



**Technical
Data
Book**

Eco Heating System

SAMSUNG



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I. Products



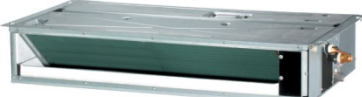
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1. Indoor Units


1-1. Nomenclature


Model Name		
NH 022 L H X E A		
① ② ③ ④ ⑤ ⑥ ⑦		
① Product group		
N	D	DVM
	J	Free Joint Multi
	M	MULTI
	S	SINGLE
	H	Hydro-Box Water tank
② Capacity (3 DIGIT)		
KW		
③ Product notation		
1	1WAY	CST
2	2WAY	
M	MINI 4WAY	
4	4WAY	DUCT
H	High S.P.	
S	Middle S.P.	
L	Low S.P.(Slim)	CONV
G	CCD	
C	Ceiling	
J	Console	RAC
F	Floor Standing	
P	Hydro unit	
V	Vivace	AHU
Q	Neo-Forte (EEV)	
N	Neo-Forte	DHW tank
D		
W		
④ Mode		
C	Cooling only	
H	Heat pump	
⑤ Refrigerant		
R	R22	
X	R410A	
⑥ Rating voltage		
A	115V, 60Hz	
B	220V, 60Hz	
C	208~230V, 60Hz	
D	200~220V, 50Hz	
E	220~240V, 50Hz	
F	208~230V, 60Hz,3P	
G	380~415V, 50Hz, 3P	
M	127V, 50Hz	
H	380V, 60Hz, 3p	
J	460V, 60Hz, 3P	
⑦ Version		
1~9	Domestic	
A~Z	Export	
DHW tank version		
S	Solar connect	
A	Normal	

1-2. Line up

Indoor Unit	Model	Cooling Capacity (kW)					
		2.2	2.8	3.6	4.5	5.6	7.1
	NH022NHXEA	●					
	NH028NHXEA		●				
	NH036NHXEA			●			
	NH056NHXEA					●	
	NH071NHXEA						●
	NH022VHXEA	●					
	NH028VHXEA		●				
	NH036VHXEA			●			
	NH056VHXEA					●	
	NH071VHXEA						●
	NH022LHXEA	●					
	NH028LHXEA		●				
	NH036LHXEA			●			
	NH045LHXEA				●		
	NH056LHXEA					●	

1-2. Line up

Hydro Unit	Model	Heating Capacity (kW)					
		6.0	7.0	8.0	11.0	14.0	16.0
	NH080PHXEA	●					
			●				
				●			
	NH160PHXEA				●		
						●	
							●

Domestic Hot water Tank	Model	Option	Volume (L)	
			200	300
	NH200WHXEA	Normal	●	
	NH300WHXEA			●
	NH200WHXES	Solar connect	●	
	NH300WHXES			●



2. Outdoor Units

2-1. Nomenclature

Model Name																						
RD 160 P H X E A																						
①	②	③																				
① Product group	④ Mode	⑤ Refrigerant																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">R</td> <td style="width: 10%;">D</td> <td>Single piping FJM</td> </tr> </table>	R	D	Single piping FJM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">C</td> <td>C/O</td> </tr> <tr> <td>H</td> <td>Heat pump</td> </tr> <tr> <td>R</td> <td>Heat recovery</td> </tr> <tr> <td>T</td> <td>Tropical cooling only</td> </tr> <tr> <td>Q</td> <td>Tropical heat pump</td> </tr> </table>	C	C/O	H	Heat pump	R	Heat recovery	T	Tropical cooling only	Q	Tropical heat pump	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">R22</td> <td>R</td> </tr> <tr> <td>R410A</td> <td>X</td> </tr> </table>	R22	R	R410A	X			
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R	Heat recovery																					
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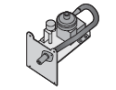




2. Outdoor Units

2-2. Line up

Outdoor Unit	Model	Heating Capacity (kW)					
		6.0	7.0	8.0	11.0	14.0	16.0
	RD060PHXEA	●					
	RD070PHXEA		●				
	RD080PHXEA			●			
	RD110PHXEA				●		
	RD140PHXEA					●	
	RD160PHXEA						●

3. Accessories

3-1. Accessories

Indoor Units		Duct	Wall mounted		Air to Water unit	Remark
						
Subsidiary Materials						
Capacity		2.2~5.6kW	2.2~7.1kW	2.2~7.1kW	8/16kW	
EEV Kit		-	MXD-A13K116A ≤3.6kW 1Room + ≥5.6kW 1Room		-	Requisite
			MXD-A13K200A ≤3.6kW 2Room			
			MXD-A16K200A ≥5.6kW 2Room			
		-	MXD-A13K216A ≤3.6kW 2Room + ≥5.6kW 1Room			
			MXD-A13K300A ≤3.6kW 3Room			
			MXD-A16K231A ≤3.6kW 1Room + ≥5.6kW 2Room			
			MXD-A16K300A ≥5.6kW 3Room			
		-	MEV-A13SA ≤3.6kW 1Room			
MEV-A16SA ≥4.6kW 1Room						
Y-joint		MXJ-YA1509K (≤15.0kW and below)			Requisite	
Drain Pump		MDP-E075SEE3 (Option)	-	-	-	-
Wireless remote controller		MR-CH01 (Option)	ARH-1364 (Included)	ARH-465 (Included)	-	-
Remote controller receive kit		MRK-A00 (Option)	-	-	-	-
Wired remote controller		MWR-WH01 MWR-WE00 MWR-SH00 (Option)	-	-	Included	-
Domestic Hot Water tank		-	-	-	NH300WHXES NH300WHXEA NH200WHXES NH200WHXEA	Option

- ▶ Subsidiary materials are compatible with CAC, DVM and FJM products.
- ▶ Install distribution kit for 1, 2 or 3 rooms on the ceiling or outdoor area.

II. Indoor Units

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1. Specifications

1-1. Indoor Units (NH022/028/036/056/071NHXEA)

Model			NH022NHXEA	NH028NHXEA	NH036NHXEA	NH056NHXEA	NH071NHXEA	
Power Supply		Ø/V/Hz	1/220~240/50					
Mode		-	HP					
Performance	Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1
			Btu/h	7,500	9,500	12,200	19,100	24,216
		Heating	kW	2.5	3.2	4.0	6.3	8.0
			Btu/h	8,500	10,900	13,600	21,400	27,285
	Condensate (High Fan Speed)		L/h	1.40	1.44	1.91	3.03	3.51
Power	Input		W	25	25	30	45	50
	Running Current		A	0.18	0.18	0.18	0.27	0.30
Sound Level	S/Pressure(H/L)		dB(A)	32/23	32/23	36/23	40/30	41/30
Fan	Type			Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan
Airflow Rate	Cooling(H)		m ³ /min	7.8	7.8	9.3	12.0	14.0
	Heating(H)			8.2	8.2	9.5	13.0	15.0
Refrigerant		-	R410A					
Pipe	Liquid(flare)		Ø,mm	6.35	6.35	6.35	6.35	9.52
	Gas(flare)			12.7	12.7	12.7	12.7	15.88
	Drain			ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose
Weight	Net		kg	7.8	7.8	7.8	13.0	13.0
	Gross			9.4	9.4	9.4	16.0	16.0
Dimensions	Net	W*H*D	mm	825*285*189	825*285*189	825*285*189	1065*298*218	1065*298*218
	Gross		mm	900*349*252	900*349*252	900*349*252	1137*377*299	1137*377*299
Functions	Auto Restart			○	○	○	○	○
	Auto Swing			○	○	○	○	○
	Group/Individual Control			○	○	○	○	○
	External Contact Control			○	○	○	○	○
	Trouble Shooting by LED			○	○	○	○	○

1) Mode

- HP : Heat Pump

2) Nominal cooling capacities are based on;

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

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Nominal heating capacities are based on;

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

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

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

1. Specifications

1-2. Indoor Units (NH022/028/036/056/071VHXEA)

Model			NH022VHXEA	NH028VHXEA	NH036VHXEA	NH056VHXEA	NH071VHXEA	
Power Supply		Ø/V/Hz	1/220~240/50					
Mode		-	HP					
Performance	Capacity	Cooling	kW	2.2	2.8	3.6	5.6	6.8
			Btu/h	7,500	9,500	12,200	19,100	23,200
		Heating	kW	2.5	3.2	4.0	6.3	7.0
			Btu/h	8,500	10,900	13,600	21,400	23,800
	Condensate (High Fan Speed)		L/h	1.12	1.44	1.91	2.87	3.51
Power	Input		W	30	30	35	50	50
	Running Current		A	0.13	0.18	0.19	0.30	0.30
Sound Level	S/Pressure(H/L)		dB(A)	31/21	31/21	35/21	40/30	41/30
Fan	Type			Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan
Airflow Rate	Cooling(H)		m ³ /min	7.0	7.0	8.2	13.3	13.3
	Heating(H)			7.3	7.3	8.8	14.0	14.0
Refrigerant		-	R410A					
Pipe	Liquid(flare)		Ø,mm	6.35	6.35	6.35	6.35	9.52
	Gas(flare)			12.7	12.7	12.7	12.7	15.88
	Drain			ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose
Weight	Net		kg	8.5	8.5	8.5	12.0	15.0
	Gross			11.5	11.5	11.5	15.0	15.0
Dimensions	Net	W*H*D	mm	825*285*189	825*285*189	825*285*189	1065*298*218	1065*298*218
	Gross		mm	900*349*252	900*349*252	900*349*252	1137*377*299	1137*377*299
Functions	Auto Restart			○	○	○	○	○
	Auto Swing			○	○	○	○	○
	Group/Individual Control			○	○	○	○	○
	External Contact Control			○	○	○	○	○
	Trouble Shooting by LED			○	○	○	○	○

1) Mode

- HP : Heat Pump

2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB
- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB
- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
5) Specifications may be subject to change without prior notice for product improvement.

1. Specifications

1-3. Indoor Units (NH022/028/036/045/056LHXEA)

Model			NH022LHXEA	NH028LHXEA	NH036LHXEA	NH045LHXEA	NH056LHXEA	
Power Supply		Ø/V/Hz	1/220~240/50					
Mode		-	HP					
Performance	Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
			Btu/h	7,500	9,500	12,200	15,300	19,100
		Heating	kW	2.5	3.2	4.0	5.0	6.3
			Btu/h	8,500	10,900	13,600	17,000	21,400
	Condensate (High Fan Speed)		L/h	0.80	1.12	1.28	2.07	2.39
Power	Input		W	80	80	80	90	100
	Running Current		A	0.4	0.4	0.4	0.6	0.6
Sound Level	S/Pressure(H/L)		dB(A)	31/26	32/27	32/27	33/30	33/30
Fan	Type			Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Airflow Rate	Cooling(H)		m ³ /min	8.0	9.0	10.0	14.0	15.0
	Heating(H)			9.0	10.0	12.0	16.5	18.0
	ESP (Min~Max)		mmAq	2 (0~4)	2 (0~4)	2 (0~4)	2 (0~4)	2 (0~4)
Refrigerant		-	R410A					
Pipe	Liquid(flare)		Ø,mm	6.35	6.35	6.35	6.35	6.35
	Gas(flare)			12.7	12.7	12.7	12.7	12.7
	Drain			VP25(OD32,ID25)				
Weight	Net		kg	26.0	26.0	26.0	31.0	31.0
	Gross			31.0	31.0	31.0	39.0	39.0
Dimensions	Net	W*H*D	mm	900*199*600	900*199*600	900*199*600	1100*199*600	1100*199*600
	Gross		mm	1133*333*722	1133*333*722	1133*333*722	1330*330*730	1330*330*730
Functions	Auto Restart			O	O	O	O	O
	Auto Swing			X	X	X	X	X
	Group/Individual Control			O	O	O	O	O
	External Contact Control			O	O	O	O	O
	Trouble Shooting by LED			X	X	X	X	X

1) Mode

- HP : Heat Pump

2) Nominal cooling capacities are based on;

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

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Nominal heating capacities are based on;

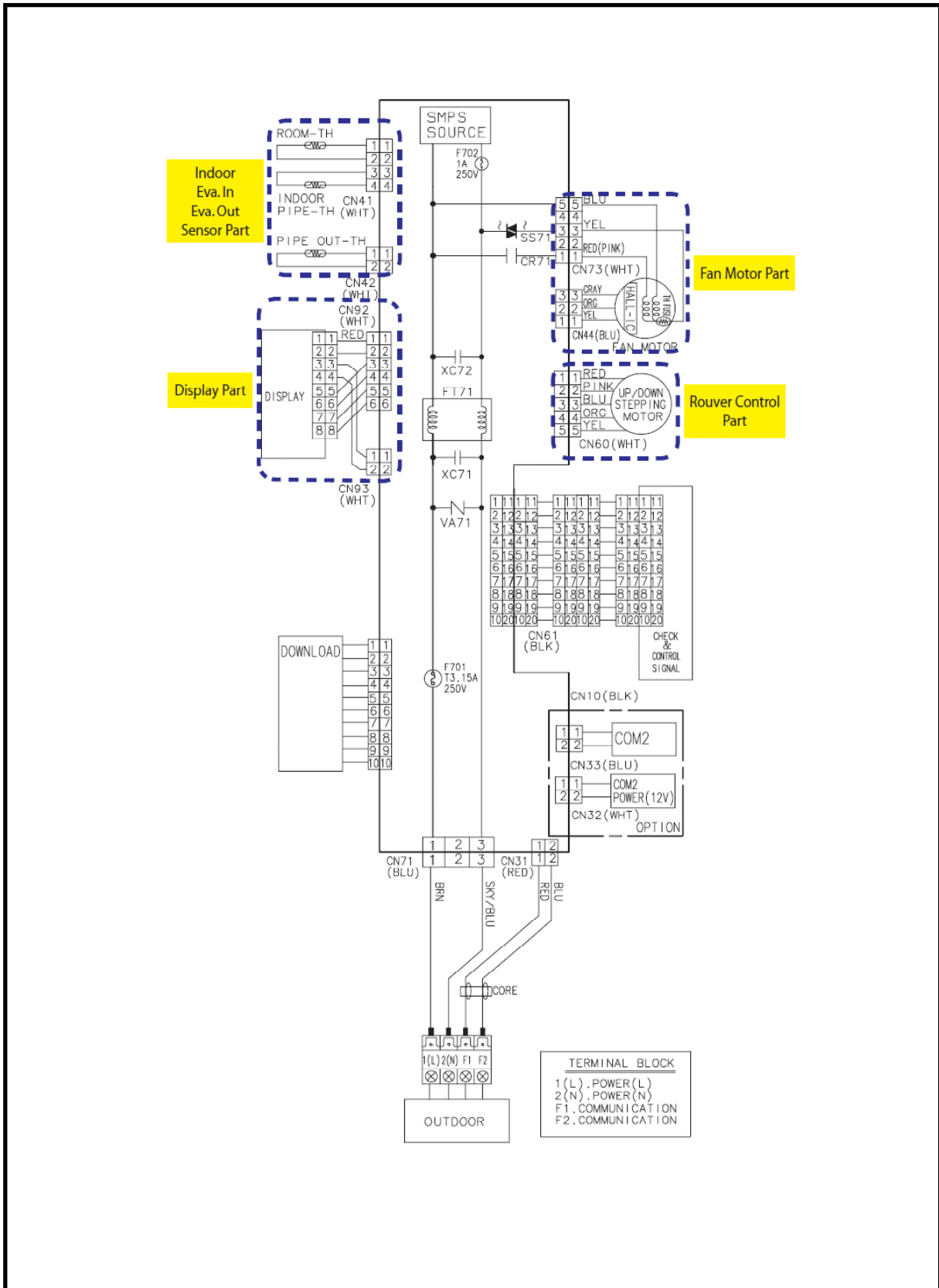
- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
5) Specifications may be subject to change without prior notice for product improvement.

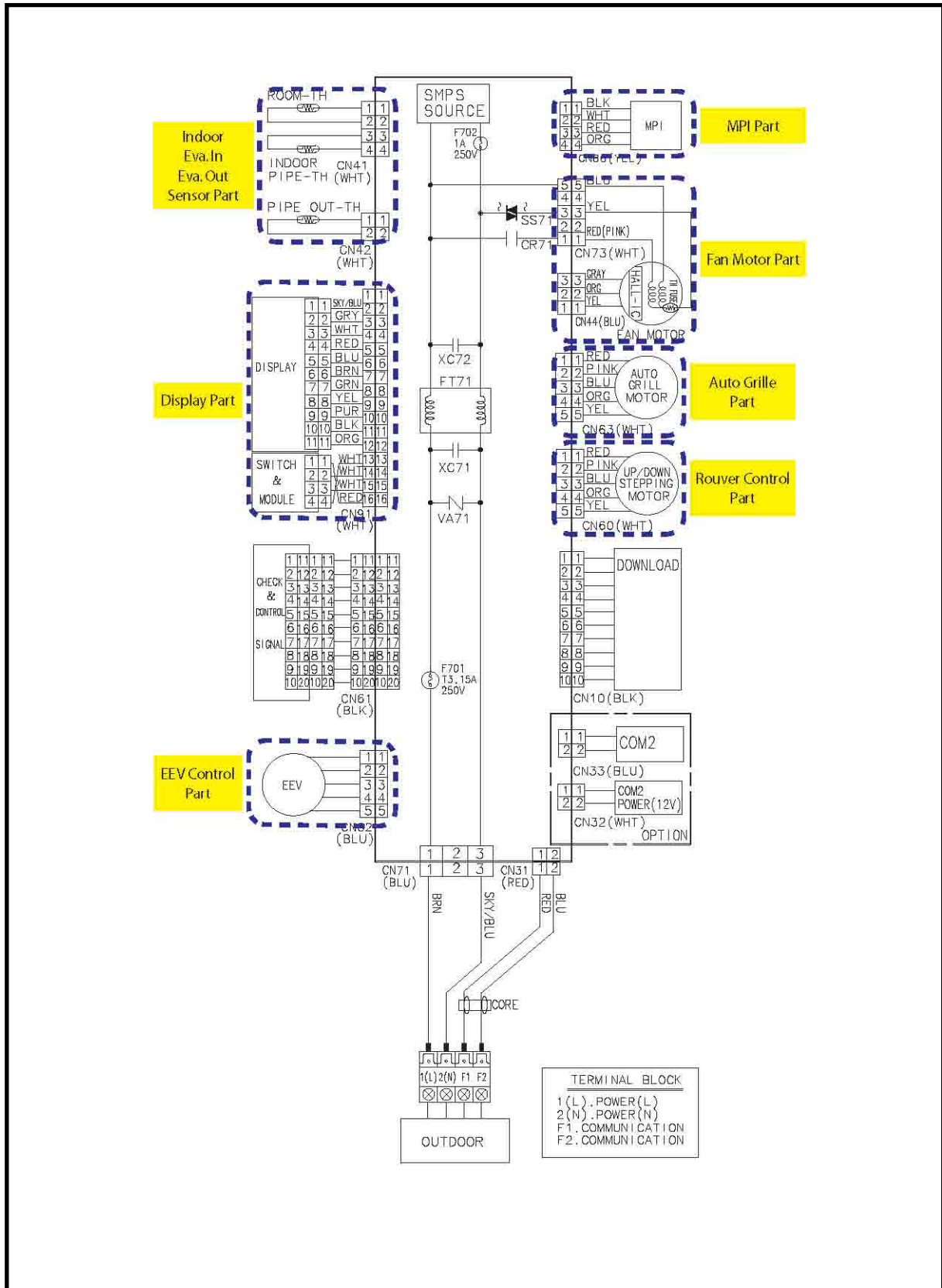
2. Electrical Wiring Diagram

2-1. Indoor Units(NH022/028/036/056/071NHXEA)



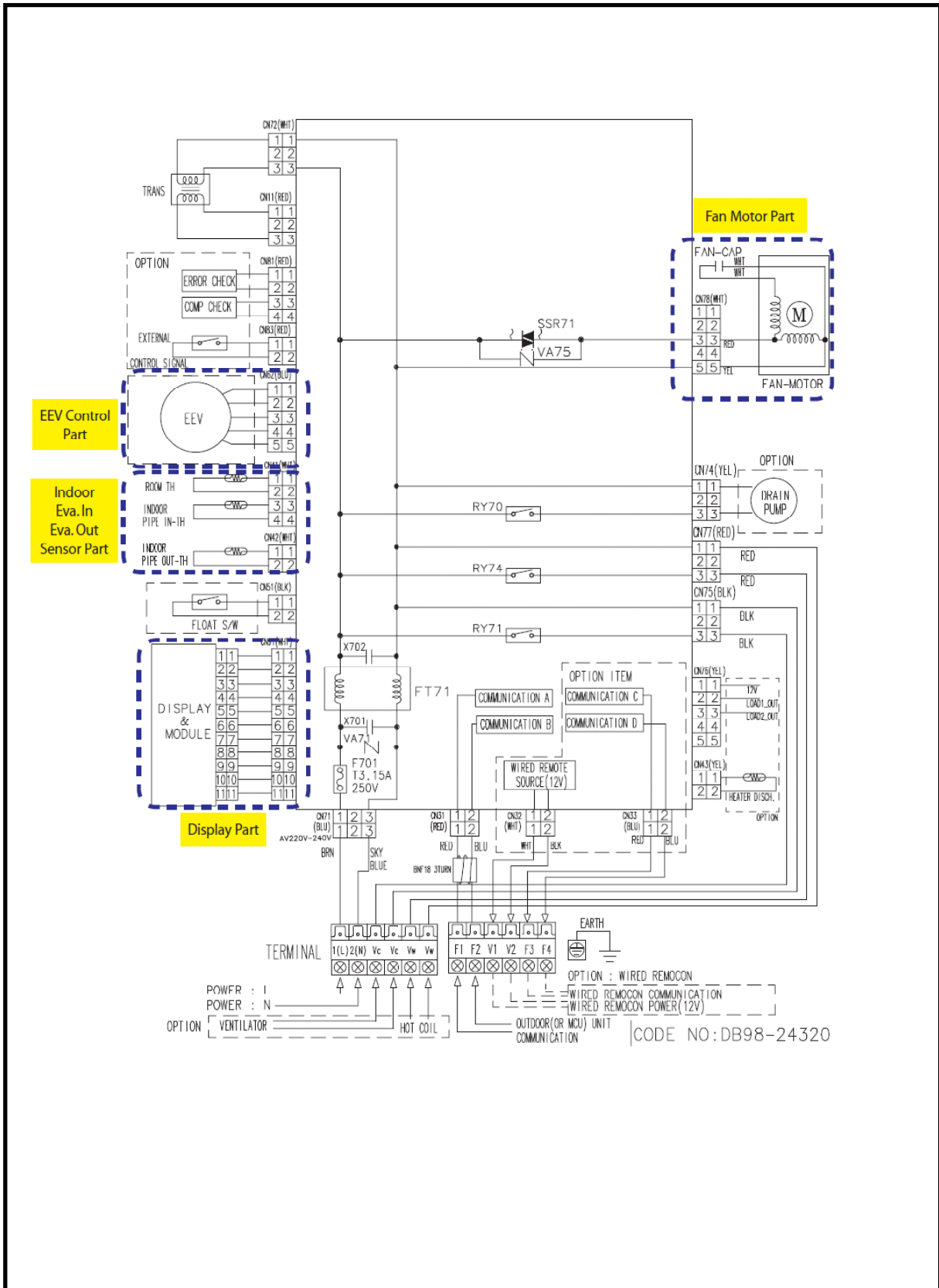
2. Electrical Wiring Diagram

2-2. Indoor Units(NH022/028/036/056/071VHXEA)



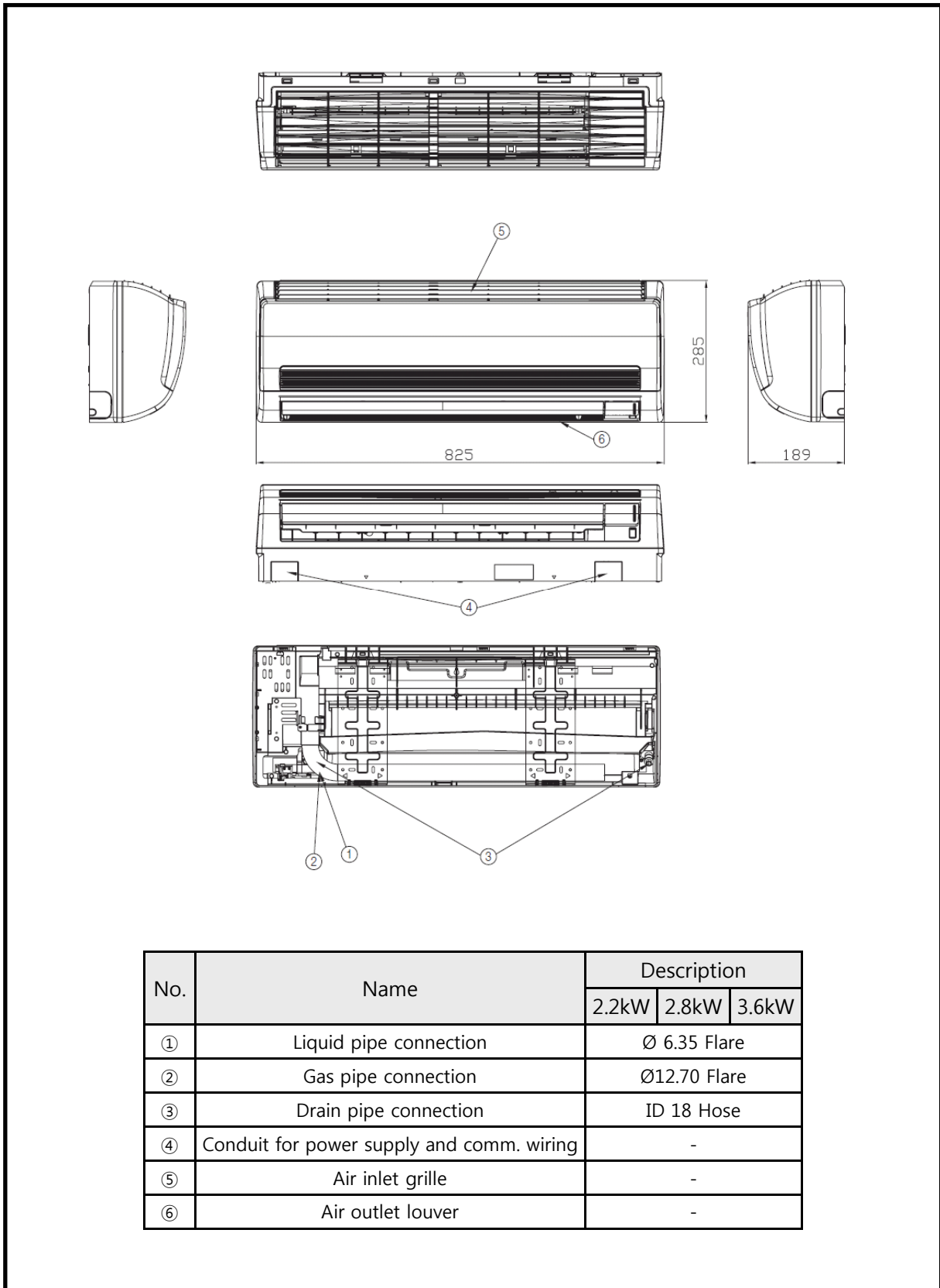
2. Electrical Wiring Diagram

2-3. Indoor Units(NH022/028/036/045/056LHXEA)



3. Dimensional Drawing

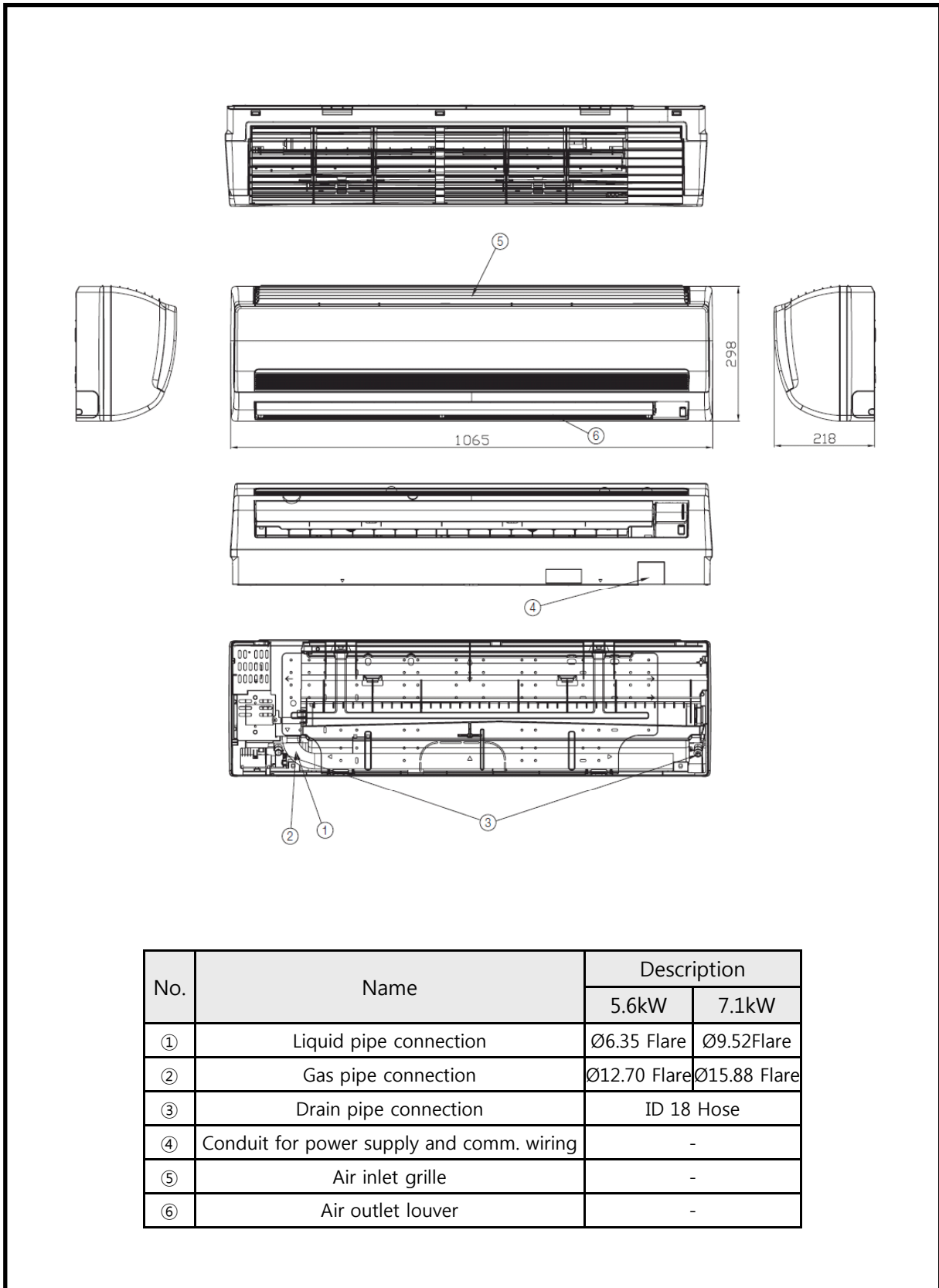
3-1. Indoor Units(NH022/028/036NHXEA)



