

# SINGLE

## Technical Data Book

Big Duct for EU (R410A, 50Hz, HP)



Model : IDU : AC\*\*\*KNHPKH/EU  
ODU : AC\*\*\*KXAPNH/EU

# History

Version	Modification	Date	Remark
Ver 1.0	Release SINGLE Big Duct for EU (R410A, 50Hz, HP)	16.05.18	-

# Index

***1 Nomenclature***

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***2 Specifications***

---

***3 Capacity table***

---

***4 Dimensional drawing***

---

***5 Electrical wiring diagram***

---

***6 Sound pressure level***

---

***7 Sound power level***

---

***8 PQ Curve***

---

***9 Cycle diagram***

---

***10 Capacity correction***

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# 1 Nomenclature

## Indoor Units

### Model Names

AC	200	K	N	H	P	K	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

### (1) Classification

AC	SINGLE
AM	VRF

### (2) Capacity

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

### (3) Version

F	2013
H	2014
J	2015
K	2016

### (4) Product Type

N	Indoor Unit
X	Outdoor Unit

### (5) Product Notation

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

### (6) Feature

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

### (7) Rating Voltage

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

### (8) Mode

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

# 1 Nomenclature

## Outdoor Units

### Model Names

AC	200	K	X	A	P	N	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

### (1) Classification

AC	SINGLE
AM	VRF

### (5) Feature1

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

### (2) Capacity

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

### (6) Feature2

D	Deluxe
F	Flagship
P	Premium
S	Standard

### (3) Version

F	2013
H	2014
J	2015
K	2016

### (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

### (4) Product Type

N	Indoor Unit
X	Outdoor Unit

### (8) Mode

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

# 2 Specifications

## HSP Duct

Type				HSP Duct	HSP Duct		
Model Name	Indoor Unit			AC200KNHPKH/EU	AC250KNHPKH/EU		
	Outdoor Unit			AC200KXAPNH/EU	AC250KXAPNH/EU		
System	Mode			Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	7.50 / 20.00 / 23.00	9.00 / 25.00 / 28.50	
				Btu/h	25,600 / 68,200 / 78,500	30,700 / 85,300 / 97,200	
		Heating(Min/Std/Max)		kW	8.50 / 23.00 / 25.00	10.00 / 27.00 / 32.00	
				Btu/h	29,000 / 78,500 / 85,300	34,100 / 92,100 / 109,200	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	2.10 / 6.45 / 8.00	2.60 / 9.58 / 12.00	
			Heating(Min/Std/Max)	kW	2.10 / 6.66 / 9.80	2.50 / 8.33 / 13.50	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	3.80 / 10.00 / 12.30	4.70 / 14.90 / 18.40	
			Heating(Min/Std/Max)	A	3.80 / 10.30 / 16.00	4.50 / 12.90 / 22.00	
		MCA		A	25.00 (MCA)	25.00 (MCA)	
		MFA		A	31.25	31.25	
	Energy Efficiency	EER (Nominal Cooling)		-	3.10	2.61	
		COP (Nominal Heating)		-	3.45	3.24	
		Energy Grade		-	-	-	
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	
				Ø, inch	3/8"	3/8"	
		Gas Pipe		Ø, mm	19.05	22.22	
				Ø, inch	3/4"	7/8"	
		Installation Limitation	Max. Length	m	75 (75)	75 (75)	
			Max. Height	m	30 (30)	30 (30)	
Field Wiring	Power Source Wire		Ø, mm	-	-		
	Transmission Cable		Ø, mm	-	-		
Refrigerant	Type		-	R410A	R410A		
	Control Method		-	-	-		
	Factory Charging		kg	6.60	6.60		
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
	Fan	Type		-	Sirocco Fan	Sirocco Fan	
		Motor	Output		W	630 x 2	630 x 2
			CMM		72.00 / 62.00 / 48.00	80.00 / 64.00 / 51.00	
		Air Flow Rate		High/Mid/Low	l/s	1,200.00 / 1,000.00 / 800.00	1,333.33 / 1,066.67 / 850.00
	External Static Pressure	Min/Std/Max		mmAq	5.00 / 7.34 / 20.00	5.00 / 7.34 / 20.00	
				Pa	49.00 / 71.95 / 196.00	49.00 / 71.95 / 196.00	
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
		Pressure	High/Mid/Low		44 / 40 / 36	47 / 42 / 37	
	Sound		Power	Cooling	dB(A)	70	72
		External Dimension	Net Weight		kg	82.50	82.50
	Shipping Weight		kg	92.00	92.00		
	Net Dimensions (WxHxD)		mm	1,350 x 450 x 910	1,350 x 450 x 910		
	Shipping Dimensions (WxHxD)		mm	1,612 x 519 x 984	1,612 x 519 x 984		
	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	-	MDP-G075SP	MDP-G075SP	
Max. Lifting			mm/liter/h	-	-		
Air Filter		-	-	-			
Outdoor Unit	Power Supply			Ø, #, V, Hz	3,4,380-415,50	3,4,380-415,50	
	Compressor	Type		-	BLDC Scroll	BLDC Scroll	
		Model		-	DS-GB066FAVB	DS-GB066FAVB	
		Output		kW	6.39	6.39	
	Oil	Type		-	PVE	PVE	
		Fan	Air Flow Rate	Cooling	CMM	200.00	200.00
	I/s		3,333.33	3,333.33			
	Sound	Pressure	Cooling/Heating	dB(A)	58 / 60	59 / 61	
		Power	Cooling	dB(A)	75	77	
	External Dimension	Net Weight		kg	154.00	154.00	
		Shipping Weight		kg	167.00	167.00	
		Net Dimensions (WxHxD)		mm	940 x 1,630 x 460	940 x 1,630 x 460	
		Shipping Dimensions (WxHxD)		mm	1,020 x 1,820 x 575	1,020 x 1,820 x 575	
	Operating Temp. Range	Cooling		°C	-20.0 ~ 50.0	-20.0 ~ 50.0	
		Heating		°C	-20.0 ~ 24.0	-20.0 ~ 24.0	

\* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

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

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

2) Nominal heating capacities are based on;

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

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

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

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

# 3 Capacity table

## HSP Duct

### AC200KNHPKH/EU + AC200KXAPNH/EU

#### 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(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)	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	25.30	17.50	5.00
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	23.60	16.30	5.37
35.0	17.70	14.70	6.07	18.60	15.20	6.19	19.40	15.70	6.32	<b>20.00</b>	<b>16.20</b>	<b>6.45</b>	20.40	16.00	6.51	21.40	15.80	6.58	22.50	15.50	6.71
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	17.80	13.40	6.74
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	15.20	11.90	6.76

#### 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)
-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	<b>23.00</b>	<b>6.66</b>	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/EU + AC250KXAPNH/EU

#### 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(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)	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	31.60	20.40	7.42
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	29.50	19.00	7.97
35.0	22.10	17.20	9.02	23.30	17.80	9.20	24.30	18.30	9.39	<b>25.00</b>	<b>18.90</b>	<b>9.58</b>	25.50	18.70	9.68	26.80	18.50	9.77	28.10	18.10	9.97
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	18.70	14.40	8.84
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	13.60	11.30	8.22

#### 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)
-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	<b>27.00</b>	<b>8.33</b>	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.

# 4 Dimensional drawing

## Indoor : HSP Duct

AC200KNHPKH/EU, AC250KNHPKH/EU

Units : mm / inches

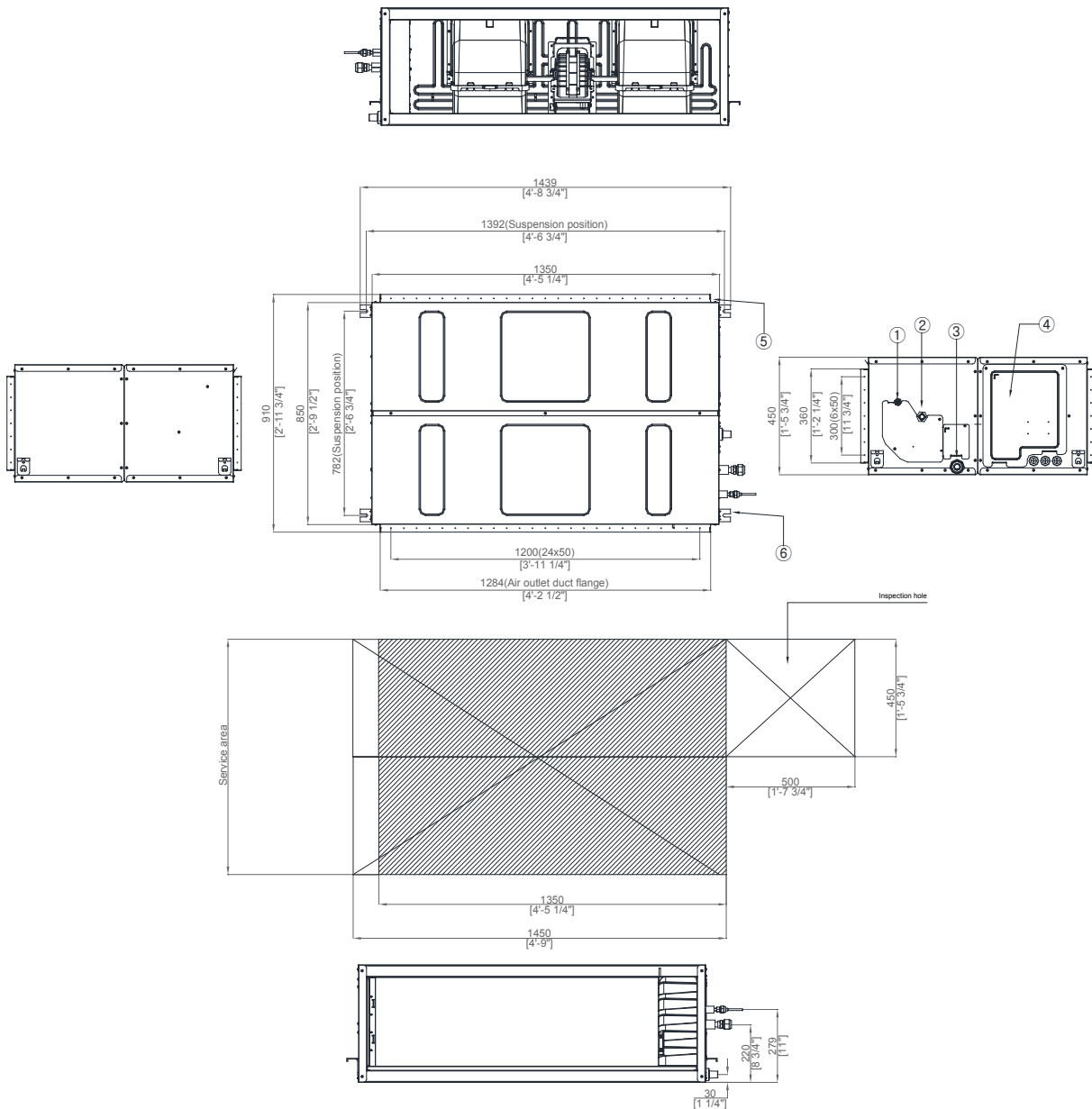


Table of descriptions

1	Liquid pipe connection	7	
2	Gas pipe connection	8	
3	Drain pipe connection	9	
4	Power supply connection	10	
5	Air discharge flange	11	
6	Hook	12	

