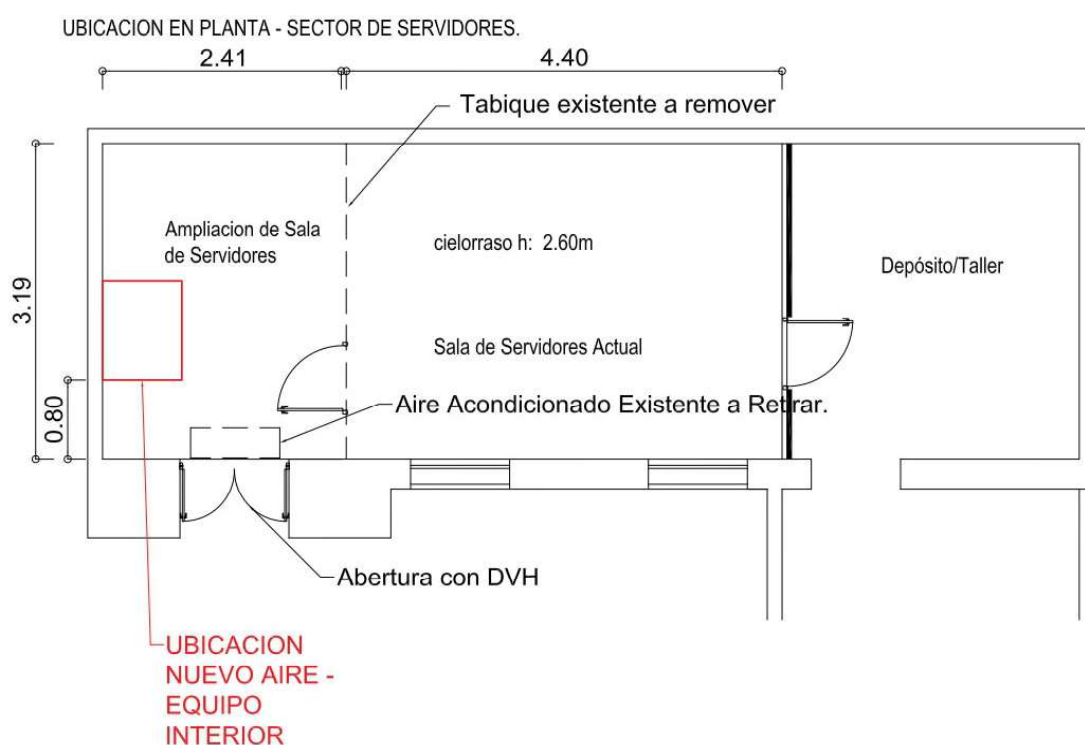


PROVISION E INSTALACION DE UN AIRE ACONDICIONADO EN LA SALA DE SERVIDORES DEL INMUEBLE DEL CENTRO DE TELEMÁTICA | UNL

DIRECCION: PASAJE MARTÍNEZ 2652

Se deberá hacer la provisión, instalación, montaje y puesta en marcha una (1) unidad baja silueta de 25.000 frg/h con compresor inverter. Para presupuestar se debe conocer el lugar donde se instalará el nuevo equipo para subsanar cualquier observación que pueda surgir por parte de los oferentes.



El presupuesto tendrá en cuenta también un control de la unidad para detección de fallas. Cañerías de cobre y aislaciones para interconexión de gas. Soportes y accesorios de montaje. Gas refrigerante adicional. Cableado de comunicación y comando. Cableado y conexionado de control. Pruebas, regulaciones y puesta en marcha.

El equipo elegido para instalar en el sector debido a las prestaciones y a las medidas del local, es de la Marca Samsung (ver documento adjunto).

NOTAS ACLARACIONES

El desagüe del nuevo equipo de aire interior puede dirigirse y usar el mismo desagüe del aire existente en la sala que se debe retirar.

El equipo exterior deberá ubicarse en la terraza, sobre el local donde se intervendrá.



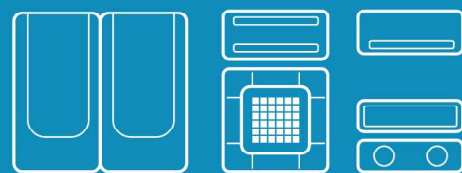
Además en el presupuesto de debe contemplar el retiro del aire acondicionado tipo Split, existente en el lugar.

En las ofertas se detallaran los modelos y marcas, en caso de presupuestar alternativas, y la instalación que se realizará teniendo en cuenta marca, material, secciones y toda información necesaria para la correcta evaluación de las propuestas.

SINGLE

Technical Data Book

Big duct /Big Ceiling for Argentina (R410A, 50Hz, HP)



Model : IDU : AC****N***H/AR

ODU : AC****X***H/AR

History

Version	Modification	Date	Remark
Ver 1.0	Release SINGLE Big duct /Big Ceiling for Argentina (R410A, 50Hz, HP)	17.02.15	-
Ver 1.1	Revised Compressor Oil type of outdoor unit	18.10.18	-

Nomenclature

Indoor Units

Model Names

AC

(1)

200

(2)

K

(3)

N

(4)

H

(5)

P

(6)

K

(7)

H

(8)

/**AR**

Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
N	4Way Cassette (600 x 600)
4	4Way Cassette
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)

Nomenclature

Outdoor Units

Model Names

AC

(1)

200

(2)

K

(3)

X

(4)

A

(5)

P

(6)

N

(7)

H

(8)

/**AR**

Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Feature1

A	Inv+Side+General Temp
B	Non Inv+Side+General Temp

(6) Feature2

D	Deluxe
F	Flagship
P	Premium
S	Standard

(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

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

Big Duct

- 1 Specifications*** _____
- 2 Capacity table*** _____
- 3 Dimensional drawing*** _____
- 4 Electrical wiring diagram*** _____
- 5 Sound pressure level*** _____
- 6 Sound power level*** _____
- 7 Recommended operation range*** _____
- 8 Cycle diagram*** _____
- 9 Capacity correction*** _____

1 Specifications

Big Duct

Type				HSP Duct	HSP Duct
Model Name		Indoor Unit		AC180JNHPKH/AR	AC200KNHPKH/AR
		Outdoor Unit		AC180JXAPHN/AR	AC200KXAPHN/AR
System	Mode			Heat Pump	Heat Pump
	Capacity	Cooling(Min/Std/Max)		kW	6.00 / 18.00 / 20.00
				Btu/h	20,500 / 61,400 / 68,200
		Heating(Min/Std/Max)		kW	4.80 / 20.00 / 22.50
				Btu/h	16,400 / 68,200 / 76,800
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	1.30 / 5.45 / 7.30
			Heating(Min/Std/Max)		1.20 / 5.54 / 7.60
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	2.30 / 8.40 / 16.10
			Heating(Min/Std/Max)		2.20 / 8.60 / 16.10
		MCA		A	18.60 (MCA)
		MFA		A	20.46
	Energy Efficiency	EER (Nominal Cooling)		-	3.30
		COP (Nominal Heating)		-	3.61
		Energy Grade		-	-
	Piping Connections	Liquid Pipe		Ø, mm	9.52
				Ø, inch	3/8"
		Gas Pipe		Ø, mm	19.05
				Ø, inch	3/4"
		Installation Limitation	Max. Length	m	75
			Max. Height	m	30
	Field Wiring	Power Source Wire		Ø, mm	-
		Transmission Cable		Ø, mm	-
	Refrigerant	Type		-	R410A
		Control Method		-	-
		Factory Charging		kg / tCO2e	4.60 / 9.60
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Fan	Type		-	Sirocco Fan
		Motor	Output	W	630
			CMM	71.00 / 60.00 / 50.00	72.00 / 62.00 / 48.00
		Air Flow Rate		l/s	1,183.33 / 1,000.00 / 833.33
		External Static Pressure	Min/Std/Max	mmAq	5.00 / 6.12 / 20.00
				Pa	49.00 / 60.00 / 196.00
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)
		Pressure		High/Mid/Low	43 / 39 / 35
	Sound	Power	High/Mid/Low		
			Cooling	dB(A)	69
	External Dimension	Net Weight		kg	82.50
		Shipping Weight		kg	92.00
		Net Dimensions (WxHxD)		mm	1,350 x 450 x 910
		Shipping Dimensions (WxHxD)		mm	1,612 x 519 x 984
		Panel model		-	-
	Panel Size	Panel Net Weight		kg	-
		Shipping Weight		kg	-
		Net Dimensions (WxHxD)		mm	-
		Shipping Dimensions (WxHxD)		mm	-
	Additional Accessories	Drain pump	External	-	MDP-G075SP
			Internal	-	MDP-G075SQ
		Air Filter		-	-
Outdoor Unit	Power Supply		Ø, #, V, Hz	3,4,380-415,50	3,4,380-415,50
	Compressor	Type		-	Twin BLDC Rotary
		Model		-	UG5T520FUBJX
		Output		kW	4.78
		Oil	Type	-	PVE
					PVE
	Fan	Air Flow Rate	Cooling	CMM	110.00
				l/s	1,833.33
	Sound	Pressure	Cooling/Heating	dB(A)	55 / 57
			Cooling		76
	External Dimension	Net Weight		kg	107.50
		Shipping Weight		kg	117.50
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426
		Operating Temp. Range		°C	-15.0 ~ 50.0
		Cooling		°C	-20.0 ~ 50.0
		Heating		°C	-20.0 ~ 24.0

- All figures comply with EN14511

- Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Refrigerant piping : 5m , Level differences : 0m

- Nominal heating capacities are based on;

Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Refrigerant piping : 5m, Level differences : 0m

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

- Specifications may be subject to change without prior notice.

- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

- If indoor unit is located in a higher position than outdoor unit, please refer to the ()* value of Installation Height Limitation.

1 Specifications

Big Duct

Type				HSP Duct
Model Name	Indoor Unit			AC250KNHPKH/AR
	Outdoor Unit			AC250KXAPH/AR
System	Mode			Heat Pump
	Capacity	Cooling(Min/Std/Max)	kW	9.00 / 25.00 / 28.50
			Btu/h	30,700 / 85,300 / 97,200
		Heating(Min/Std/Max)	kW	10.00 / 27.00 / 32.00
			Btu/h	34,100 / 92,100 / 109,200
	Power	Power Input (Nominal)	kW	2.60 / 9.58 / 12.00
				2.50 / 8.33 / 13.50
		Current Input (Nominal)	A	4.70 / 14.90 / 18.40
				4.50 / 12.90 / 22.00
		MCA	A	25.00
		MFA	A	31.25
	Energy Efficiency	EER (Nominal Cooling)	-	2.61
		COP (Nominal Heating)	-	3.24
		Energy Grade	-	-
	Piping Connections	Liquid Pipe	Ø, mm	9.52
			Ø, inch	3/8"
		Gas Pipe	Ø, mm	22.22
			Ø, inch	7/8"
		Installation Limitation	Max. Length	75
			Max. Height	30
	Field Wiring	Power Source Wire	Ø, mm	-
		Transmission Cable	Ø, mm	-
	Refrigerant	Type	-	R410A
		Control Method	-	-
		Factory Charging	kg / tCO2e	6.60 / 13.78
Indoor Unit	Power Supply			Ø, #, V, Hz
	Fan	Type	-	Sirocco Fan
		Motor	Output	W
		Air Flow Rate	CMM	630
			l/s	80.00 / 64.00 / 51.00
		External Static Pressure	mmAq	1,333.33 / 1,066.67 / 850.00
			Pa	5.00 / 7.34 / 20.00
	Drain	Drain Pipe	Ø,mm	49.00 / 71.95 / 196.00
		Pressure	High/Mid/Low	VP25 (OD 32, ID 25)
	Sound	Power	dB(A)	47 / 42 / 37
		Cooling		72
	External Dimension	Net Weight	kg	82.50
		Shipping Weight	kg	92.00
		Net Dimensions (WxHxD)	mm	1,350 x 450 x 910
		Shipping Dimensions (WxHxD)	mm	1,612 x 519 x 984
	Panel Size	Panel model	-	-
		Panel Net Weight	kg	-
		Shipping Weight	kg	-
		Net Dimensions (WxHxD)	mm	-
		Shipping Dimensions (WxHxD)	mm	-
	Additional Accessories	Drain pump	External	MDP-G075SP
		Air Filter	Internal	MDP-G075SQ
Outdoor Unit	Power Supply			Ø, #, V, Hz
	Compressor	Type	-	3,438~415,50
		Model	-	BLDC Scroll
		Output	kW	DS-GB066FAVB
		Oil	Type	6.39
	Fan	Air Flow Rate	CMM	PVE
			l/s	200.00
	Sound	Pressure	Cooling/Heating	3,333.33
		Power	Cooling	59 / 61
	External Dimension	Net Weight	kg	77
		Shipping Weight	kg	154.00
		Net Dimensions (WxHxD)	mm	167.00
		Shipping Dimensions (WxHxD)	mm	940 x 1,630 x 460
	Operating Temp. Range	Cooling	°C	1,020 x 1,820 x 575
		Heating	°C	-20.0 ~ 50.0
				-20.0 ~ 24.0

* Specifications may be subject to change without prior notice.

- 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
- 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
- Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

2 Capacity table

AC180JNHPKH/AR + AC180JXAPNH/AR

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	19,91	15,93	4,15	20,40	16,32	4,26	20,91	16,72	4,36	21,42	17,14	4,47	21,93	17,55	4,58	22,46	17,97	4,69
21.0	20,75	16,60	4,31	21,26	17,01	4,41	21,78	17,43	4,52	22,32	17,86	4,63	22,86	18,28	4,74	23,40	18,72	4,86
35.0	16,73	13,39	5,07	17,15	13,72	5,19	17,57	14,05	5,32	18,00	14,40	5,45	18,43	14,75	5,58	18,87	15,10	5,71
46.0	13,22	10,58	5,83	13,55	10,84	5,97	13,88	11,10	6,12	14,22	11,38	6,27	14,56	11,65	6,42	14,91	11,93	6,57
52.0	10,86	8,69	5,32	11,13	8,90	5,45	11,40	9,12	5,59	11,68	9,35	5,72	11,96	9,57	5,85	12,25	9,80	5,98

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	14,08	7,06	13,94	6,99	13,80	6,93	13,66	6,86	13,53	6,79	13,39	6,72
-10.0	19,18	8,19	18,99	8,11	18,80	8,03	18,61	7,95	18,43	7,87	18,24	7,79
7.0	20,40	5,65	20,20	5,60	20,00	5,54	19,80	5,48	19,60	5,43	19,41	5,38
24.0	27,34	6,50	27,07	6,43	26,80	6,37	26,53	6,31	26,27	6,24	26,00	6,18

AC200KNHPKH/AR + AC200KXAPNH/AR

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)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)		
	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)
-20.0	19,90	16,60	4,52	20,90	17,10	4,61	21,80	17,70	4,71	22,50	18,20	4,80	22,90	18,00	4,85	24,10	17,90	4,90
21.0	18,60	15,50	4,86	19,60	16,00	4,96	20,40	16,50	5,06	21,00	17,00	5,16	21,40	16,80	5,21	22,50	16,60	5,26
35.0	17,70	14,70	6,07	18,60	15,20	6,19	19,40	15,70	6,32	20,00	16,20	6,45	20,40	16,00	6,51	21,40	15,80	6,58
46.0	14,00	12,70	6,10	14,70	13,10	6,23	15,30	13,50	6,35	15,80	13,90	6,48	16,10	13,80	6,55	16,90	13,60	6,61
50.0	11,90	11,30	6,12	12,60	11,70	6,24	13,10	12,00	6,37	13,50	12,40	6,50	13,80	12,30	6,57	14,50	12,20	6,63

Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16 (DB)		18 (DB)		20 (DB)		21 (DB)		22 (DB)		24 (DB)	
	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	19,54	8,31	19,41	8,44	19,29	8,61	19,22	8,62	19,16	8,71	19,03	8,77
-20.0	20,30	8,73	20,10	8,87	20,00	9,00	19,90	9,07	19,90	9,14	19,70	9,27
-10.0	21,70	7,65	21,60	7,77	21,40	7,89	21,40	7,94	21,30	8,00	21,20	8,12
0.0	22,40	7,11	22,30	7,22	22,10	7,33	22,10	7,38	22,00	7,44	21,90	7,55
7.0	23,30	6,46	23,20	6,56	23,00	6,66	22,90	6,71	22,90	6,76	22,70	6,86
24.0	28,20	5,53	28,00	5,61	27,80	5,70	27,70	5,74	27,60	5,79	27,40	5,87

AC250KNHPKH/AR + AC250KXAPNH/AR

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)		
	14 (WB)			16 (WB)			18 (WB)			19 (WB)			20 (WB)			22 (WB)		
	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)	TC(kW)	SHC(kW)	PI(kW)
-20.0	24,90	19,40	6,72	26,20	20,00	6,85	27,30	20,60	6,99	28,10	21,20	7,14	28,70	21,00	7,21	30,10	20,80	7,28
21.0	23,20	18,10	7,21	24,40	18,60	7,36	25,50	19,20	7,51	26,30	19,80	7,66	26,80	19,60	7,74	28,10	19,40	7,82
35.0	22,10	17,20	9,02	23,30	17,80	9,20	24,30	18,30	9,39	25,00	18,90	9,58	25,50	18,70	9,68	26,80	18,50	9,77
46.0	14,70	13,60	7,99	15,50	14,10	8,16	16,10	14,50	8,32	16,60	14,90	8,49	17,00	14,80	8,58	17,80	14,60	8,66
50.0	10,70	10,80	7,44	11,20	11,10	7,59	11,40	11,40	7,74	12,10	11,80	7,90	12,30	11,70	7,98	12,90	11,60	8,06

Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°C)											
	16 (DB)		18 (DB)		20 (DB)		21 (DB)		22 (DB)		24 (DB)	
	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)	TC(kW)	PI(kW)
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	19,94	9,15	19,76	9,50	19,57	9,93	19,48	10,09	19,39	10,31	19,20	10,67
-20.0	21,40	9,91	21,20	10,34	21,00	10,77	20,90	10,98	20,80	11,20	20,60	11,63
-10.0	24,30	8,84	24,10	9,22	23,90	9,61	23,70	9,80	23,60	9,99	23,40	10,38
0.0	25,80	8,30	25,50	8,67	25,30	9,03	25,20	9,21	25,10	9,39	24,80	9,75
7.0	27,50	7,66	27,30	8,00	27,00	8,33	26,90	8,50	26,70	8,66	26,50	9,00
24.0	31,80	6,03	31,50	6,29	31,20	6,55	31,10	6,68	30,90	6,81	30,60	7,07

* Specifications may be subject to change without prior notice for product improvement.

1) Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 23/16, 26/18, 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.