No.	Name	Description		
		2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø 6.35 Flare		
②	Gas pipe connection	Ø12.70 Flare		
③	Drain pipe connection	ID 18 Hose		
④	Conduit for power supply and comm. wiring	-		
⑤	Air inlet grille	-		
⑥	Air outlet louver	-		

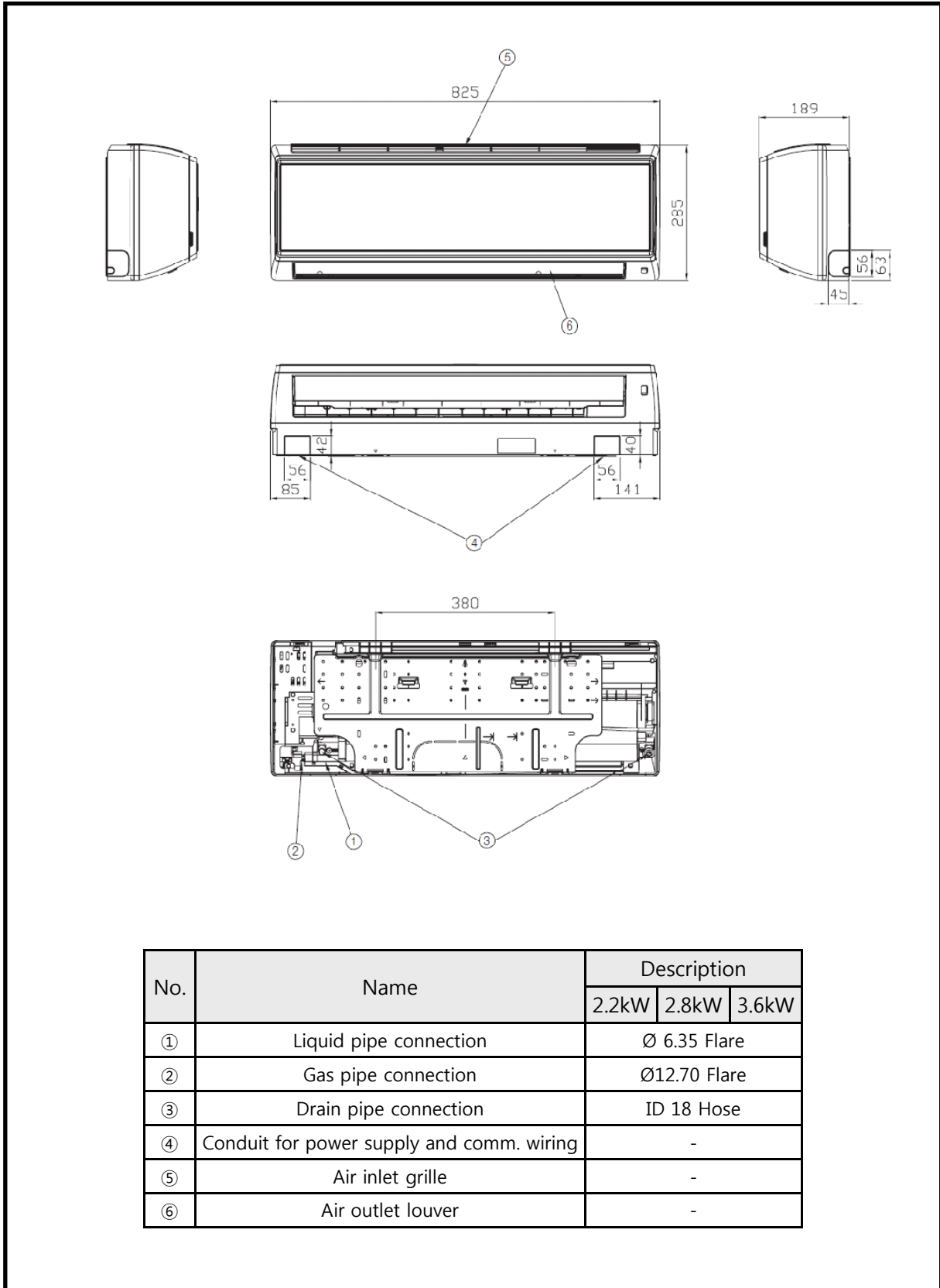
3. Dimensional Drawing

3-1. Indoor Units(NH056/071NHXEA)



3. Dimensional Drawing

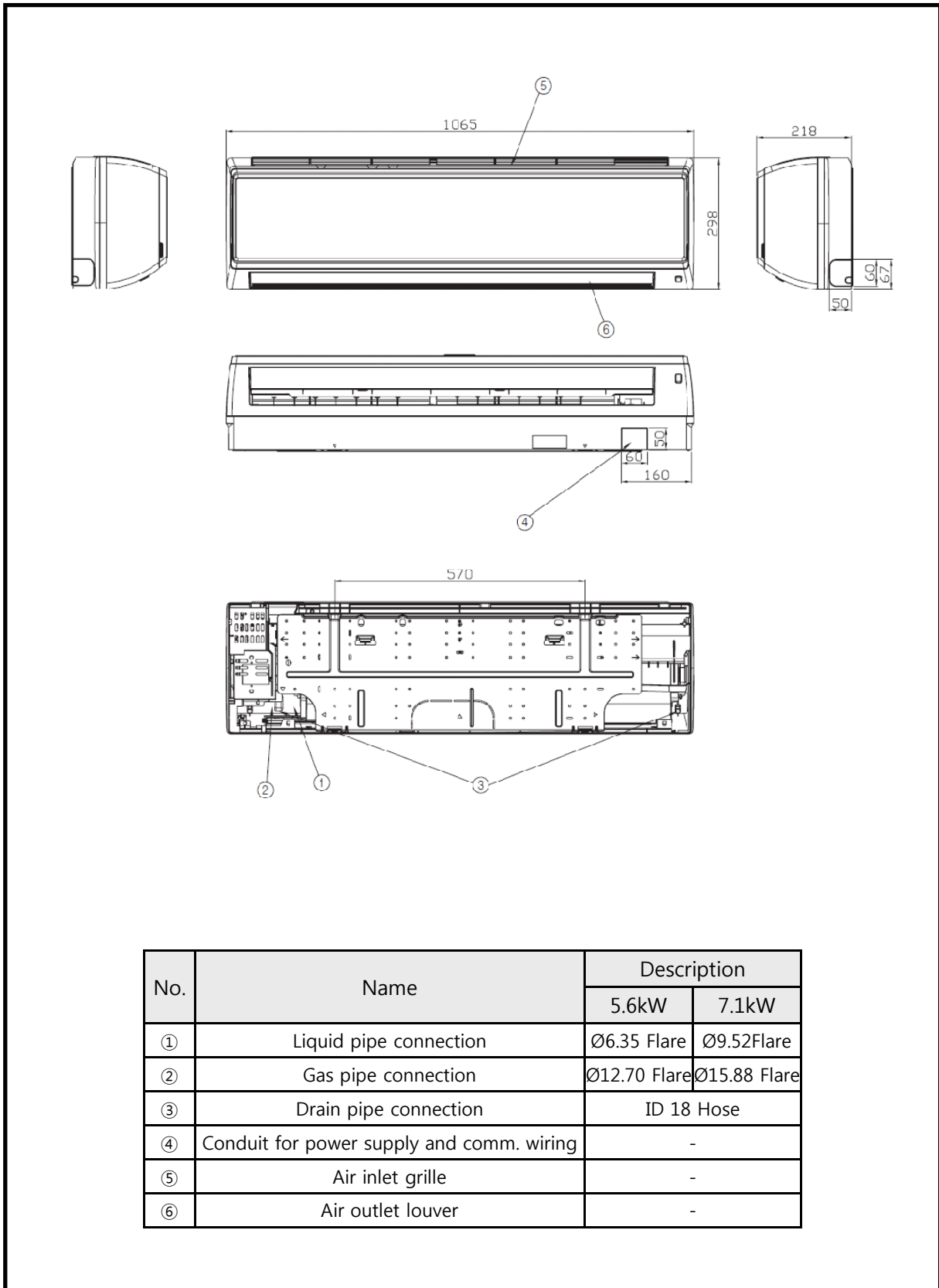
3-2. Indoor Units(NH022/028/036VHXEA)



No.	Name	Description		
		2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø 6.35 Flare		
②	Gas pipe connection	Ø12.70 Flare		
③	Drain pipe connection	ID 18 Hose		
④	Conduit for power supply and comm. wiring	-		
⑤	Air inlet grille	-		
⑥	Air outlet louver	-		

3. Dimensional Drawing

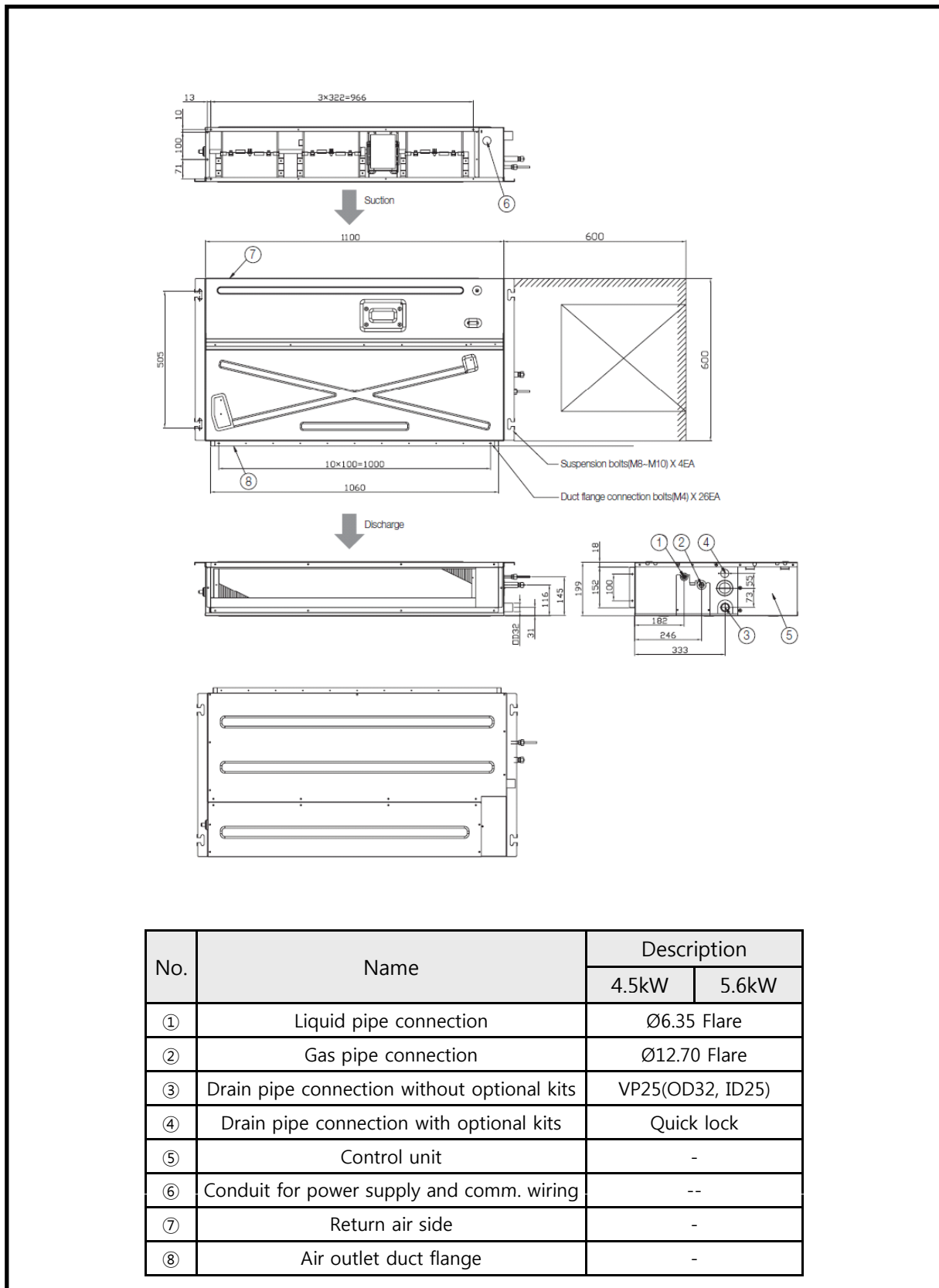
3-2. Indoor Units(NH056/071VHXEA)



No.	Name	Description	
		5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52Flare
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare
③	Drain pipe connection	ID 18 Hose	
④	Conduit for power supply and comm. wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

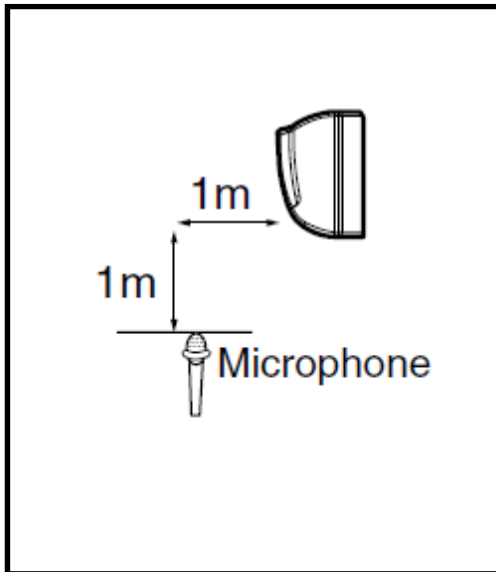
3. Dimensional Drawing

3-3. Indoor Units(NH045/056LHXEA)



4. Sound Pressure level

4-1. Operation sound level (NH022/028/036/056/071NHXEA)



Unit : dB(A)

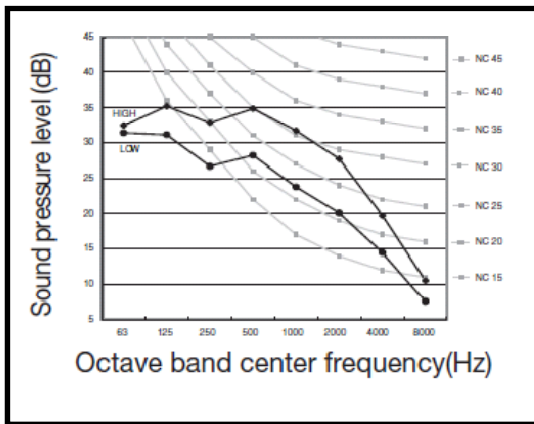
Model	High	Low
NH022NHXEA	32	23
NH028NHXEA	32	23
NH036NHXEA	36	23
NH056NHXEA	40	30
NH071NHXEA	41	30

※ Note

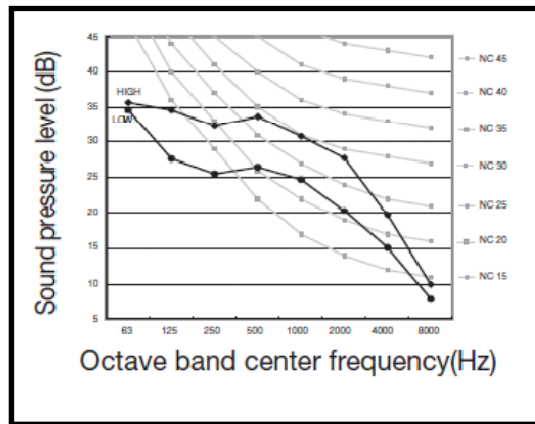
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-2. NC curves

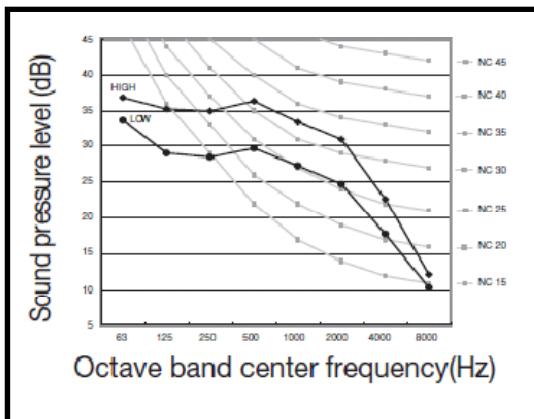
1) NH022NHXEA



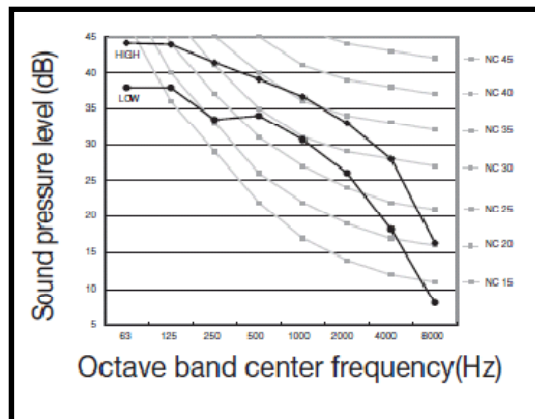
2) NH028NHXEA



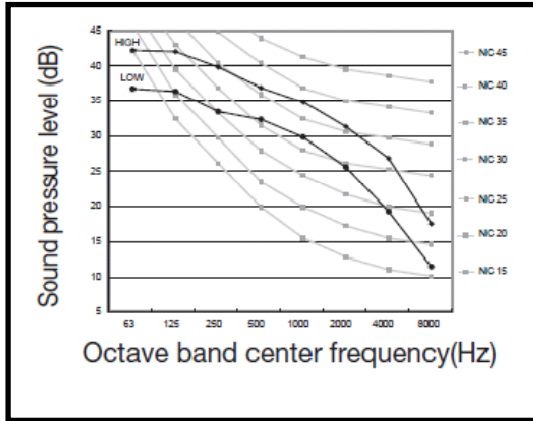
3) NH036NHXEA



4) NH056NHXEA

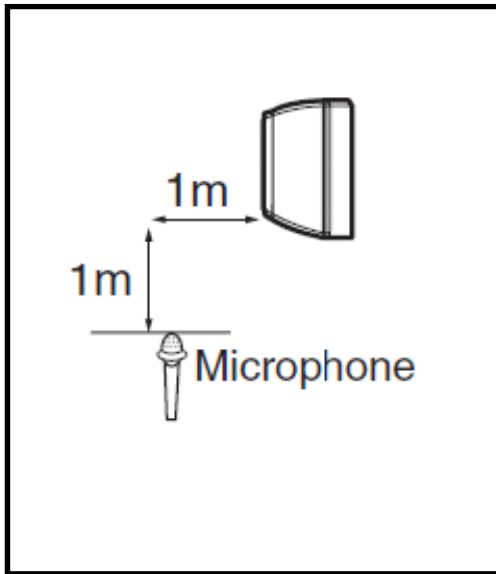


5) NH071NHXEA



4. Sound Pressure level

4-3. Operation sound level (NH022/028/036/056/071VHXEA)



Unit : dB(A)

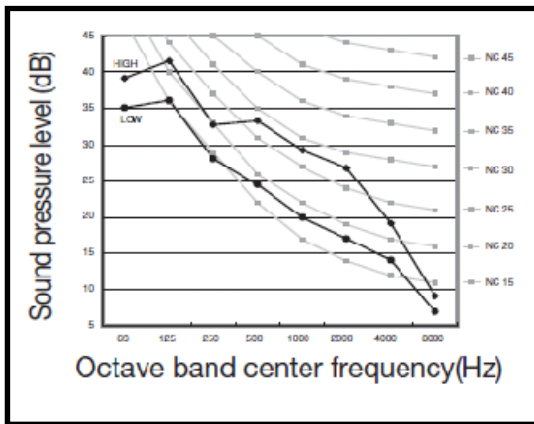
Model	High	Low
NH022VHXEA	31	21
NH028VHXEA	31	21
NH036VHXEA	35	21
NH056VHXEA	40	30
NH071VHXEA	41	30

※ Note

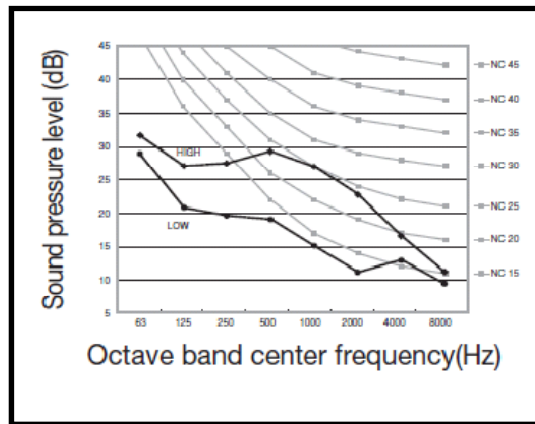
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-4. NC curves

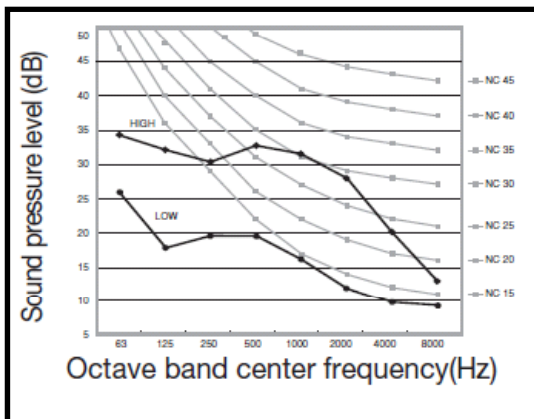
1) NH022VHXEA



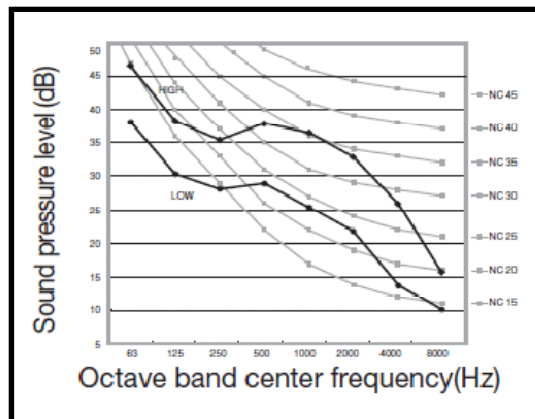
2) NH028VHXEA



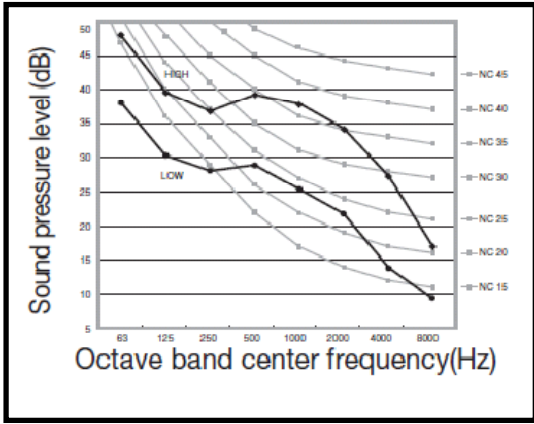
3) NH036VHXEA



4) NH056VHXEA

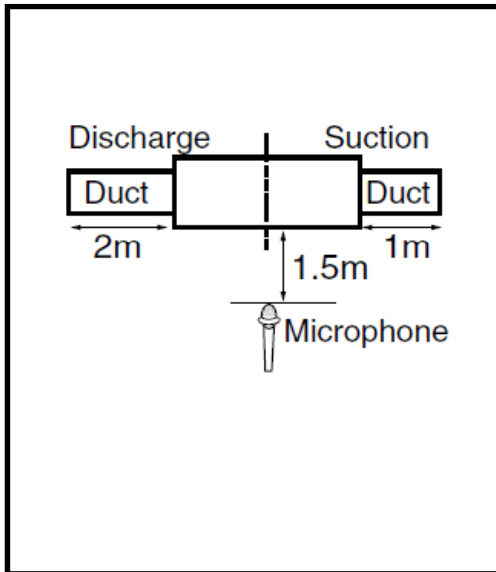


5) NH071VHXEA



4. Sound Pressure level

4-5. Operation sound level (NH022/028/036/045/056LHXEA)



Unit : dB(A)

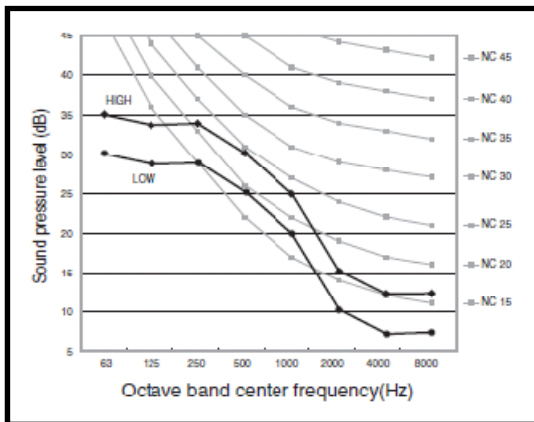
Model	High	Low
NH022LHXEA	31	26
NH028LHXEA	32	27
NH036LHXEA	32	27
NH045LHXEA	33	30
NH056LHXEA	33	30

※ Note

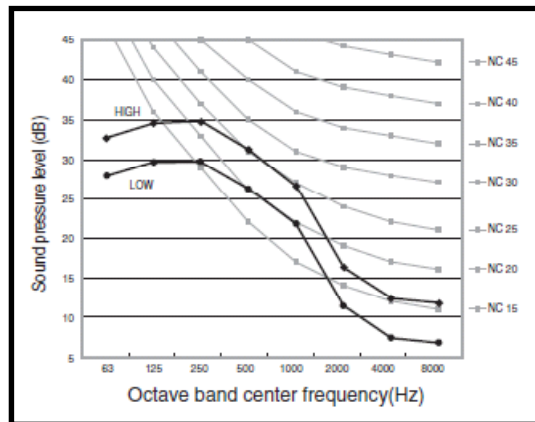
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-6. NC curves