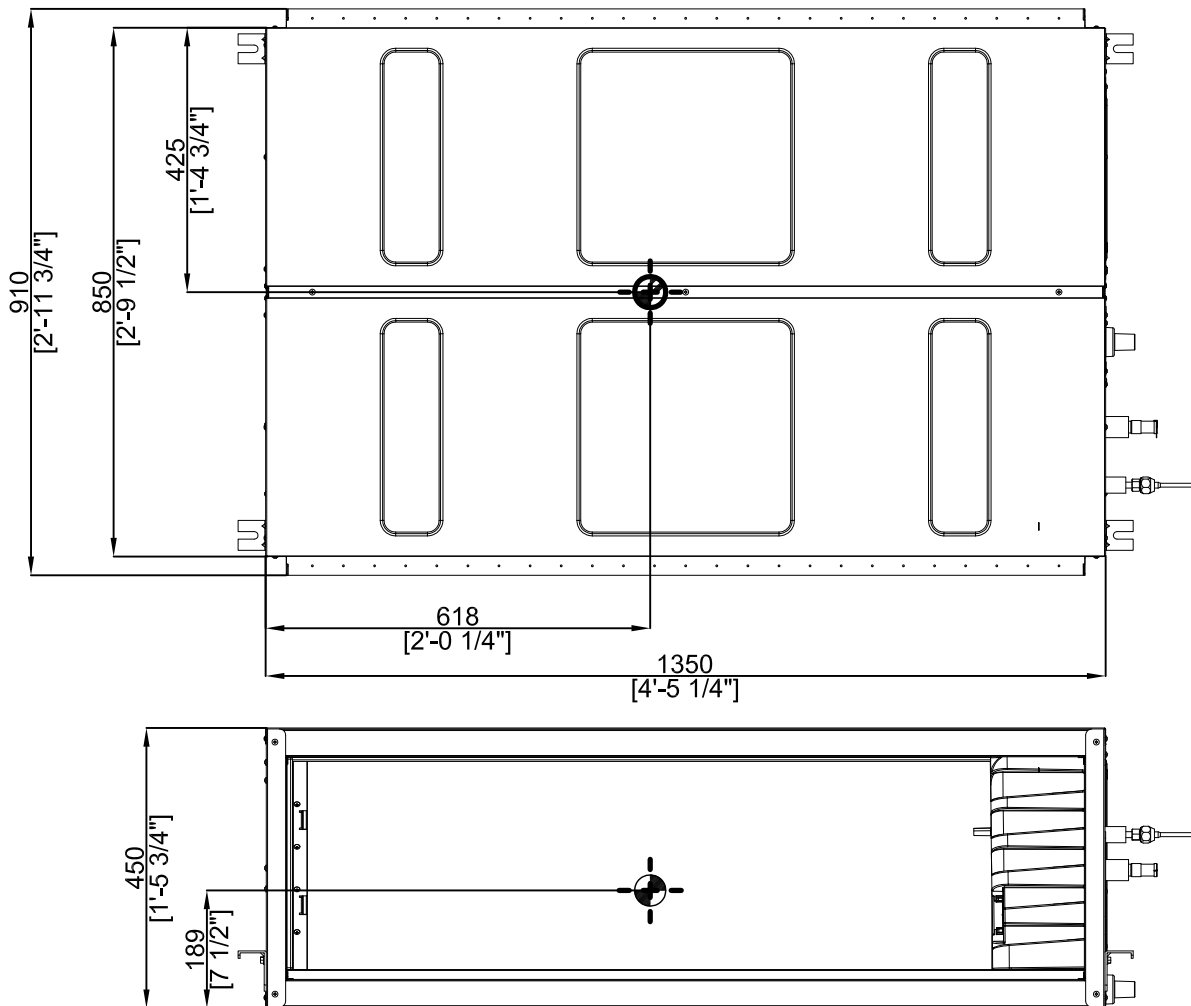


# 4 Dimensional drawing (Center of gravity)

Indoor : HSP Duct

AC200KNHPKH/EU, AC250KNHPKH/EU

Units : mm / inches



# 4 Dimensional drawing

## Outdoor

AC200KXAPNH/EU, AC250KXAPNH/EU

Units : mm / inches

