DEH/AF + AC052JX4DEH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																				
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)			24 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
-5.0	15.52	12.41	0.66	15.90	12.72	0.68	16.29	13.03	0.69	16.69	13.35	0.71	16.96	13.57	0.72	17.09	13.67	0.73	17.50	14.00	0.74
21.0	15.80	12.64	0.85	16.18	12.95	0.87	16.58	13.27	0.89	16.99	13.59	0.91	17.26	13.81	0.92	17.40	13.92	0.93	17.82	14.25	0.95
35.0	15.81	12.64	1.49	16.19	12.96	1.52	16.59	13.27	1.56	<b>17.00</b>	<b>13.60</b>	<b>1.60</b>	17.27	13.82	1.63	17.41	13.93	1.64	17.83	14.26	1.68
46.0	13.27	10.61	1.80	13.59	10.87	1.85	13.93	11.14	1.89	14.27	11.42	1.94	14.50	11.60	1.97	14.61	11.69	1.99	14.96	11.97	2.03
48.0	12.50	10.00	1.81	12.80	10.24	1.86	13.12	10.49	1.90	13.44	10.75	1.95	13.66	10.92	1.98	13.76	11.01	2.00	14.09	11.27	2.04

### Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	13.60	1.65	13.46	1.64	13.33	1.62	13.20	1.60	13.06	1.59	12.93	1.57
-10.0	14.53	1.55	14.38	1.54	14.24	1.52	14.10	1.50	13.96	1.49	13.82	1.47
0.0	16.39	1.36	16.23	1.34	16.07	1.33	15.91	1.32	15.75	1.30	15.59	1.29
7.0	17.34	1.25	17.17	1.24	<b>17.00</b>	<b>1.23</b>	16.83	1.22	16.66	1.21	16.50	1.19
24.0	21.53	1.14	21.32	1.13	21.11	1.12	20.90	1.11	20.69	1.10	20.48	1.09

AC071JN4DEH/AF + AC071JX4DEH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																				
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)			24 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
-5.0	28.24	22.60	1.53	28.94	23.15	1.56	29.65	23.72	1.60	30.38	24.30	1.64	30.87	24.69	1.67	31.11	24.89	1.68	31.86	25.48	1.72
21.0	27.33	21.87	1.75	28.01	22.40	1.80	28.69	22.96	1.84	29.40	23.52	1.89	29.87	23.90	1.92	30.11	24.08	1.93	30.83	24.66	1.98
35.0	22.78	18.22	2.28	23.34	18.67	2.33	23.91	19.13	2.39	<b>24.50</b>	<b>19.60</b>	<b>2.45</b>	24.89	19.91	2.49	25.09	20.07	2.51	25.69	20.55	2.57
46.0	19.59	15.67	2.87	20.07	16.06	2.94	20.56	16.45	3.01	21.07	16.86	3.09	21.41	17.13	3.14	21.58	17.26	3.16	22.09	17.67	3.24
48.0	16.63	13.30	2.19	17.04	13.63	2.24	17.46	13.96	2.30	17.89	14.31	2.35	18.17	14.54	2.39	18.31	14.65	2.41	18.75	15.00	2.47

### Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	15.00	1.73	14.85	1.72	14.70	1.70	14.55	1.68	14.41	1.67	14.26	1.65
-10.0	18.24	2.06	18.06	2.04	17.89	2.02	17.71	2.00	17.53	1.98	17.35	1.96
0.0	21.24	1.94	21.03	1.92	20.83	1.90	20.62	1.88	20.41	1.86	20.21	1.84
7.0	24.99	2.04	24.75	2.02	<b>24.50</b>	<b>2.00</b>	24.26	1.98	24.01	1.96	23.77	1.94
24.0	30.99	2.08	30.68	2.06	30.38	2.04	30.08	2.02	29.78	2.00	29.48	1.98

# 3 Capacity table

## 4 Way Cassette S

AC090JN4DEH/AF + AC090JX4DEH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																				
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)			24 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
-5.0	33.93	27.15	1.65	34.77	27.82	1.70	35.62	28.50	1.74	36.50	29.20	1.78	37.08	29.67	1.81	37.38	29.90	1.82	38.27	30.62	1.87
21.0	31.61	25.29	2.16	32.39	25.91	2.21	33.18	26.55	2.26	34.00	27.20	2.32	34.54	27.64	2.36	34.82	27.85	2.38	35.65	28.52	2.43
35.0	27.89	22.31	2.60	28.58	22.86	2.67	29.28	23.42	2.73	<b>30.00</b>	<b>24.00</b>	<b>2.80</b>	30.48	24.38	2.84	30.72	24.58	2.87	31.46	25.17	2.94
46.0	19.52	15.62	2.29	20.00	16.00	2.34	20.50	16.40	2.40	21.00	16.80	2.46	21.34	17.07	2.50	21.50	17.20	2.52	22.02	17.62	2.58
48.0	18.22	14.58	2.25	18.67	14.94	2.31	19.13	15.30	2.36	19.60	15.68	2.42	19.91	15.93	2.46	20.07	16.06	2.48	20.55	16.44	2.54

### Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	26.01	3.47	25.76	3.43	25.50	3.40	25.24	3.37	24.99	3.33	24.74	3.30
-10.0	32.03	3.93	31.71	3.89	31.40	3.85	31.09	3.81	30.78	3.77	30.47	3.74
0.0	31.62	2.76	31.31	2.74	31.00	2.71	30.69	2.68	30.38	2.66	30.08	2.63
7.0	32.13	2.50	31.82	2.47	<b>31.50</b>	<b>2.45</b>	31.18	2.43	30.87	2.40	30.56	2.38
24.0	41.21	2.58	40.80	2.56	40.40	2.53	40.00	2.50	39.60	2.48	39.20	2.45

AC100JN4DEH/AF + AC100JX4DGH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																				
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)			24 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
-5.0	40.44	32.35	2.20	41.44	33.15	2.26	42.46	33.96	2.31	43.50	34.80	2.37	44.20	35.36	2.41	44.54	35.64	2.43	45.61	36.49	2.49
21.0	37.00	29.60	2.65	37.91	30.33	2.71	38.84	31.08	2.78	39.80	31.84	2.85	40.44	32.35	2.90	40.76	32.60	2.92	41.73	33.39	2.99
35.0	32.54	26.03	3.30	33.34	26.67	3.38	34.16	27.33	3.46	<b>35.00</b>	<b>28.00</b>	<b>3.55</b>	35.56	28.45	3.61	35.84	28.67	3.64	36.70	29.36	3.72
46.0	23.24	18.59	2.86	23.81	19.05	2.93	24.40	19.52	3.01	25.00	20.00	3.08	25.40	20.32	3.13	25.60	20.48	3.15	26.21	20.97	3.23
48.0	21.57	17.26	2.79	22.10	17.68	2.86	22.64	18.11	2.93	23.20	18.56	3.00	23.57	18.86	3.05	23.76	19.01	3.07	24.33	19.46	3.15

### Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	28.77	3.88	28.48	3.84	28.20	3.80	27.92	3.76	27.64	3.72	27.36	3.69
-10.0	35.50	4.34	35.15	4.29	34.80	4.25	34.45	4.21	34.11	4.17	33.77	4.12
0.0	35.09	3.11	34.74	3.08	34.40	3.05	34.06	3.02	33.72	2.99	33.38	2.96
7.0	35.70	2.81	35.35	2.78	<b>35.00</b>	<b>2.75</b>	34.65	2.72	34.30	2.70	33.96	2.67
24.0	46.72	2.91	46.26	2.88	45.80	2.85	45.34	2.82	44.89	2.79	44.44	2.77

# 3 Capacity table

## 4 Way Cassette S

AC100JN4DEH/AF + AC100JX4DEH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																							
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)					
	14 (WB)		PI(kW)	16 (WB)		PI(kW)	18 (WB)		PI(kW)	19 (WB)		PI(kW)	20 (WB)		PI(kW)	22 (WB)		PI(kW)	24 (WB)		PI(kW)			
TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	
-5.0	40.44	32.35	2.25	41.44	33.15	2.31	42.46	33.96	2.36	43.50	34.80	2.42	44.20	35.36	2.46	44.54	35.64	2.48	45.61	36.49	2.54			
21.0	37.00	29.60	2.70	37.91	30.33	2.76	38.84	31.08	2.83	39.80	31.84	2.90	40.44	32.35	2.95	40.76	32.60	2.97	41.73	33.39	3.04			
35.0	32.54	26.03	3.35	33.34	26.67	3.43	34.16	27.33	3.51	<b>35.00</b>	<b>28.00</b>	<b>3.60</b>	35.56	28.45	3.66	35.84	28.67	3.69	36.70	29.36	3.77			
46.0	23.24	18.59	2.90	23.81	19.05	2.97	24.40	19.52	3.05	25.00	20.00	3.12	25.40	20.32	3.17	25.60	20.48	3.19	26.21	20.97	3.27			
48.0	21.57	17.26	2.83	22.10	17.68	2.90	22.64	18.11	2.97	23.20	18.56	3.04	23.57	18.86	3.09	23.76	19.01	3.11	24.33	19.46	3.19			

### Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	28.77	3.96	28.48	3.92	28.20	3.88	27.92	3.84	27.64	3.80	27.36	3.76
-10.0	35.50	4.43	35.15	4.38	34.80	4.34	34.45	4.30	34.11	4.25	33.77	4.21
0.0	35.09	3.16	34.74	3.13	34.40	3.10	34.06	3.07	33.72	3.04	33.38	3.01
7.0	35.70	2.81	35.35	2.78	<b>35.00</b>	<b>2.75</b>	34.65	2.72	34.30	2.70	33.96	2.67
24.0	46.72	2.96	46.26	2.93	45.80	2.90	45.34	2.87	44.89	2.84	44.44	2.81

AC120JN4DEH/AF + AC120JX4DGH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																							
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)					
	14 (WB)		PI(kW)	16 (WB)		PI(kW)	18 (WB)		PI(kW)	19 (WB)		PI(kW)	20 (WB)		PI(kW)	22 (WB)		PI(kW)	24 (WB)		PI(kW)			
TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	
-5.0	37.10	29.68	2.41	38.01	30.41	2.47	38.94	31.15	2.53	39.90	31.92	2.59	40.54	32.43	2.63	40.86	32.69	2.65	41.84	33.47	2.72			
21.0	38.27	30.61	3.41	39.21	31.37	3.50	40.17	32.14	3.58	41.16	32.93	3.67	41.82	33.45	3.73	42.15	33.72	3.76	43.16	34.53	3.85			
35.0	39.05	31.24	4.02	40.01	32.01	4.12	40.99	32.79	4.22	<b>42.00</b>	<b>33.60</b>	<b>4.32</b>	42.67	34.14	4.39	43.01	34.41	4.42	44.04	35.23	4.53			
46.0	30.85	24.68	4.62	31.61	25.29	4.73	32.38	25.91	4.85	33.18	26.54	4.97	33.71	26.97	5.05	33.98	27.18	5.09	34.79	27.83	5.21			
48.0	28.11	22.49	4.42	28.81	23.04	4.53	29.51	23.61	4.64	30.24	24.19	4.75	30.72	24.58	4.83	30.97	24.77	4.87	31.71	25.37	4.98			

### Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	38.95	5.90	38.56	5.84	38.18	5.79	37.80	5.73	37.42	5.67	37.05	5.61
-10.0	44.11	6.43	43.67	6.37	43.24	6.31	42.81	6.24	42.38	6.18	41.96	6.12
0.0	45.99	6.97	45.53	6.90	45.08	6.83	44.63	6.76	44.18	6.69	43.74	6.63
7.0	46.92	4.44	46.46	4.39	<b>46.00</b>	<b>4.35</b>	45.54	4.31	45.08	4.26	44.63	4.22
24.0	60.06	4.88	59.47	4.83	58.88	4.79	58.29	4.74	57.71	4.69	57.13	4.64

# 3 Capacity table

## 4 Way Cassette S

AC140JN4DEH/AF + AC140JX4DGH/AF

### Cooling

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

Outdoor Air Temp. (DB)	Indoor temperature (°C)																				
	20 (DB)			23 (DB)			26 (DB)			27 (DB)			28 (DB)			30 (DB)			32 (DB)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)			24 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
-5.0	42.39	33.92	2.90	43.44	34.75	2.97	44.51	35.60	3.05	45.60	36.48	3.12	46.33	37.06	3.17	46.69	37.36	3.19	47.82	38.25	3.27
21.0	43.73	34.99	4.11	44.81	35.85	4.21	45.91	36.73	4.31	47.04	37.63	4.42	47.79	38.23	4.49	48.17	38.54	4.53	49.33	39.46	4.63
35.0	44.63	35.70	4.83	45.72	36.58	4.95	46.85	37.48	5.08	<b>48.00</b>	<b>38.40</b>	<b>5.20</b>	48.77	39.01	5.28	49.15	39.32	5.32	50.33	40.27	5.45
46.0	35.25	28.20	5.56	36.12	28.90	5.70	37.01	29.61	5.84	37.92	30.34	5.98	38.53	30.82	6.08	38.83	31.06	6.12	39.76	31.81	6.27
48.0	32.13	25.70	5.32	32.92	26.34	5.45	33.73	26.98	5.58	34.56	27.65	5.72	35.11	28.09	5.81	35.39	28.31	5.86	36.24	28.99	6.00

### Heating

TC : Total Capacity, PI: Power Input

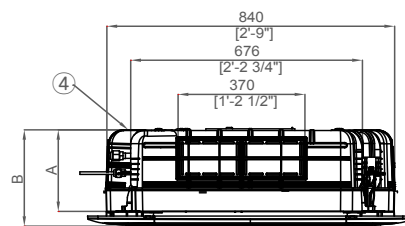
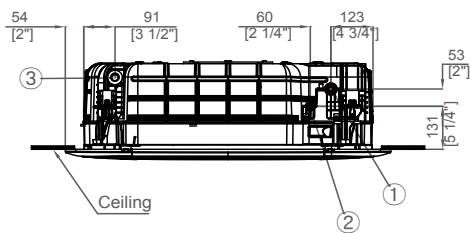
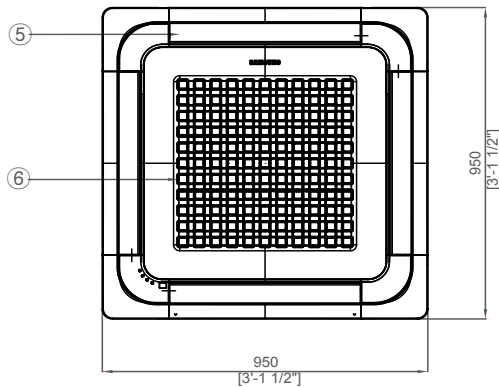
Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16.0 (DB)		18.0 (DB)		20.0 (DB)		21.0 (DB)		22.0 (DB)		24.0 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
-15.0	40.64	6.16	40.24	6.10	39.84	6.04	39.44	5.98	39.05	5.92	38.66	5.86
-10.0	46.03	6.72	45.57	6.65	45.12	6.58	44.67	6.52	44.22	6.45	43.78	6.39
0.0	47.99	7.27	47.51	7.20	47.04	7.13	46.57	7.06	46.10	6.99	45.64	6.92
7.0	48.96	4.63	48.48	4.59	<b>48.00</b>	<b>4.54</b>	47.52	4.49	47.04	4.45	46.57	4.41
24.0	62.67	5.09	62.05	5.04	61.44	4.99	60.83	4.94	60.22	4.89	59.62	4.85

# 4 Dimensional drawing

## Indoor : 4 Way Cassette S

AC052JN4DEH/AF, AC071JN4DEH/AF, AC090JN4DEH/AF, AC100JN4DEH/AF, AC120JN4DEH/AF, AC140JN4DEH/AF

Units : mm / inches



	Description		
	Small	Mid	Big
A (mm)	204	246	288
B (mm)	253	295	337

Table of descriptions

1	Refrigerant gas pipe	7	Fresh air intake
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Air inlet grille	11	
6	Air outlet louver	12	