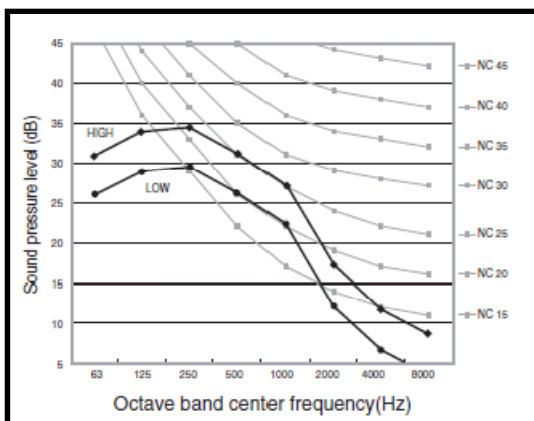
1) NH022LHXEA



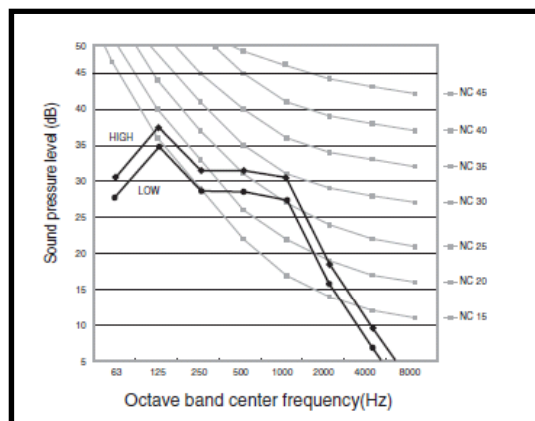
2) NH028LHXEA



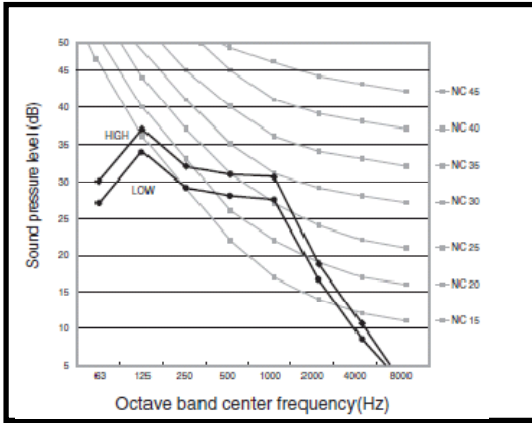
3) NH036LHXEA



4) NH045LHXEA



5) NH056LHXEA

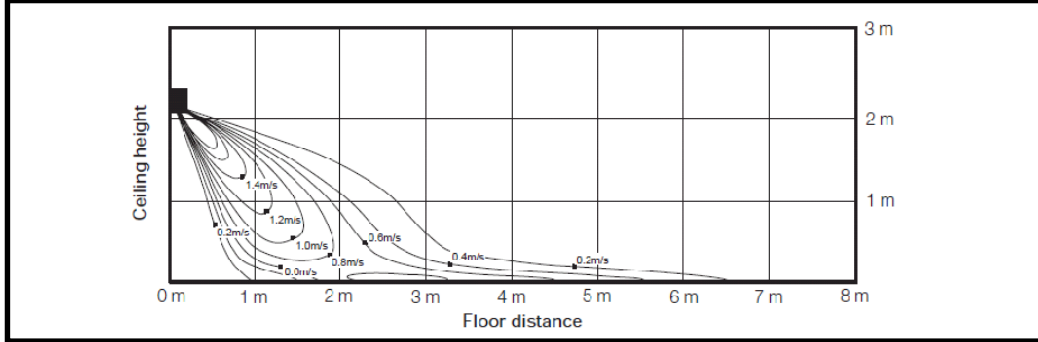


5. Temperature and Air Flow Distribution

5-1. NH036NHXEA

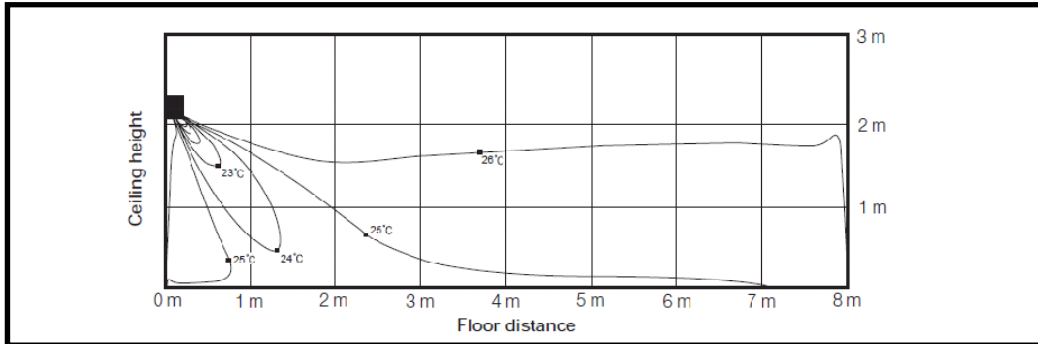
1) Cooling air velocity distribution

◆ Discharge angle : 60°



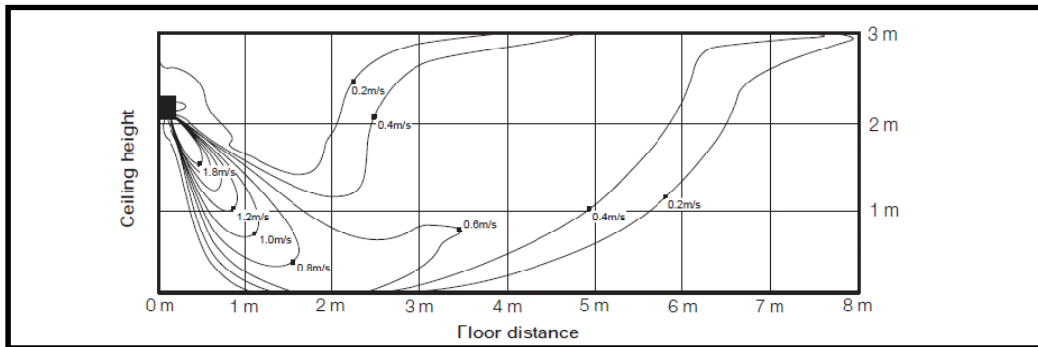
2) Cooling temperature distribution

◆ Discharge angle : 60°



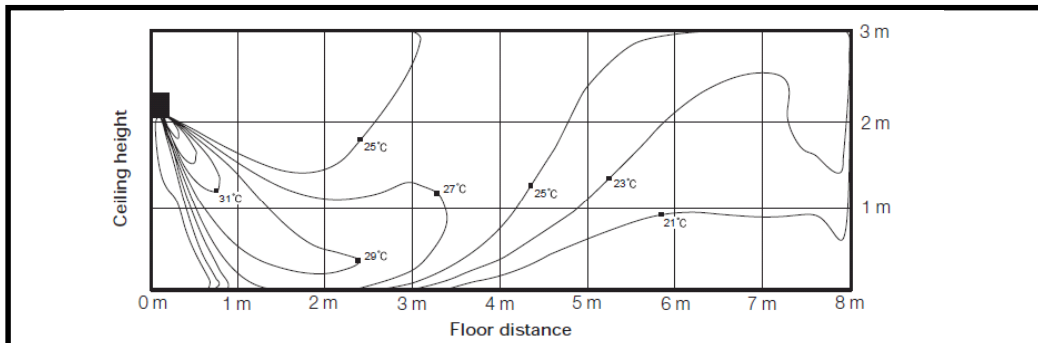
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

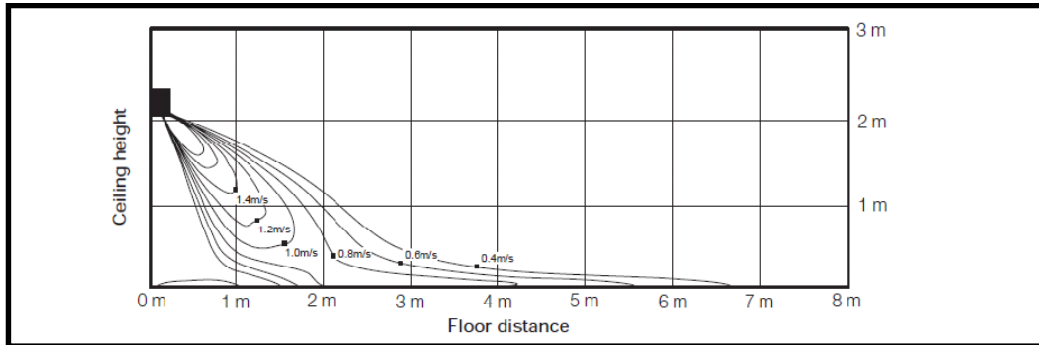


5. Temperature and Air Flow Distribution

5-1. NH071NHXEA

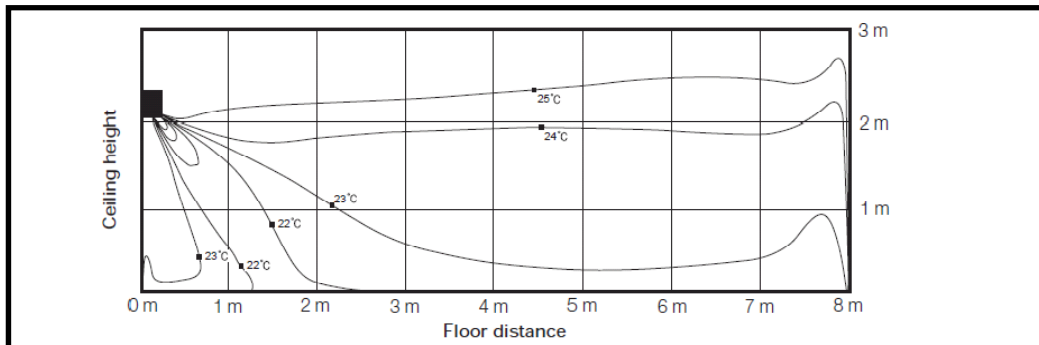
1) Cooling air velocity distribution

◆ Discharge angle : 60°



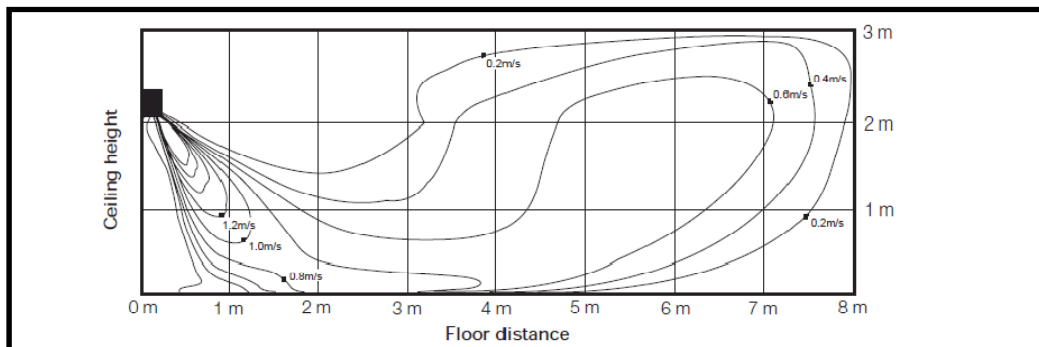
2) Cooling temperature distribution

◆ Discharge angle : 60°



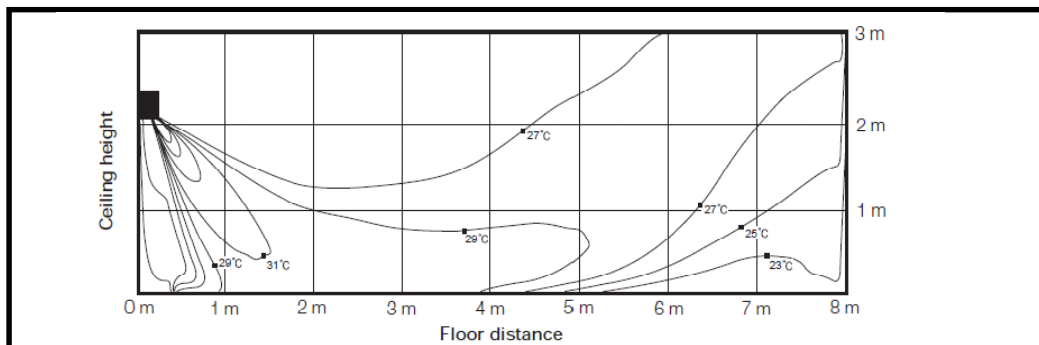
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

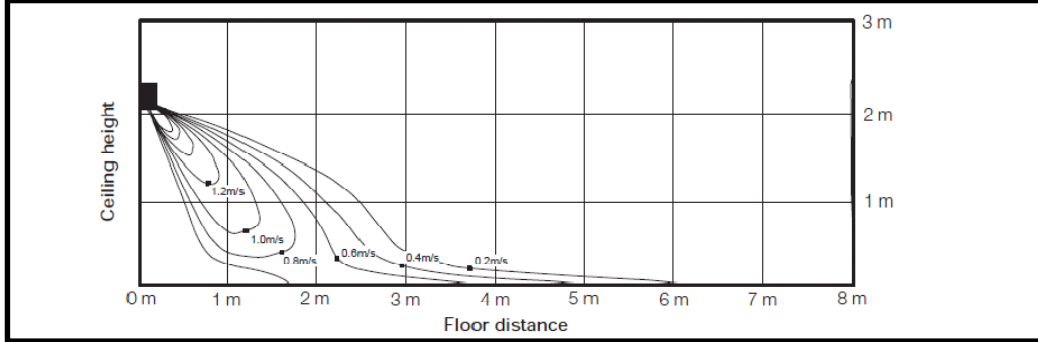


5. Temperature and Air Flow Distribution

5-2. NH036VHXEA

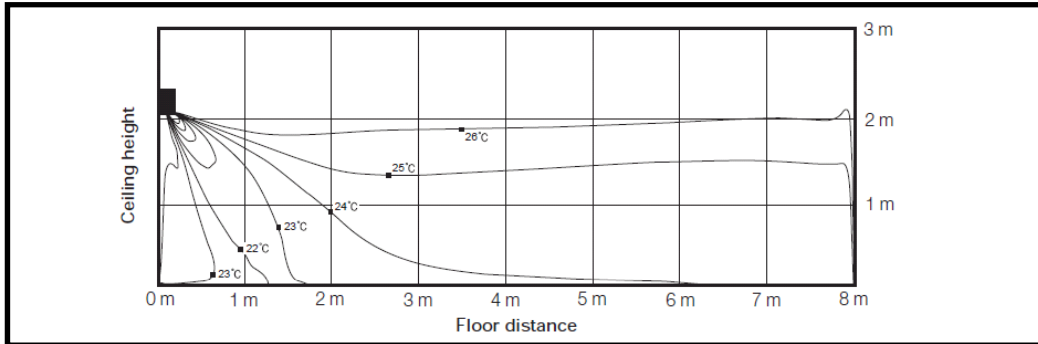
1) Cooling air velocity distribution

◆ Discharge angle : 60°



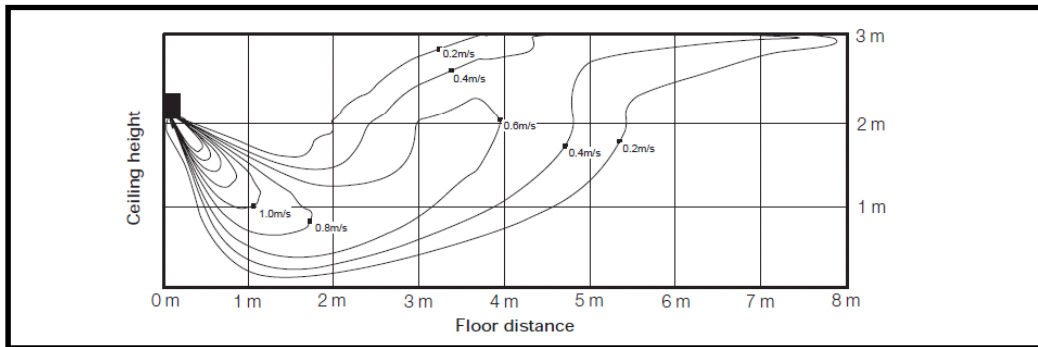
2) Cooling temperature distribution

◆ Discharge angle : 60°



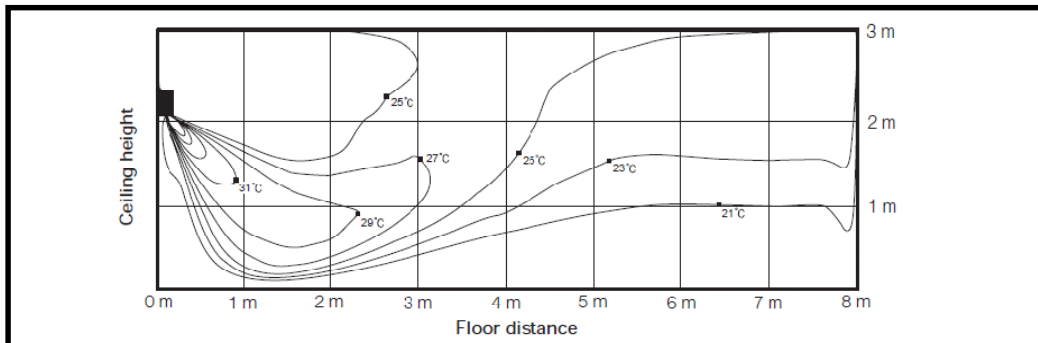
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

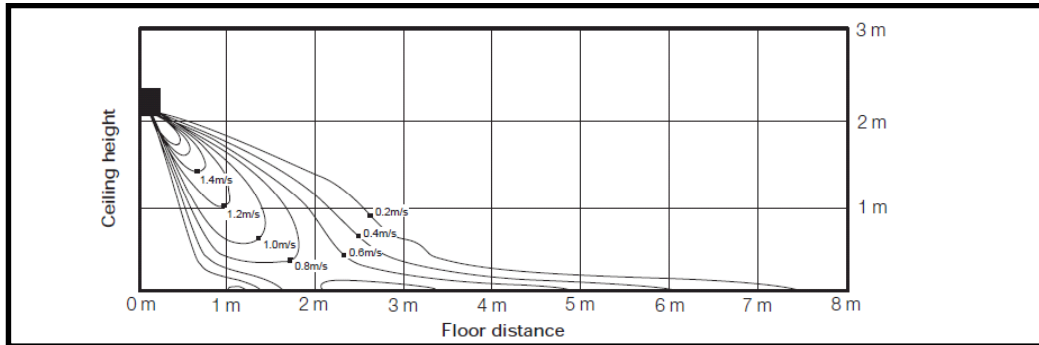


5. Temperature and Air Flow Distribution

5-2. NH071VHXEA

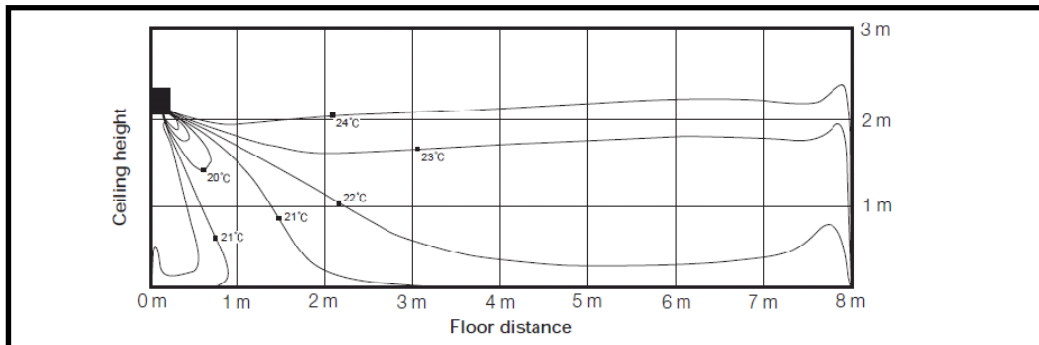
1) Cooling air velocity distribution

◆ Discharge angle : 60°



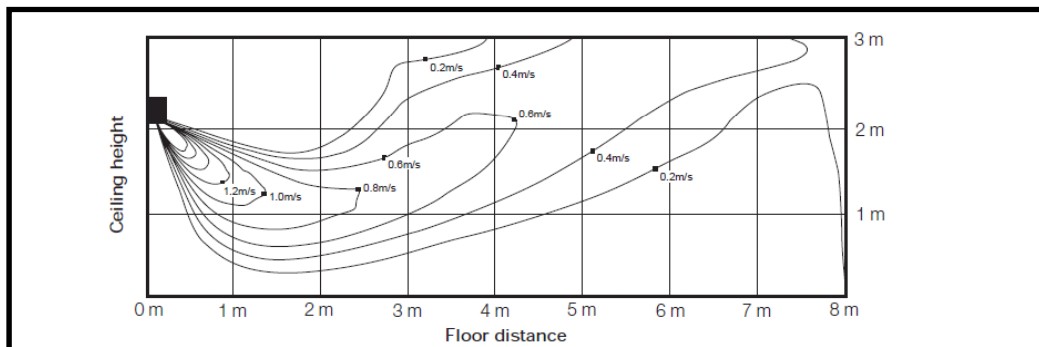
2) Cooling temperature distribution

◆ Discharge angle : 60°



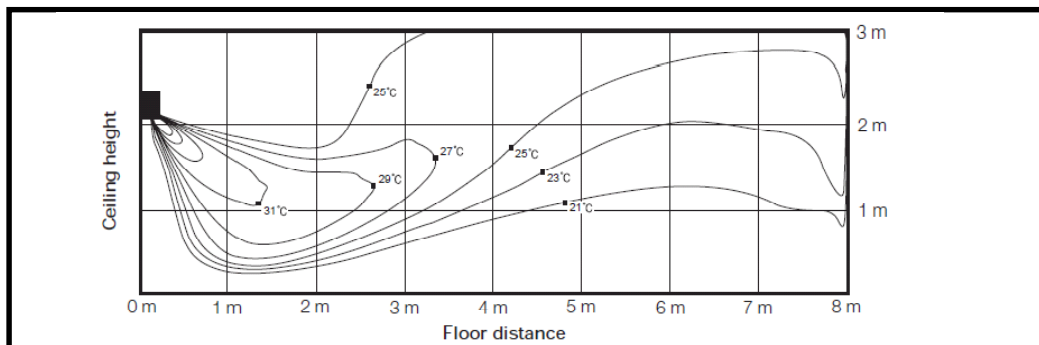
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

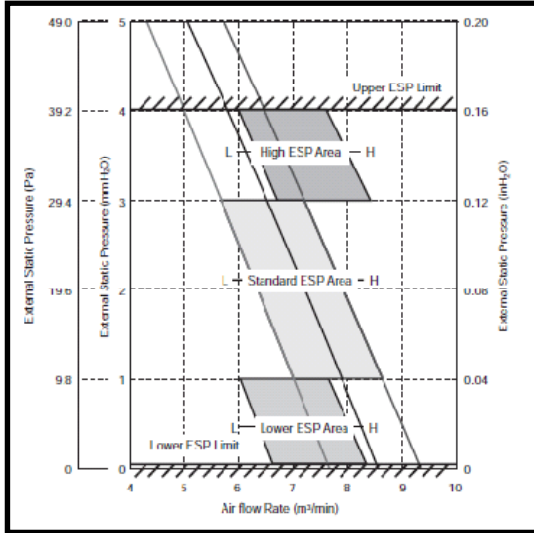


6. Recommended Operation Range

6-1. NH022/028/036/045/056LHXEA

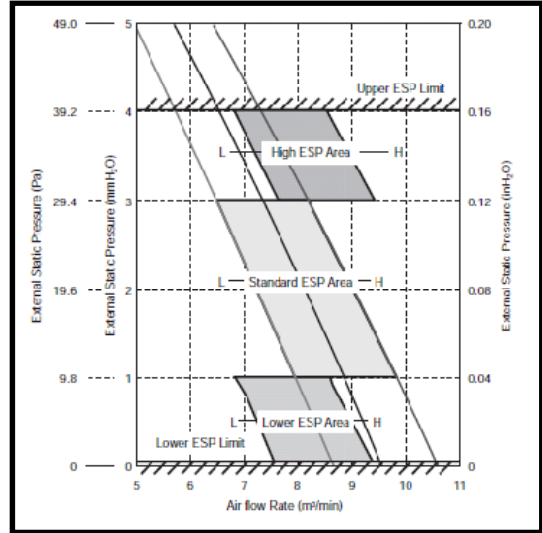
◆ Adjust option code according to the actual installation condition (external static pressure).

1) NH022LHXEA



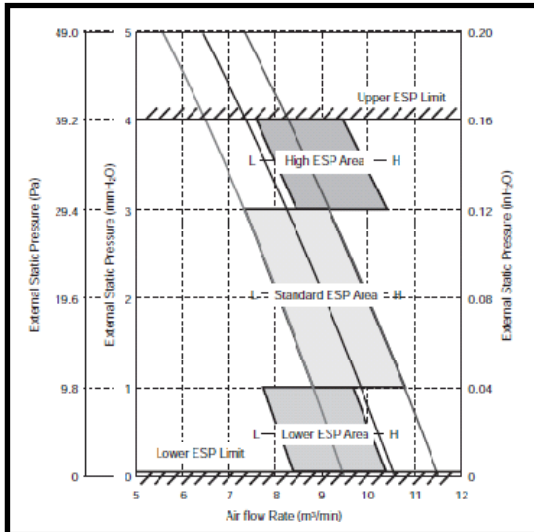
External Static Pressure (mmAq)	Option code
0	015201-1200B6
2	015201-1200EA
4	015201-12021E

2) NH028LHXEA



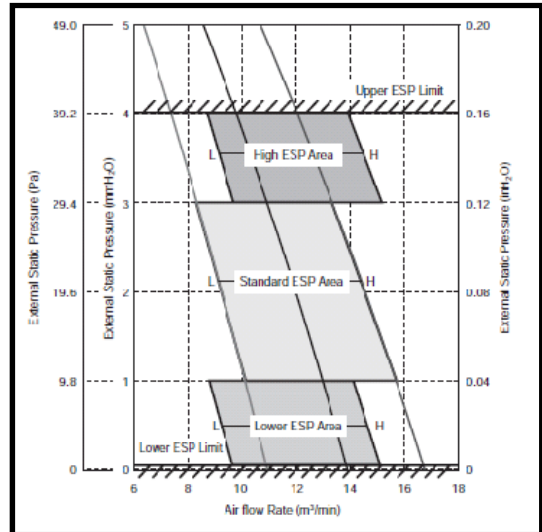
External Static Pressure (mmAq)	Option code
0	015201-1400E8
2	015201-14022C
4	015201-140362

3) NH036LHXEA



External Static Pressure (mmAq)	Option code
0	015201-16024C
2	015201-1603A0
4	015203-160174

4) NH045LHXEA



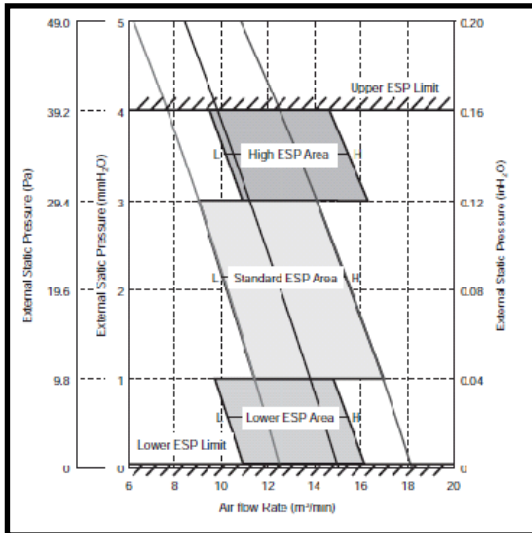
External Static Pressure (mmAq)	Option code
0	015221-1703F3
2	015221-170135
4	015223-1701D9

6. Recommended Operation Range

6-1. NH022/028/036/045/056LHXEA

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

5) NH056LHXEA



External Static Pressure (mmAq)	Option code
0	015223-190148
2	015223-1901BA
4	015223-1903CE

III. Hydro Units

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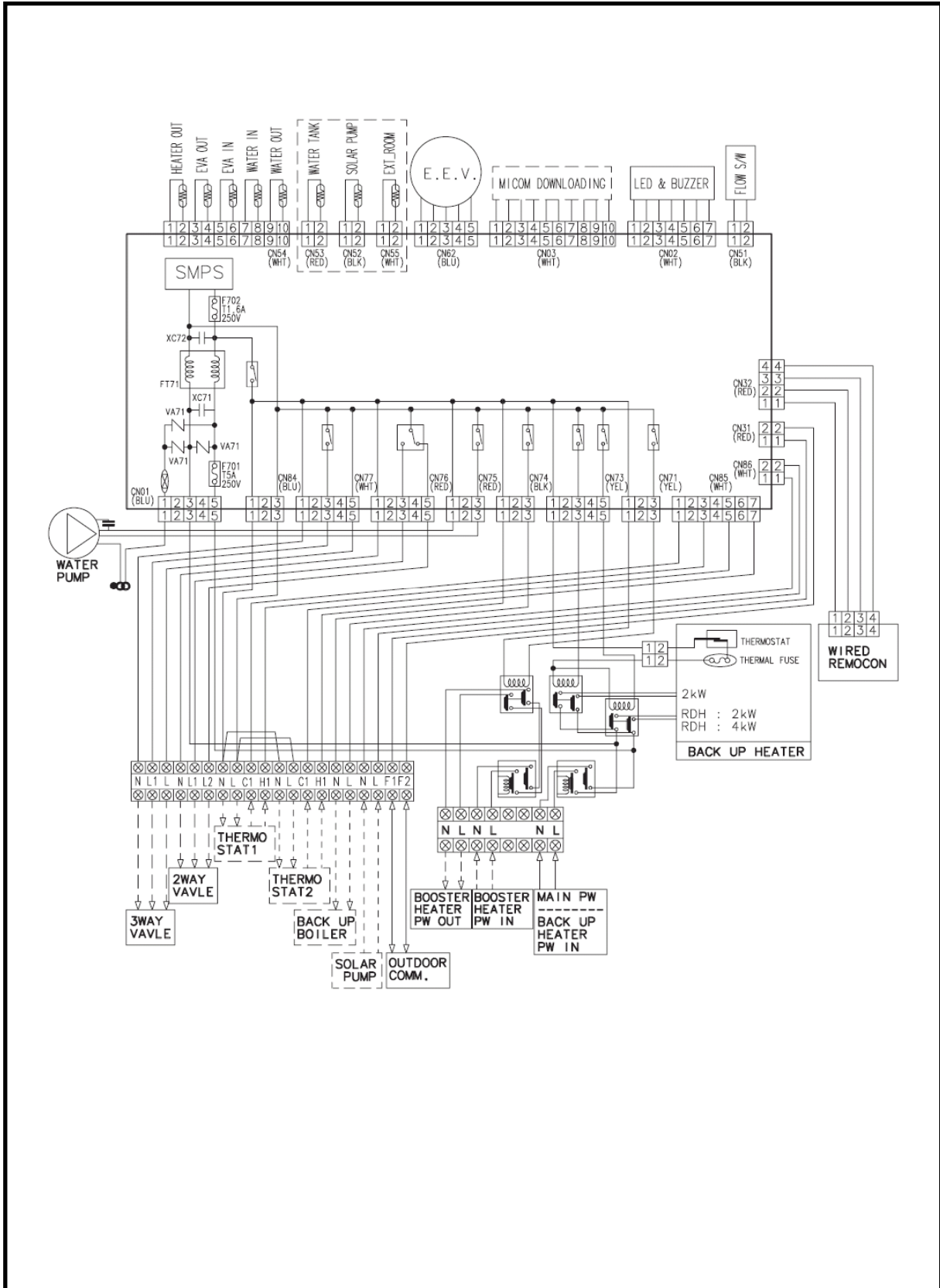
1. Specifications