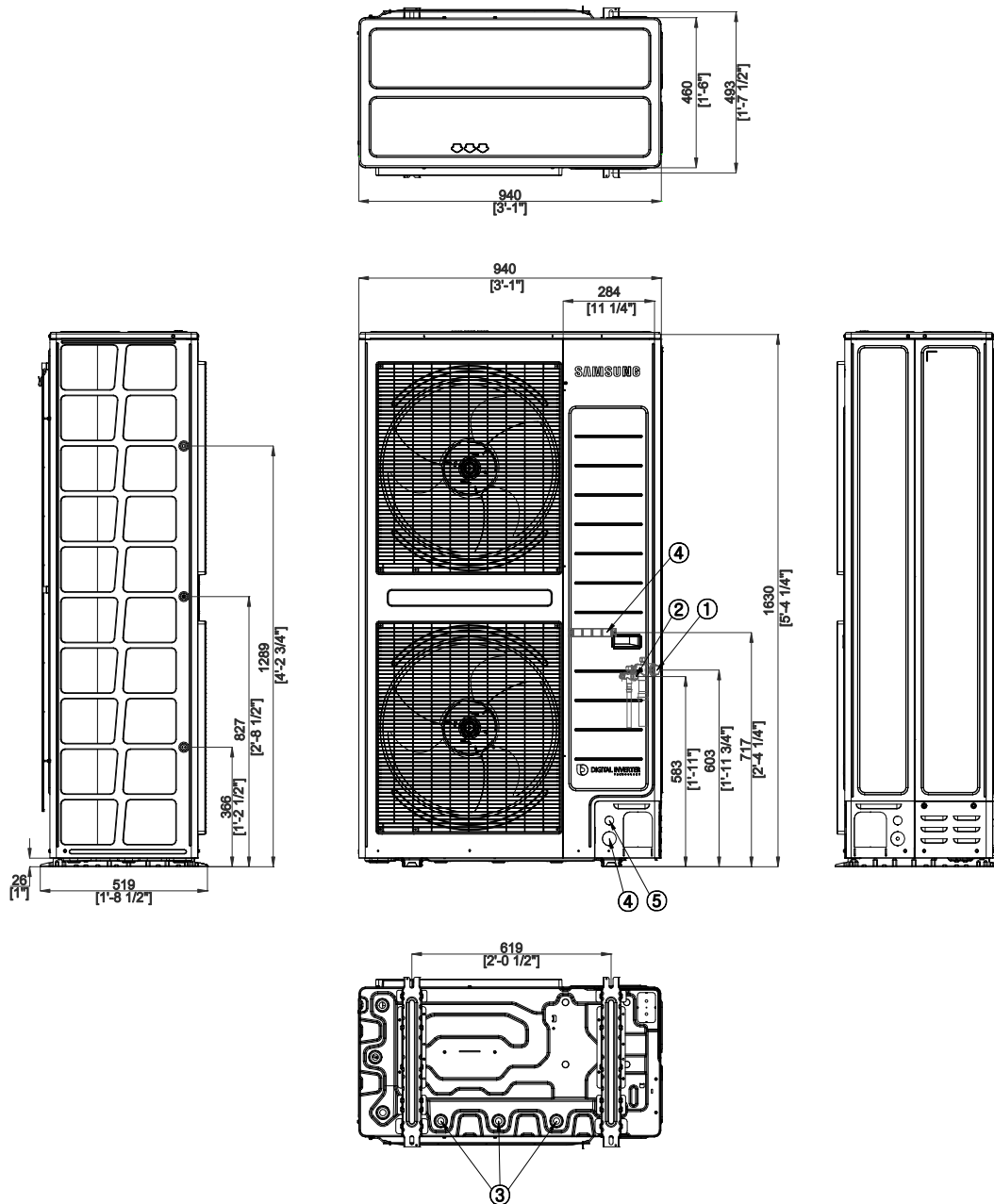


Table of descriptions

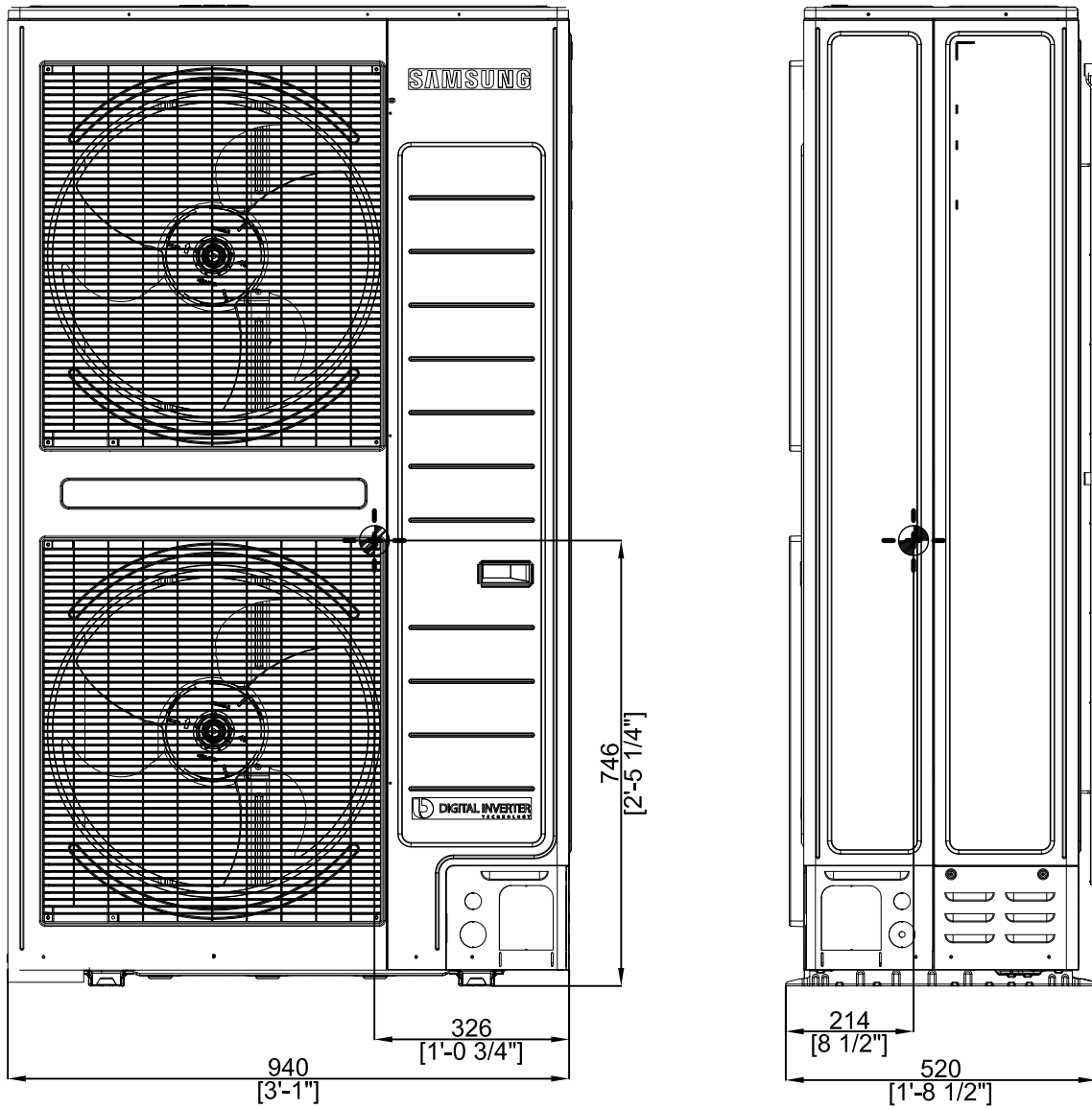
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power wiring conduits	10	
5	Communication wiring conduits	11	
6		12	

# 4 Dimensional drawing (Center of gravity)

Outdoor