# 4 Dimensional drawing

## Outdoor

AC052JX4DEH/AF

Units : mm / inches

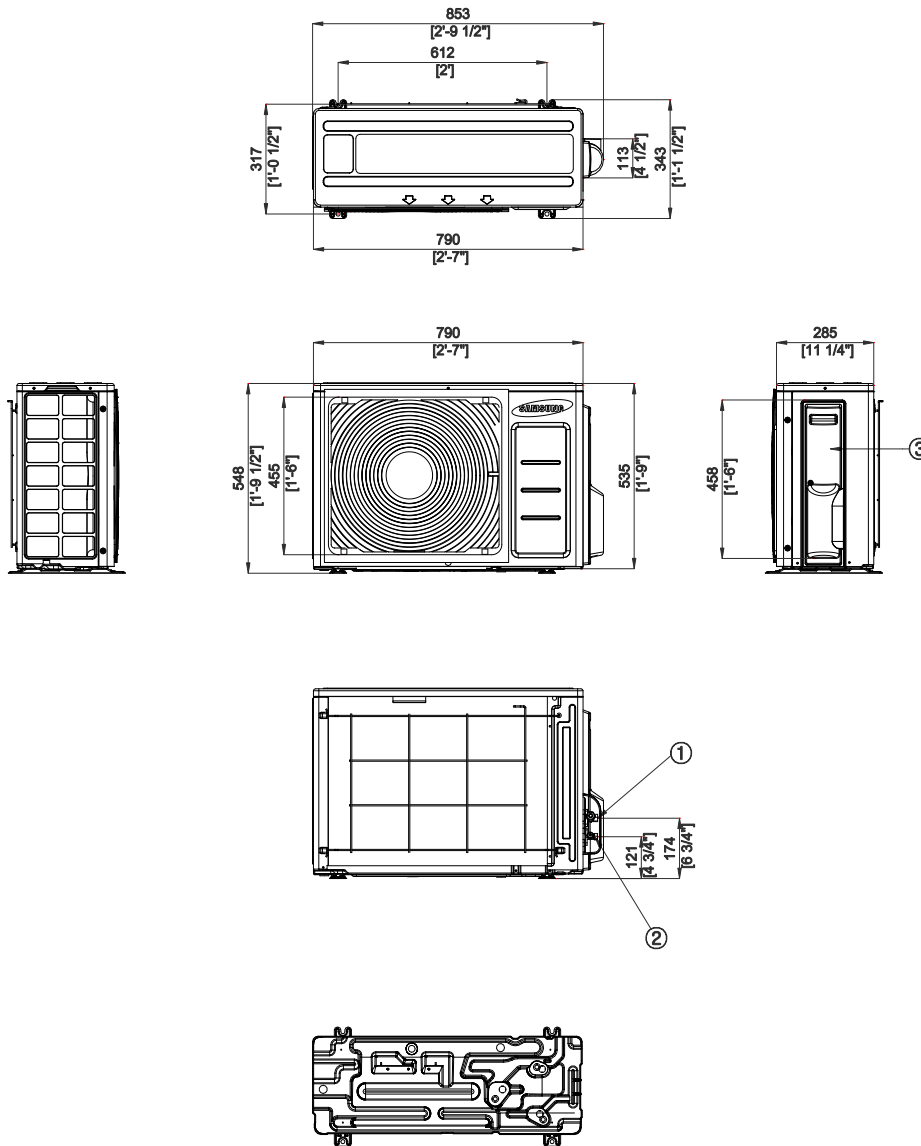


Table of descriptions

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

# 4 Dimensional drawing

## Outdoor

AC071JX4DEH/AF

Units : mm / inches

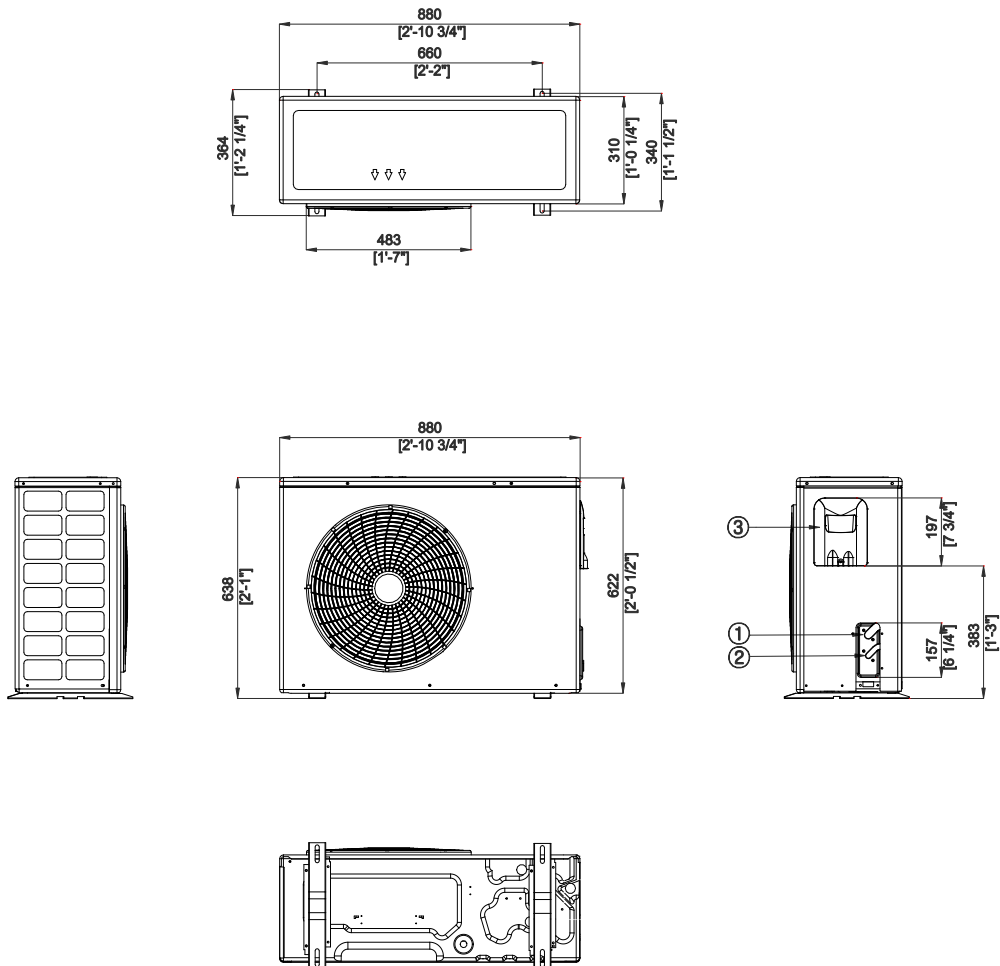


Table of descriptions

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



# 4 Dimensional drawing

## Outdoor

AC090JX4DEH/AF, AC100JX4DGH/AF, AC100JX4DEH/AF

Units : mm / inches

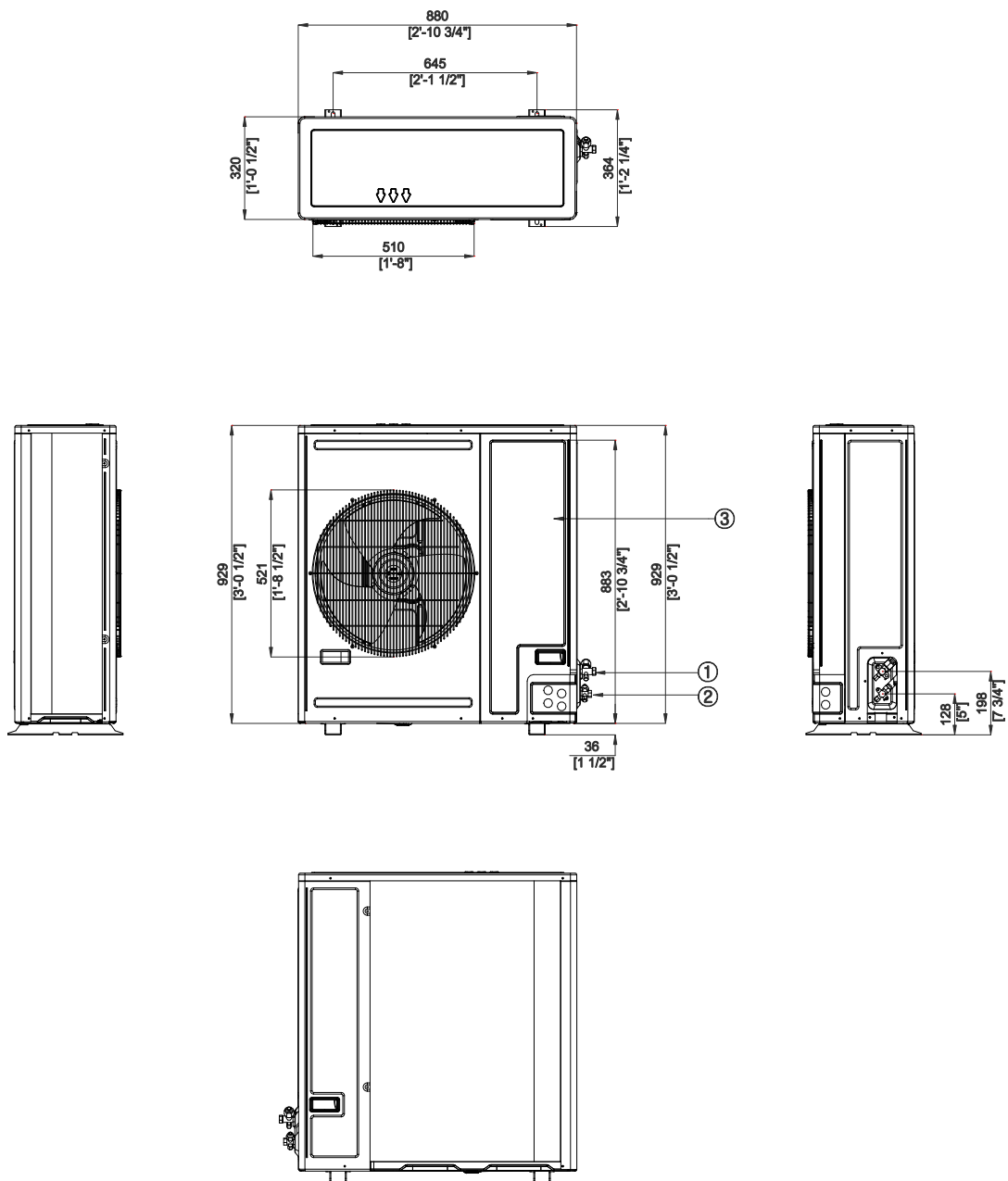


Table of descriptions