1-1. NH080/160PHXEA

Division		Unit	NH080PHXEA			NH160PHXEA		
Power Source		V/Hz	1P,230,50					
Operating Range		°C	0 ~ 32					
Leaving water Temperature Range	Cooling	°C	5~25			5~25		
	Heating	°C	15~55 (H/P : 25~55)			15~55(H/P : 25~55)		
Heating Capacity		kW	6	7	8	11	14	16
Water Pump	Flow Rate	Kg/min	17.0	20.5	23.0	31.5	40.1	45.9
	E.S.P	KPa	53	51	45	64	59	54
	Speed	-	High	High	High	High	High	High
	Output	W	180			200		
Dimensions (WxHxD)	Net	mm	510 x 850 x 315			510 x 850 x 315		
	Gross	mm	564 x 1024 x 412			564 x 1024 x 412		
Weight	Net	kg	45			48		
	Gross	kg	55			58		
Connecting Pipe [Refrigerant]	Liquid	∅,mm(In)	9.52 (3/8")			9.52 (3/8")		
	Gas	∅,mm(In)	15.88 (5/8")			15.88 (5/8")		
Connecting Pipe [Water]	Inlet	Inch	BSPP male 1 1/4"			BSPP male 1 1/4"		
	Outlet	Inch	BSPP male 1 1/4"			BSPP male 1 1/4"		
Heater Exchanger	Type	-	Brazing plate			Brazing plate		
Electric Heater	Input	kW	4 (2 + 2)			6 (2 + 4)		
	material	-	Incoloy 800					
Air Vent Valve		Inch	BSPP male 1/2"					
Flow Switch		LPM	12 ± 1.5			16 ± 1.5		
Expansion Vessel		L	8.0			8.0		
Total Water Volume		L	5.0			5.5		
Pressure Relief Valve	Size	Inch	BSPP male 3/8"			BSPP male 3/8"		
	Pressure	bar	2.9					

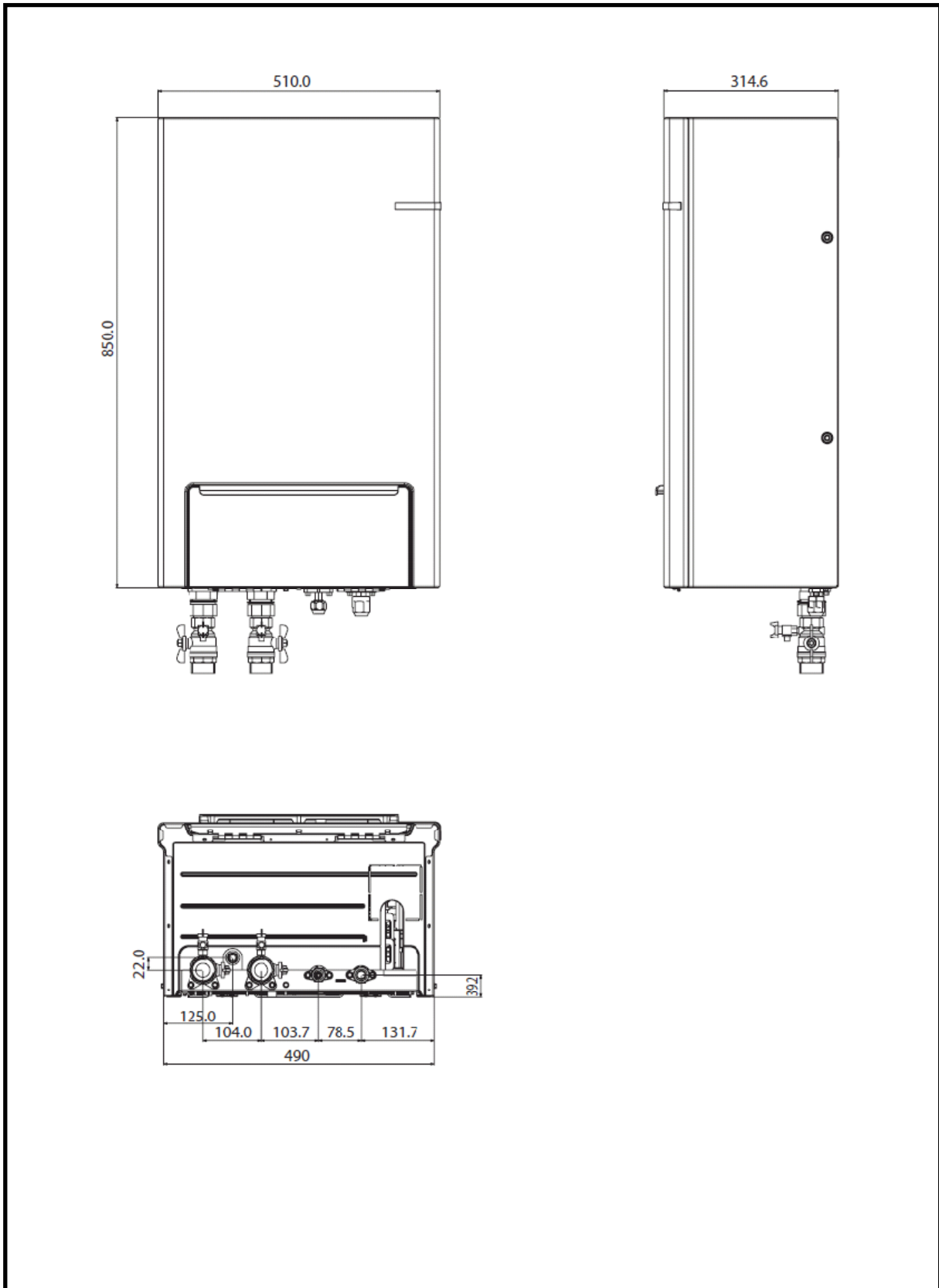
2. Electrical Wiring Diagram

2-1. NH080/160PHXEA



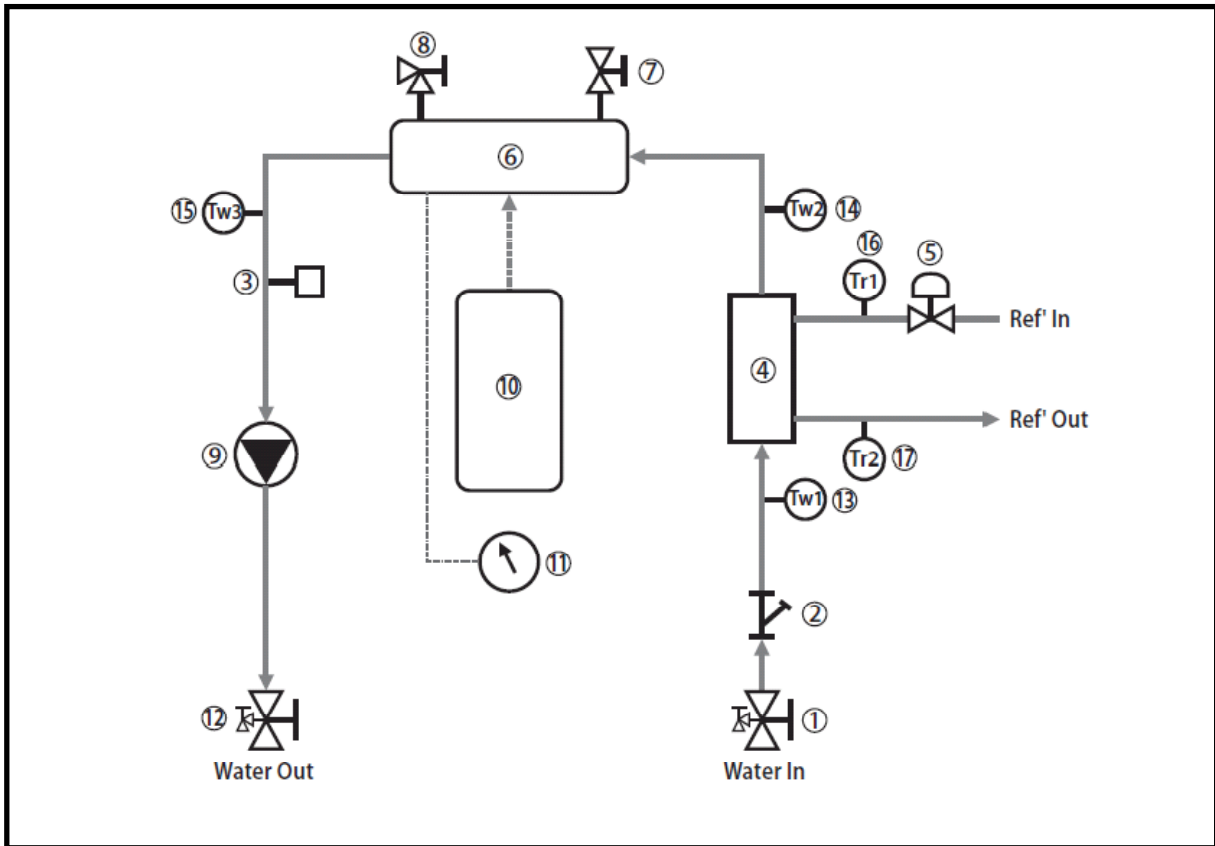
3. Dimensional Drawing

3-4. NH080/160PHXEA



4. Piping Diagram

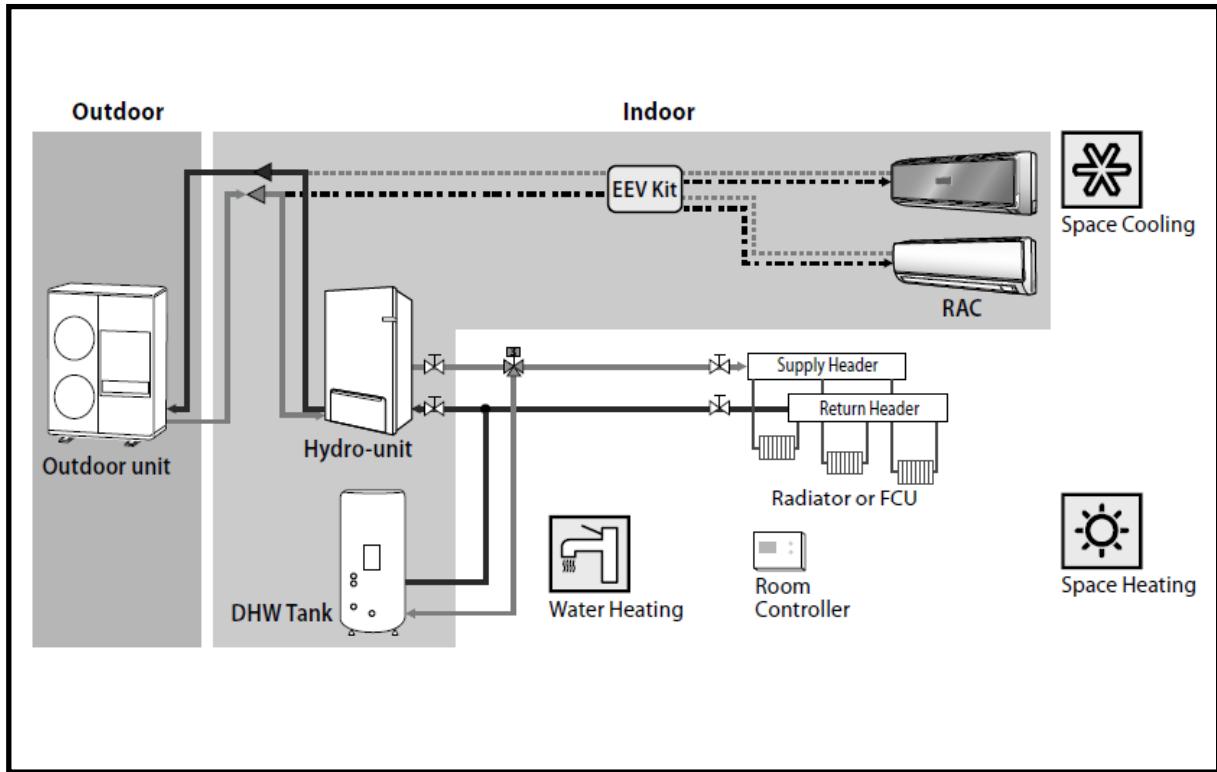
4-1 NH080/160PHXEA



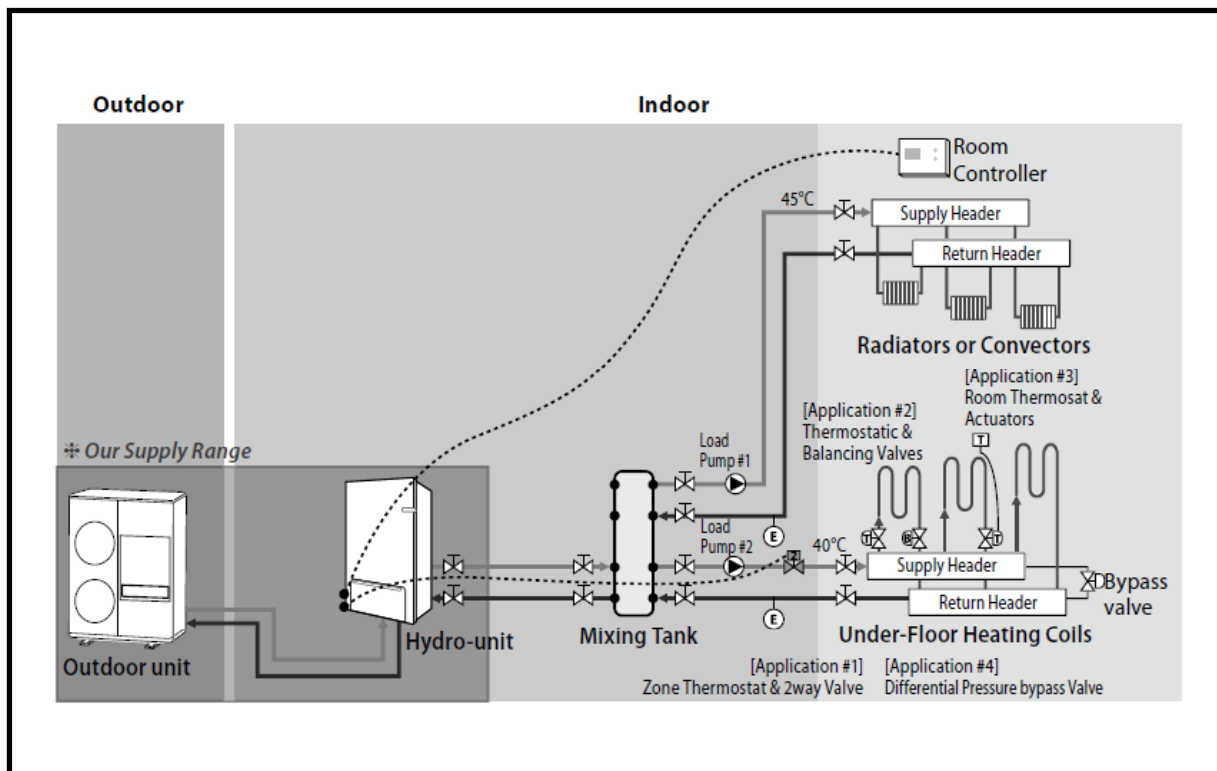
No.	Note
1	Service valve(R)
2	Strainer
3	Flow switch
4	Heat exchanger
5	EEV kit
6	Backup heater
7	Pressure relief valve
8	Air vent
9	Water pump
10	Expansion tank
11	Manometer
12	Service valve(L)
13	Water temp. sensor 1
14	Water temp. sensor 2
15	Water temp. sensor 3
16	Refrigerant temp. sensor 1
17	Refrigerant temp. sensor 2

5. Typical Application

5-1. TDM(Time Division Multi)

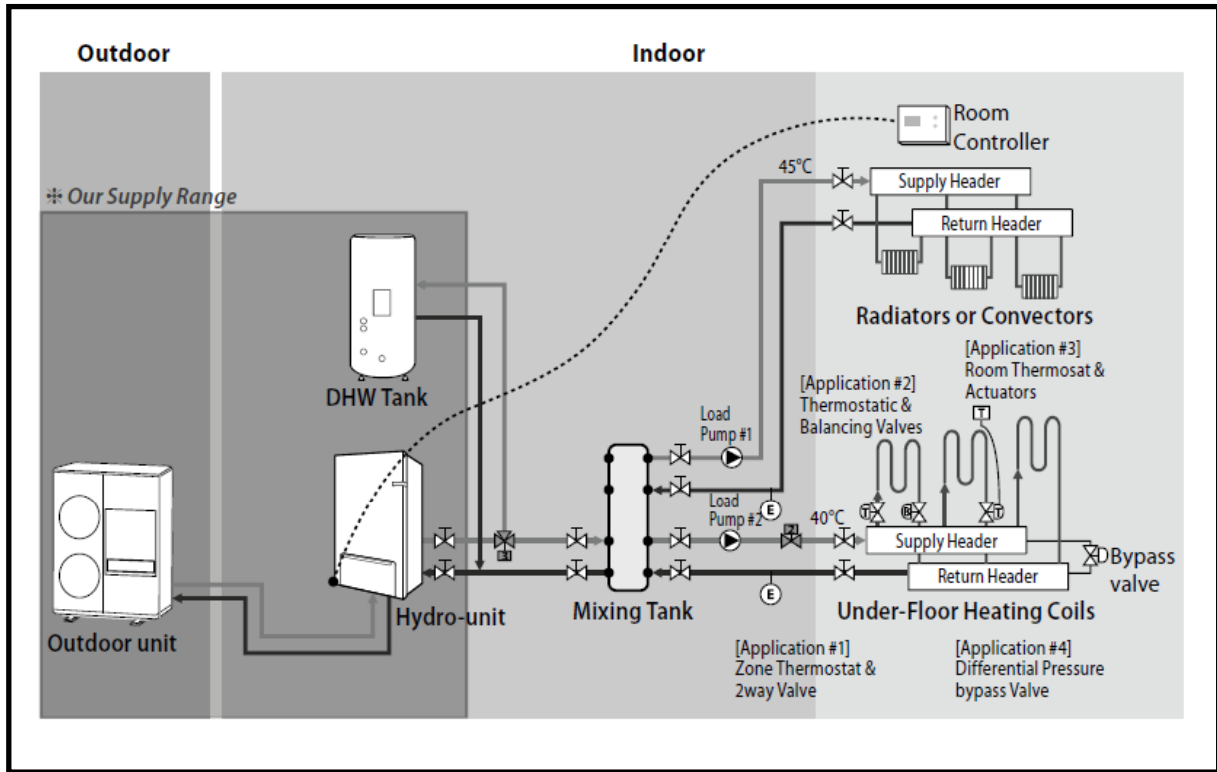


5-2. Space heating

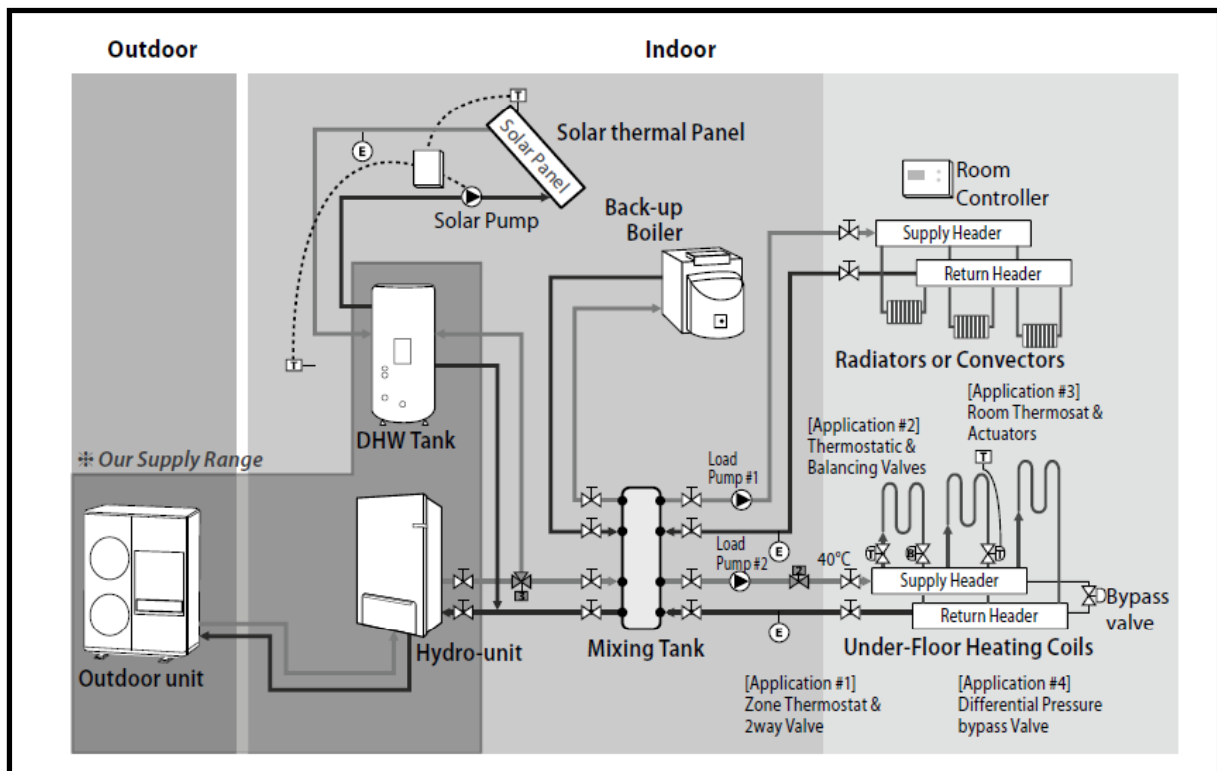


5. Typical Application

5-3. Space heating + water heating



5-4. Hybrid application (backup boiler and solar panel connected)



IV. DHW Tanks

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5. Space Requirements	48

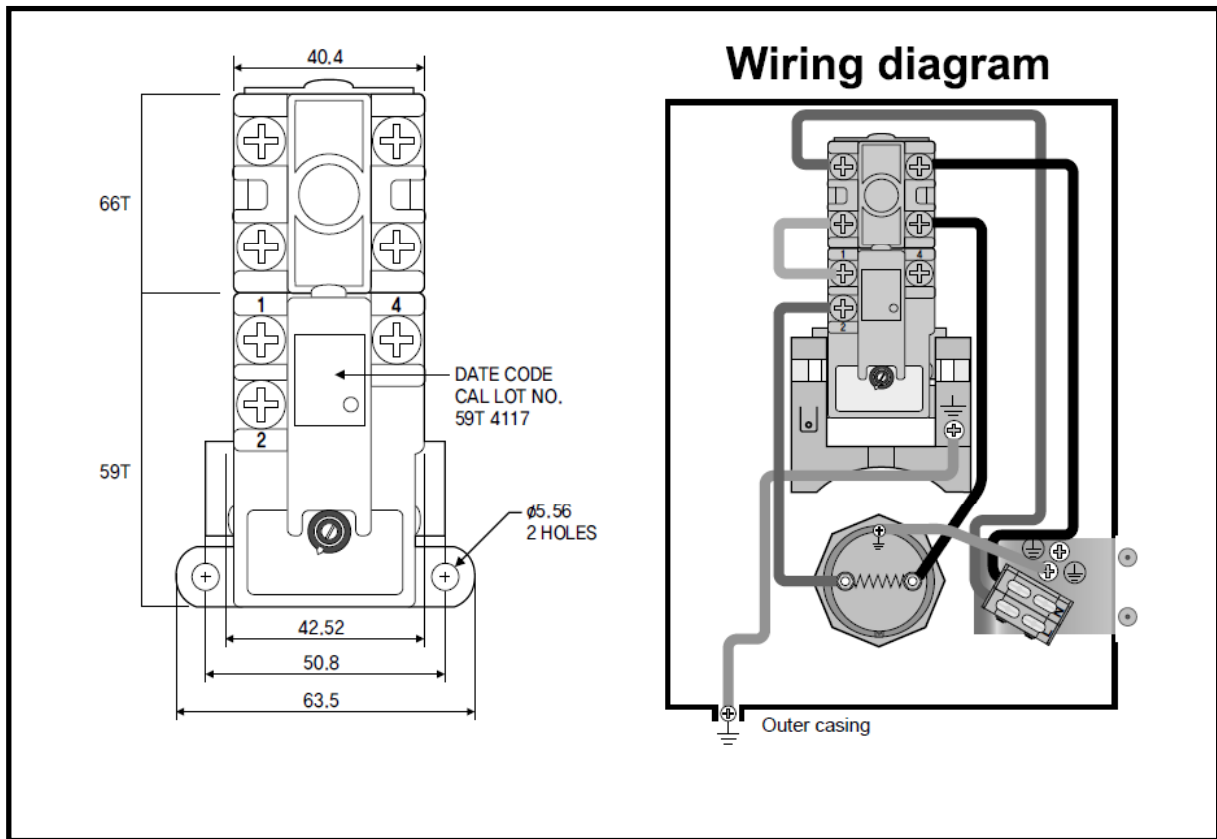
1. Specifications

1-1. NH200/300WHXEA/S

Division		Unit	Standard		Solar Connected	
			NH200WHXEA	NH300WHXEA	NH200WHXES	NH300WHXES
Pressure vessel	Material quality	-	AISI 444 / DIN 1.4521			
	Volume capacity	L	198	287	198	287
Electric element	Capacity	kW	2.6			
	Material		INCOLOY 825			
	Voltage	V/ Hz	1P, 230, 50			
Heating coil	Material quality		Duplex LDX 2101			
	Heating Area	m ²	0.71			
Heating coil for Solar	Material quality		-	-	Duplex LDX 2101	Duplex LDX 2101
	Heating Area	m ²	-	-	0.47	0.47
Insulation	Material quality		Polyurethane form			
	Thickness	mm	40			
Insulation jacket	Material quality		Epoxy-coated mild steel - white			
Dimensions overall	Diameter	mm	585	585	585	585
	Height	mm	1130	1580	1130	1580
Connections	Cold water inlet	Inch	3/4" FBSP			
	Hot water outlet	Inch	3/4" FBSP			
	Recirculation	mm	ø 22 mm straight tube (for compression fitting)			
	Flow & return	mm	2 x 3/4" female			
	Sensor pocket(s)	mm	ø 8.05 mm inside, 1/2" thread			
Weight	Overall	kg	47	61	51	65
Max. Water temperature		°C	70			
Other	Packaging		Eco Foam - PUF			
	Adjustable legs	pcs	3			

2. Electrical Wiring Diagram

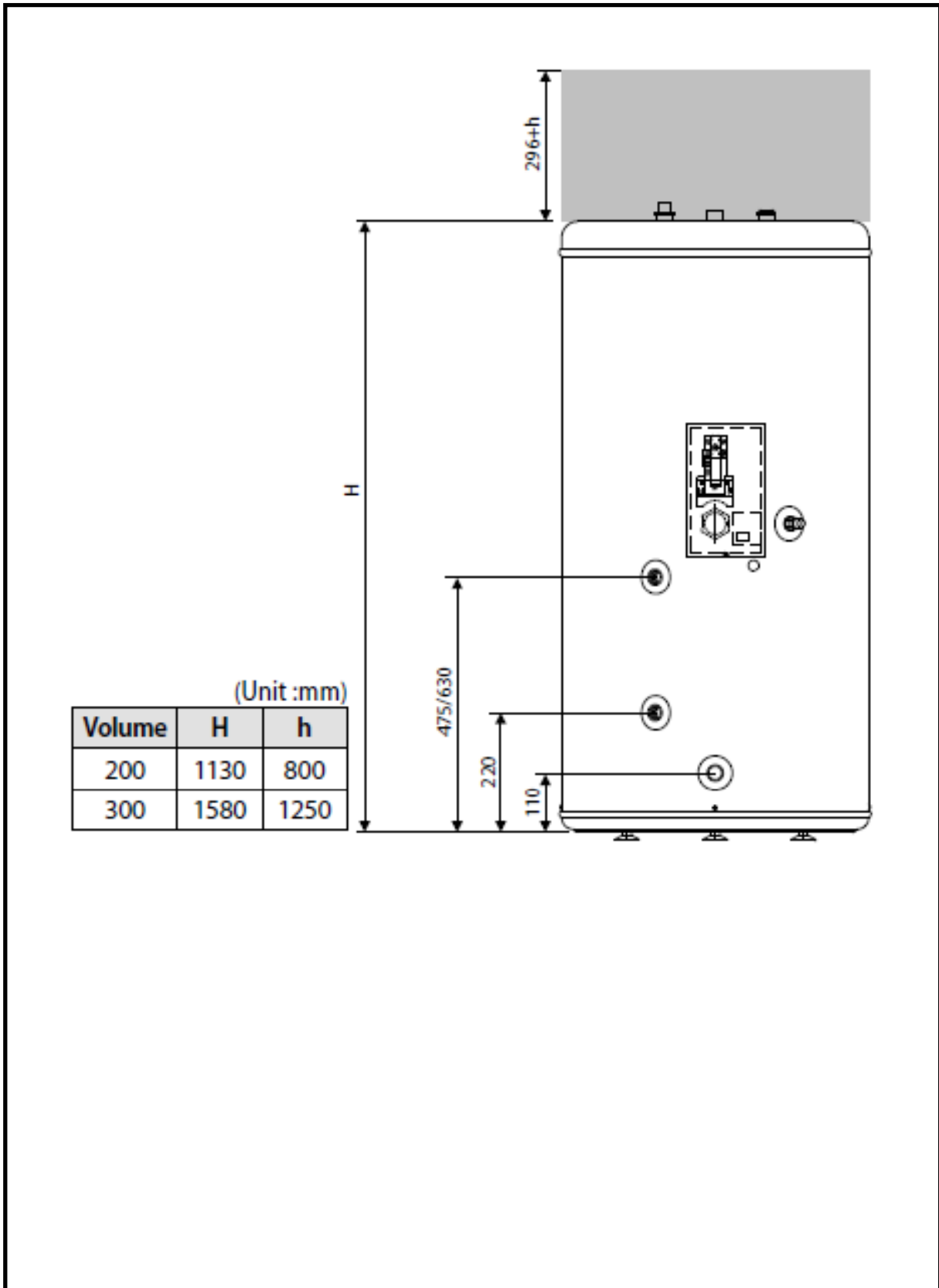
2-1. NH200/300WHXEA/S



- ▶ Electric element : 2.6 kW 230V 1 phase, 1 1/4" connection with O-ring seal
- ▶ Adjustable : Electric output can be reduced by cutting one bridge on the element.
- ▶ Thermostat: Adjustable 40~70°C(preset 60°C)
- ▶ Safety cut-off : 98°C
- ▶ Electric central : Internally connected from factory. Splash proof IP21.