AC200KXAPNH/EU, AC250KXAPNH/EU

Units : mm / inches

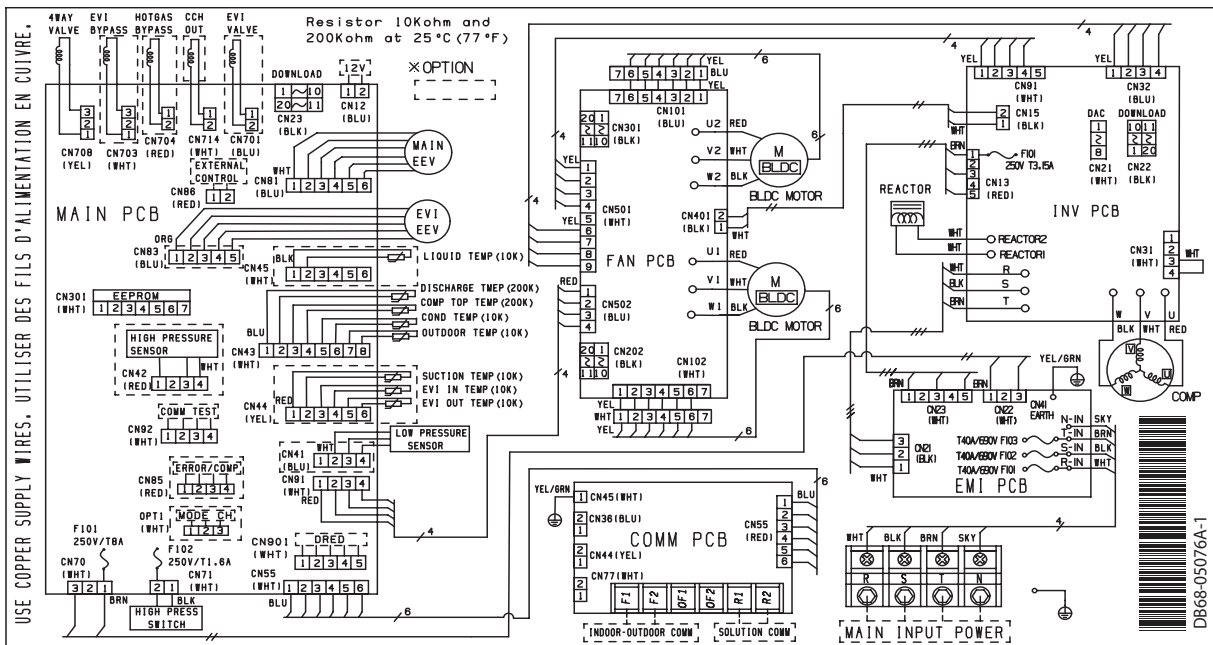




# 5 Electrical wiring diagram

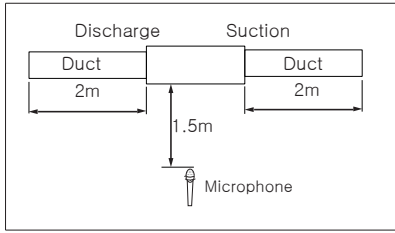
## Outdoor

AC200KXAPH/EU, AC250KXAPH/EU



# 6 Sound pressure level

## Indoor : HSP Duct



Unit: dB(A)