2) In case of Inverter models, the cooling capacity on the capacity table can be higher than nominal capacity as inverter compressors operate with different Hz depending on outdoor and indoor temperatures.

3 Dimensional drawing

Indoor

AC180JNHPKH/AR, AC200KNHPKH/AR, AC250KNHPKH/AR

Units : mm / inches

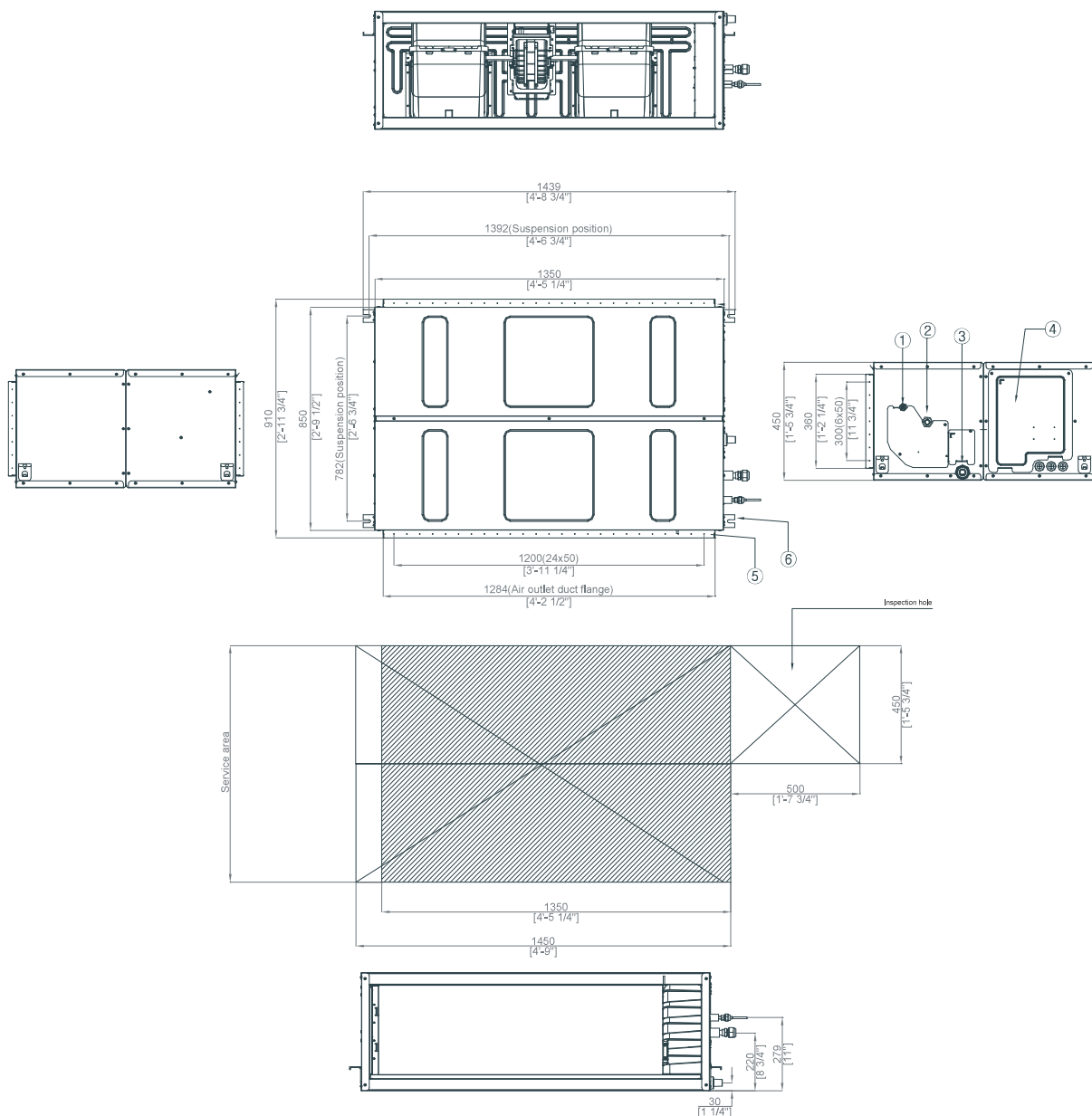


Table of descriptions

1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply connection
5	Air discharge flange
6	Hook