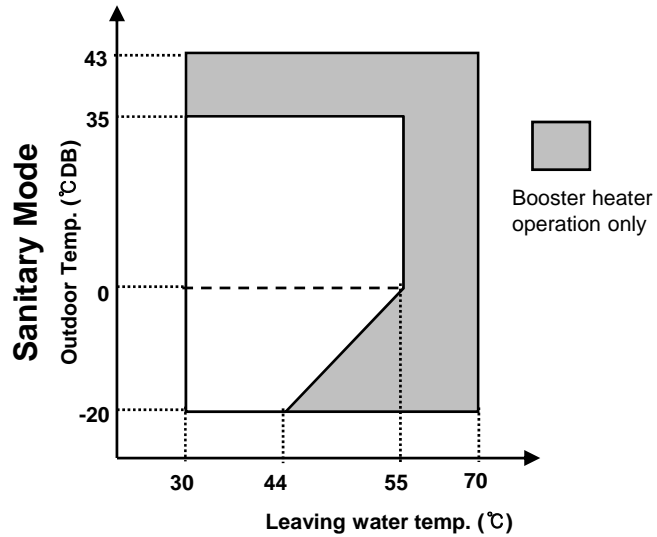
3. Dimensional Drawing

3-1. NH200/300WHXEA/S



4. Recommended operation range

4-1. NH200/300WHXEA/S

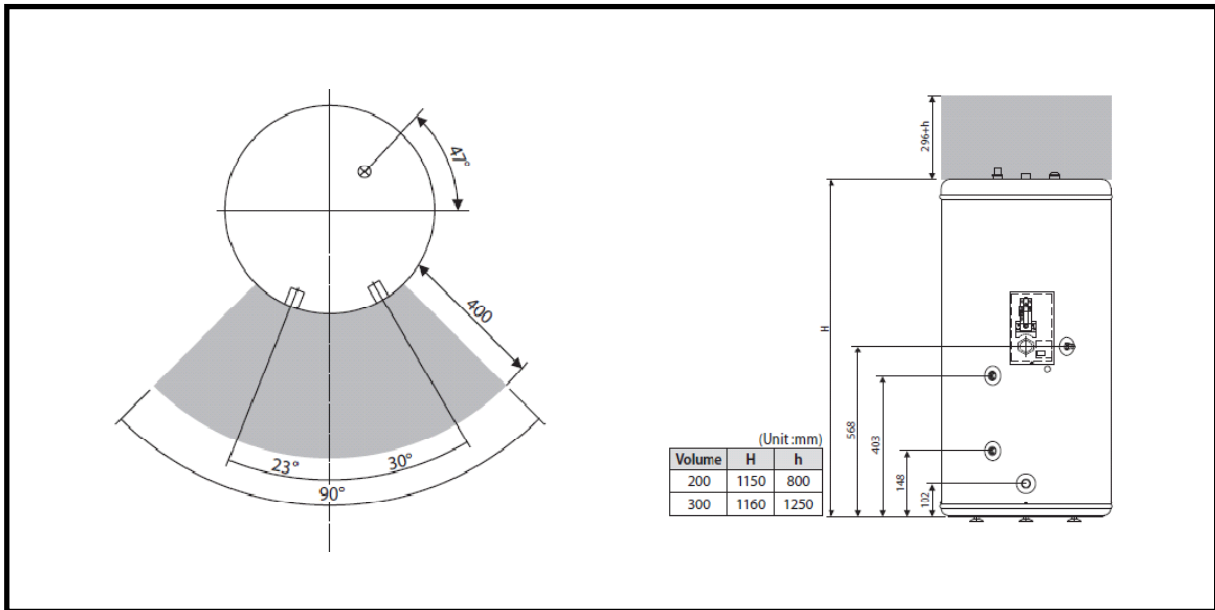


		Water Temp. (°C)			Water Flow rates (LPM)			Air Temp. (°C, DB/WB)		
		Min	Std	Max	Min	Std	Max	Min	Std	Max
Controller	DHW	30	-	70						
Sanitary	Outlet	30	-	70				-20/-	-	43/26

► DHW tank should be installed in a mechanical room with ambient temperature 0~40°C

5. Space Requirements

5-1. NH200/300WHXEA/S



- ◆ The installation space mentioned above is minimum suggested clearance.
- ◆ To secure enough service space and performance of system, take account of more sufficient space.
- ◆ Be sure to install unit in a place strong enough to withstand its weight.
[Total weight 365 kg, Tank(65 kg), Water(300 kg)]

V . Outdoor Units

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1. Specifications

1-1. RD060/070/080PHXEA

Division		Unit	RD060PHXEA	RD070PHXEA	RD080PHXEA
Power Source		V/Hz	1P,230,50	1P,230,50	1P,230,50
Compressor	Model	-	UG8T260FUAEW	UG8T260FUAEW	UG8T260FUAEW
	Type	-	Rotary	Rotary	Rotary
Capacity (AtW Condition#1)	Cooling	W	7,000	7,500	8,000
	Heating		6,000	7,000	8,000
Normal Input (AtW Condition#1)	Cooling	W	1,945	2,205	2,540
	Heating		1,305	1,590	1,925
R/Current (AtW Condition#1)	Cooling	A	8.9	10.1	11.6
	Heating		6.0	7.3	8.8
EER (AtW Condition#1)	Cooling	W/W	3.60	3.40	3.15
	Heating	W/W	4.60	4.40	4.15
Max. Indoor Connection (Not including Hydro unit)	ID Number	EA	3 ↓	3 ↓	3 ↓
	Max Capa	kW	6.0 ↓	7.0 ↓	8.0 ↓
	Min Capa	kW	3.0 ↑	3.5 ↑	4.0 ↑
Operating Range (A2W)	Cooling	°C	10 ~ 46	10 ~ 46	10 ~ 46
	Heating	°C	-20 ~ 35	-20 ~ 35	-20 ~ 35
	DHW	°C	-20~43	-20~43	-20~43
Operating Range (A2A)	Cooling	°C	10 ~ 43	10 ~ 43	10 ~ 43
	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24
Refrigerant	R410A	g	2200	2200	2200
Dimension (WxHxD)	NET	mm	880 x 798 x 310	880 x 798 x 310	880 x 798 x 310
	GROSS	mm	1023 x 891 x 413	1023 x 891 x 413	1023 x 891 x 413
Weight	NET	Kg	71	71	71
	GROSS	Kg	79	79	79
Max Current	Trip	A	13.5	16	18
	Down	A	12.5	14.8	16.6
Connecting Pipe	Liquid	mm	9.52	9.52	9.52
	Gas	mm	15.88	15.88	15.88
Pipe(Max.)	Length	m	30	30	30
	Level	m	15	15	15
Max height between indoor		M	7.5	7.5	7.5
MCCB (field scope)		A	25	25	25

◆ Under the installation of both A2A(Air-To-Air type air conditioner) and A2W(Air-To-Water type hydro unit) at the same time, if our system operates only the heating mode of Air-to-Water Heat Pump, actual performance of our Air-to-Water Heat Pump may be reduced a little as compared with its rated performance. Because the part of the circulating refrigerant amount is bypassed into A2A type indoor units during A2W's normal operation.

1. Specifications

1-2. RD110/140/160PHXEA

Division		Unit	RD110PHXEA	RD140PHXEA	RD160PHXEA
Power Source		V/Hz	1P,230~,50	1P,230~,50	1P,230~,50
Compressor	Model	-	UG5T450FUCEX	UG5T450FUCEX	UG5T450FUCEX
	Type	-	Rotary	Rotary	Rotary
Capacity (AtW Condition#1)	Cooling	W	11,300	14,200	15,500
	Heating		11,000	14,000	16,000
Consumption (AtW Condition#1)	Cooling	W	2,900	3,940	4,700
	Heating		2,420	3,210	3,900
R/Current (AtW Condition#1)	Cooling	A	12.9	17.5	20.8
	Heating		10.7	14.2	17.3
EER (AtW Condition#1)	Cooling	W/W	3.90	3.60	3.30
	Heating	W/W	4.55	4.36	4.10
Max. Indoor Connection (Not including Hydro unit)	ID Number	EA	4 ↓	4 ↓	4 ↓
	Max Capa	kW	11.0 ↓	14.0 ↓	14.0 ↓
	Min Capa	kW	6.0 ↑	6.4 ↑	6.4 ↑
Operating Range (A2W)	Cooling	°C	10 ~ 46	10 ~ 46	10 ~ 46
	Heating	°C	-20 ~ 35	-20 ~ 35	-20 ~ 35
	DHW	°C	-20~43	-20~43	-20~43
Operating Range (A2A)	Cooling	°C	10 ~ 43	10 ~ 43	10 ~ 43
	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24
Refrigerant	R410A	g	3300	3300	3300
Dimension (W*H*D)	NET	mm	932 x 1128 x 375	932 x 1128 x 375	932 x 1128 x 375
	GROSS	mm	1091 x 1286 x 472	1091 x 1286 x 472	1091 x 1286 x 472
Weight	NET	Kg	108	108	108
	GROSS	Kg	116	116	116
Max Current	Trip	A	25	28	30
	Down	A	30	30	30
Connecting Pipe	Liquid	mm	9.52	9.52	9.52
	Gas	mm	15.88	15.88	15.88
Pipe(Max.)	Length	m	70	70	70
	Level	m	30	30	30
Max height between indoor		M	7.5	7.5	7.5
MCCB (field scope)		A	40	40	40

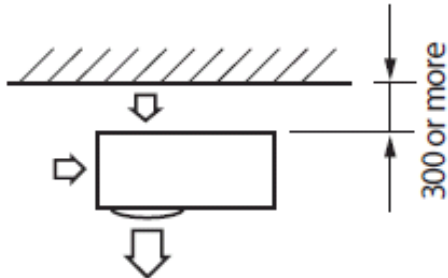
◆ Under the installation of both A2A(Air-To-Air type air conditioner) and A2W(Air-To-Water type hydro unit) at the same time, if our system operates only the heating mode of Air-to-Water Heat Pump, actual performance of our Air-to-Water Heat Pump may be reduced a little as compared with its rated performance. Because the part of the circulating refrigerant amount is bypassed into A2A type indoor units during A2W's normal operation.

2. Space Requirements

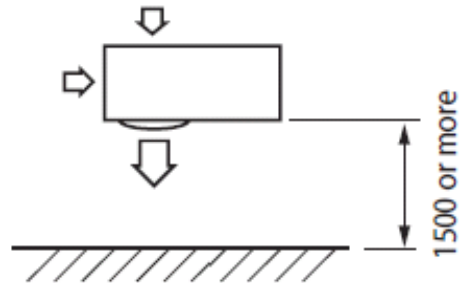
2-1. 1 outdoor unit

(Unit : mm)

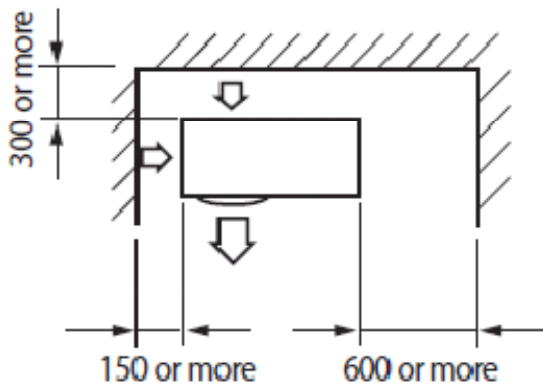
※ When the air outlet is opposite the wall



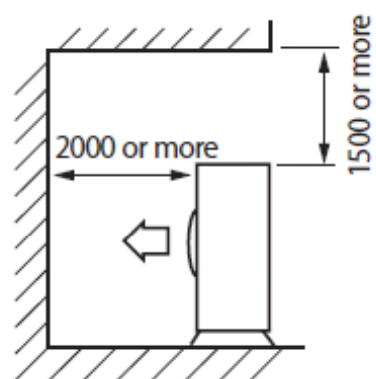
※ When the air outlet is toward the wall



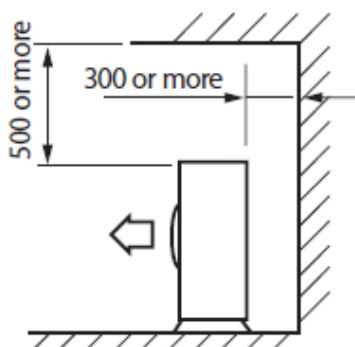
※ When 3 sides of the outdoor unit are blocked by the wall



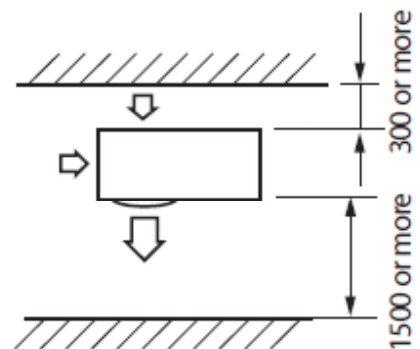
※ The upper part of the outdoor unit and the air outlet is toward the wall



※ The upper part of the outdoor unit and the air outlet is opposite the wall



※ When the walls are blocking front and the rear side of the outdoor unit

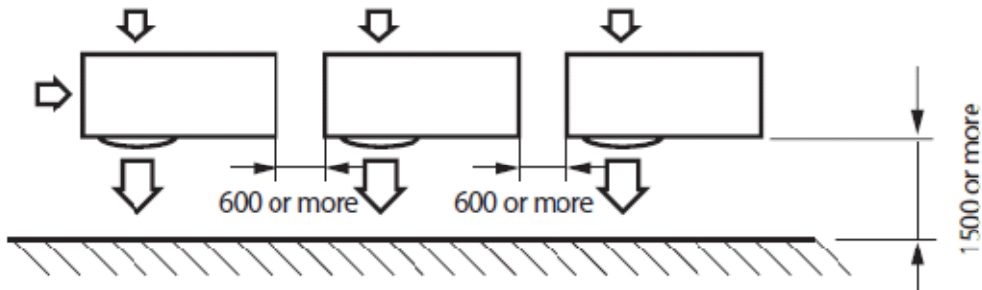


2. Space Requirements

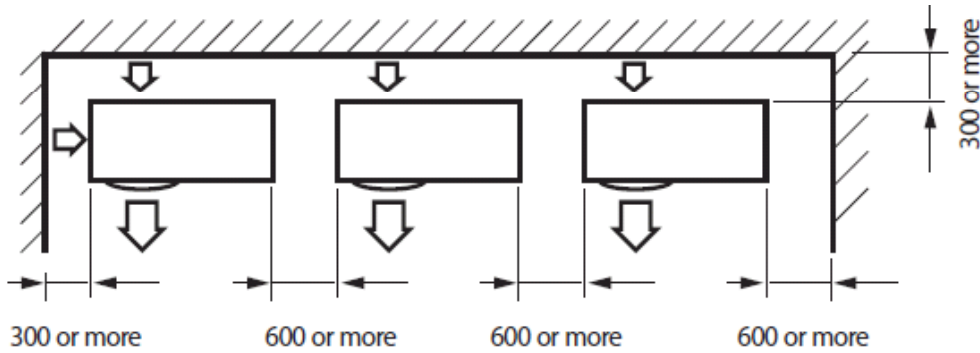
2-2. more than 1 outdoor unit

(Unit : mm)

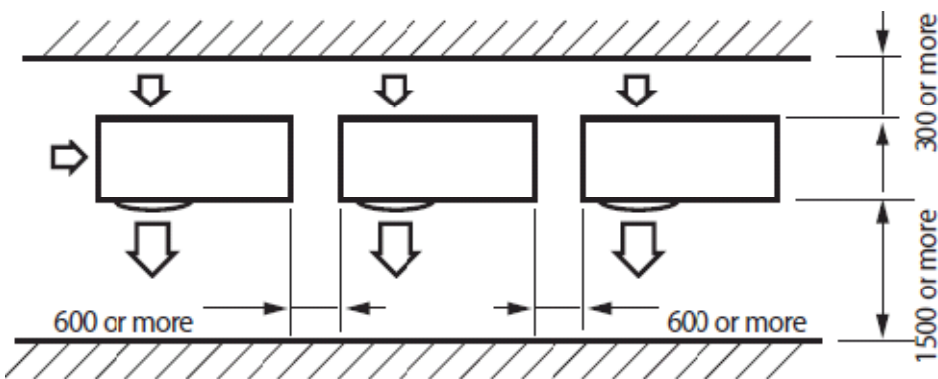
※ When the air outlet is toward the wall



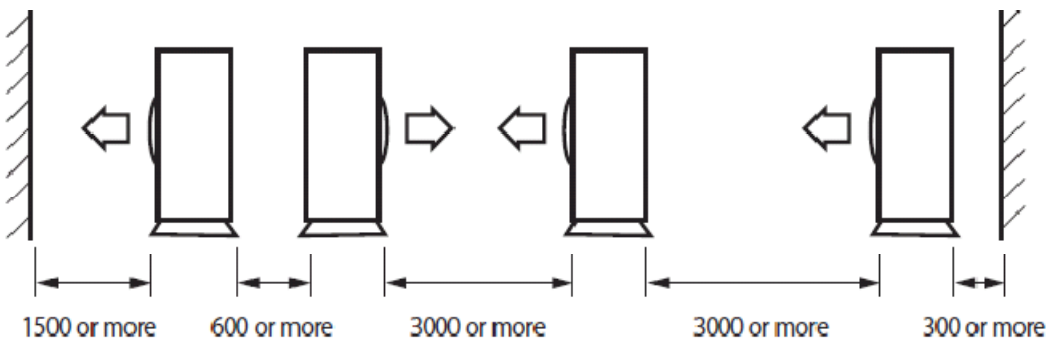
※ When 3 sides of the outdoor unit are blocked by the wall



※ When the walls are blocking front and the rear side of the outdoor units

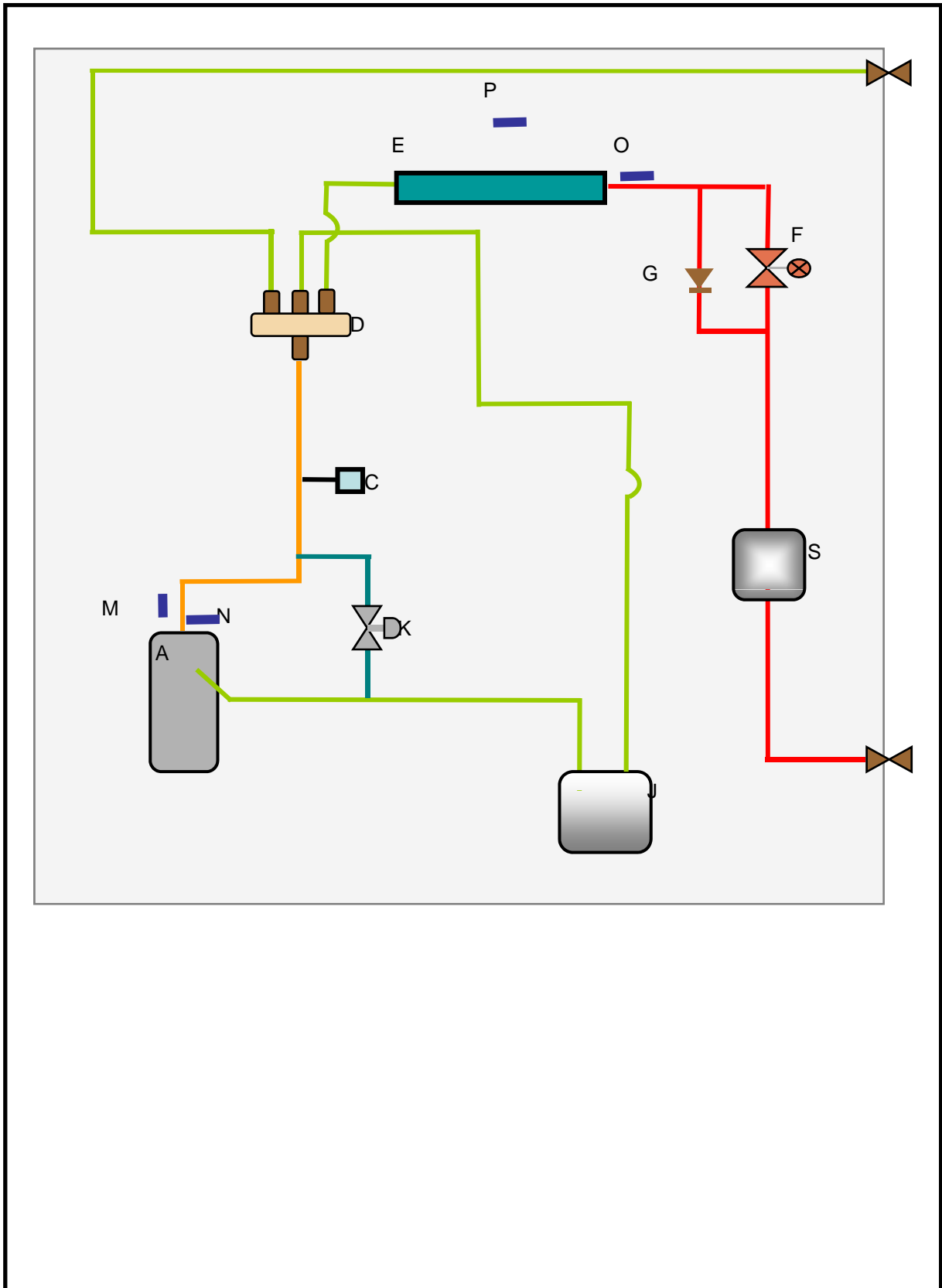


※ When front and rear side of the outdoor unit is toward the wall



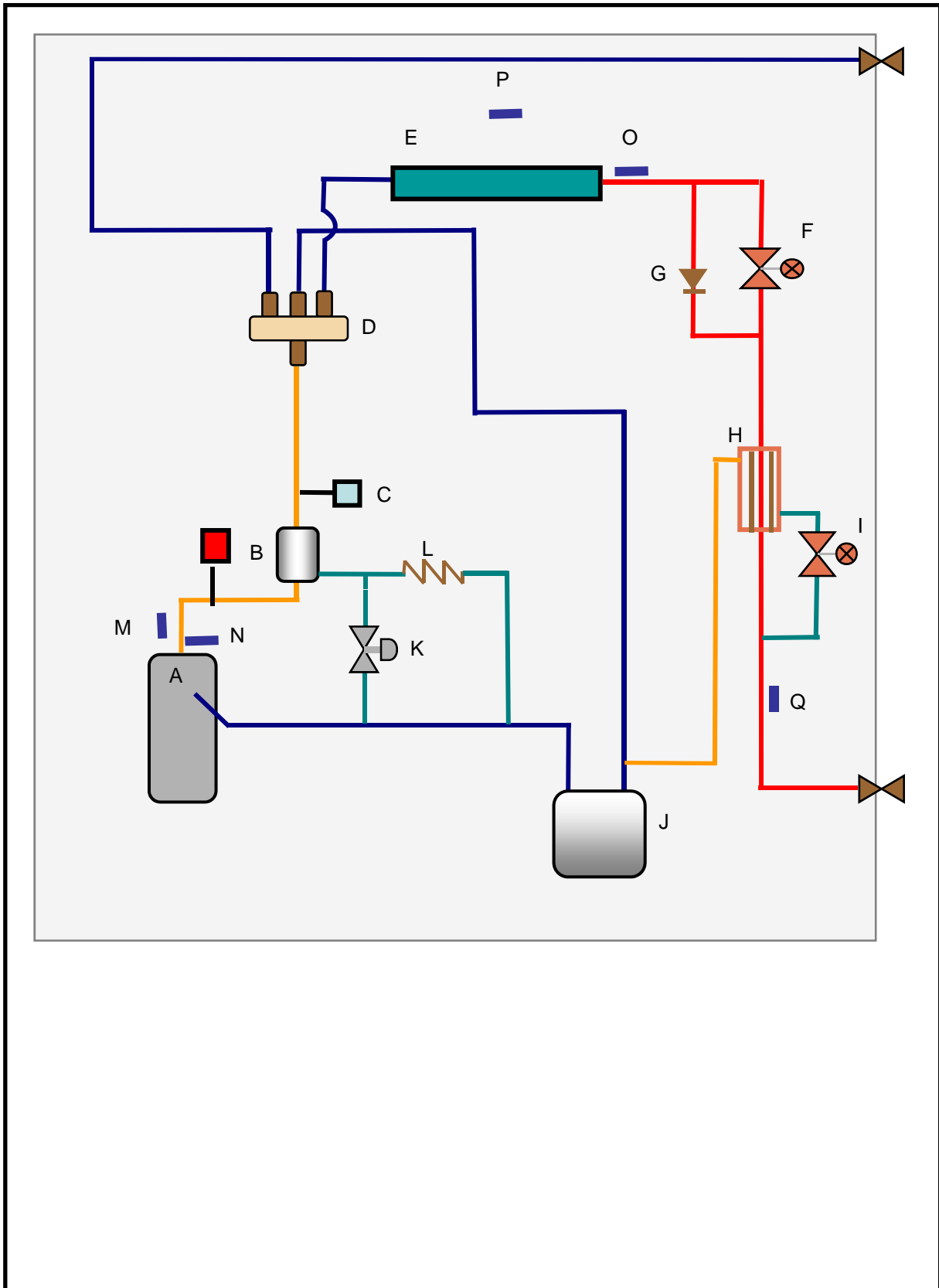
3. Cycle Operation Mode

3-1. RD060/070/080PHXEA



3. Cycle Operation Mode

3-2. RD110/140/160PHXEA

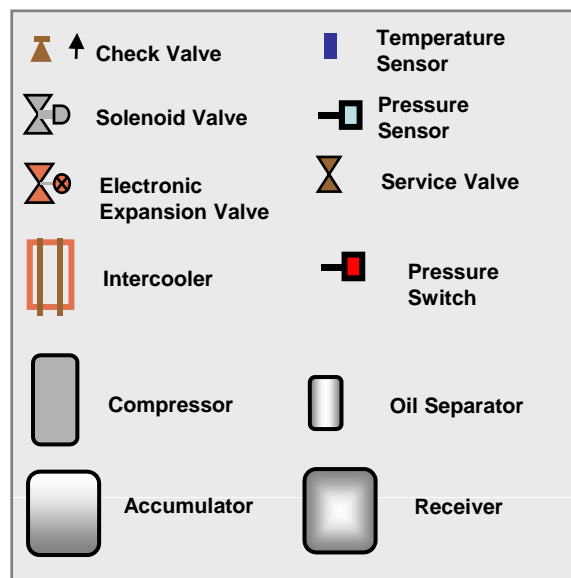


3. Cycle Operation Mode

3-3. Description of cycle function parts

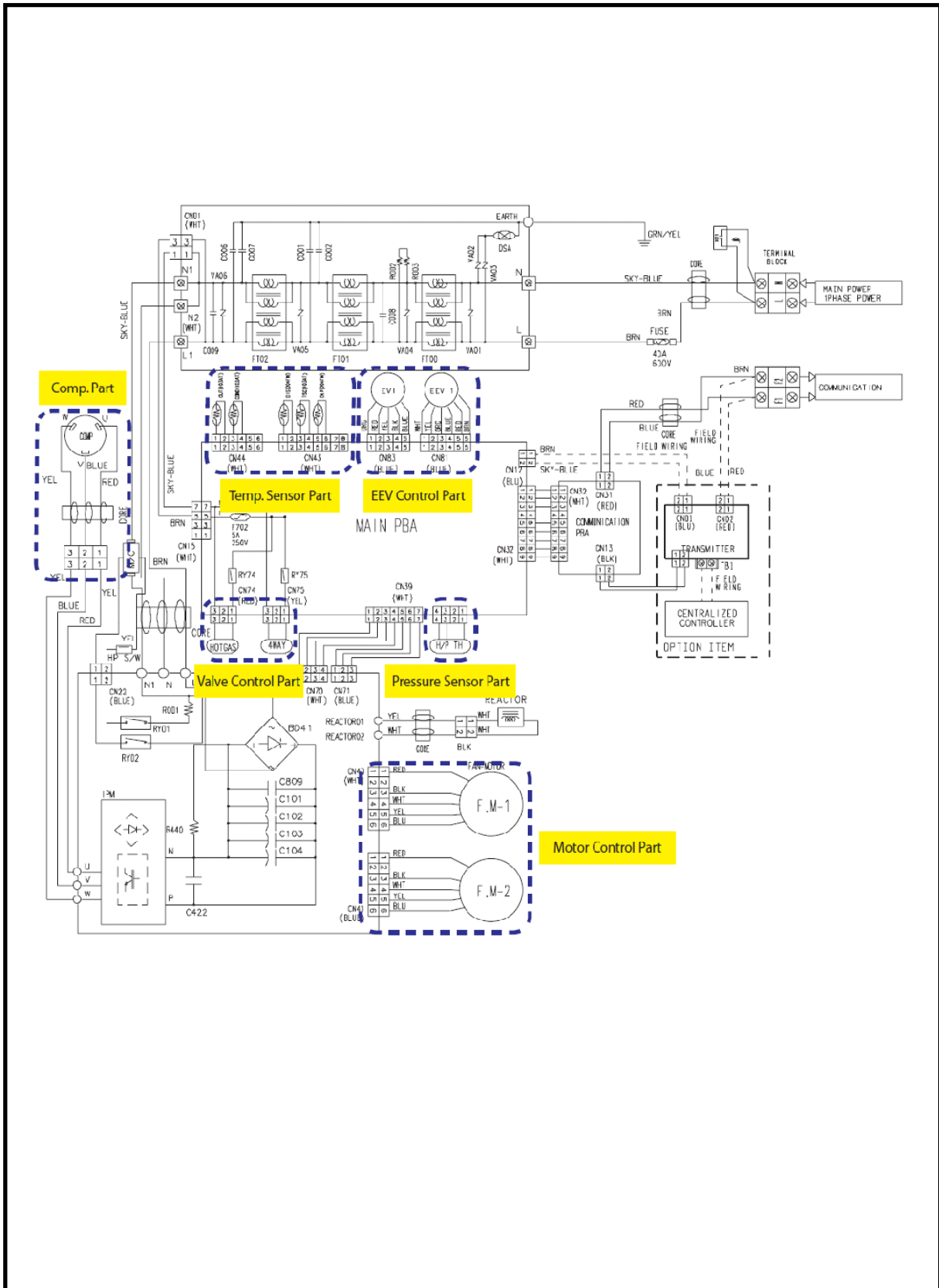
Classification	Description
A	Rotary Comp
B	Oil Separator
C	High Pressure Sensor
D	4 Way Valve (V/V)
E	Outdoor Heat Exchanger
F	Main EEV
G	Main EEV Check Valve
H	Intercooler
I	ESC EEV
J	Accumulator
K	Hot-Gas Bypass Valve
L	Capillary
M	Discharge Temp
N	Top Temp
O	Cond. Out Temp
P	Ambient Temp
Q	Tsc
R	Tso
S	Liquid Bypass Valve