Model	High	Low
AC200KNHPKH/EU (ODU : AC200KXAPNH/EU)	44	36
AC250KNHPKH/EU (ODU : AC250KXAPNH/EU)	47	37

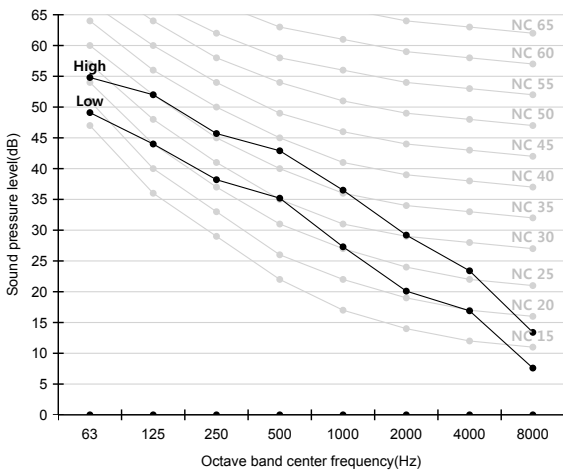
### Note

\* Specifications may be subject to change without prior notice

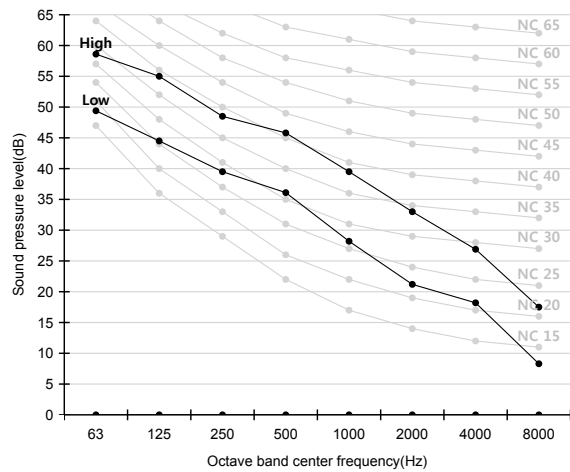
- 1) These operation values were obtained in an anechoic room.
- 2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- 3) Operation sound level may differ depending on operation and ambient conditions.

## NC curve

### 1) AC200KNHPKH/EU (ODU : AC200KXAPNH/EU)

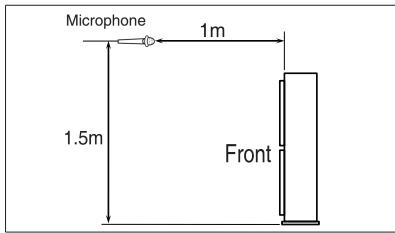


### 2) AC250KNHPKH/EU (ODU : AC250KXAPNH/EU)



# 6 Sound pressure level

## Outdoor



Unit: dB(A)	
Model	Cooling
AC200KXAPNH/EU (IDU : AC200KNHPKH/EU)	58
AC250KXAPNH/EU (IDU : AC250KNHPKH/EU)	59

### Note

\* Specifications may be subject to change without prior notice

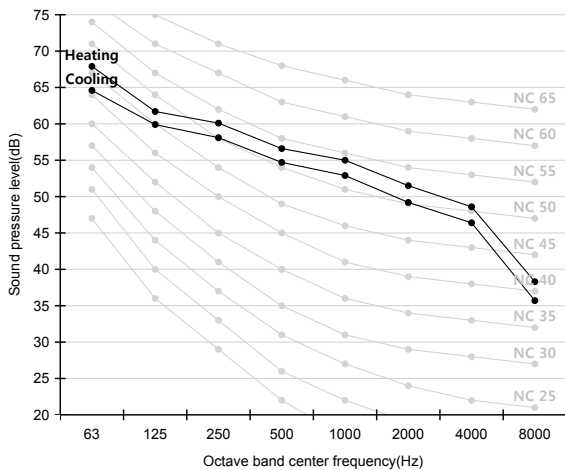
1) These operation values were obtained in an anechoic room.

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.

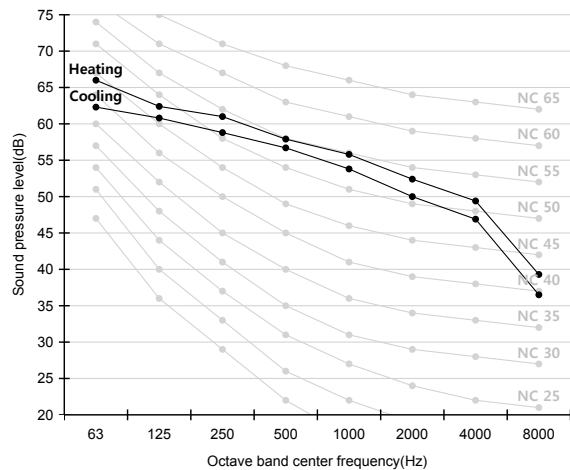
3) Operation sound level may differ depending on operation and ambient conditions.