3 Dimensional drawing

Outdoor

AC180JXAPH/AR

Units : mm / inches

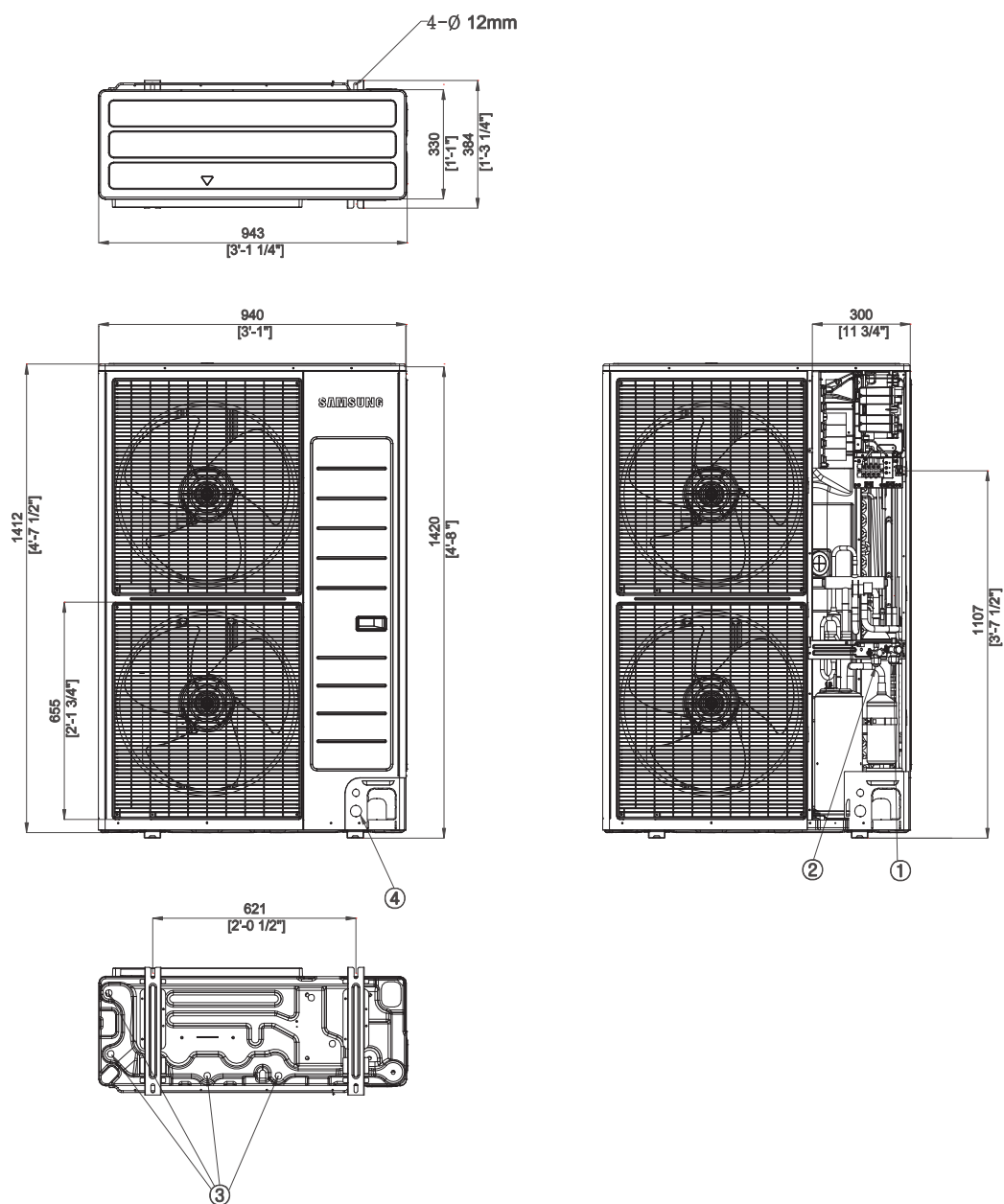


Table of descriptions

1	Refrigerant gas pipe
2	Refrigerant liquid pipe
3	Drain Hole
4	Power & Comm. wiring conduits

3 Dimensional drawing

Outdoor

AC200KXAPNH/AR, AC250KXAPNH/AR

Units : mm / inches

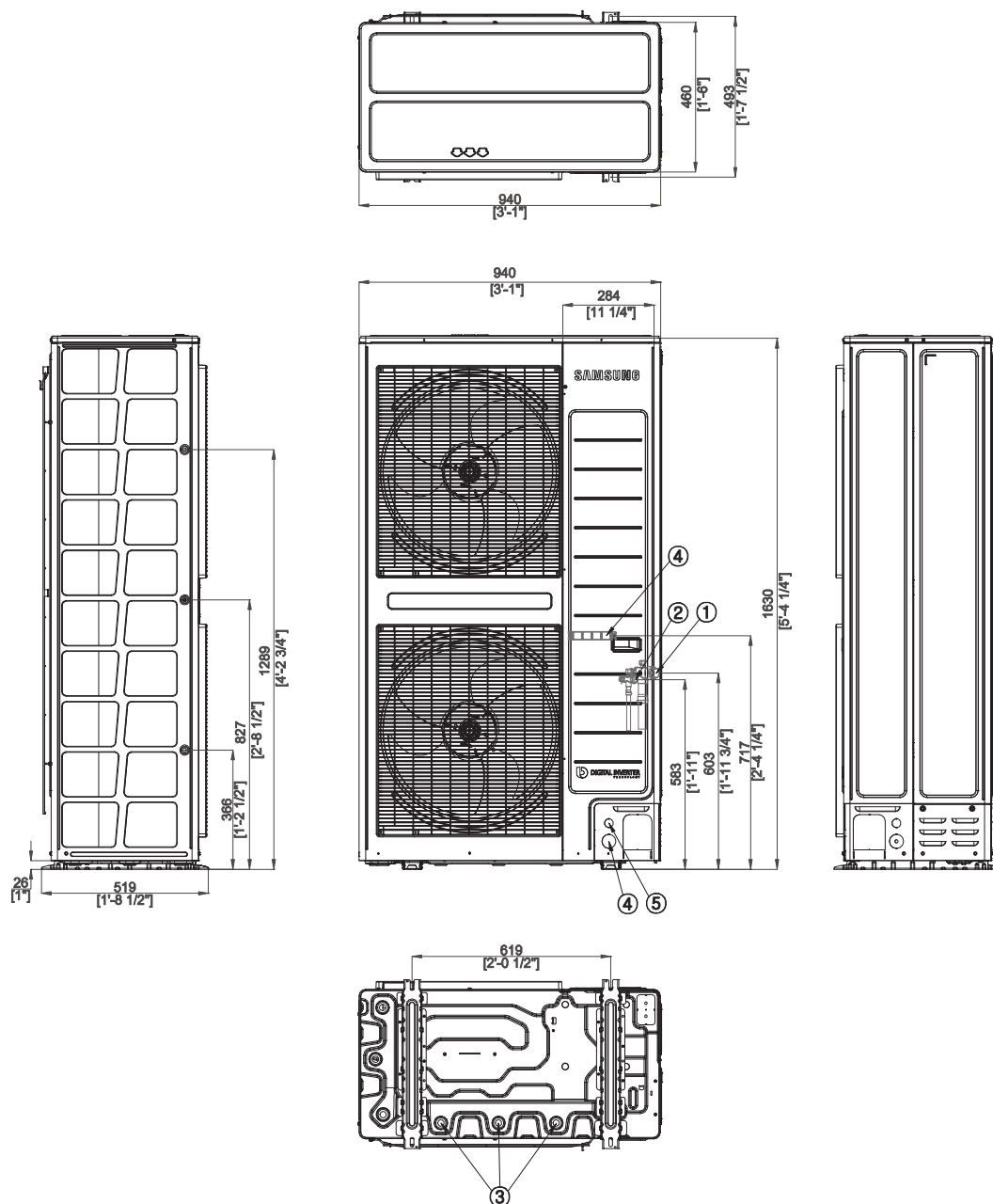


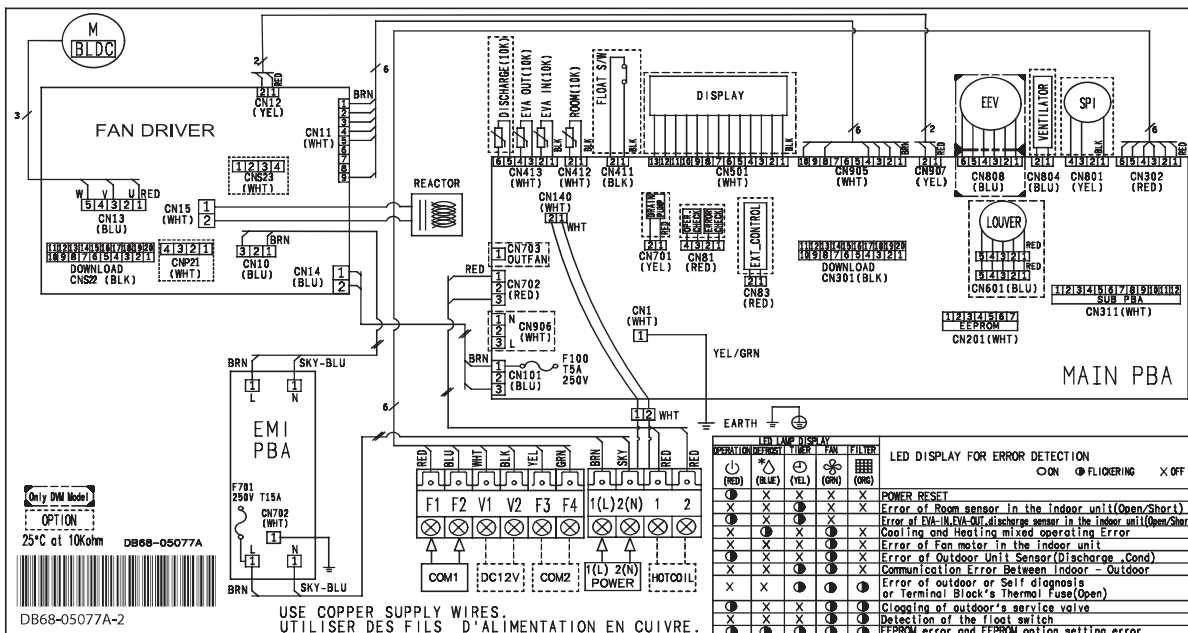
Table of descriptions

1	Refrigerant gas pipe
2	Refrigerant liquid pipe
3	Drain Hole
4	Power wiring conduits
5	Communication wiring conduits

4 Electrical wiring diagram

Indoor

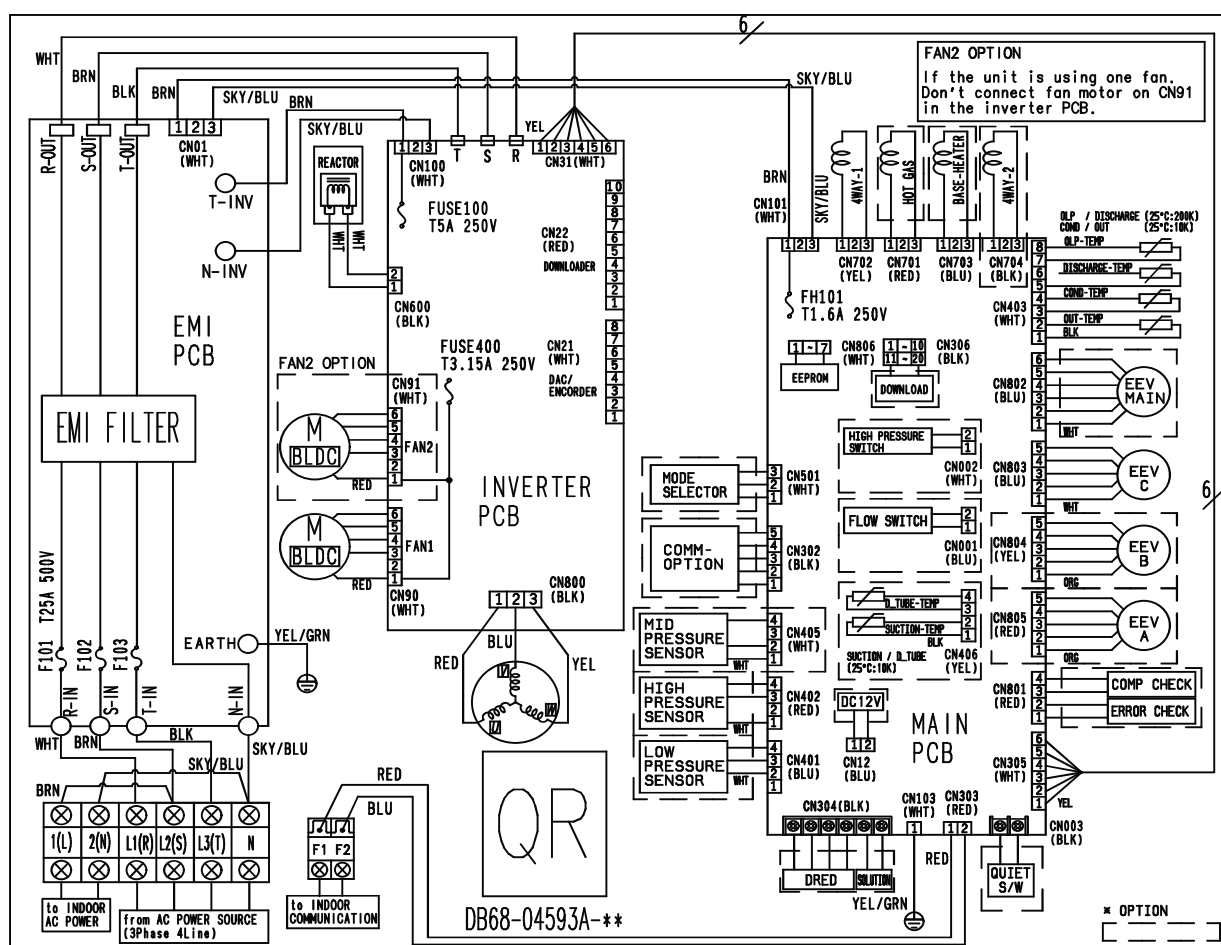
AC180JNHPKH/AR, AC200KNHPKH/AR, AC250KNHPKH/AR