Piping	Diameter
	6.35
	9.52
	12.7
	15.88
	19.05
	22.7
	25.4
	28.7



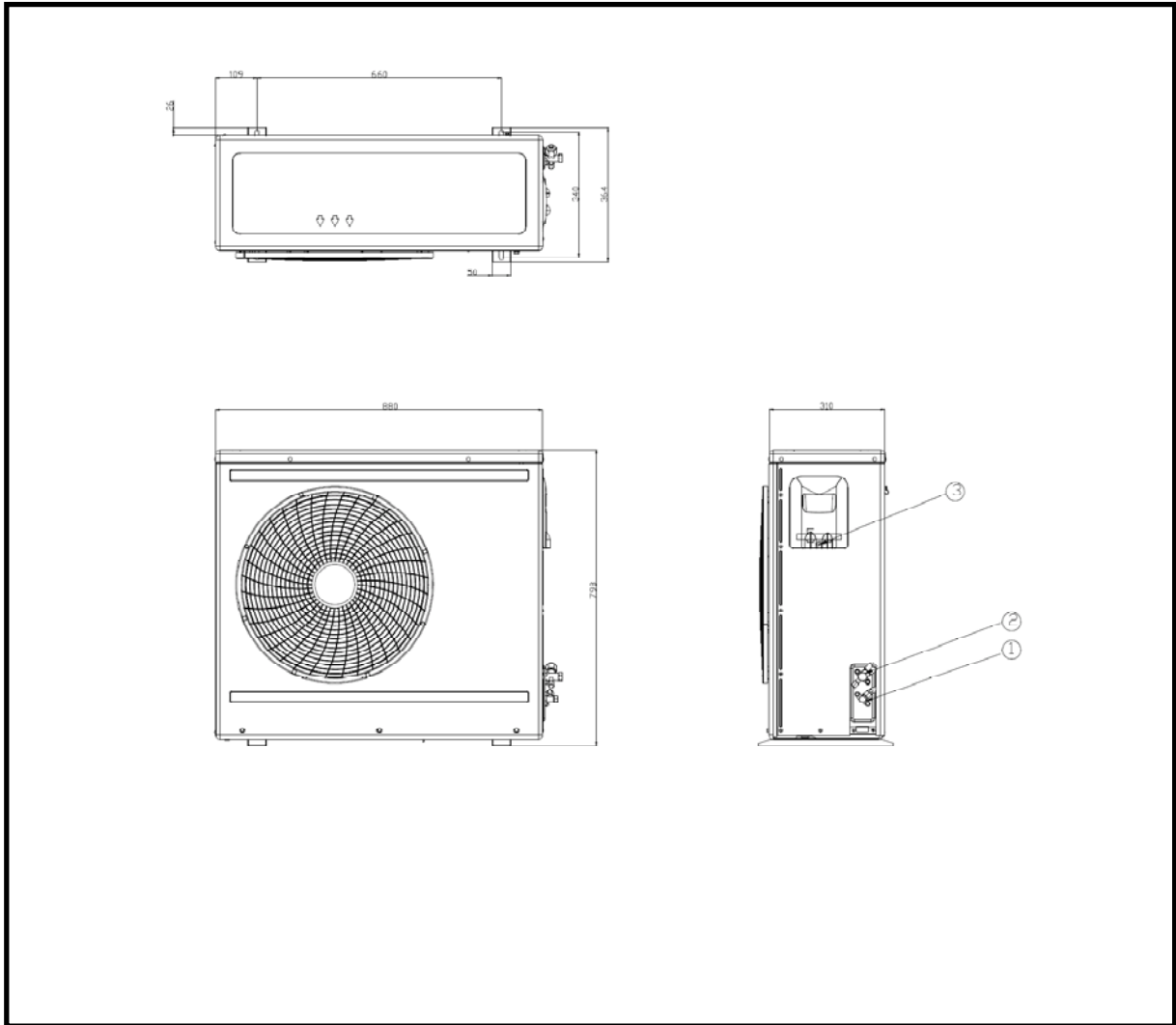
4. Electrical Wiring Diagram

4-2. RD110/140/160PHXEA



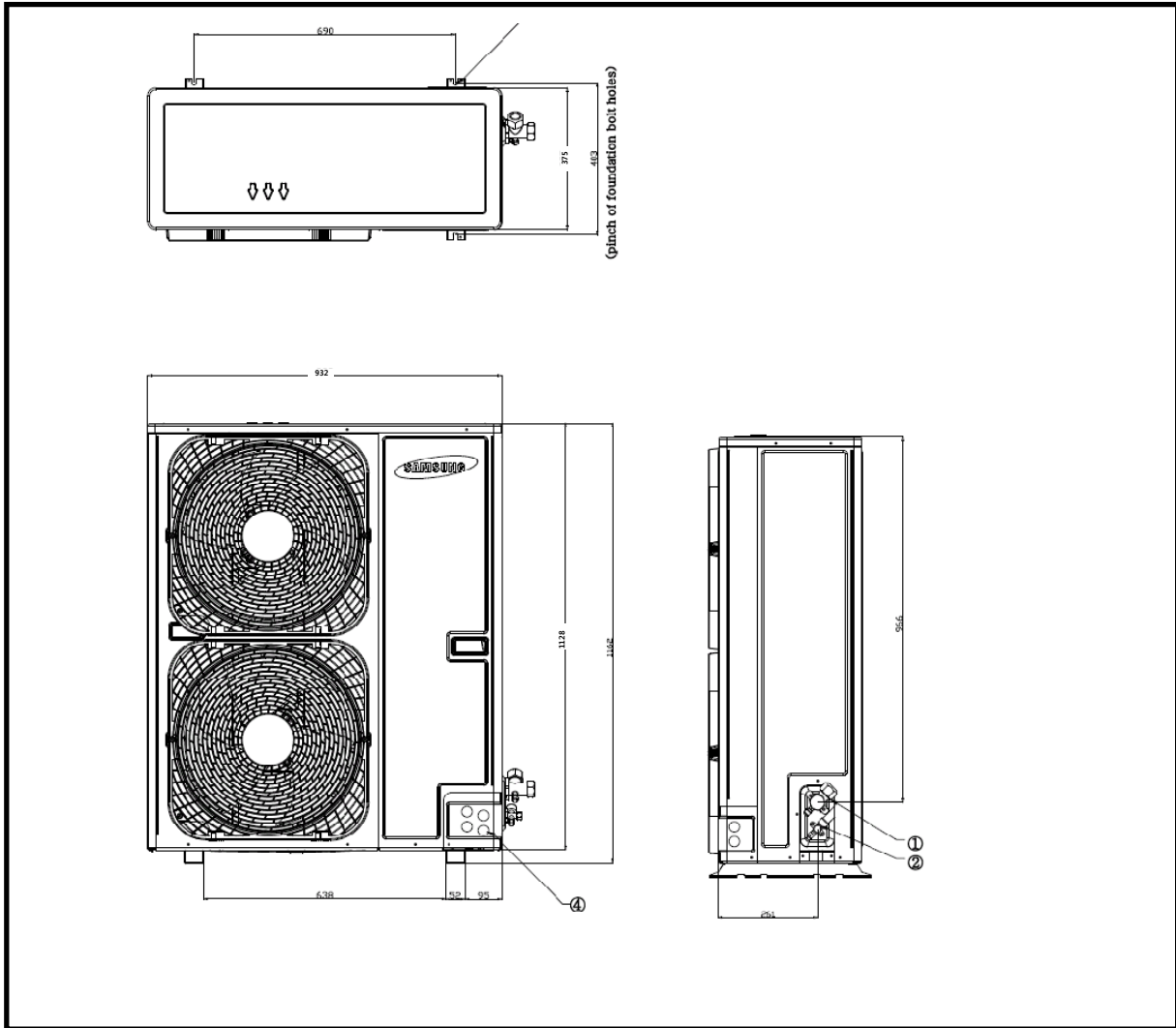
5. Dimensional Drawing

5-1. RD060/070/080PHXEA



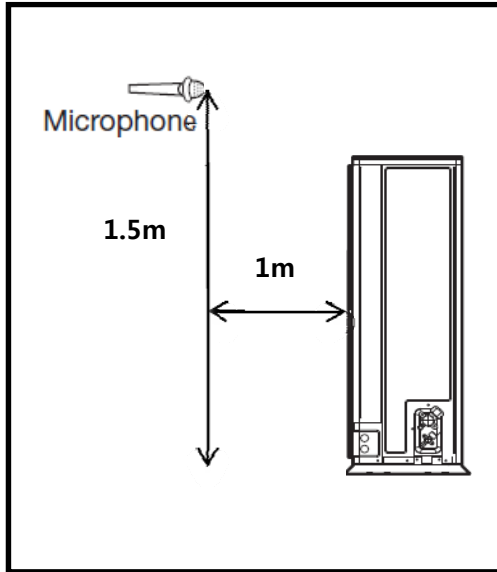
5. Dimensional Drawing

5-2. RD110/140/160PHXEA



6. Sound Pressure Level

6-1. RD060/070/080PHXEA



Unit : dB(A)

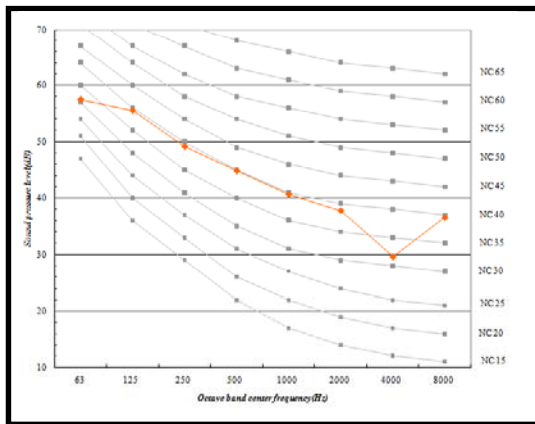
Model	Cooling	Heating
RD060PHXEA	48	48
RD070PHXEA	48	48
RD080PHXEA	50	49

※ Note

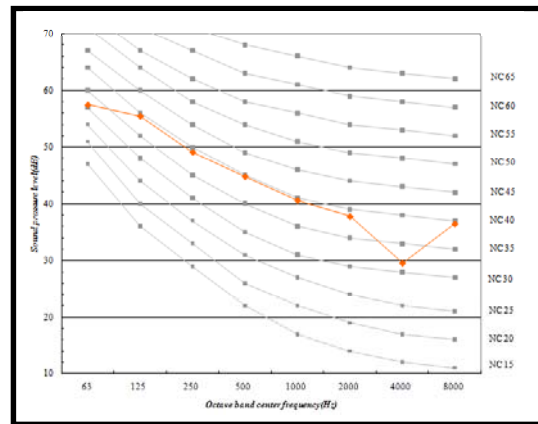
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-6. NC curves (Heating)

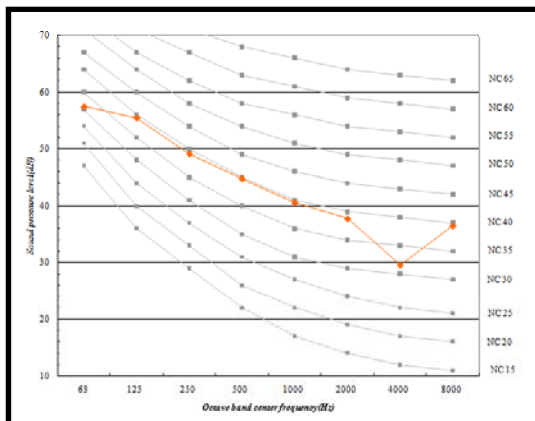
1) RD060PHXEA



2) RD070PHXEA

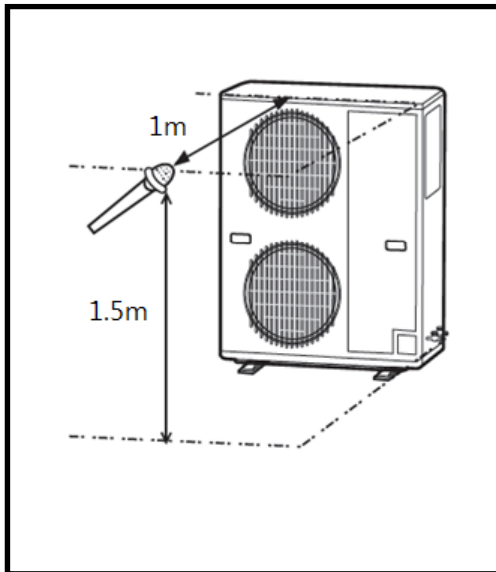


3) RD080PHXEA



6. Sound Pressure Level

6-2. RD110/140/160PHXEA



Unit : dB(A)

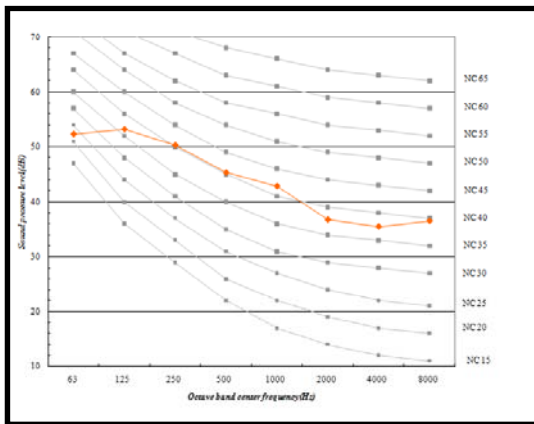
Model	Cooling	Heating
RD110PHXEA	50	49
RD140PHXEA	52	51
RD160PHXEA	54	53

※ Note

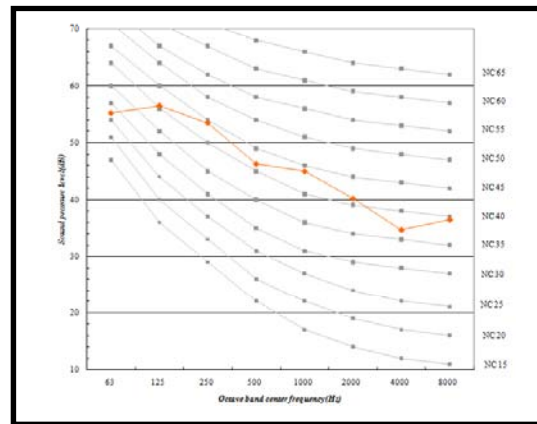
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-6. NC curves (Heating)

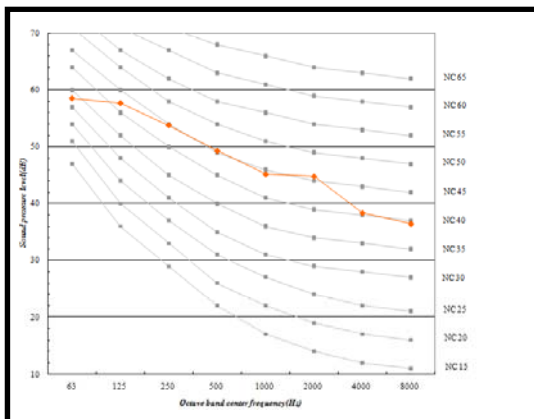
1) RD110PHXEA



2) RD140PHXEA

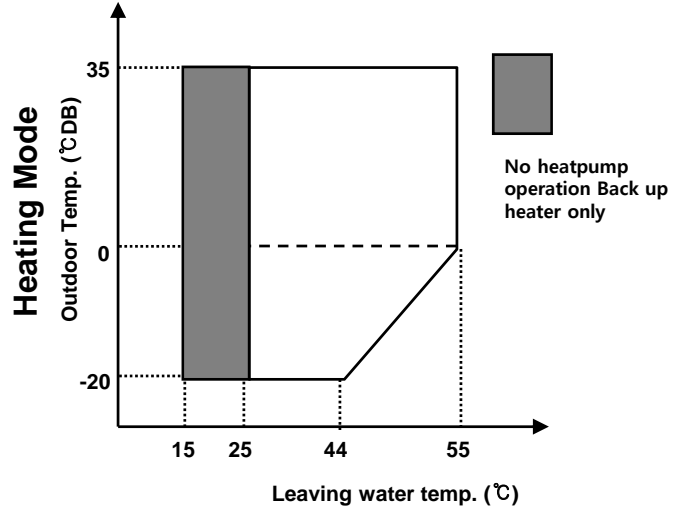
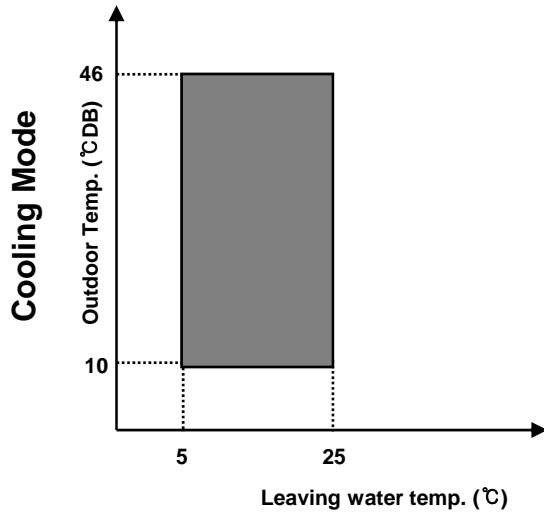


3) RD160PHXEA



7. Recommended Operation Range

7-1. RD060/070/080/110/140/160PHXEA



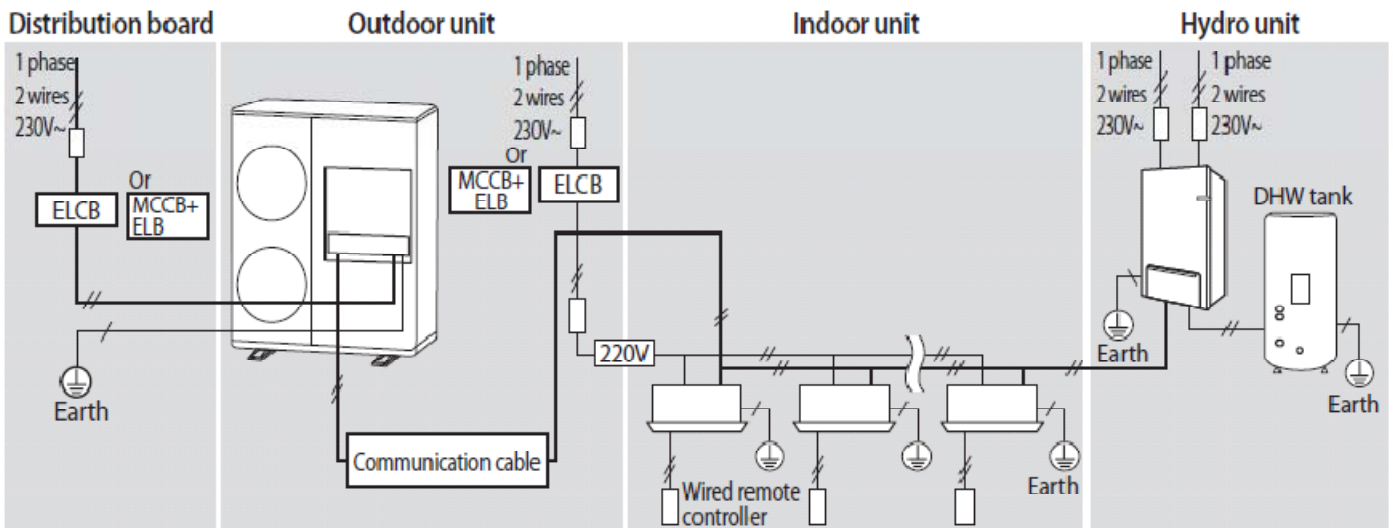
		Water Temp. (°C)			Water Flow rates (LPM)			Air Temp. (°C, DB/WB)		
		Min	Std	Max	Min	Std	Max	Min	Std	Max
Controller	Cooling	5	-	25						
	Heating	15	-	55						
Cooling	Inlet	-	23 (12 ^{*2})	30	16 (12 ^{*1})	Δ 5°C	58 (48 ^{*1})	10/-	35/24	46/28
	Outlet	5	18 (7 ^{*2})	25				-20/-	7/6 (-7/-8 ^{*3})	35/24
Heating	Inlet	10	30 (40 ^{*2})	-						
	Outlet	25(15 ^{*4})	35 (45 ^{*2})	55						

*1 : 11~16kW. (6~8kW)
 *2 : Eurovent Test Condition #2
 *3 : NF PAC low temp. heating
 *4 : Back up heater only

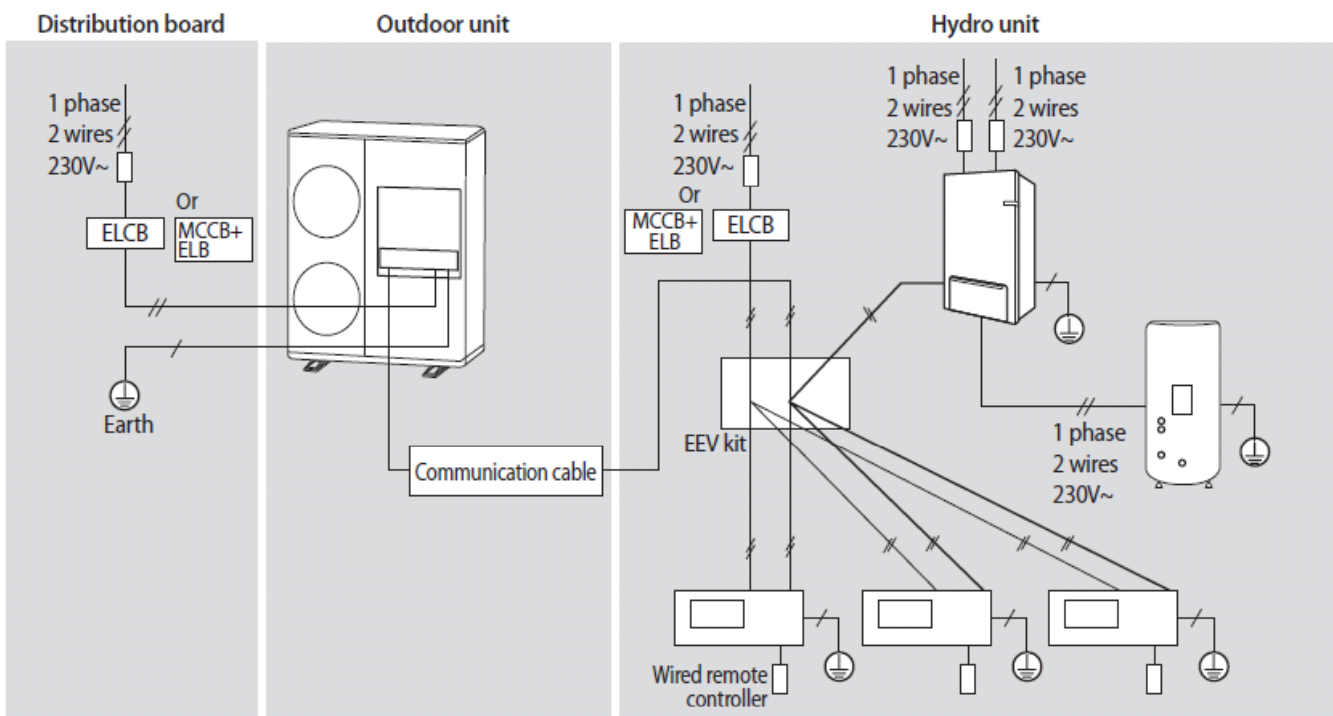
8. Electrical Connections

8-1. Overall System Configuration

1) Connection of the power cable (1 phase 2 wires)



2) Connection of the power cable (1 phase 2 wires using Electronic Expansion Valve kit)



8. Electrical Connections

8-2. Specification of Electronic Wire of the Outdoor Unit

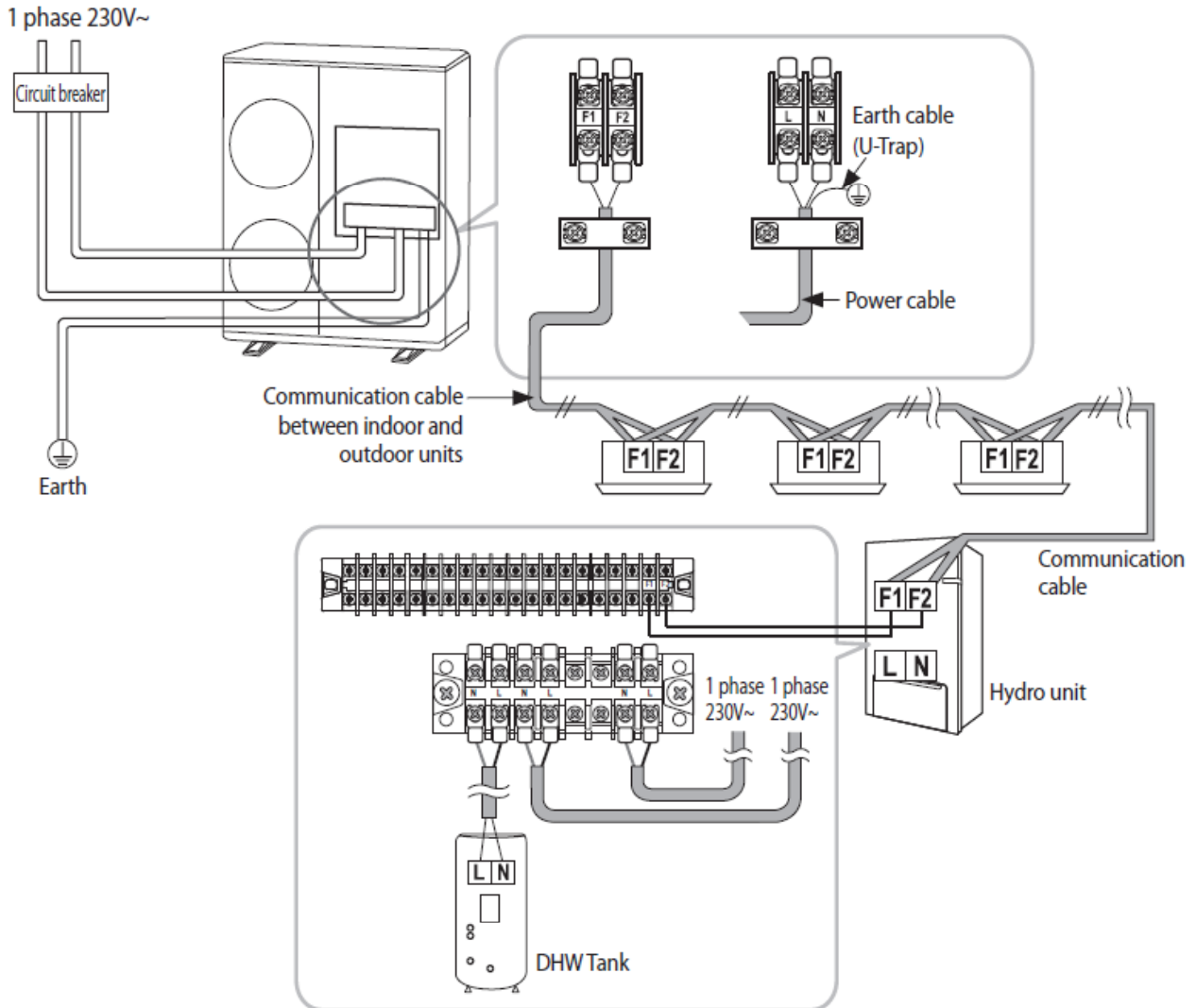
Outdoor unit	Power supply	Max/Min Voltage	Max. Current	Circuit Breaker (A)	Power Cable		Earth cable (mm ²)	Max. length (m)							
					CV	VV									
RD060PHXEA RD070PHXEA RD080PHXEA	230V 50Hz	253/209	16	≥30	3.0	4.0	4.0	1.8							
RD110PHXEA									253/209	25	≥40	4.0	6.0	6.0	18
RD140PHXEA										28					
RD160PHXEA	30														