## NC curve

### 1) AC200KXAPNH/EU (IDU : AC200KNHPKH/EU)



### 2) AC250KXAPNH/EU (IDU : AC250KNHPKH/EU)



# 7 Sound power level

## Indoor : HSP Duct

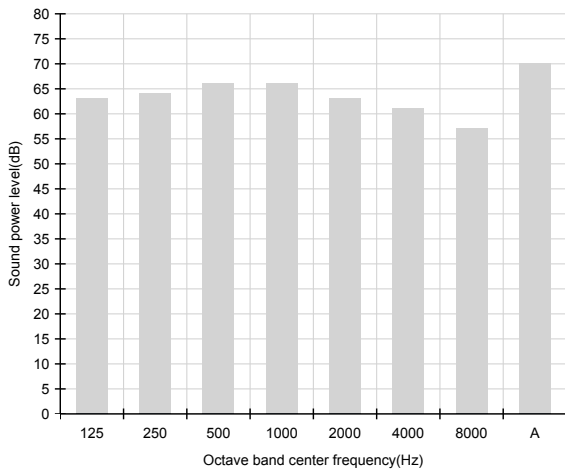
### Note

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

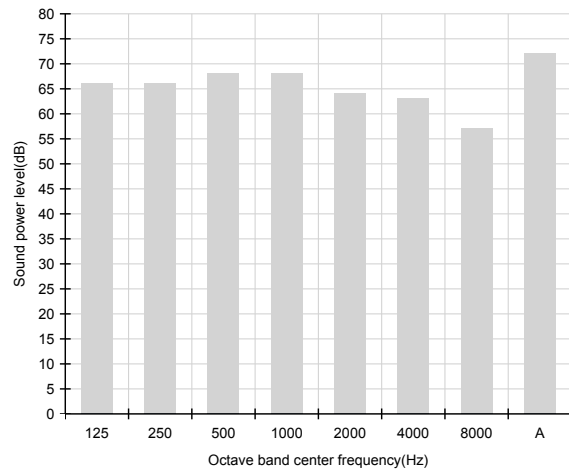
Unit: dB(A)

Model	Power
AC200KNHPKH/EU (ODU : AC200KXAPNH/EU)	70
AC250KNHPKH/EU (ODU : AC250KXAPNH/EU)	72

1) AC200KNHPKH/EU (ODU : AC200KXAPNH/EU)



2) AC250KNHPKH/EU (ODU : AC250KXAPNH/EU)





# 7 Sound power level

## Outdoor

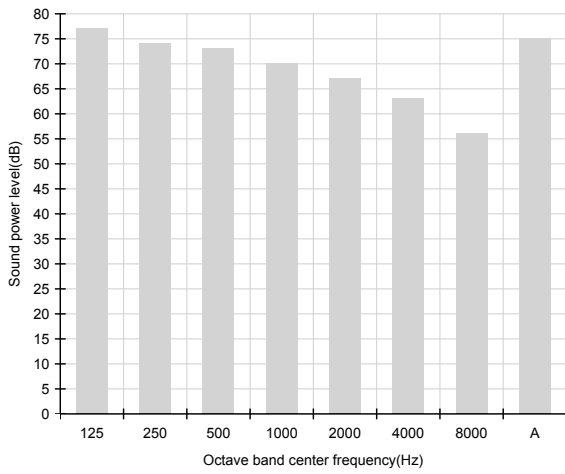
### Note

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

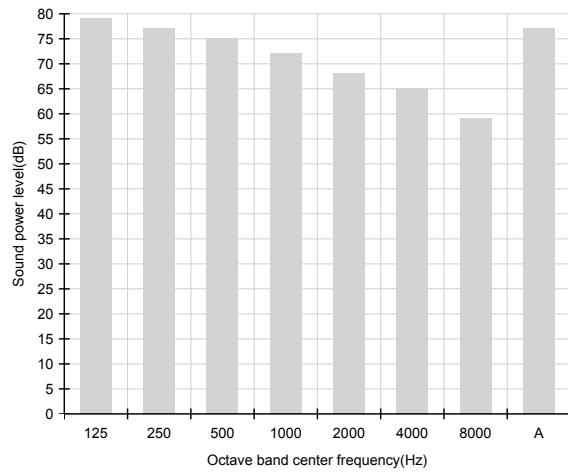
Unit: dB(A)

Model	Power
AC200KXAPNH/EU (IDU : AC200KNHPKH/EU)	75
AC250KXAPNH/EU (IDU : AC250KNHPKH/EU)	77

1) AC200KXAPNH/EU (IDU : AC200KNHPKH/EU)