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

# 4 Dimensional drawing

## Outdoor

AC120JX4DGH/AF, AC140JX4DGH/AF

Units : mm / inches

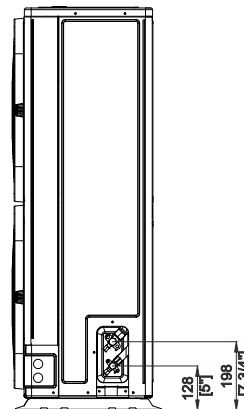
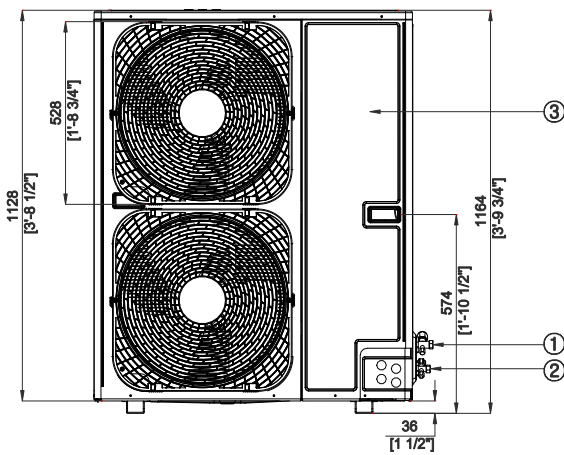
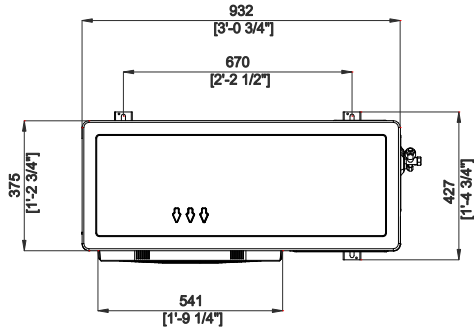


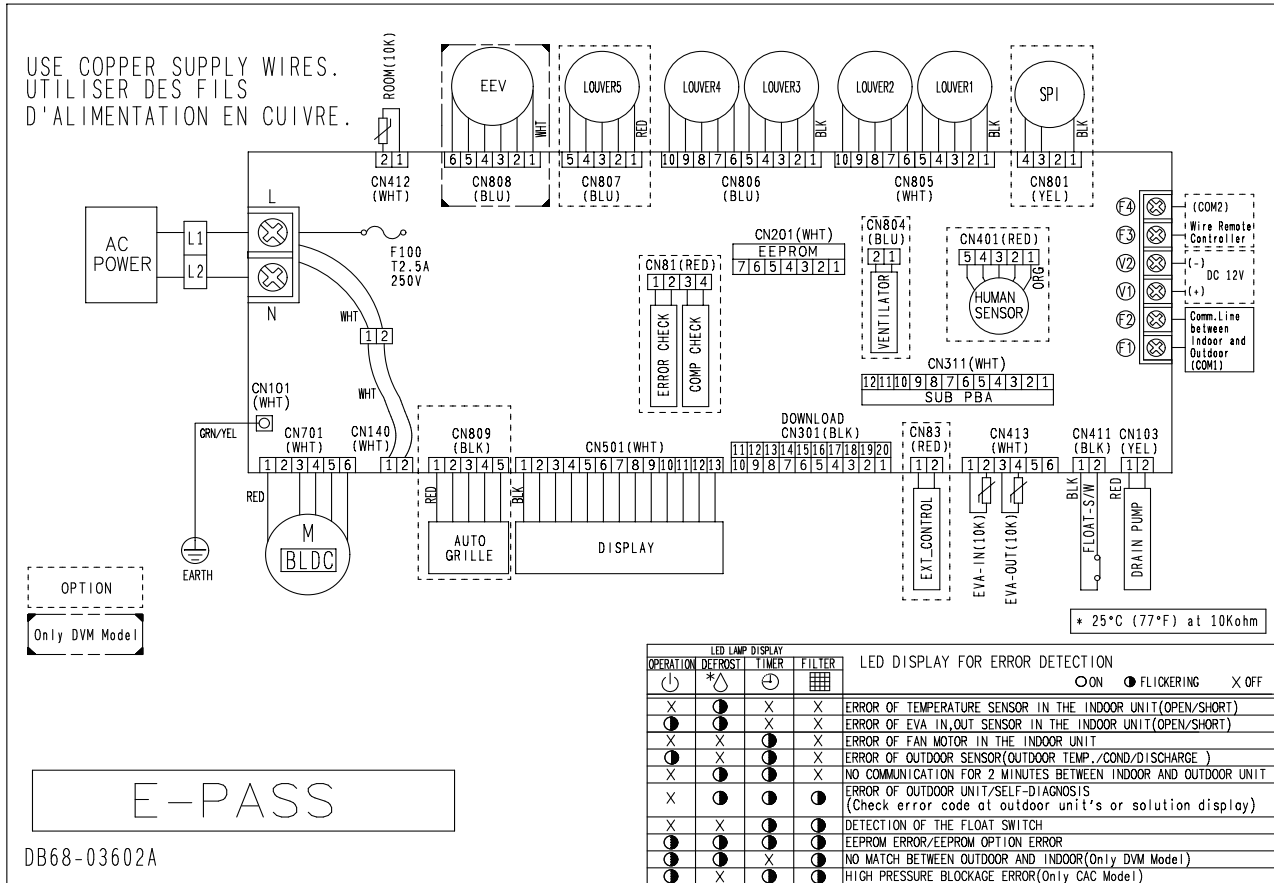
Table of descriptions

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

# 5 Electrical wiring diagram

## Indoor : 4 Way Cassette S

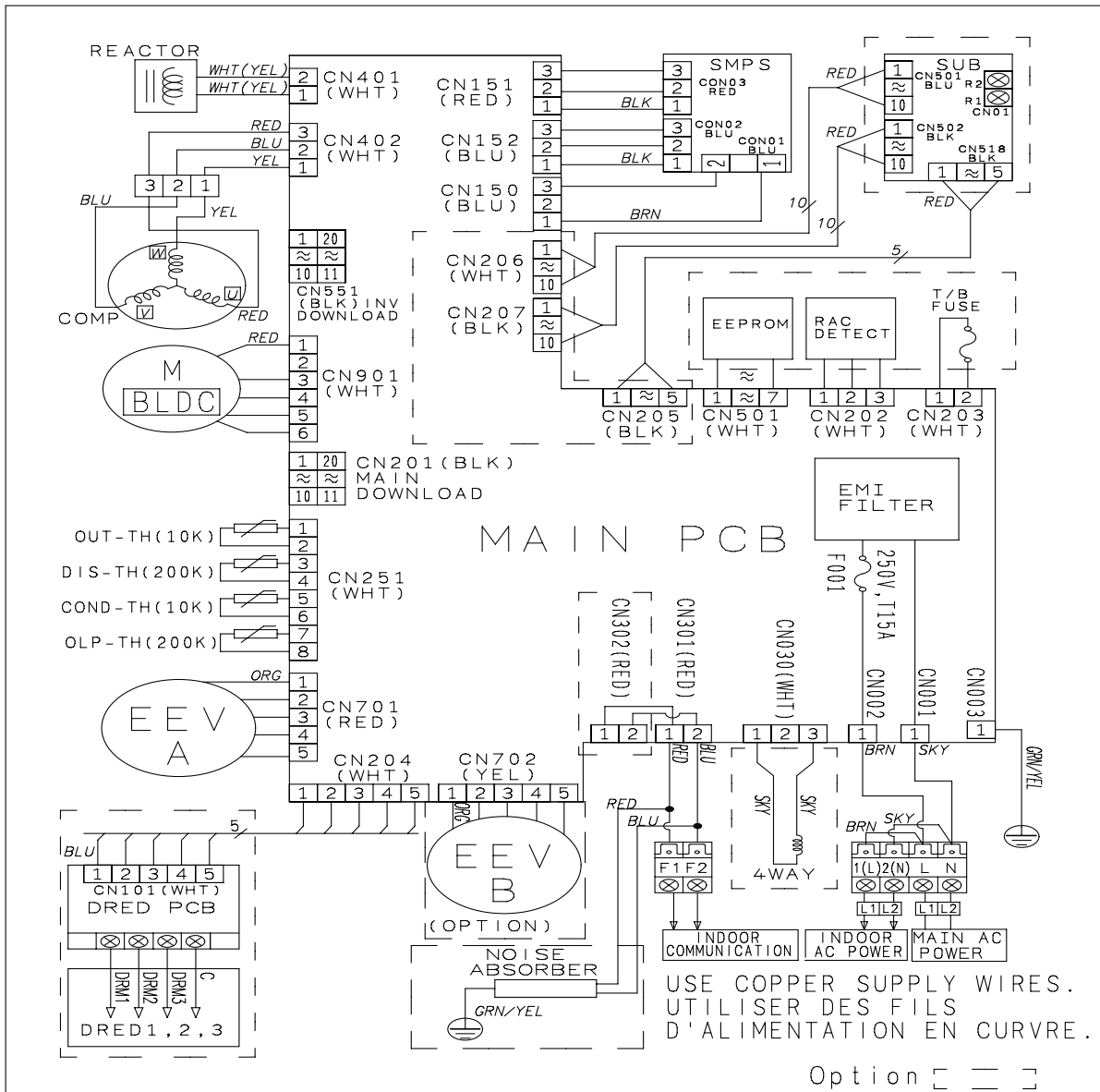
AC052JN4DEH/AF, AC071JN4DEH/AF, AC090JN4DEH/AF, AC100JN4DEH/AF, AC120JN4DEH/AF, AC140JN4DEH/AF