Power Supply (1 Phase)				Earth Cable (mm ²)	Comm. Cable (mm ²)
Power Supply	Max/Min (V)	Power cable (mm ²)	Max length (m)		
230V / 50Hz	253/209	2.5	Decided by power drop among indoor units	2.5	0.75 ~ 1.25

- ◆ The power cable is not supplied with the Air to Water heat pump.
- ◆ MCCB : Molded Case Circuit Breaker
- ◆ ELB : Earth Leakage Breaker
- ◆ ELCB : Earth Leakage Circuit Breaker

8. Electrical Connections

8-3. 1 phase 2 wires (230V~)

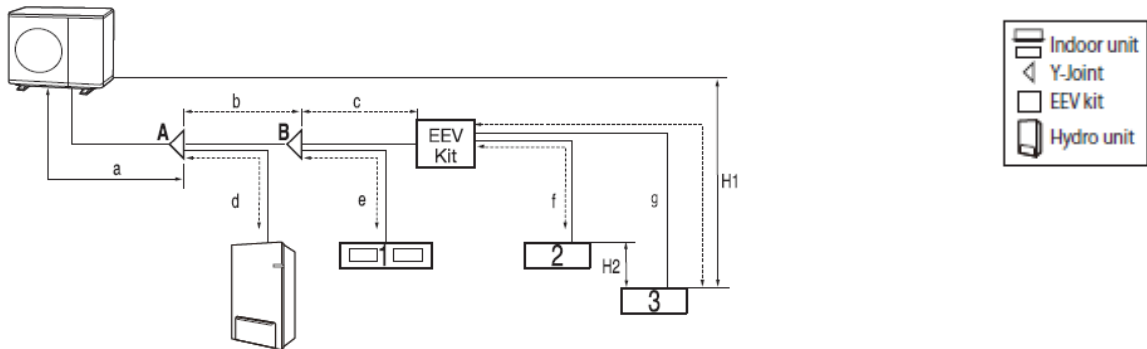


9. Refrigerant Piping Works

9-1. Piping examples

1) RD060/070/080PHXEA

Outdoor unit



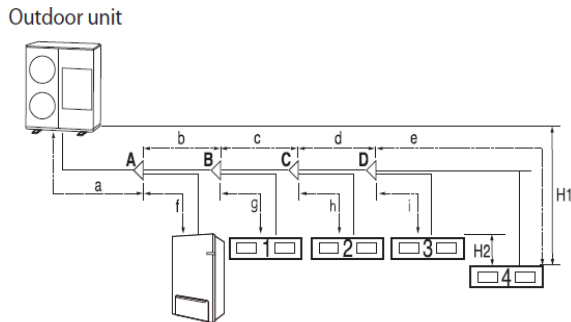
Item				Example	Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Longest piping length	Less than 30m	$a+b+c+g \leq 30m$	-
		Equivalent length	Less than 40m	Y-joint and EEV kit : 0.5m	-
		Total length	Less than 75m	$a+b+c+d+e+f+g \leq 75 m$	$5m \leq \text{Total length} \leq 75m$
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 15m		H1	If outdoor unit is located lower position $H1 \leq 15m$
	Indoor unit ~ Indoor units	Height difference between indoor units	Less than 7.5m	H2	
Maximum allowable length of pipe	First Y-joint ~ Last indoor unit	Actual piping length	Less than 20m	$b+c+d \leq 20 m$ (between first Y-joint and indoor unit) $h \leq 20 m$ (between EEV kit and indoor unit)	-
Additional refrigerant calculation		$R = \text{Basic charge} + \text{additional charge by the piping length}$ Basic charge : Up to 5m when installing A2W only = 2200g When installing A2W and A2A together, add basic additional refrigerant (700g)=2900g			

9. Refrigerant Piping Works

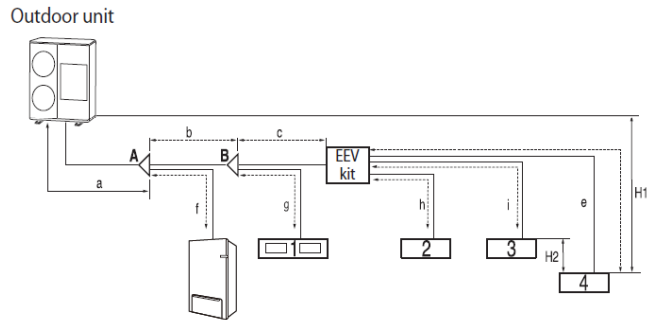
9-1. Piping examples

1) RD110/140/160PHXEA

► Using only Y-joint



► Using EEV Kit



Item			Example		Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Longest piping length	Less than 70m	$a+b+c+d+e \leq 70m$	-
		Equivalent length	Less than 85m	Y-joint and EEV kit : 0.5m	-
		Total length	Less than 200m	$a+b+c+d+e+f+g+h+i \leq 200m$	$10m \leq$ Total length \leq 200m
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 30m		H1	If outdoor unit is located lower position $H1 \leq 25m$
	Indoor unit ~ Indoor units	Height difference between indoor units	Less than 15m	H2	
Maximum allowable length of pipe	First Y-joint ~ Last indoor unit	Actual piping length	Less than 40m	$b+c+d+e \leq 40m$ (between first Y-joint and indoor unit) $h \leq 20m$ (between EEV kit and indoor unit)	-
Additional refrigerant calculation		R=Basic charge + additional charge by the piping length Basic charge : Up to 10m when installing A2W only = 3300g When installing A2W and A2A together, add basic additional refrigerant (700g)=4000g			

9. Refrigerant Piping Works

9-2. Piping Selection

▶ Installing pipes between outdoor unit and first Y-joint

Outdoor unit capacity (kW)	Liquid side (mm)	Gas side (mm)	Gas side size up (mm)
RD060PHXEA	ø9.52	ø15.88	ø19.05
RD070PHXEA			
RD080PHXEA			
RD110PHXEA			
RD140PHXEA			
RD160PHXEA			

[NOTE]

- ▶ Install refrigerant pipe depending on the outdoor unit capacity.
- ▶ Use the copper pipe of semi-hard(1/2H) when installing ø19.05 of the pipe.
If you use Soft(O) pipe, the internal pressure is too low to cause personal injury.
- ▶ When the length of liquid pipe is longer than 70m, step up the size of gas pipe.

Outer diameter(mm)	Minimum thickness(mm)	Material
ø 6.35	0.8	C1220T-O (soft drawn)
ø 9.52	0.8	
ø 12.70	0.8	
ø 15.88	1.0	
ø 19.05	1.0	C1220T-1/2H (hard drawn)
ø 22.23	1.0	

10. Error Code

10-1. RD060/070/080/110/140/160PHXEA

NO	Main 7-seg display	Meaning
1	-	Power off/VDD NG
2	-	Power ON reset(1sec)
3	-	Normal Operation
4	E201	The number of indoor units error
5	E202	Indoor and Outdoor Unit communication error
6	E203	Communication error between outdoor unit Inv and Main micom(1minute)
7	E221	Outdoor temp sensor error(Short/Open)
8	E231	Cond temp sensor error(Short/Open)
9	E246	[Self-diagnosis] Cond sensor detachment
10	E251	Discharge temp sensor error(Short/Open)
11	E261	[Self-diagnosis] Discharge sensor detachment
12	E311	Double pipe sensor error
13	E320	OLP sensor error
14	E404	Over-load prevention control
15	E407	High pressure protection control
16	E416	Discharge over temperature
17	E438	ESC EEV Open
18	E440	Prohibited heating mode OP. [Outdoor temp. over 35°C or Out of inlet water temp. (5°C ~ 55°C)]
19	E441	Prohibited cooling mode OP. [Outdoor temp. under 10°C or Out of inlet water temp. (5°C ~ 55°C)]
20	E458	Fan_1 error
21	E475	Fan_2 error
22	E460	Detection error of misconnected communication cable between indoor and outdoor unit
23	E461	Comp Starting error
24	E462	Over current of total current
25	E463	Over temperature of OLP thermistor
26	E464	IPM Over Current(O.C)
27	E465	Comp limit error
28	E466	DC-Link voltage under/over error
29	E467	Comp rotation error
30	E468	Current sensor error
31	E469	DC-Link voltage sensor error
32	E471	OTP error
33	E472	AC Line Zero Cross Signal out
34	E554	GAS Leak error(Dual/Single)

11. Capacity Tables – A2W

11-1. RD060/070/080PHXEA

1) Heating

	LWC	25		30		35		40		45		50		55	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
RD060PHXEA	-20	4.53	1.82	4.42	2.00	4.31	2.19	4.20	2.37						
	-15	5.59	1.87	5.42	2.08	5.25	2.29	5.08	2.50	4.91	2.71				
	-10	6.65	1.92	6.42	2.15	6.19	2.39	5.96	2.62	5.66	2.78	5.35	2.93	5.05	3.09
	-7	7.49	2.11	7.27	2.35	7.05	2.59	6.83	2.83	6.53	2.98	6.22	3.12	5.92	3.27
	-2	7.82	2.14	7.64	2.36	7.47	2.58	7.29	2.80	7.02	2.91	6.75	3.02	6.48	3.14
	2	5.56	1.12	5.45	1.20	5.33	1.28	5.17	1.40	5.01	1.51	3.96	1.90	2.90	2.28
	7	6.16	1.12	6.08	1.21	6.00	1.30	5.65	1.43	5.30	1.56	4.47	1.77	3.63	1.98
	10	6.52	1.12	6.46	1.22	6.40	1.31	5.94	1.45	5.47	1.59	4.77	1.70	4.07	1.80
	15	7.33	1.11	7.25	1.19	7.17	1.27	6.76	1.42	6.36	1.58	5.75	1.73	5.15	1.89
	20	8.13	1.10	8.03	1.16	7.93	1.22	7.59	1.40	7.25	1.57	6.74	1.77	6.22	1.97
RD070PHXEA	LWC	25		30		35		40		45		50		55	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
	-20	5.56	2.25	5.43	2.48	5.30	2.72	5.17	2.95						
	-15	6.77	2.30	6.49	2.53	6.20	2.77	5.92	3.00	5.63	3.24				
	-10	7.98	2.35	7.54	2.58	7.10	2.82	6.66	3.05	6.24	3.30	5.81	3.54	5.39	3.79
	-7	9.01	2.43	8.48	2.67	7.96	2.92	7.43	3.16	7.07	3.40	6.71	3.64	6.35	3.88
	-2	9.37	2.24	8.79	2.47	8.21	2.70	7.62	2.93	7.40	3.13	7.18	3.33	6.96	3.53
	2	7.21	1.35	6.71	1.47	6.40	1.59	6.08	1.64	5.97	1.68	4.80	2.06	3.62	2.45
	7	7.38	1.38	7.19	1.49	7.00	1.59	6.60	1.74	6.20	1.88	5.47	2.16	4.74	2.43
	10	7.48	1.40	7.30	1.50	7.12	1.59	6.73	1.80	6.34	2.00	5.88	2.21	5.41	2.42
15	8.64	1.40	8.48	1.48	8.33	1.57	7.99	1.78	7.65	1.99	7.17	2.23	6.69	2.47	
20	9.80	1.39	9.67	1.47	9.53	1.55	9.25	1.76	8.96	1.97	8.46	2.24	7.96	2.51	
RD080PHXEA	LWC	25		30		35		40		45		50		55	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
	-20	6.90	2.76	6.35	3.00	5.80	3.24	5.25	3.48						
	-15	8.11	3.09	7.51	3.27	6.91	3.45	6.31	3.63	5.71	3.81				
	-10	9.31	3.41	8.66	3.53	8.01	3.65	7.36	3.77	6.72	3.89	6.07	4.01	5.43	4.13
	-7	10.52	3.51	9.92	3.62	9.22	3.74	8.52	3.85	7.82	3.95	7.12	4.05	6.42	4.15
	-2	11.02	3.22	10.58	3.32	9.89	3.41	9.20	3.51	8.50	3.56	7.81	3.62	7.11	3.68
	2	8.00	1.57	7.35	1.76	6.70	1.95	6.63	2.01	6.57	2.07	5.88	2.40	5.19	2.74
	7	8.65	1.60	8.33	1.77	8.00	1.93	7.60	2.09	7.20	2.25	6.69	2.54	6.17	2.82
	10	9.04	1.62	8.91	1.77	8.78	1.92	8.18	2.14	7.58	2.36	7.17	2.62	6.76	2.87
15	10.28	1.61	10.11	1.77	9.94	1.93	9.49	2.16	9.05	2.40	8.63	2.67	8.22	2.94	
20	11.51	1.60	11.30	1.77	11.09	1.93	10.80	2.19	10.51	2.44	10.10	2.72	9.68	3.00	

[Symbols]

PI : Power input (kW)

LWT : Leaving Water Temperature (°C)

Tamb : Ambient temperature (°C)

[Conditions]

Heating capacity at maximum operating frequency, measured according Eurovent 6/C/003-2006 (kW)

1. Heating capacity

Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for heated water range $\Delta t = 3\sim 8^{\circ}\text{C}$

2. Power input

Power input is total of indoor and outdoor unit, according to Eurovent rating standard 6/C/003-2006.

11. Capacity Tables – A2W

11-1. RD060/070/080PHXEA

2) Cooling

RD060PHXEA	LWE	7		10		13		15		18		25	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
10		6.43	2.20	7.26	2.20	8.09	2.20	8.65	2.20	9.48	2.20	10.46	2.19
20		6.37	2.21	7.09	2.21	7.82	2.21	8.30	2.21	9.02	2.21	10.23	2.18
30		6.04	2.34	6.72	2.38	7.40	2.42	7.85	2.45	8.53	2.48	9.43	2.50
35		5.88	2.41	6.54	2.47	7.19	2.52	7.63	2.56	8.29	2.62	9.03	2.66
43		5.62	2.52	6.24	2.60	6.86	2.69	7.28	2.75	7.90	2.84	8.34	2.92
RD070PHXEA	LWE	7		10		13		15		18		25	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
10		7.41	2.58	8.24	2.61	9.06	2.64	9.61	2.67	10.44	2.70	12.02	2.65
20		7.44	2.60	8.19	2.62	8.95	2.63	9.45	2.64	10.20	2.66	11.23	2.64
30		6.81	2.83	7.52	2.88	8.22	2.94	8.69	2.98	9.39	3.04	10.23	3.07
35		6.50	2.94	7.18	3.02	7.86	3.10	8.31	3.15	8.99	3.23	9.73	3.29
43		6.00	3.12	6.64	3.23	7.28	3.35	7.70	3.42	8.34	3.53	8.93	3.64
RD080PHXEA	LWE	7		10		13		15		18		25	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
10		8.43	3.01	9.28	3.05	10.12	3.08	10.68	3.10	11.53	3.14	12.94	3.14
20		8.16	3.04	9.01	3.08	9.87	3.11	10.44	3.13	11.29	3.17	12.47	3.17
30		7.59	3.33	8.26	3.40	8.94	3.48	9.39	3.53	10.06	3.61	11.05	3.68
35		7.30	3.47	7.89	3.57	8.47	3.67	8.86	3.73	9.45	3.83	10.34	3.93
43		6.84	3.70	7.29	3.83	7.73	3.96	8.02	4.05	8.47	4.18	9.20	4.34

[Symbols]

PI : Power input (kW)

LWT : Leaving Water Temperature (°C)

Tamb : Ambient temperature (°C)

[Conditions]

Heating capacity at maximum operating frequency, measured according Eurovent 6/C/003-2006 (kW)

1. Heating capacity

Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for heated water range $\Delta t = 3\sim 8^{\circ}\text{C}$

2. Power input

Power input is total of indoor and outdoor unit, according to Eurovent rating standard 6/C/003-2006.

11. Capacity Tables – A2W

11-2. RD110/140/160PHXEA

1) Heating

	LWC	25		30		35		40		45		50		55	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
RD110PHXEA	-20	7.85	3.04	7.49	3.28	7.12	3.52	6.15	3.61						
	-15	9.27	3.17	9.02	3.46	8.77	3.75	8.07	3.87	7.55	4.58				
	-10	10.16	3.28	9.92	3.56	9.78	3.85	9.64	4.13	9.50	4.42	9.36	4.70	8.72	4.99
	-7	11.35	3.36	10.96	3.63	10.62	3.91	10.27	4.18	9.92	4.45	9.57	4.73	9.03	5.00
	-2	11.48	3.01	10.93	3.23	10.34	3.45	9.74	3.67	9.15	3.89	8.55	4.11	8.21	4.33
	2	10.64	1.80	10.28	2.06	9.92	2.32	9.56	2.58	9.20	2.84	8.84	3.10	8.48	3.37
	7	12.00	1.98	11.50	2.20	11.00	2.42	10.50	2.64	10.00	2.86	9.50	3.08	9.00	3.30
	10	12.66	2.17	12.07	2.34	11.48	2.52	10.88	2.69	10.29	2.87	9.70	3.05	9.11	3.22
	15	14.42	2.15	13.71	2.33	12.99	2.52	12.27	2.70	11.56	2.89	10.84	3.07	10.12	3.25
	20	16.19	2.13	15.35	2.32	14.50	2.52	13.66	2.71	12.82	2.90	11.97	3.09	11.13	3.29
RD140PHXEA	-20	9.99	3.90	9.53	4.17	9.07	4.47	7.19	4.60						
	-15	11.58	4.52	11.27	4.81	10.97	5.02	9.71	5.06	9.00	5.43				
	-10	13.88	4.71	13.11	4.92	12.34	5.12	11.57	5.32	10.80	5.52	10.03	5.72	9.26	5.93
	-7	15.31	4.86	14.31	5.02	13.31	5.18	12.32	5.34	11.32	5.49	10.85	5.65	10.38	5.80
	-2	15.33	4.43	14.14	4.50	12.95	4.58	11.76	4.65	10.57	4.72	10.49	4.79	10.32	4.86
	2	13.38	2.33	13.00	2.70	12.62	3.08	12.25	3.45	11.87	3.83	11.49	4.20	11.11	4.58
	7	15.10	2.57	14.55	2.89	14.00	3.21	13.45	3.53	12.90	3.85	12.35	4.17	11.80	4.49
	10	15.93	2.82	15.27	3.08	14.60	3.34	13.94	3.60	13.28	3.86	12.62	4.12	11.96	4.39
	15	18.16	2.79	17.34	3.07	16.53	3.34	15.72	3.61	14.91	3.88	14.09	4.16	13.28	4.43
	20	20.38	2.77	19.42	3.05	18.46	3.34	17.49	3.62	16.53	3.91	15.57	4.19	14.61	4.47
RD160PHXEA	-20	10.73	4.82	10.00	5.21	9.26	5.60	8.57	6.25						
	-15	12.87	5.30	12.16	5.41	11.45	5.51	10.79	5.68	9.61	5.85				
	-10	15.31	5.38	14.31	5.49	13.30	5.61	12.29	5.72	11.29	5.83	10.31	5.92	9.32	6.01
	-7	16.42	5.41	15.29	5.51	13.73	5.61	12.78	5.71	11.84	5.81	11.20	5.87	10.57	5.92
	-2	16.08	4.81	14.90	4.88	13.71	4.95	12.57	5.01	11.62	5.08	11.37	5.08	11.12	5.09
	2	15.05	2.89	14.74	3.31	14.43	3.74	13.62	4.17	12.80	4.41	12.04	4.83	11.67	5.06
	7	17.00	3.18	16.50	3.54	16.00	3.90	15.50	4.26	14.50	4.53	13.78	4.91	13.25	5.19
	10	17.94	3.48	17.32	3.77	16.69	4.06	16.07	4.35	15.44	4.64	14.82	4.95	14.19	5.27
	15	20.45	3.45	19.67	3.75	18.89	4.06	18.11	4.36	17.33	4.66	16.55	5.03	15.77	5.39
	20	22.97	3.42	22.03	3.74	21.09	4.05	20.16	4.37	19.22	4.69	18.29	5.10	17.35	5.52

[Symbols]

PI : Power input (kW)

LWT : Leaving Water Temperature (°C)

Tamb : Ambient temperature (°C)

[Conditions]

Heating capacity at maximum operating frequency, measured according Eurovent 6/C/003-2006 (kW)

1. Heating capacity

Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for heated water range $\Delta t = 3\sim 8^{\circ}\text{C}$

2. Power input

Power input is total of indoor and outdoor unit, according to Eurovent rating standard 6/C/003-2006.

11. Capacity Tables – A2W

11-2. RD110/140/160PHXEA

2) Cooling

	LWE	7		10		13		15		18		25	
	Tamb	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)	CC(kW)	PI(kW)
RD110PHXEA	10	10.96	3.04	12.06	3.02	13.29	2.99	14.18	2.97	15.62	2.95	19.49	2.82
	20	11.43	3.01	12.44	2.99	13.57	2.98	14.38	2.97	15.69	2.96	19.21	2.82
	30	11.15	3.09	12.25	3.07	13.33	3.04	14.05	3.03	15.12	3.01	17.53	3.23
	35	10.20	3.24	10.94	3.31	11.82	3.37	12.48	3.41	13.56	3.48	16.64	3.60
	43	9.07	3.81	9.81	3.85	10.63	3.90	11.22	3.93	12.17	3.98	14.17	4.06
RD140PHXEA	10	13.79	3.94	15.25	3.95	16.83	3.95	17.96	3.95	19.82	3.91	24.48	3.77
	20	13.91	3.91	15.34	3.92	16.87	3.93	17.95	3.94	19.70	3.91	23.96	3.78
	30	13.20	4.01	14.67	4.05	16.13	4.08	17.09	4.11	18.57	4.11	21.80	4.34
	35	12.24	4.22	13.18	4.37	14.30	4.52	15.15	4.62	17.04	4.73	20.64	4.69
	43	11.40	4.90	12.28	5.01	13.25	5.12	13.95	5.19	15.11	5.26	18.11	5.60
RD160PHXEA	10	15.13	4.54	16.75	4.57	18.49	4.59	19.74	4.60	21.69	4.62	26.82	4.41
	20	15.08	4.51	16.71	4.54	18.43	4.56	19.63	4.58	21.49	4.60	26.19	4.43
	30	14.16	4.62	15.81	4.70	17.45	4.78	18.53	4.84	20.12	4.92	23.80	5.08
	35	12.84	4.85	14.23	5.09	15.47	5.30	16.41	5.43	18.60	5.64	22.52	5.42
	43	12.49	5.63	13.44	5.78	14.48	5.94	15.23	6.04	16.43	6.19	20.43	6.44

[Symbols]

PI : Power input (kW)

LWT : Leaving Water Temperature (°C)

Tamb : Ambient temperature (°C)

[Conditions]

Heating capacity at maximum operating frequency, measured according Eurovent 6/C/003-2006 (kW)

1. Heating capacity

Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for heated water range $\Delta t = 3\sim 8^{\circ}\text{C}$

2. Power input

Power input is total of indoor and outdoor unit, according to Eurovent rating standard 6/C/003-2006.

11. Capacity Tables – A2A

11-1. RD060PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (DB,°C)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-20	-20	5.8	2.5	5.7	2.6	5.6	2.7	5.7	2.7	5.7	2.7	5.7	2.8
	-19	-19	6.0	2.6	6.0	2.6	5.8	2.7	5.9	2.7	5.9	2.8	5.9	2.8
	-17	-17	6.3	2.6	6.3	2.7	6.1	2.8	6.3	2.8	6.3	2.8	6.3	2.9
	-15	-15	6.7	2.8	6.7	2.8	6.5	2.9	6.6	2.9	6.6	3.0	6.3	2.8
	-13	-13	7.0	2.8	7.0	2.9	6.8	2.9	7.0	3.0	6.7	2.8	6.3	2.6
	-11	-11	7.4	2.9	7.4	2.9	7.0	2.9	7.0	2.8	6.7	2.6	6.3	2.4
	-10	-10	7.5	2.8	7.5	2.8	7.0	2.7	7.0	2.6	6.7	2.5	6.3	2.3
	-9	-9	7.7	2.8	7.6	2.8	7.0	2.6	7.0	2.5	6.7	2.4	6.3	2.2
	-7	-8	8.0	2.8	7.6	2.7	7.0	2.5	7.0	2.4	6.7	2.3	6.3	2.1
	-5	-6	8.1	2.8	7.6	2.6	7.0	2.4	7.0	2.3	6.7	2.2	6.3	2.0
	-3	-4	8.1	2.5	7.6	2.3	7.0	2.2	7.0	2.1	6.7	2.0	6.3	1.8
	0	-1	8.1	2.3	7.6	2.2	7.0	2.0	7.0	1.9	6.7	1.8	6.3	1.7
	3	2	8.1	2.2	7.6	2.0	7.0	1.9	7.0	1.8	6.7	1.7	6.3	1.6
	5	4	8.1	2.1	7.6	1.9	7.0	1.8	7.0	1.7	6.7	1.7	6.3	1.5
	7	6	8.0	2.0	7.5	1.8	7.0	1.7	6.9	1.6	6.6	1.6	6.2	1.5
	9	8	8.3	1.9	7.8	1.8	7.3	1.6	7.1	1.6	6.9	1.5	6.4	1.4
11	10	8.3	1.8	7.8	1.7	7.3	1.6	7.1	1.5	6.9	1.5	6.4	1.3	
13	12	8.3	1.7	7.8	1.6	7.3	1.5	7.1	1.5	6.9	1.4	6.4	1.3	
15	14	8.3	1.7	7.8	1.6	7.3	1.5	7.1	1.4	6.9	1.4	6.4	1.3	
90%	-20	-20	5.3	2.6	5.3	2.7	5.3	2.8	5.3	2.8	5.3	2.8	5.2	2.8
	-19	-19	5.5	2.7	5.5	2.7	5.5	2.8	5.5	2.8	5.5	2.9	5.2	2.7
	-17	-17	5.8	2.7	5.8	2.8	5.8	2.9	5.8	2.9	5.6	2.8	5.2	2.5
	-15	-15	6.1	2.9	6.1	2.9	6.0	2.9	5.8	2.8	5.6	2.6	5.2	2.4
	-13	-13	6.5	2.9	6.4	2.9	6.0	2.7	5.8	2.6	5.6	2.5	5.2	2.3
	-11	-11	6.7	2.9	6.4	2.7	6.0	2.5	5.8	2.4	5.6	2.3	5.2	2.1
	-10	-10	6.7	2.7	6.4	2.6	6.0	2.4	5.8	2.3	5.6	2.2	5.2	2.0
	-9	-9	6.7	2.7	6.4	2.5	6.0	2.3	5.8	2.2	5.6	2.1	5.2	1.9
	-7	-8	6.7	2.6	6.4	2.4	6.0	2.2	5.8	2.1	5.6	2.0	5.2	1.9
	-5	-6	6.7	2.4	6.4	2.3	6.0	2.1	5.8	2.0	5.6	1.9	5.2	1.8
	-3	-4	6.7	2.2	6.4	2.0	6.0	1.9	5.8	1.8	5.6	1.7	5.2	1.6
	0	-1	6.7	2.0	6.4	1.9	6.0	1.8	5.8	1.7	5.6	1.6	5.2	1.5
	3	2	6.7	1.9	6.4	1.8	6.0	1.6	5.8	1.6	5.6	1.5	5.2	1.4
	5	4	6.7	1.8	6.4	1.7	6.0	1.6	5.8	1.5	5.6	1.5	5.2	1.4
	7	6	7.2	1.7	6.8	1.6	6.4	1.5	6.2	1.5	6.0	1.4	5.6	1.3
	9	8	7.3	1.7	6.9	1.5	6.5	1.4	6.3	1.4	6.0	1.3	5.6	1.2
11	10	7.3	1.6	6.9	1.5	6.5	1.4	6.3	1.3	6.0	1.3	5.6	1.2	
13	12	7.3	1.5	6.9	1.4	6.5	1.3	6.3	1.3	6.0	1.2	5.6	1.2	
15	14	7.3	1.5	6.9	1.4	6.5	1.3	6.3	1.3	6.0	1.2	5.6	1.1	
80%	-20	-20	5.3	2.8	5.3	2.8	5.3	2.9	5.1	2.8	5.0	2.7	4.6	2.4
	-19	-19	5.5	2.8	5.5	2.8	5.3	2.8	5.1	2.7	5.0	2.6	4.6	2.3
	-17	-17	5.8	2.9	5.6	2.8	5.3	2.6	5.1	2.5	5.0	2.4	4.6	2.2
	-15	-15	6.0	2.9	5.6	2.7	5.3	2.5	5.1	2.4	5.0	2.3	4.6	2.1
	-13	-13	6.0	2.7	5.6	2.5	5.3	2.3	5.1	2.2	5.0	2.1	4.6	2.0
	-11	-11	6.0	2.5	5.6	2.4	5.3	2.2	5.1	2.1	5.0	2.0	4.6	1.8
	-10	-10	6.0	2.4	5.6	2.2	5.3	2.0	5.1	2.0	5.0	1.9	4.6	1.7
	-9	-9	6.0	2.3	5.6	2.1	5.3	2.0	5.1	1.9	5.0	1.8	4.6	1.7
	-7	-8	6.0	2.2	5.6	2.1	5.3	1.9	5.1	1.8	5.0	1.8	4.6	1.6
	-5	-6	6.0	2.1	5.6	1.9	5.3	1.8	5.1	1.7	5.0	1.7	4.6	1.5
	-3	-4	6.0	1.9	5.6	1.8	5.3	1.6	5.1	1.6	5.0	1.5	4.6	1.4
	0	-1	6.0	1.8	5.6	1.6	5.3	1.5	5.1	1.5	5.0	1.4	4.6	1.3
	3	2	6.0	1.7	5.6	1.5	5.3	1.4	5.1	1.4	5.0	1.3	4.6	1.2
	5	4	6.0	1.6	5.6	1.5	5.3	1.4	5.1	1.3	5.0	1.3	4.6	1.2
	7	6	6.4	1.5	6.0	1.4	5.7	1.3	5.5	1.3	5.3	1.2	4.9	1.1
	9	8	6.5	1.4	6.1	1.3	5.7	1.3	5.6	1.2	5.4	1.2	5.0	1.1
11	10	6.5	1.4	6.1	1.3	5.7	1.2	5.6	1.2	5.4	1.1	5.0	1.0	
13	12	6.5	1.3	6.1	1.3	5.7	1.2	5.6	1.1	5.4	1.1	5.0	1.0	
15	14	6.5	1.3	6.1	1.2	5.7	1.1	5.6	1.1	5.4	1.1	5.0	1.0	