4 Electrical wiring diagram

Outdoor

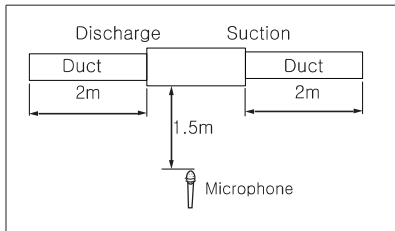
AC180JXAPNH/AR



DB68-05076A-1

5 Sound pressure level

Indoor



Unit: dB(A)

Model	High	Low
AC180JNHPKH/AR (ODU : AC180JXAPNH/AR)	43	35
AC200KNHPKH/AR (ODU : AC200KXAPNH/AR)	44	36
AC250KNHPKH/AR (ODU : AC250KXAPNH/AR)	47	37

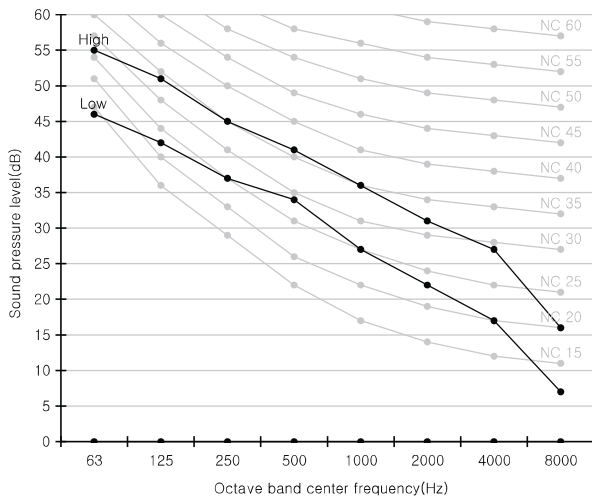
Note

* Specifications may be subject to change without prior notice

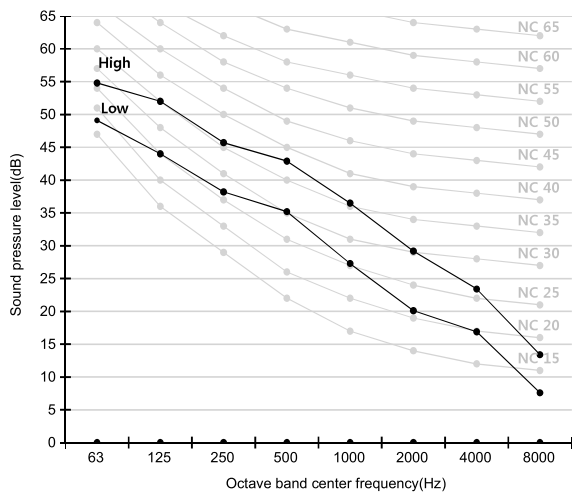
- 1) These operation values were obtained in an anechoic room.
- 2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- 3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

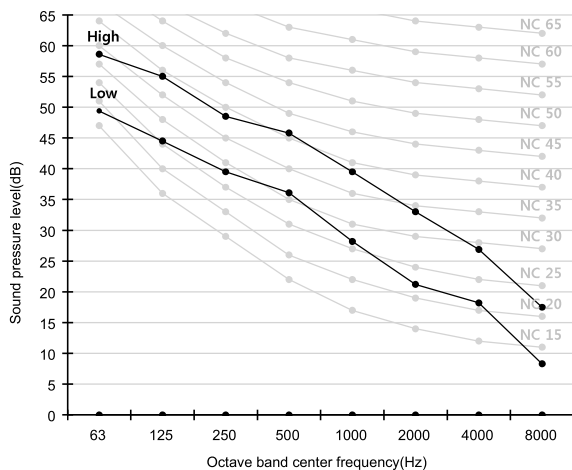
1) AC180JNHPKH/AR (ODU : AC180JXAPNH/AR)



2) AC200KNHPKH/AR (ODU : AC200KXAPNH/AR)

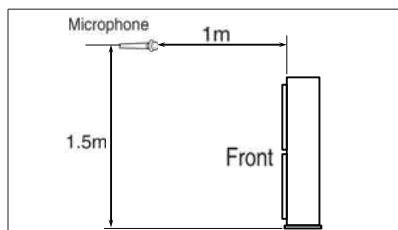


3) AC250KNHPKH/AR (ODU : AC250KXAPNH/AR)



5 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling	Heating
AC180JXAPNH/AR (IDU : AC180JNHPKH/AR)	55	57
AC200KXAPNH/AR (IDU : AC200KNHPKH/AR)	58	60
AC250KXAPNH/AR (IDU : AC250KNHPKH/AR)	59	61

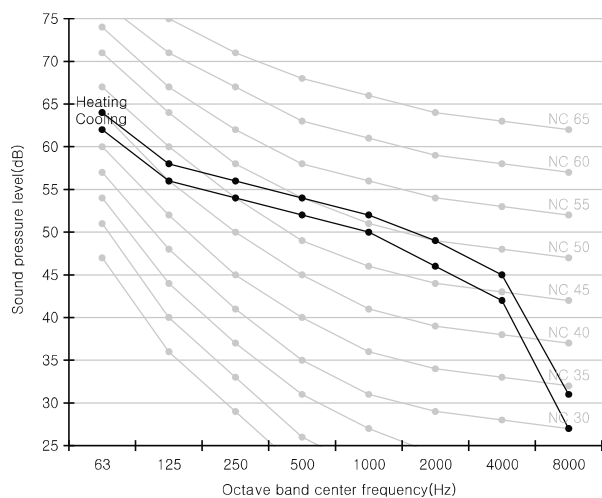
Note

* Specifications may be subject to change without prior notice

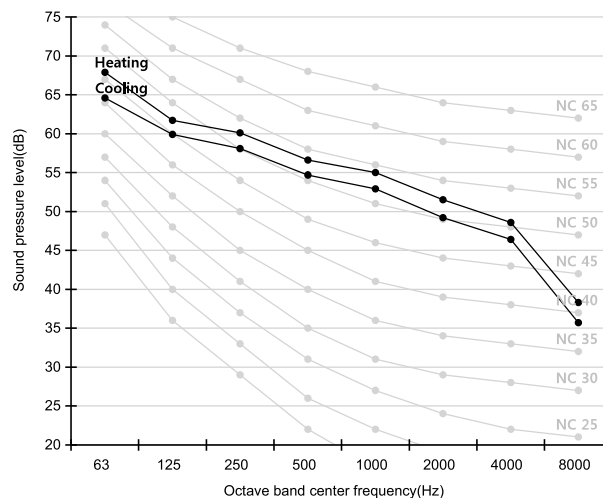
- 1) These operation values were obtained in an anechoic room.
- 2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- 3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

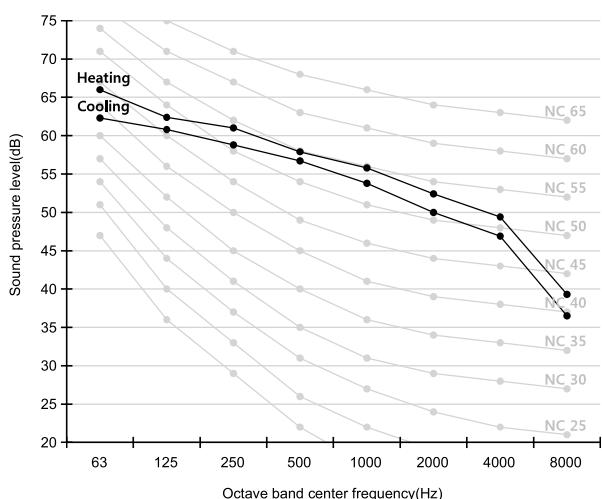
1) AC180JXAPNH/AR (IDU : AC180JNHPKH/AR)



2) AC200KXAPNH/AR (IDU : AC200KNHPKH/AR)



3) AC250KXAPNH/AR (IDU : AC250KNHPKH/AR)



6 Sound Power Level

Indoor

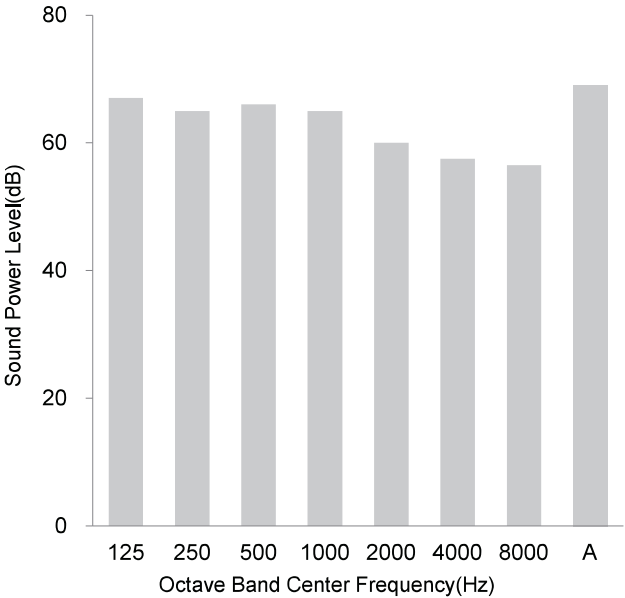
Note

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

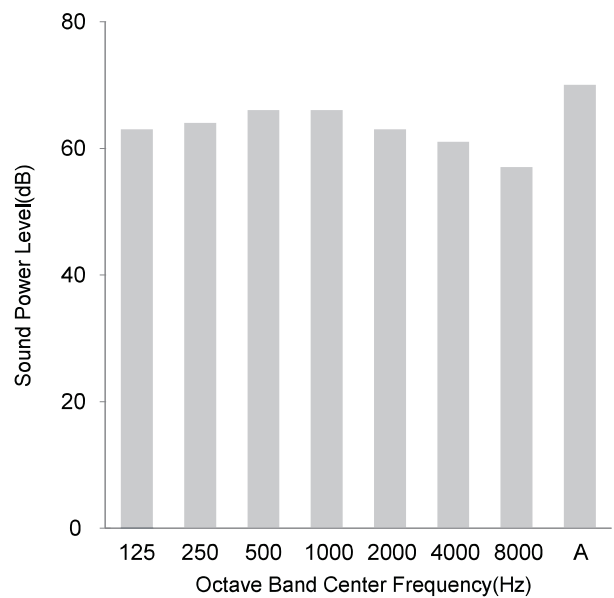
Unit: dB(A)