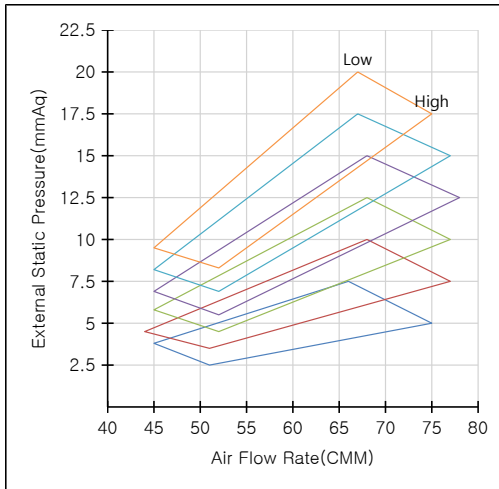
2) AC250KXAPNH/EU (IDU : AC250KNHPKH/EU)



# 8 PQ Curve

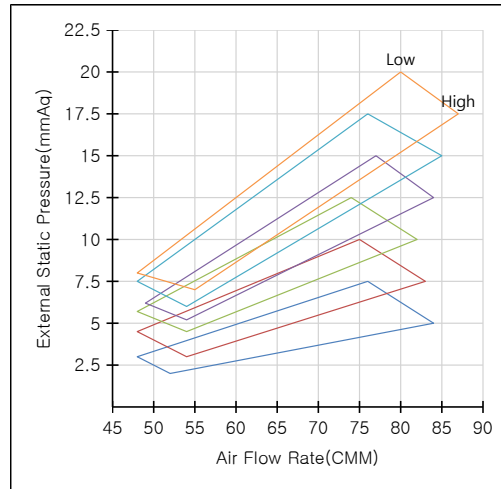
## Indoor : HSP Duct

### 1) AC200KNHPKH/EU (ODU : AC200KXAPNH/EU)



External Static Pressure (mmAq)	Option Code
5≤P<7.5	011074-1C50C0-27C8E6-372000
7.5≤P<10	011074-1C50E3-27C8E6-372000
10≤P<12.5	011074-1C50F5-27C8E6-372000
12.5≤P<15	011074-1C5436-27C8E6-372000
15≤P<17.5	011074-1C5458-27C8E6-372000
17.5≤P≤20	011074-1C548E-27C8E6-372000

### 2) AC250KNHPKH/EU (ODU : AC250KXAPNH/EU)



External Static Pressure (mmAq)	Option Code
5≤P<7.5	011074-1C50F0-270014-373800
7.5≤P<10	011074-1C50F3-270014-373800
10≤P<12.5	011074-1C5435-270014-373800
12.5≤P<15	011074-1C5466-270014-373800
15≤P<17.5	011074-1C5487-270014-373800
17.5≤P≤20	011074-1C54BB-270014-373800

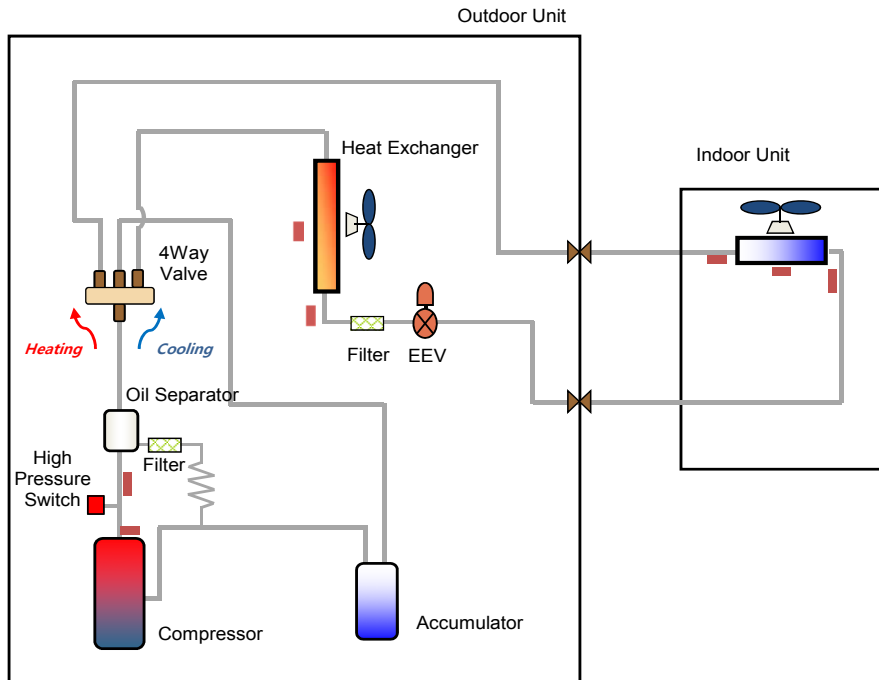
### Note











\* Specifications may be subject to change without prior notice.  
Adjust option code according to the actual installation condition (external static pressure).

# 9 Cycle diagram

## Outdoor

AC200KXAPNH/EU, AC250KXAPNH/EU



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

# 10 Capacity correction

## Outdoor

### AC200KNHPKH/EU + AC200KXAPNH/EU

#### Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
30	-	-	-	-	-	0.90	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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
30	-	-	-	-	-	0.96	0.96	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

### AC250KNHPKH/EU + AC250KXAPNH/EU

#### Cooling

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
30	-	-	-	-	-	0.88	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

Level Difference (m)	Pipe Length (m)														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
30	-	-	-	-	-	0.96	0.96	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

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