# 5 Electrical wiring diagram

## Outdoor

AC052JX4DEH/AF

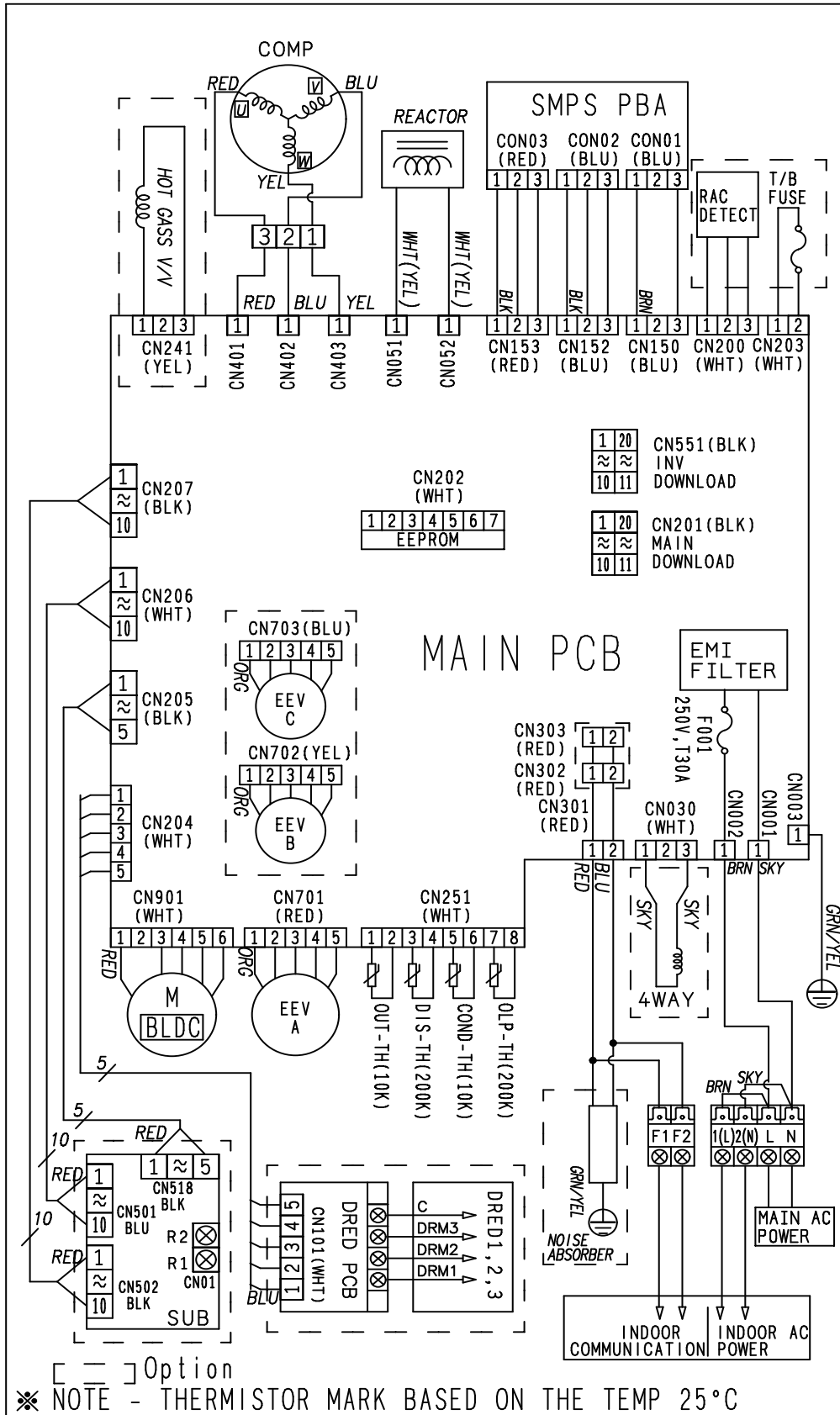


USE COPPER SUPPLY WIRES.  
UTILISER DES FILS  
D'ALIMENTATION EN CURVE.