Model	Power
AC180JNHPKH/AR (ODU : AC180JXAPNH/AR)	69
AC200KNHPKH/AR (ODU : AC200KXAPNH/AR)	70
AC250KNHPKH/AR (ODU : AC250KXAPNH/AR)	72

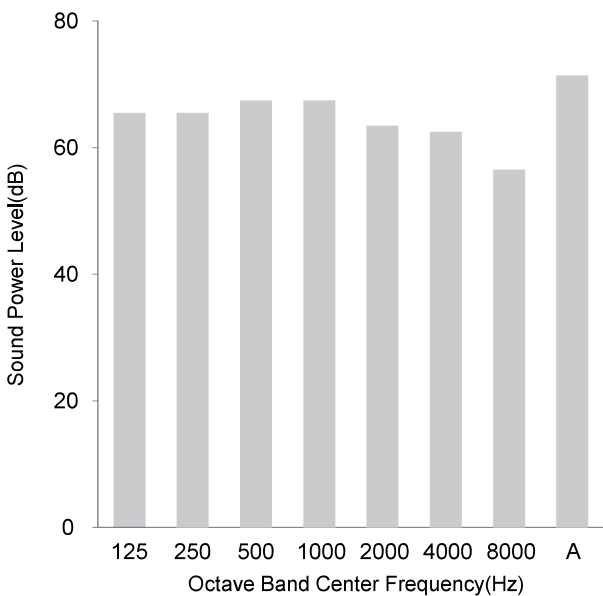
1) AC180JNHPKH/AR (ODU : AC180JXAPNH/AR)



2) AC200KNHPKH/AR (ODU : AC200KXAPNH/AR)



3) AC250KNHPKH/AR (ODU : AC250KXAPNH/AR)



6 Sound power level

Outdoor

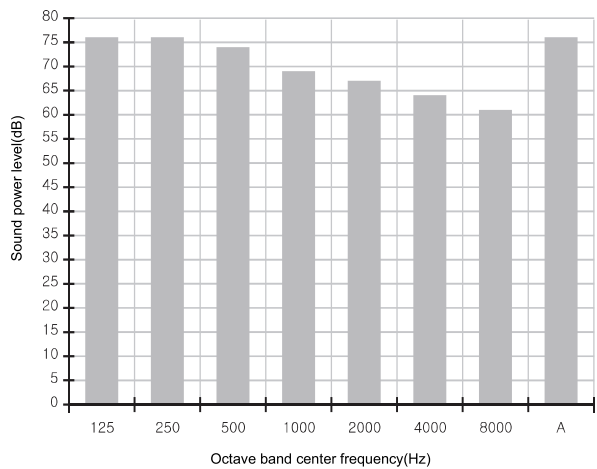
Note

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

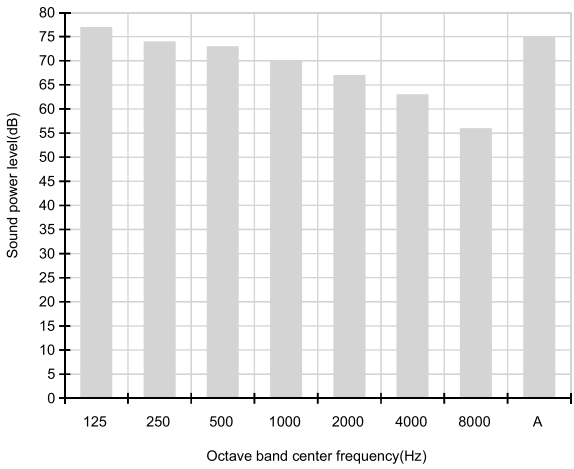
Unit: dB(A)

Model	Power
AC180JXAPNH/AR (IDU : AC180JNHPKH/AR)	76
AC200KXAPNH/AR (IDU : AC200KNHPKH/AR)	75
AC250KXAPNH/AR (IDU : AC250KNHPKH/AR)	77

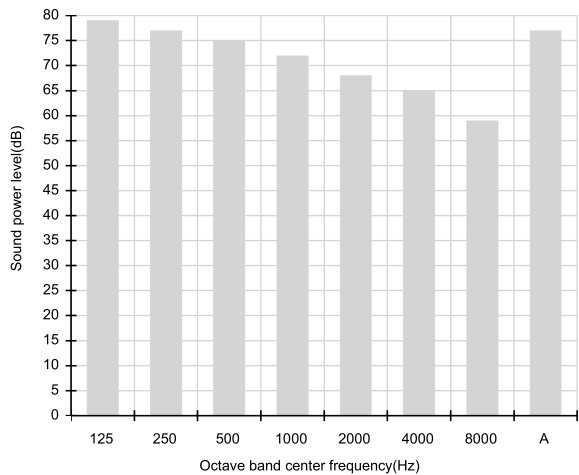
1) AC180JXAPNH/AR (IDU : AC180JNHPKH/AR)



2) AC200KXAPNH/AR (IDU : AC200KNHPKH/AR)



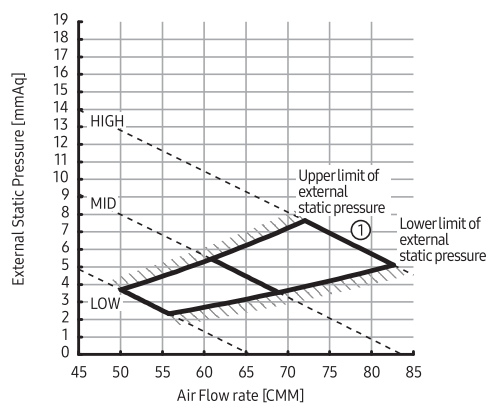
3) AC250KXAPNH/AR (IDU : AC250KNHPKH/AR)



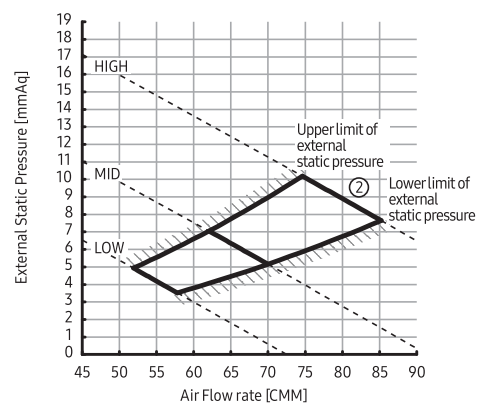
7 Recommended operation range

1) AC180JNHPKH/AR (ODU : AC180JXAPNH/AR)

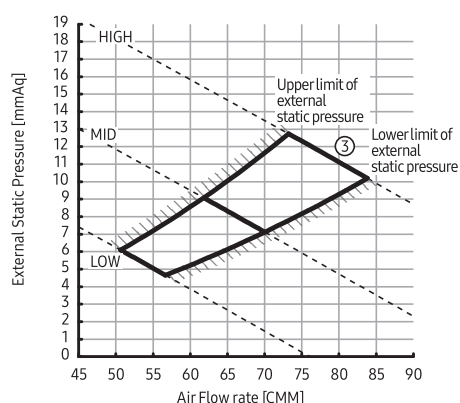
①	External Static Pressure(mmAq)	Option Code
	5-7.5	01107C-1C50B0-27B414-370060



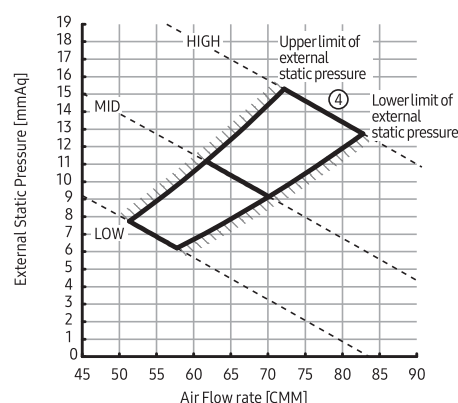
②	External Static Pressure(mmAq)	Option Code
	7.5-10	01107C-1C50E3-27B414-370060



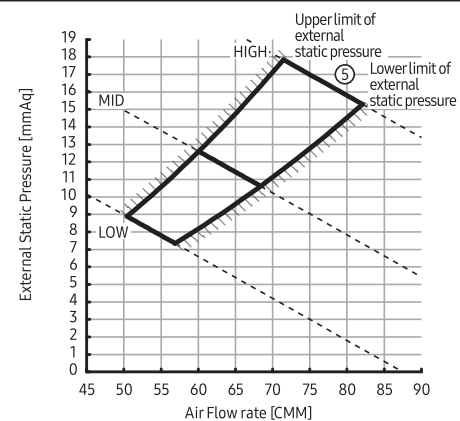
③	External Static Pressure(mmAq)	Option Code
	10-12.5	01107C-1C50F5-27B414-370060