# 5 Electrical wiring diagram

## Outdoor

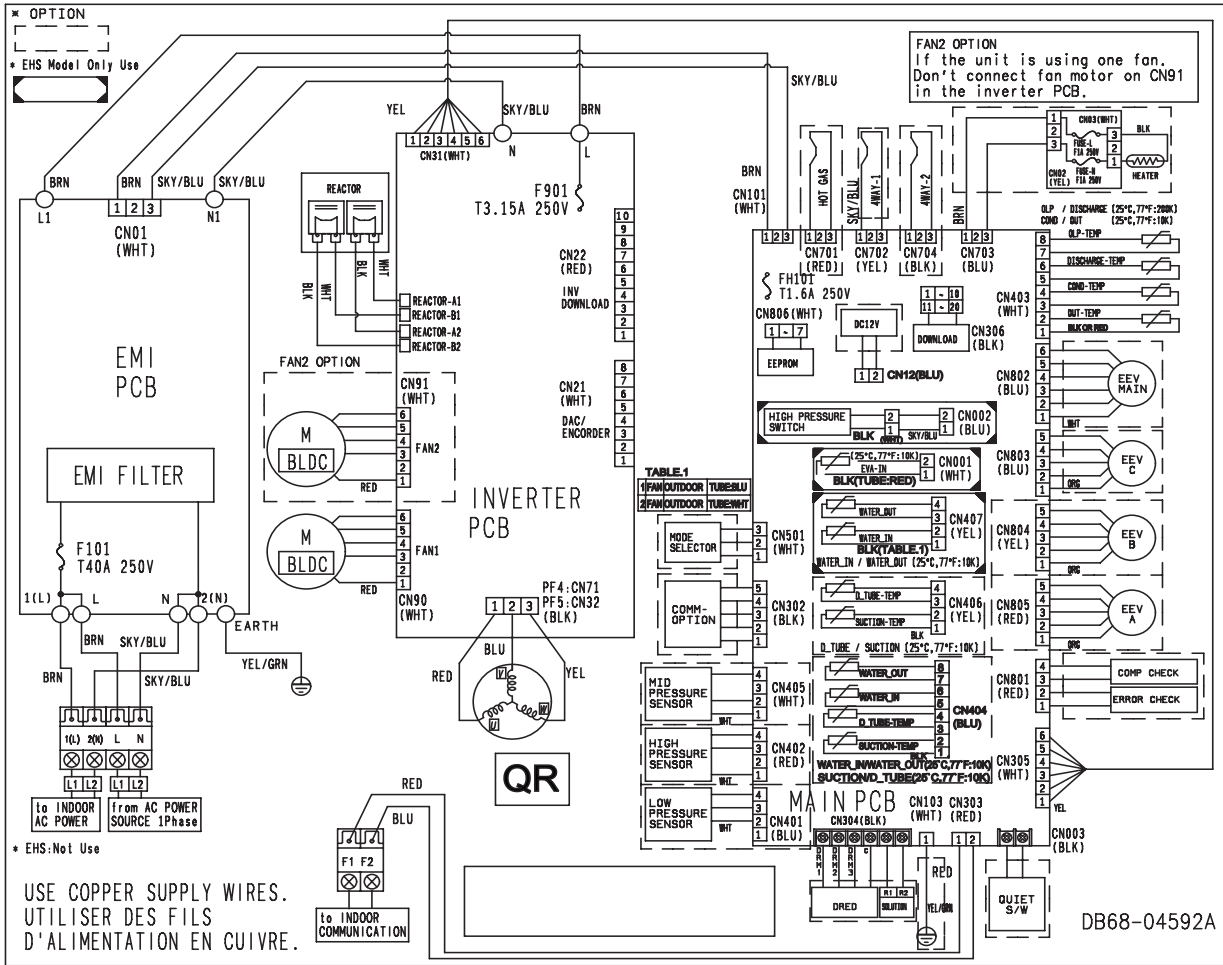
AC071JX4DEH/AF



# 5 Electrical wiring diagram

## Outdoor

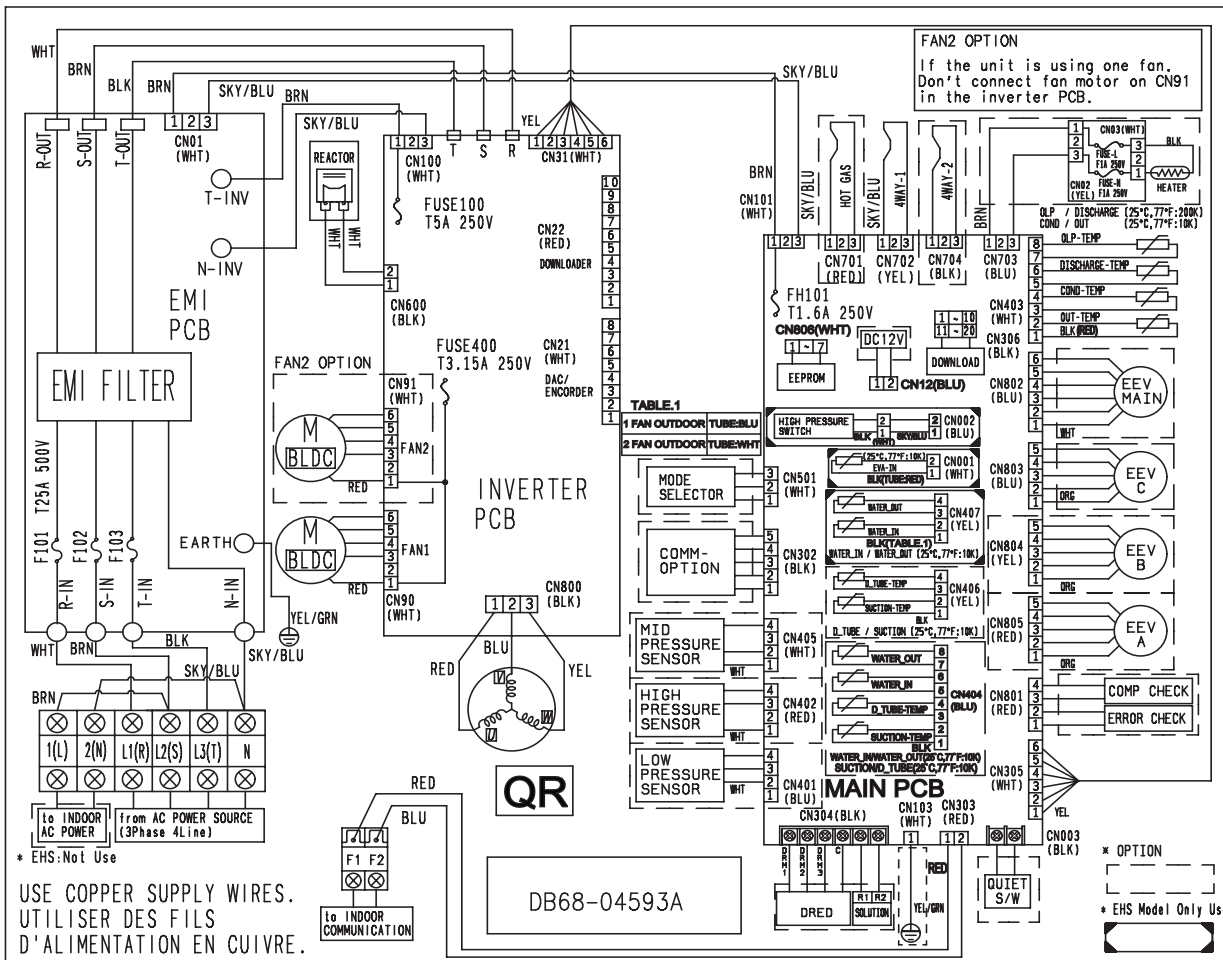
AC090JX4DEH/AF, AC100JX4DEH/AF



# 5 Electrical wiring diagram

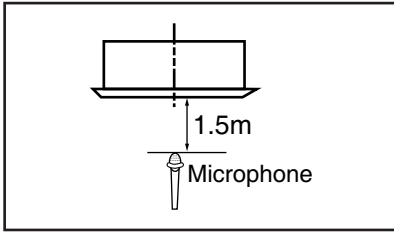
## Outdoor

AC100JX4DGH/AF, AC120JX4DGH/AF, AC140JX4DGH/AF



# 6 Sound pressure level

## Indoor : 4 Way Cassette S



Model	Unit: dB(A)	
	High	Low
AC052JN4DEH/AF (ODU : AC052JX4DEH/AF)	37	31
AC071JN4DEH/AF (ODU : AC071JX4DEH/AF)	43	37
AC090JN4DEH/AF (ODU : AC090JX4DEH/AF)	42	33
AC100JN4DEH/AF (ODU : AC100JX4DGH/AF)	43	33

### Note

\* Specifications may be subject to change without prior notice

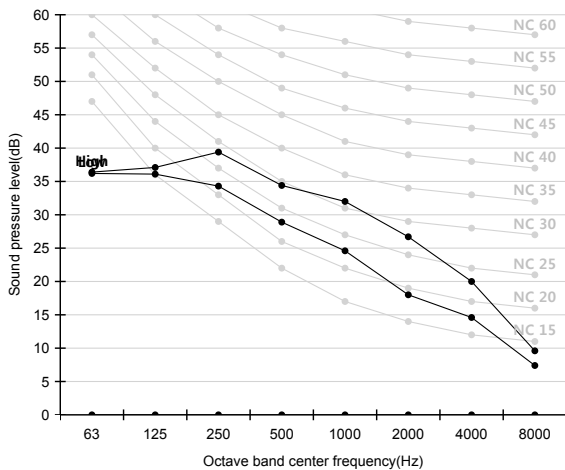
1) These operation values were obtained in an anechoic room.

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.

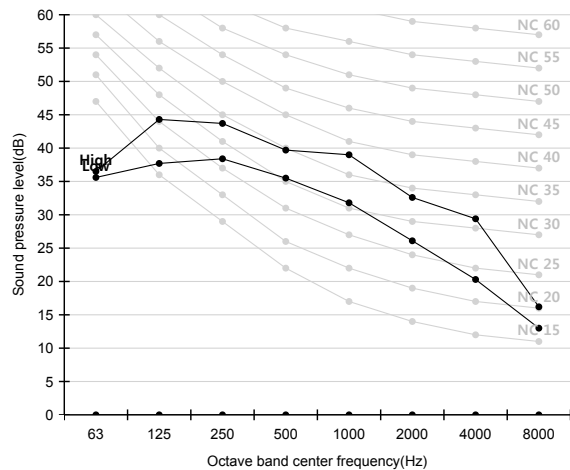
3) Operation sound level may differ depending on operation and ambient conditions.

## NC curve

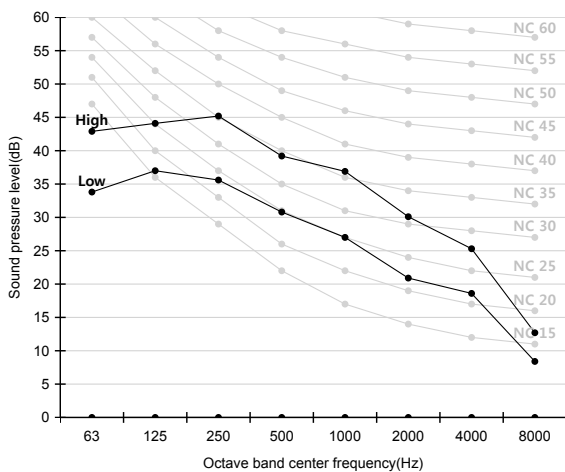
1) AC052JN4DEH/AF (ODU : AC052JX4DEH/AF)



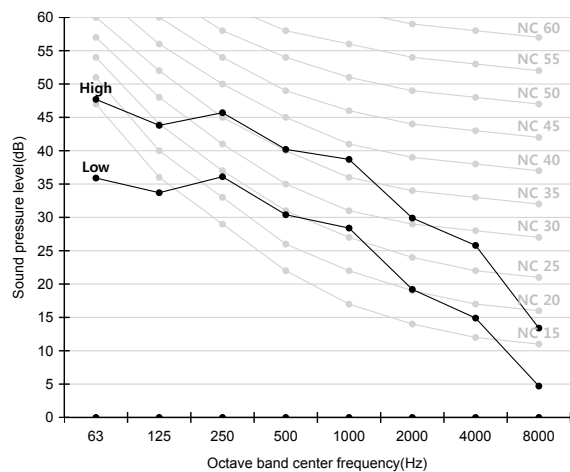
2) AC071JN4DEH/AF (ODU : AC071JX4DEH/AF)



3) AC090JN4DEH/AF (ODU : AC090JX4DEH/AF)



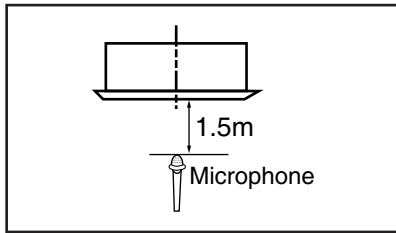
4) AC100JN4DEH/AF (ODU : AC100JX4DGH/AF)





# 6 Sound pressure level

## Indoor : 4 Way Cassette S



Unit: dB(A)

Model	High	Low
AC100JN4DEH/AF (ODU : AC100JX4DEH/AF)	43	33
AC120JN4DEH/AF (ODU : AC120JX4DGH/AF)	44	36
AC140JN4DEH/AF (ODU : AC140JX4DGH/AF)	45	36

### Note

\* Specifications may be subject to change without prior notice

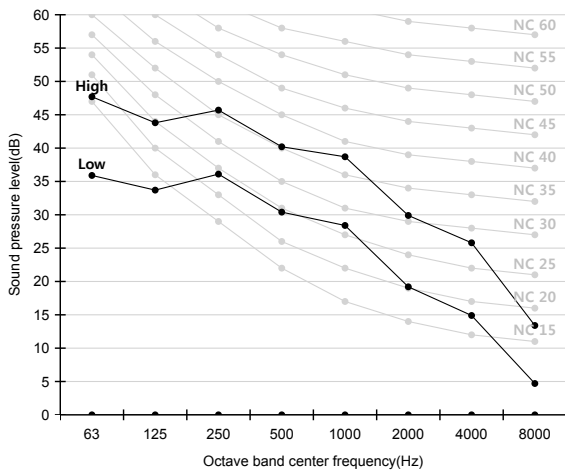
1) These operation values were obtained in an anechoic room.