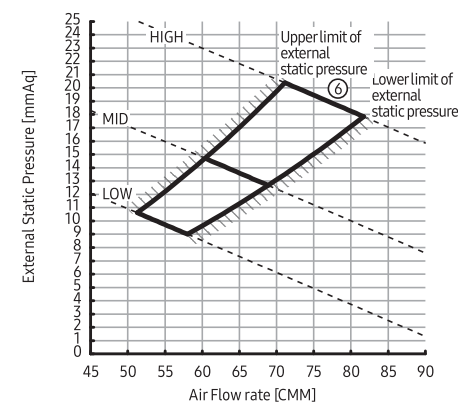
④	External Static Pressure(mmAq)	Option Code
	12.5-15	01107C-1C5436-27B414-370060



⑤	External Static Pressure(mmAq)	Option Code
	15-17.5	01107C-1C5458-27B414-370060



⑥	External Static Pressure(mmAq)	Option Code
	17.5-20	01107C-1C548E-27B414-370060



Note

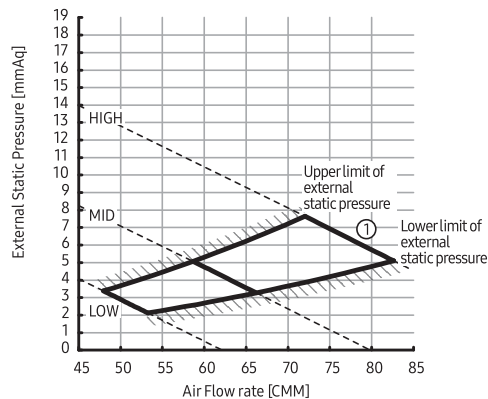
Adjust option code according to the actual installation condition (external static pressure).

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

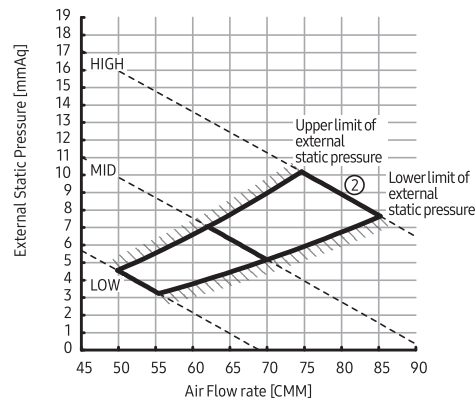
7 Recommended operation range

2) AC200KNHPKH/AR (ODU : AC200KXAPNH/AR)

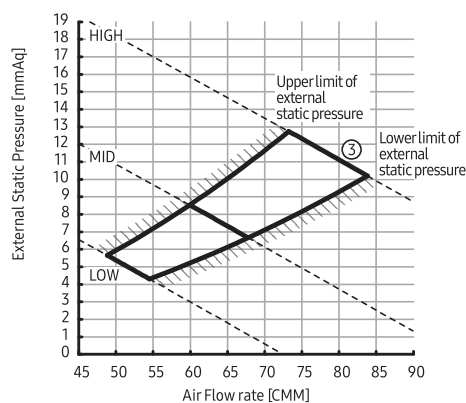
①	External Static Pressure (mmAq)	Option Code
	$5 \leq P < 7.5$	011074-1C50C0-27C8E6-372000



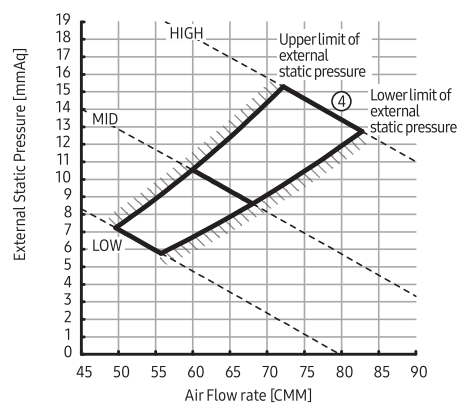
②	External Static Pressure (mmAq)	Option Code
	$7.5 \leq P < 10$	011074-1C50E3-27C8E6-372000



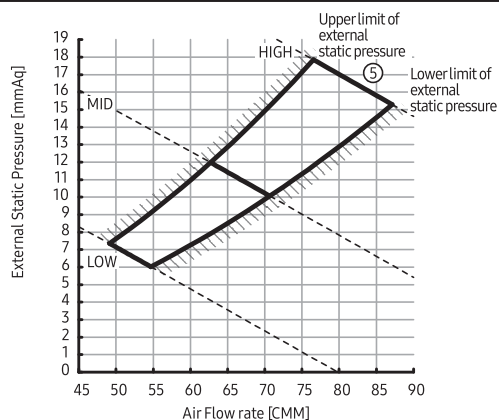
③	External Static Pressure (mmAq)	Option Code
	$10 \leq P < 12.5$	011074-1C50F5-27C8E6-372000



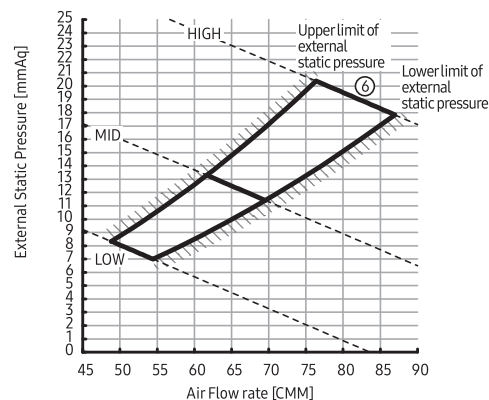
④	External Static Pressure (mmAq)	Option Code
	$12.5 \leq P < 15$	011074-1C5436-27C8E6-372000



⑤	External Static Pressure (mmAq)	Option Code
	$15 \leq P < 17.5$	011074-1C5458-27C8E6-372000



⑥	External Static Pressure (mmAq)	Option Code
	$17.5 \leq P \leq 20$	011074-1C548E-27C8E6-372000



Note

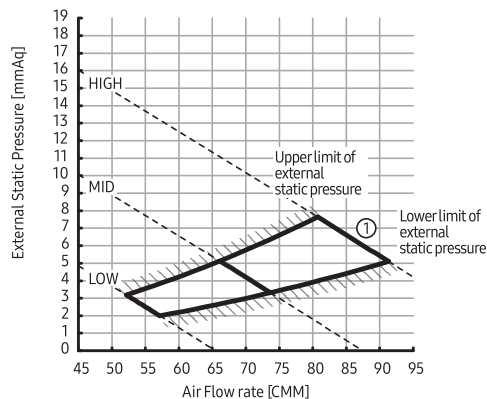
Adjust option code according to the actual installation condition (external static pressure).

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

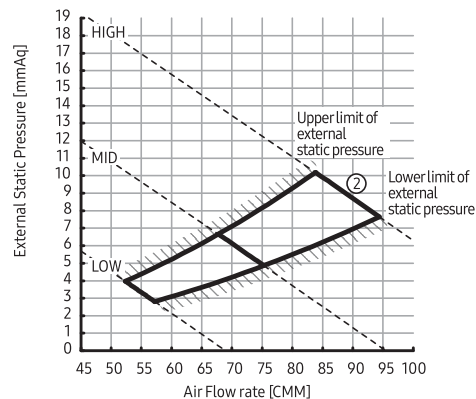
7 Recommended operation range

3) AC250KNHPKH/AR (ODU : AC250KXAPNH/AR)

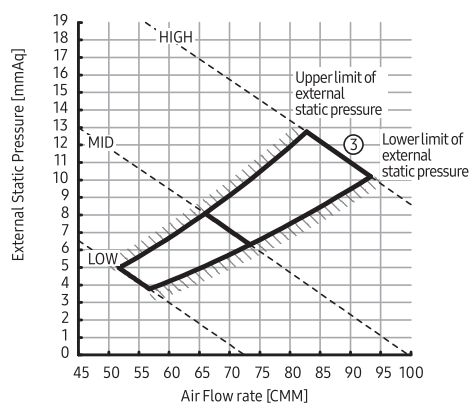
①	External Static Pressure(mmAq)	Option Code
	$5 \leq P < 7.5$	011074-1C50F0-270014-373800



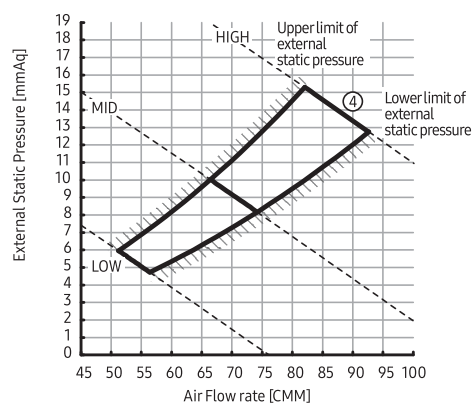
②	External Static Pressure(mmAq)	Option Code
	$7.5 \leq P < 10$	011074-1C50F3-270014-373800



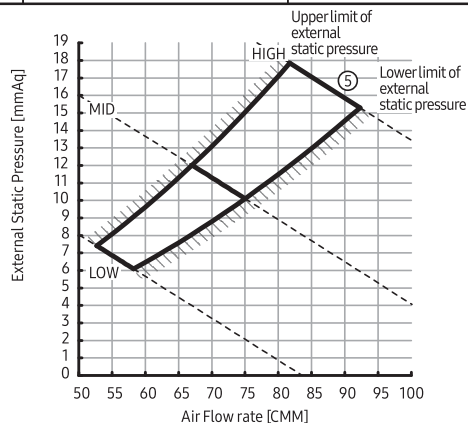
③	External Static Pressure(mmAq)	Option Code
	$10 \leq P < 12.5$	011074-1C5435-270014-373800



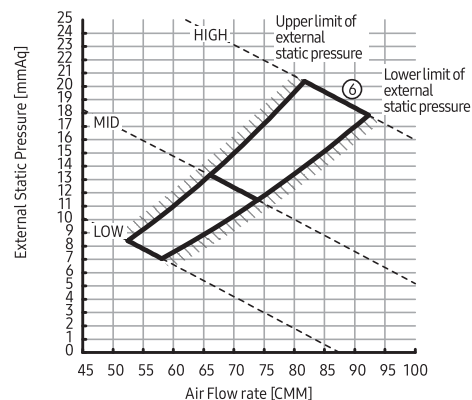
④	External Static Pressure(mmAq)	Option Code
	$12.5 \leq P < 15$	011074-1C5466-270014-373800



⑤	External Static Pressure(mmAq)	Option Code
	$15 \leq P < 17.5$	011074-1C5487-270014-373800



⑥	External Static Pressure(mmAq)	Option Code
	$17.5 \leq P \leq 20$	011074-1C54BB-270014-373800



Note

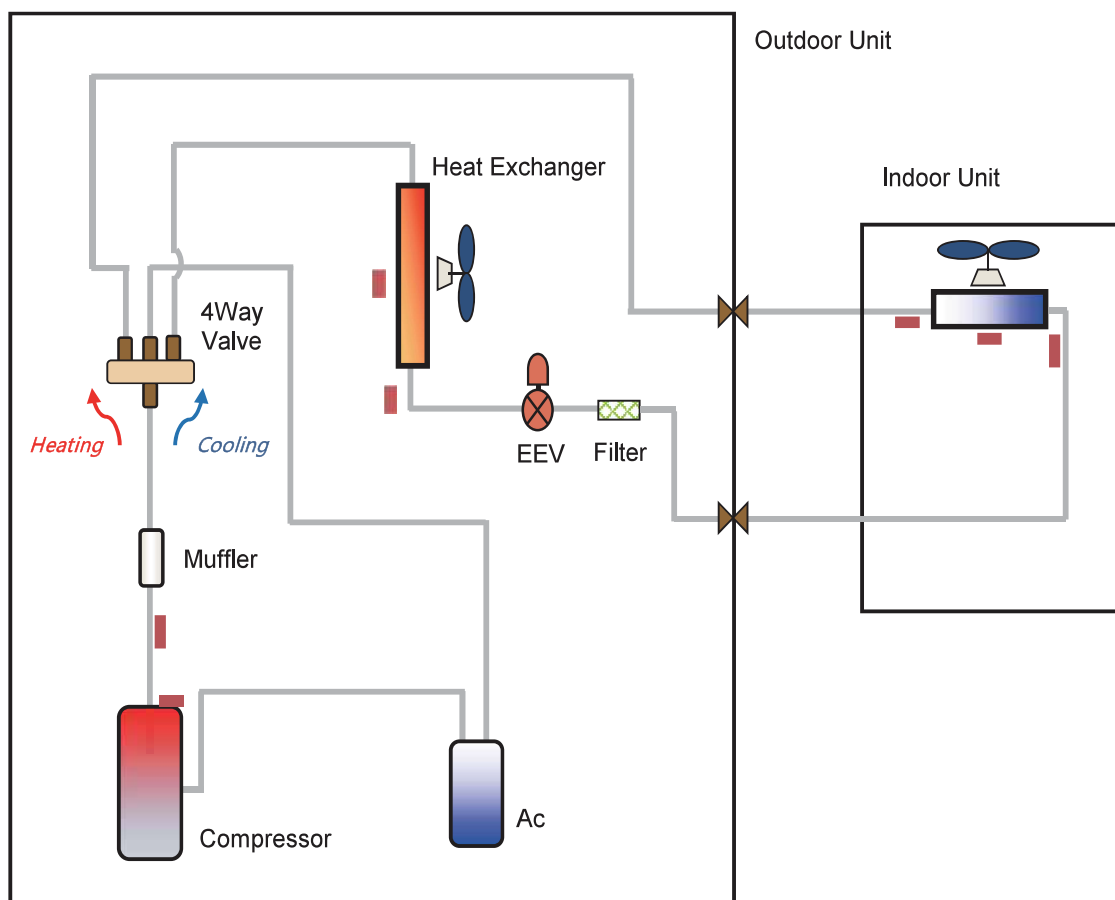
Adjust option code according to the actual installation condition (external static pressure).

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

8 Cycle diagram

Outdoor

AC180JXAPNH/AR

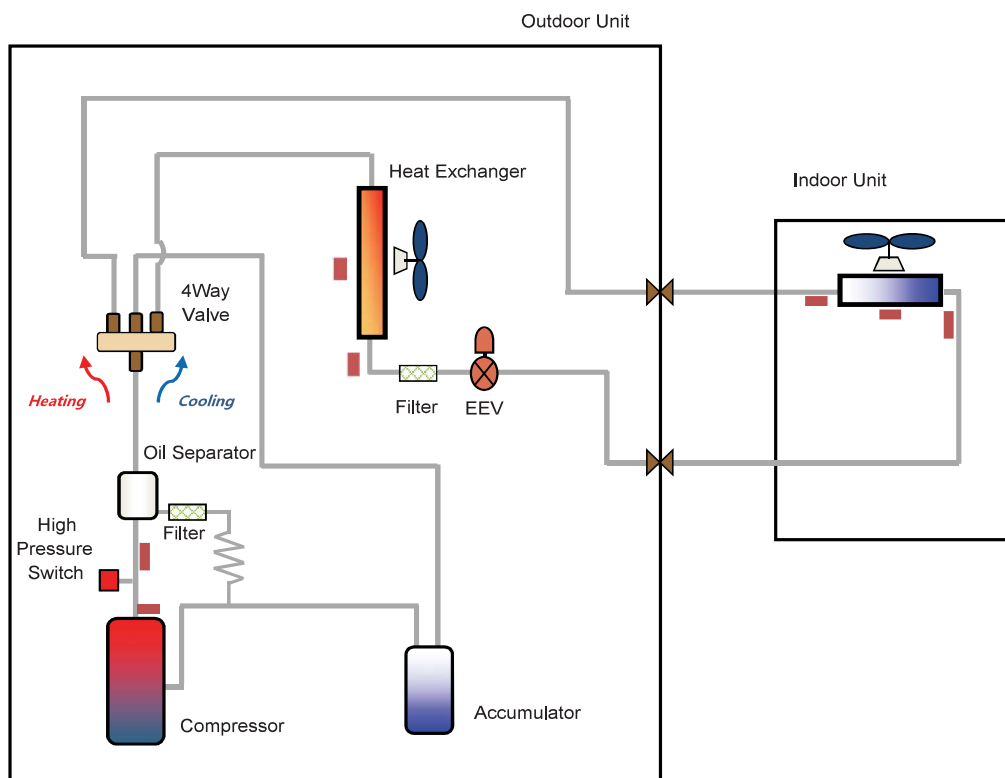


Category		Description
Compressor		Rotary Inverter Compressor
Heat Exchanger		Condensing/Evaporating unit(FMC)
AC		Accumulator
Filter		Filter
Valve	Expansion	Electronic Expansion Valve(EEV)
	Reversing	4 Way valve (Reversing valve)
	Service	Service valve
Sensor	Temperature	Pipe/Air Temperature sensor

8 Cycle diagram

Outdoor

AC200KXAPNH/AR, AC250KXAPNH/AR



Category		Symbol	Description
Compressor			Scroll Inverter Compressor.
Heat Exchanger			Condensing/Evaporating unit
Accumulator			Accumulator
Oil Separator			Oil Separator
Switch			High Pressure Switch
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Sensor	Temperature		Pipe/Air Temperature sensor

9 Capacity correction

AC180JNHPKH/AR + AC180JXAPNH/AR

Cooling



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

AC200KNHPKH/AR + AC200KXAPNH/AR

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	25	-	-	-	-	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	20	-	-	-	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	15	-	-	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	10	-	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	5	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	0	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	-5	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72
	-10	-	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71
	-15	-	-	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71
	-20	-	-	-	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70
	-25	-	-	-	-	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70
	-30	-	-	-	-	-	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69

Heating



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	0	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90

9 Capacity correction

AC250KNHPKH/AR + AC250KXAPNH/AR

Cooling



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	25	-	-	-	-	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	20	-	-	-	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	15	-	-	0.95	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	10	-	0.98	0.95	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	5	1.00	0.98	0.95	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	0	1.00	0.98	0.95	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	-5	1.00	0.98	0.95	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67
	-10	-	0.97	0.94	0.92	0.90	0.87	0.85	0.82	0.80	0.78	0.75	0.73	0.71	0.68	0.66
	-15	-	-	0.94	0.92	0.90	0.87	0.85	0.82	0.80	0.78	0.75	0.73	0.71	0.68	0.66
	-20	-	-	-	0.91	0.89	0.86	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.67	0.65
	-25	-	-	-	-	0.89	0.86	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.67	0.65
	-30	-	-	-	-	-	0.86	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.67	0.65

Heating



		Pipe Length (m)														
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Level Difference (m)	30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	0	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-5	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-10	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-15	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-20	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-25	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
	-30	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90