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.

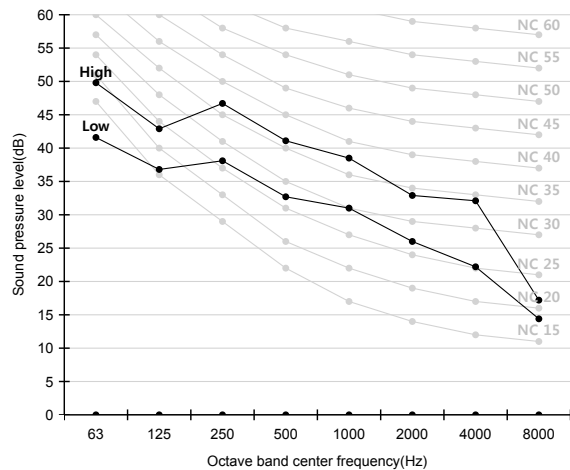
3) Operation sound level may differ depending on operation and ambient conditions.

## NC curve

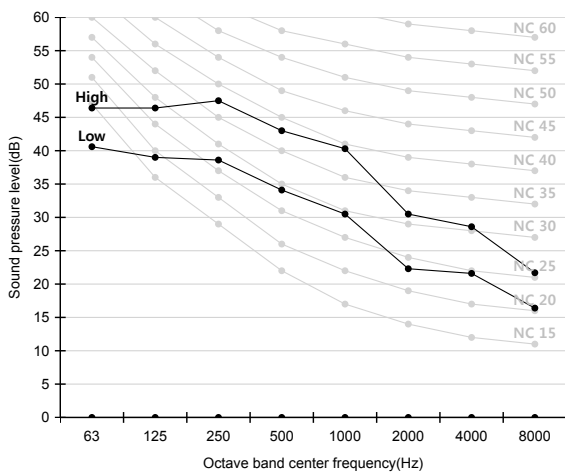
### 1) AC100JN4DEH/AF (ODU : AC100JX4DEH/AF)



### 2) AC120JN4DEH/AF (ODU : AC120JX4DGH/AF)

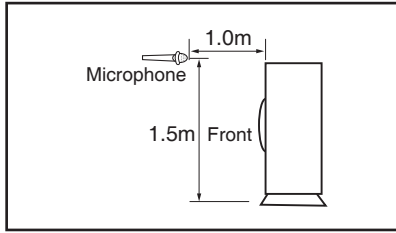


### 3) AC140JN4DEH/AF (ODU : AC140JX4DGH/AF)



# 6 Sound pressure level

## Outdoor



Unit: dB(A)	
Model	Cooling
AC052JX4DEH/AF (IDU : AC052JN4DEH/AF)	47
AC071JX4DEH/AF (IDU : AC071JN4DEH/AF)	49
AC090JX4DEH/AF (IDU : AC090JN4DEH/AF)	54
AC100JX4DGH/AF (IDU : AC100JN4DEH/AF)	55

### Note

\* Specifications may be subject to change without prior notice

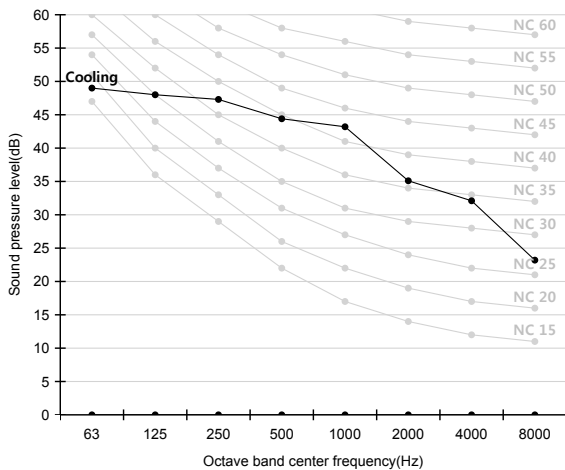
1) These operation values were obtained in an anechoic room.

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.

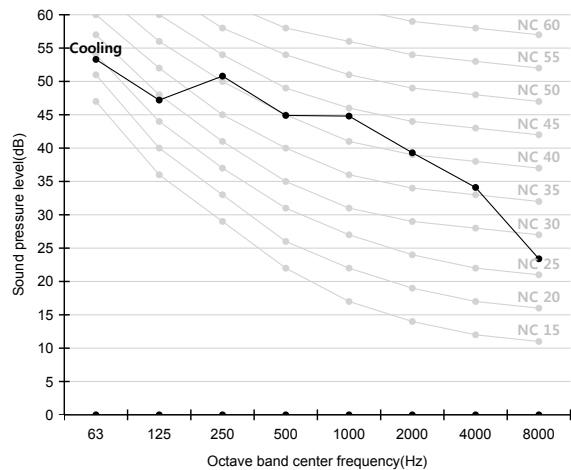
3) Operation sound level may differ depending on operation and ambient conditions.

## NC curve

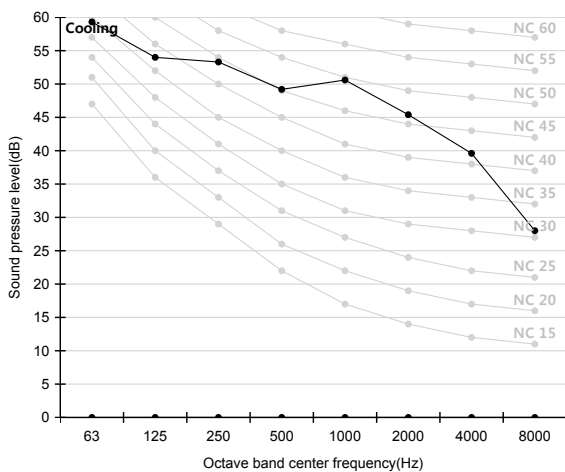
1) AC052JX4DEH/AF (IDU : AC052JN4DEH/AF)



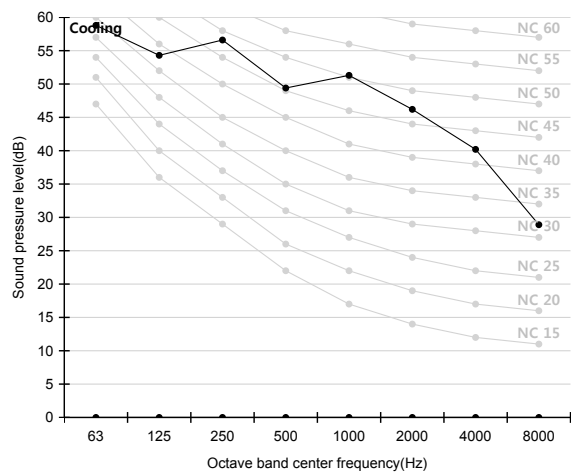
2) AC071JX4DEH/AF (IDU : AC071JN4DEH/AF)



3) AC090JX4DEH/AF (IDU : AC090JN4DEH/AF)

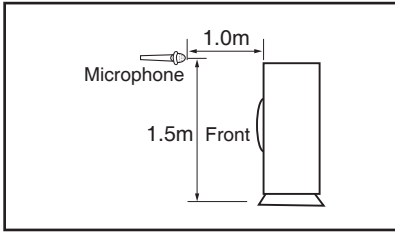


4) AC100JX4DGH/AF (IDU : AC100JN4DEH/AF)



# 6 Sound pressure level

## Outdoor



Unit: dB(A)	
Model	Cooling
AC100JX4DEH/AF (IDU : AC100JN4DEH/AF)	55
AC120JX4DGH/AF (IDU : AC120JN4DEH/AF)	57
AC140JX4DGH/AF (IDU : AC140JN4DEH/AF)	57

### Note

\* Specifications may be subject to change without prior notice

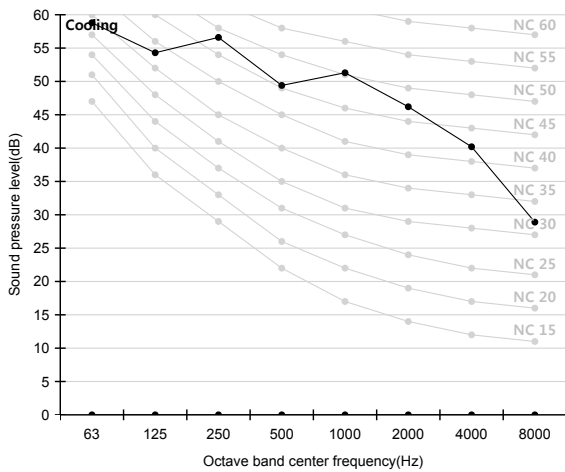
1) These operation values were obtained in an anechoic room.

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.

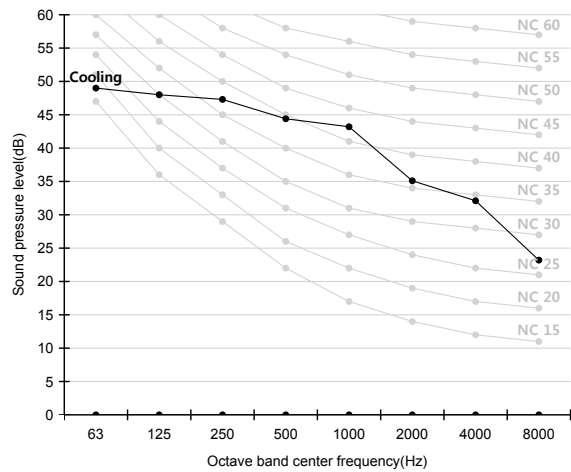
3) Operation sound level may differ depending on operation and ambient conditions.

## NC curve

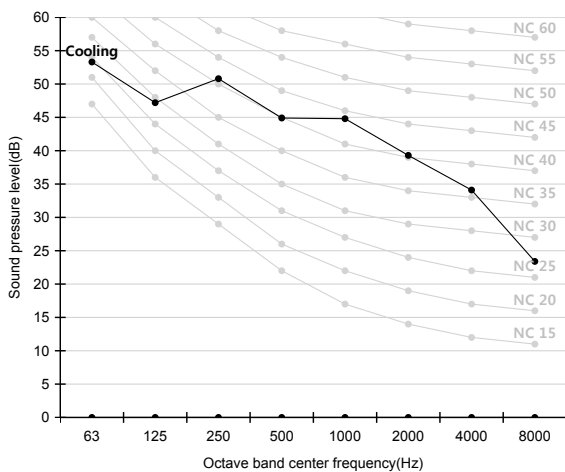
### 1) AC100JX4DEH/AF (IDU : AC100JN4DEH/AF)



### 2) AC120JX4DGH/AF (IDU : AC120JN4DEH/AF)



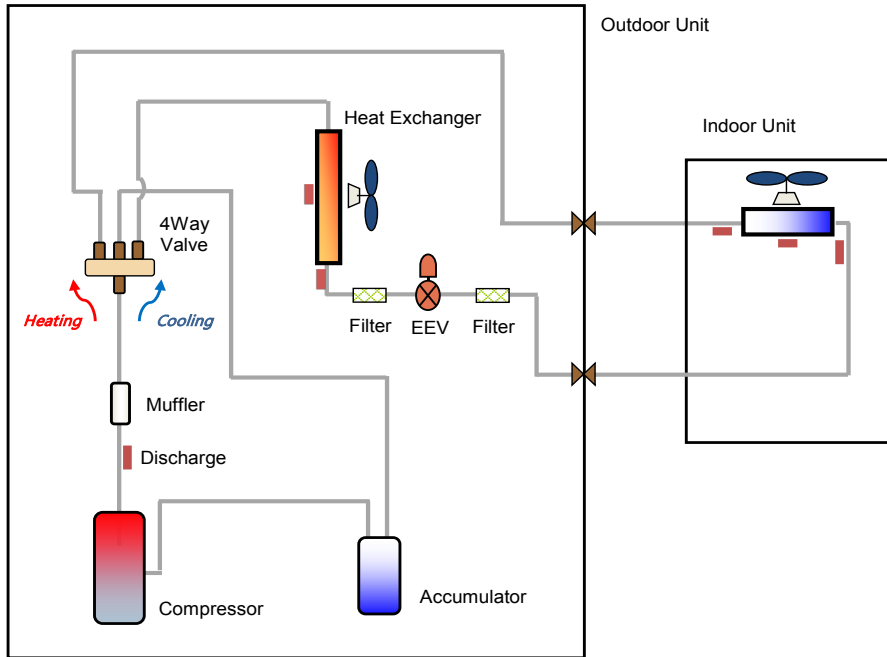
### 3) AC140JX4DGH/AF (IDU : AC140JN4DEH/AF)



# 7 Cycle diagram

## Outdoor

AC052JX4DEH/AF, AC071JX4DEH/AF, AC090JX4DEH/AF, AC100JX4DGH/AF, AC100JX4DEH/AF, AC120JX4DGH/AF, AC140JX4DGH/AF



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




# 8 Capacity correction

## Outdoor


AC090JN4DEH/AF + AC090JX4DEH/AF

### Cooling



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


### Heating



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


AC100JN4DEH/AF + AC100JX4DEH/AF

### Cooling



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

### Heating



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

# 8 Capacity correction

## Outdoor

AC100JN4DEH/AF + AC100JX4DGH/AF

### Cooling

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

### Heating

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

AC120JN4DEH/AF + AC120JX4DGH/AF

### Cooling

		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.90	0.87	0.85	0.83	0.81
	25	-	-	-	-	0.92	0.90	0.87	0.85	0.83	0.81
	20	-	-	-	0.94	0.92	0.90	0.87	0.85	0.83	0.81
	15	-	-	0.96	0.94	0.92	0.90	0.87	0.85	0.83	0.81
	10	-	0.98	0.96	0.94	0.92	0.90	0.87	0.85	0.83	0.81
	5	1.00	0.98	0.96	0.94	0.92	0.90	0.87	0.85	0.83	0.81
	0	1.00	0.98	0.96	0.94	0.92	0.90	0.87	0.85	0.83	0.81
	-5	1.00	0.97	0.96	0.94	0.92	0.90	0.87	0.85	0.83	0.81
	-10	-	0.96	0.95	0.94	0.92	0.89	0.86	0.85	0.83	0.81
	-15	-	-	0.95	0.93	0.92	0.89	0.86	0.84	0.82	0.80
	-20	-	-	-	0.92	0.91	0.89	0.86	0.84	0.82	0.80
	-25	-	-	-	-	0.90	0.88	0.85	0.83	0.81	0.79
	-30	-	-	-	-	-	0.87	0.84	0.83	0.81	0.79

### Heating


		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.91	0.89	0.87	0.85	0.83
	25	-	-	-	-	0.92	0.91	0.89	0.87	0.85	0.83
	20	-	-	-	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	15	-	-	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	10	-	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	5	1.00	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	0	1.00	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	-5	1.00	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	-10	-	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	-15	-	-	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	-20	-	-	-	0.94	0.92	0.91	0.89	0.87	0.85	0.83
	-25	-	-	-	-	0.92	0.91	0.89	0.87	0.85	0.83
	-30	-	-	-	-	-	0.91	0.89	0.87	0.85	0.83

# 8 Capacity correction

## Outdoor


AC140JN4DEH/AF + AC140JX4DGH/AF

### Cooling



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.87	0.84	0.82	0.79	0.77
	25	-	-	-	-	0.90	0.87	0.84	0.82	0.79	0.77
	20	-	-	-	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	15	-	-	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	10	-	0.97	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	5	1.00	0.97	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	0	1.00	0.97	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	-5	1.00	0.97	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	-10	-	0.96	0.94	0.92	0.90	0.87	0.84	0.82	0.79	0.77
	-15	-	-	0.93	0.91	0.89	0.86	0.83	0.82	0.79	0.77
	-20	-	-	-	0.90	0.89	0.86	0.83	0.81	0.78	0.76
	-25	-	-	-	-	0.89	0.86	0.83	0.81	0.78	0.76
-30	-	-	-	-	-	0.85	0.82	0.80	0.78	0.76	

### Heating



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.90	0.88	0.86	0.84	0.82
	25	-	-	-	-	0.92	0.90	0.88	0.86	0.84	0.82
	20	-	-	-	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	15	-	-	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	10	-	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	5	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	0	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	-5	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	-10	-	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	-15	-	-	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	-20	-	-	-	0.94	0.92	0.90	0.88	0.86	0.84	0.82
	-25	-	-	-	-	0.92	0.90	0.88	0.86	0.84	0.82
-30	-	-	-	-	-	0.90	0.88	0.86	0.84	0.82	



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