11. Capacity Tables – A2A

11-1. RD060PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (DB,°C)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-20	-20	5.2	2.8	4.9	2.6	4.6	2.4	4.5	2.3	4.3	2.2	4.0	2.1
	-19	-19	5.2	2.7	4.9	2.5	4.6	2.3	4.5	2.3	4.3	2.2	4.0	2.0
	-17	-17	5.2	2.5	4.9	2.4	4.6	2.2	4.5	2.1	4.3	2.0	4.0	1.8
	-15	-15	5.2	2.4	4.9	2.3	4.6	2.1	4.5	2.0	4.3	1.9	4.0	1.8
	-13	-13	5.2	2.3	4.9	2.1	4.6	2.0	4.5	1.9	4.3	1.8	4.0	1.7
	-11	-11	5.2	2.1	4.9	2.0	4.6	1.9	4.5	1.8	4.3	1.7	4.0	1.6
	-10	-10	5.2	2.0	4.9	1.9	4.6	1.7	4.5	1.7	4.3	1.6	4.0	1.5
	-9	-9	5.2	2.0	4.9	1.8	4.6	1.7	4.5	1.6	4.3	1.6	4.0	1.4
	-7	-8	5.2	1.9	4.9	1.7	4.6	1.6	4.5	1.6	4.3	1.5	4.0	1.4
	-5	-6	5.2	1.8	4.9	1.7	4.6	1.5	4.5	1.5	4.3	1.4	4.0	1.3
	-3	-4	5.2	1.6	4.9	1.5	4.6	1.4	4.5	1.4	4.3	1.3	4.0	1.2
	0	-1	5.2	1.5	4.9	1.4	4.6	1.3	4.5	1.3	4.3	1.2	4.0	1.1
	3	2	5.2	1.4	4.9	1.3	4.6	1.2	4.5	1.2	4.3	1.2	4.0	1.1
	5	4	5.2	1.4	4.9	1.3	4.6	1.2	4.5	1.2	4.3	1.1	4.0	1.0
	7	6	5.6	1.3	5.3	1.2	5.0	1.1	4.8	1.1	4.6	1.1	4.3	1.0
	9	8	5.7	1.2	5.4	1.2	5.0	1.1	4.9	1.0	4.7	1.0	4.4	0.9
11	10	5.7	1.2	5.4	1.1	5.0	1.1	4.9	1.0	4.7	1.0	4.4	0.9	
13	12	5.7	1.2	5.4	1.1	5.0	1.0	4.9	1.0	4.7	0.9	4.4	0.9	
15	14	5.7	1.1	5.4	1.1	5.0	1.0	4.9	1.0	4.7	0.9	4.4	0.9	
60%	-20	-20	4.5	2.3	4.2	2.2	4.0	2.0	3.8	1.9	3.7	1.9	3.5	1.7
	-19	-19	4.5	2.3	4.2	2.1	4.0	1.9	3.8	1.9	3.7	1.8	3.5	1.6
	-17	-17	4.5	2.1	4.2	1.9	4.0	1.8	3.8	1.7	3.7	1.7	3.5	1.5
	-15	-15	4.5	2.0	4.2	1.9	4.0	1.7	3.8	1.7	3.7	1.6	3.5	1.5
	-13	-13	4.5	1.9	4.2	1.8	4.0	1.6	3.8	1.6	3.7	1.5	3.5	1.4
	-11	-11	4.5	1.8	4.2	1.7	4.0	1.5	3.8	1.5	3.7	1.4	3.5	1.3
	-10	-10	4.5	1.7	4.2	1.6	4.0	1.5	3.8	1.4	3.7	1.3	3.5	1.2
	-9	-9	4.5	1.6	4.2	1.5	4.0	1.4	3.8	1.4	3.7	1.3	3.5	1.2
	-7	-8	4.5	1.6	4.2	1.5	4.0	1.4	3.8	1.3	3.7	1.3	3.5	1.2
	-5	-6	4.5	1.5	4.2	1.4	4.0	1.3	3.8	1.2	3.7	1.2	3.5	1.1
	-3	-4	4.5	1.4	4.2	1.3	4.0	1.2	3.8	1.1	3.7	1.1	3.5	1.0
	0	-1	4.5	1.3	4.2	1.2	4.0	1.1	3.8	1.1	3.7	1.0	3.5	1.0
	3	2	4.5	1.2	4.2	1.1	4.0	1.0	3.8	1.0	3.7	1.0	3.5	0.9
	5	4	4.5	1.1	4.2	1.1	4.0	1.0	3.8	1.0	3.7	0.9	3.5	0.9
	7	6	4.8	1.1	4.5	1.0	4.3	1.0	4.1	0.9	4.0	0.9	3.7	0.8
	9	8	4.9	1.0	4.6	1.0	4.3	0.9	4.2	0.9	4.0	0.9	3.8	0.8
11	10	4.9	1.0	4.6	1.0	4.3	0.9	4.2	0.9	4.0	0.8	3.8	0.8	
13	12	4.9	1.0	4.6	0.9	4.3	0.9	4.2	0.8	4.0	0.8	3.8	0.8	
15	14	4.9	1.0	4.6	0.9	4.3	0.8	4.2	0.8	4.0	0.8	3.8	0.7	
50%	-20	-20	3.7	1.9	3.5	1.7	3.3	1.6	3.2	1.6	3.1	1.5	2.9	1.4
	-19	-19	3.7	1.8	3.5	1.7	3.3	1.6	3.2	1.5	3.1	1.4	2.9	1.3
	-17	-17	3.7	1.7	3.5	1.6	3.3	1.5	3.2	1.4	3.1	1.4	2.9	1.3
	-15	-15	3.7	1.6	3.5	1.5	3.3	1.4	3.2	1.4	3.1	1.3	2.9	1.2
	-13	-13	3.7	1.5	3.5	1.4	3.3	1.3	3.2	1.3	3.1	1.2	2.9	1.1
	-11	-11	3.7	1.4	3.5	1.3	3.3	1.3	3.2	1.2	3.1	1.2	2.9	1.1
	-10	-10	3.7	1.4	3.5	1.3	3.3	1.2	3.2	1.1	3.1	1.1	2.9	1.0
	-9	-9	3.7	1.3	3.5	1.2	3.3	1.2	3.2	1.1	3.1	1.1	2.9	1.0
	-7	-8	3.7	1.3	3.5	1.2	3.3	1.1	3.2	1.1	3.1	1.0	2.9	1.0
	-5	-6	3.7	1.2	3.5	1.1	3.3	1.1	3.2	1.0	3.1	1.0	2.9	0.9
	-3	-4	3.7	1.1	3.5	1.0	3.3	1.0	3.2	0.9	3.1	0.9	2.9	0.8
	0	-1	3.7	1.0	3.5	1.0	3.3	0.9	3.2	0.9	3.1	0.9	2.9	0.8
	3	2	3.7	1.0	3.5	0.9	3.3	0.9	3.2	0.8	3.1	0.8	2.9	0.8
	5	4	3.7	0.9	3.5	0.9	3.3	0.8	3.2	0.8	3.1	0.8	2.9	0.7
	7	6	4.0	0.9	3.8	0.9	3.5	0.8	3.4	0.8	3.3	0.7	3.1	0.7
	9	8	4.1	0.9	3.8	0.8	3.6	0.8	3.5	0.7	3.4	0.7	3.1	0.7
11	10	4.1	0.8	3.8	0.8	3.6	0.7	3.5	0.7	3.4	0.7	3.1	0.7	
13	12	4.1	0.8	3.8	0.8	3.6	0.7	3.5	0.7	3.4	0.7	3.1	0.6	
15	14	4.1	0.8	3.8	0.7	3.6	0.7	3.5	0.7	3.4	0.7	3.1	0.6	

11. Capacity Tables – A2A

11-1. RD060PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB,°C)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	10	4.8	0.8	5.7	0.9	6.7	1.1	7.1	1.2	7.5	1.3	8.5	1.4	9.4	1.6
	12	4.8	0.8	5.7	0.9	6.7	1.1	7.1	1.2	7.5	1.3	8.5	1.5	9.4	1.6
	14	4.8	0.8	5.7	0.9	6.6	1.1	7.1	1.2	7.5	1.3	8.5	1.5	9.4	1.7
	16	4.8	0.8	5.7	1.0	6.6	1.1	7.1	1.2	7.5	1.3	8.5	1.5	9.4	1.7
	18	4.8	0.8	5.7	1.0	6.6	1.2	7.1	1.3	7.5	1.4	8.5	1.6	9.4	1.9
	20	4.8	0.8	5.7	1.0	6.6	1.2	7.1	1.3	7.5	1.5	8.5	1.7	9.3	2.0
	21	4.8	0.8	5.7	1.0	6.6	1.2	7.1	1.4	7.5	1.5	8.5	1.8	9.3	2.1
	23	4.8	0.9	5.7	1.1	6.6	1.3	7.1	1.5	7.5	1.6	8.4	1.9	9.3	2.2
	25	4.8	0.9	5.7	1.2	6.6	1.4	7.0	1.6	7.5	1.7	8.4	2.1	9.1	2.3
	27	4.8	1.0	5.7	1.2	6.6	1.5	7.0	1.7	7.5	1.8	8.4	2.2	9.0	2.4
	29	4.7	1.0	5.7	1.3	6.6	1.6	7.0	1.8	7.5	2.0	8.4	2.4	8.9	2.5
	31	4.7	1.1	5.7	1.4	6.6	1.7	7.0	1.9	7.5	2.1	8.4	2.5	8.7	2.6
	33	4.7	1.2	5.7	1.5	6.6	1.8	7.0	2.0	7.5	2.2	8.4	2.7	8.5	2.7
	35	4.7	1.2	5.6	1.6	6.6	2.0	7.0	2.2	7.4	2.4	8.3	2.8	8.4	2.8
	37	4.6	1.3	5.5	1.7	6.4	2.1	6.8	2.3	7.2	2.6	7.8	2.9	8.0	2.9
	39	4.5	1.4	5.4	1.8	6.2	2.2	6.7	2.5	7.1	2.7	7.5	3.0	7.7	3.0
	42	4.5	1.5	5.4	1.9	6.2	2.4	6.7	2.6	7.1	2.9	7.4	3.1	7.6	3.1
44	4.5	1.6	5.4	2.0	6.2	2.5	6.7	2.8	7.1	3.1	7.3	3.2	7.5	3.2	
46	4.5	1.6	5.4	2.1	6.2	2.6	6.7	2.9	7.1	3.2	7.2	3.3	7.4	3.3	
90%	10	4.3	0.7	5.1	0.8	6.0	1.0	6.4	1.0	6.8	1.1	7.6	1.3	8.5	1.4
	12	4.3	0.7	5.1	0.8	6.0	1.0	6.4	1.1	6.8	1.1	7.6	1.3	8.5	1.5
	14	4.3	0.7	5.1	0.8	6.0	1.0	6.4	1.1	6.8	1.2	7.6	1.3	8.5	1.5
	16	4.3	0.7	5.1	0.9	6.0	1.0	6.4	1.1	6.8	1.2	7.6	1.3	8.5	1.5
	18	4.3	0.7	5.1	0.9	6.0	1.0	6.4	1.1	6.8	1.2	7.6	1.4	8.5	1.6
	20	4.3	0.7	5.1	0.9	5.9	1.1	6.4	1.1	6.8	1.2	7.6	1.5	8.5	1.7
	21	4.3	0.7	5.1	0.9	5.9	1.1	6.4	1.2	6.7	1.3	7.6	1.5	8.5	1.8
	23	4.3	0.8	5.1	0.9	5.9	1.1	6.4	1.3	6.7	1.4	7.6	1.6	8.4	1.9
	25	4.3	0.8	5.1	1.0	5.9	1.2	6.4	1.3	6.7	1.5	7.6	1.8	8.4	2.1
	27	4.3	0.8	5.1	1.1	5.9	1.3	6.4	1.4	6.7	1.6	7.5	1.9	8.4	2.2
	29	4.3	0.9	5.1	1.1	5.9	1.4	6.3	1.5	6.7	1.7	7.5	2.0	8.4	2.3
	31	4.3	1.0	5.1	1.2	5.9	1.5	6.3	1.6	6.7	1.8	7.5	2.1	8.4	2.5
	33	4.3	1.0	5.1	1.3	5.9	1.6	6.3	1.7	6.7	1.9	7.5	2.3	8.4	2.7
	35	4.3	1.1	5.1	1.4	5.9	1.7	6.3	1.9	6.7	2.0	7.5	2.4	8.3	2.8
	37	4.1	1.1	4.9	1.5	5.7	1.8	6.1	2.0	6.5	2.2	7.3	2.6	7.8	2.9
	39	4.0	1.2	4.8	1.5	5.6	1.9	6.0	2.1	6.4	2.3	7.1	2.8	7.5	3.0
	42	4.0	1.3	4.8	1.6	5.6	2.0	6.0	2.2	6.4	2.5	7.1	2.9	7.4	3.1
44	4.0	1.3	4.8	1.7	5.6	2.1	6.0	2.4	6.4	2.6	7.1	3.1	7.3	3.2	
46	4.0	1.4	4.8	1.8	5.6	2.3	6.0	2.5	6.4	2.7	7.1	3.3	7.2	3.3	
80%	10	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.9	6.1	1.0	6.8	1.1	7.5	1.2
	12	3.8	0.6	4.6	0.7	5.3	0.9	5.7	0.9	6.0	1.0	6.8	1.1	7.5	1.3
	14	3.8	0.6	4.6	0.7	5.3	0.9	5.7	0.9	6.0	1.0	6.8	1.1	7.5	1.3
	16	3.8	0.6	4.6	0.8	5.3	0.9	5.7	1.0	6.0	1.0	6.8	1.2	7.5	1.3
	18	3.8	0.6	4.6	0.8	5.3	0.9	5.7	1.0	6.0	1.0	6.8	1.2	7.5	1.3
	20	3.8	0.6	4.6	0.8	5.3	0.9	5.7	1.0	6.0	1.1	6.8	1.2	7.5	1.4
	21	3.8	0.7	4.5	0.8	5.3	0.9	5.7	1.0	6.0	1.1	6.7	1.3	7.5	1.5
	23	3.8	0.7	4.5	0.8	5.3	1.0	5.6	1.1	6.0	1.2	6.7	1.4	7.5	1.6
	25	3.8	0.7	4.5	0.9	5.3	1.0	5.6	1.1	6.0	1.2	6.7	1.5	7.5	1.7
	27	3.8	0.7	4.5	0.9	5.3	1.1	5.6	1.2	6.0	1.3	6.7	1.6	7.5	1.8
	29	3.8	0.8	4.5	1.0	5.3	1.2	5.6	1.3	6.0	1.4	6.7	1.7	7.5	2.0
	31	3.8	0.8	4.5	1.0	5.3	1.3	5.6	1.4	6.0	1.5	6.7	1.8	7.5	2.1
	33	3.8	0.9	4.5	1.1	5.3	1.3	5.6	1.5	6.0	1.6	6.7	1.9	7.5	2.2
	35	3.8	0.9	4.5	1.2	5.2	1.4	5.6	1.6	6.0	1.7	6.7	2.0	7.4	2.4
	37	3.7	1.0	4.4	1.2	5.1	1.5	5.4	1.7	5.8	1.8	6.5	2.2	7.2	2.5
	39	3.6	1.0	4.3	1.3	5.0	1.6	5.3	1.8	5.7	1.9	6.4	2.3	7.1	2.7
	42	3.6	1.1	4.3	1.4	5.0	1.7	5.3	1.9	5.7	2.1	6.4	2.5	7.1	2.9
44	3.6	1.2	4.3	1.5	5.0	1.8	5.3	2.0	5.7	2.2	6.4	2.6	7.1	3.0	
46	3.6	1.2	4.3	1.5	5.0	1.9	5.3	2.1	5.7	2.3	6.4	2.7	7.1	3.2	

11. Capacity Tables – A2A

11-1. RD060PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB,°C)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	10	3.4	0.5	4.0	0.6	4.6	0.7	5.0	0.8	5.3	0.8	5.9	1.0	6.6	1.1
	12	3.4	0.5	4.0	0.6	4.6	0.7	5.0	0.8	5.3	0.9	5.9	1.0	6.6	1.1
	14	3.3	0.5	4.0	0.6	4.6	0.8	5.0	0.8	5.3	0.9	5.9	1.0	6.6	1.1
	16	3.3	0.5	4.0	0.7	4.6	0.8	5.0	0.8	5.3	0.9	5.9	1.0	6.6	1.1
	18	3.3	0.6	4.0	0.7	4.6	0.8	5.0	0.8	5.3	0.9	5.9	1.0	6.6	1.2
	20	3.3	0.6	4.0	0.7	4.6	0.8	4.9	0.9	5.3	0.9	5.9	1.0	6.6	1.2
	21	3.3	0.6	4.0	0.7	4.6	0.8	4.9	0.9	5.3	0.9	5.9	1.1	6.6	1.2
	23	3.3	0.6	4.0	0.7	4.6	0.8	4.9	0.9	5.3	1.0	5.9	1.1	6.6	1.3
	25	3.3	0.6	4.0	0.7	4.6	0.9	4.9	1.0	5.3	1.0	5.9	1.2	6.5	1.4
	27	3.3	0.6	4.0	0.8	4.6	0.9	4.9	1.0	5.3	1.1	5.9	1.3	6.5	1.5
	29	3.3	0.7	4.0	0.8	4.6	1.0	4.9	1.1	5.2	1.2	5.9	1.4	6.5	1.6
	31	3.3	0.7	4.0	0.9	4.6	1.1	4.9	1.2	5.2	1.3	5.9	1.5	6.5	1.7
	33	3.3	0.7	4.0	0.9	4.6	1.1	4.9	1.2	5.2	1.3	5.9	1.6	6.5	1.8
	35	3.3	0.8	3.9	1.0	4.6	1.2	4.9	1.3	5.2	1.4	5.9	1.7	6.5	1.9
	37	3.2	0.8	3.8	1.0	4.4	1.3	4.8	1.4	5.1	1.5	5.7	1.8	6.3	2.1
39	3.1	0.9	3.7	1.1	4.4	1.3	4.7	1.5	5.0	1.6	5.6	1.9	6.2	2.2	
42	3.1	0.9	3.7	1.2	4.4	1.4	4.7	1.6	5.0	1.7	5.6	2.0	6.2	2.3	
44	3.1	1.0	3.7	1.2	4.4	1.5	4.7	1.6	5.0	1.8	5.6	2.1	6.2	2.5	
46	3.1	1.0	3.7	1.3	4.4	1.6	4.7	1.7	5.0	1.9	5.6	2.2	6.2	2.6	
60%	10	2.9	0.5	3.4	0.5	4.0	0.6	4.3	0.7	4.5	0.7	5.1	0.8	5.6	0.9
	12	2.9	0.5	3.4	0.5	4.0	0.6	4.3	0.7	4.5	0.7	5.1	0.8	5.6	0.9
	14	2.9	0.5	3.4	0.6	4.0	0.6	4.3	0.7	4.5	0.7	5.1	0.8	5.6	0.9
	16	2.9	0.5	3.4	0.6	4.0	0.7	4.3	0.7	4.5	0.7	5.1	0.8	5.6	0.9
	18	2.9	0.5	3.4	0.6	4.0	0.7	4.2	0.7	4.5	0.8	5.1	0.9	5.6	1.0
	20	2.9	0.5	3.4	0.6	4.0	0.7	4.2	0.7	4.5	0.8	5.1	0.9	5.6	1.0
	21	2.9	0.5	3.4	0.6	4.0	0.7	4.2	0.7	4.5	0.8	5.1	0.9	5.6	1.0
	23	2.9	0.5	3.4	0.6	4.0	0.7	4.2	0.7	4.5	0.8	5.1	0.9	5.6	1.1
	25	2.9	0.5	3.4	0.6	4.0	0.7	4.2	0.8	4.5	0.8	5.1	1.0	5.6	1.1
	27	2.9	0.5	3.4	0.6	3.9	0.8	4.2	0.8	4.5	0.9	5.0	1.0	5.6	1.2
	29	2.9	0.6	3.4	0.7	3.9	0.8	4.2	0.9	4.5	1.0	5.0	1.1	5.6	1.3
	31	2.8	0.6	3.4	0.7	3.9	0.9	4.2	0.9	4.5	1.0	5.0	1.2	5.6	1.4
	33	2.8	0.6	3.4	0.8	3.9	0.9	4.2	1.0	4.5	1.1	5.0	1.3	5.6	1.5
	35	2.8	0.7	3.4	0.8	3.9	1.0	4.2	1.1	4.5	1.2	5.0	1.3	5.6	1.6
	37	2.8	0.7	3.3	0.9	3.8	1.0	4.1	1.1	4.3	1.2	4.9	1.4	5.4	1.7
39	2.7	0.7	3.2	0.9	3.7	1.1	4.0	1.2	4.3	1.3	4.8	1.5	5.3	1.8	
42	2.7	0.8	3.2	1.0	3.7	1.2	4.0	1.3	4.3	1.4	4.8	1.6	5.3	1.9	
44	2.7	0.8	3.2	1.0	3.7	1.2	4.0	1.3	4.3	1.4	4.8	1.7	5.3	2.0	
46	2.7	0.9	3.2	1.1	3.7	1.3	4.0	1.4	4.3	1.5	4.8	1.8	5.3	2.1	
50%	10	2.4	0.4	2.9	0.5	3.3	0.5	3.6	0.6	3.8	0.6	4.2	0.7	4.7	0.7
	12	2.4	0.4	2.9	0.5	3.3	0.5	3.5	0.6	3.8	0.6	4.2	0.7	4.7	0.7
	14	2.4	0.4	2.9	0.5	3.3	0.5	3.5	0.6	3.8	0.6	4.2	0.7	4.7	0.8
	16	2.4	0.4	2.9	0.5	3.3	0.5	3.5	0.6	3.8	0.6	4.2	0.7	4.7	0.8
	18	2.4	0.4	2.8	0.5	3.3	0.6	3.5	0.6	3.8	0.6	4.2	0.7	4.7	0.8
	20	2.4	0.4	2.8	0.5	3.3	0.6	3.5	0.6	3.8	0.6	4.2	0.7	4.7	0.8
	21	2.4	0.4	2.8	0.5	3.3	0.6	3.5	0.6	3.8	0.6	4.2	0.7	4.7	0.8
	23	2.4	0.4	2.8	0.5	3.3	0.6	3.5	0.6	3.8	0.7	4.2	0.7	4.7	0.8
	25	2.4	0.4	2.8	0.5	3.3	0.6	3.5	0.6	3.8	0.7	4.2	0.8	4.7	0.9
	27	2.4	0.4	2.8	0.5	3.3	0.6	3.5	0.7	3.7	0.7	4.2	0.8	4.7	0.9
	29	2.4	0.5	2.8	0.6	3.3	0.7	3.5	0.7	3.7	0.8	4.2	0.9	4.7	1.0
	31	2.4	0.5	2.8	0.6	3.3	0.7	3.5	0.8	3.7	0.8	4.2	0.9	4.7	1.1
	33	2.4	0.5	2.8	0.6	3.3	0.7	3.5	0.8	3.7	0.9	4.2	1.0	4.7	1.1
	35	2.4	0.6	2.8	0.7	3.3	0.8	3.5	0.8	3.7	0.9	4.2	1.1	4.6	1.2
	37	2.3	0.6	2.7	0.7	3.2	0.8	3.4	0.9	3.6	1.0	4.1	1.1	4.5	1.3
39	2.2	0.6	2.7	0.7	3.1	0.9	3.3	1.0	3.5	1.0	4.0	1.2	4.4	1.4	
42	2.2	0.6	2.7	0.8	3.1	0.9	3.3	1.0	3.5	1.1	4.0	1.3	4.4	1.4	
44	2.2	0.7	2.7	0.8	3.1	1.0	3.3	1.1	3.5	1.1	4.0	1.3	4.4	1.5	
46	2.2	0.7	2.7	0.9	3.1	1.0	3.3	1.1	3.5	1.2	4.0	1.4	4.4	1.6	

11. Capacity Tables – A2A

11-2. RD070PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (DB,°C)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-20	-20	6.8	3.0	6.7	3.0	6.6	3.1	6.7	3.1	6.7	3.2	6.7	3.3
	-19	-19	7.0	3.0	7.0	3.1	6.8	3.1	6.9	3.2	6.9	3.2	6.9	3.3
	-17	-17	7.4	3.1	7.4	3.1	7.2	3.2	7.3	3.3	7.3	3.3	7.3	3.4
	-15	-15	7.8	3.2	7.8	3.3	7.6	3.4	7.7	3.4	7.7	3.4	7.3	3.2
	-13	-13	8.2	3.3	8.2	3.4	7.9	3.4	8.1	3.4	7.8	3.3	7.3	3.0
	-11	-11	8.6	3.4	8.6	3.4	8.1	3.4	8.1	3.2	7.8	3.1	7.3	2.8
	-10	-10	8.8	3.3	8.8	3.3	8.1	3.1	8.1	3.0	7.8	2.9	7.3	2.6
	-9	-9	9.0	3.3	8.9	3.3	8.1	3.1	8.1	2.9	7.8	2.8	7.3	2.6
	-7	-8	9.3	3.3	8.9	3.2	8.1	2.9	8.1	2.8	7.8	2.7	7.3	2.5
	-5	-6	9.5	3.2	8.9	3.0	8.1	2.8	8.1	2.7	7.8	2.6	7.3	2.3
	-3	-4	9.5	2.9	8.9	2.7	8.1	2.5	8.1	2.4	7.8	2.3	7.3	2.1
	0	-1	9.5	2.7	8.9	2.5	8.1	2.3	8.1	2.2	7.8	2.1	7.3	2.0
	3	2	9.5	2.5	8.9	2.4	8.1	2.2	8.1	2.1	7.8	2.0	7.3	1.9
	5	4	9.5	2.4	8.9	2.3	8.1	2.1	8.1	2.0	7.8	1.9	7.3	1.8
	7	6	9.3	2.3	8.8	2.1	8.1	2.0	8.0	1.9	7.7	1.8	7.2	1.7
9	8	9.6	2.2	9.1	2.0	8.5	1.9	8.3	1.8	8.0	1.8	7.5	1.6	
11	10	9.6	2.1	9.1	2.0	8.5	1.8	8.3	1.8	8.0	1.7	7.5	1.6	
13	12	9.6	2.0	9.1	1.9	8.5	1.8	8.3	1.7	8.0	1.6	7.5	1.5	
15	14	9.6	2.0	9.1	1.8	8.5	1.7	8.3	1.6	8.0	1.6	7.5	1.5	
90%	-20	-20	6.2	3.1	6.2	3.2	6.2	3.2	6.2	3.3	6.2	3.3	6.1	3.3
	-19	-19	6.4	3.1	6.4	3.2	6.4	3.3	6.4	3.3	6.4	3.3	6.1	3.2
	-17	-17	6.7	3.2	6.7	3.3	6.7	3.3	6.7	3.4	6.5	3.2	6.1	2.9
	-15	-15	7.2	3.4	7.1	3.4	7.0	3.4	6.7	3.2	6.5	3.1	6.1	2.8
	-13	-13	7.5	3.4	7.4	3.4	7.0	3.1	6.7	3.0	6.5	2.9	6.1	2.6
	-11	-11	7.9	3.4	7.4	3.2	7.0	2.9	6.7	2.8	6.5	2.7	6.1	2.5
	-10	-10	7.9	3.2	7.4	3.0	7.0	2.7	6.7	2.6	6.5	2.5	6.1	2.3
	-9	-9	7.9	3.1	7.4	2.9	7.0	2.7	6.7	2.6	6.5	2.5	6.1	2.3
	-7	-8	7.9	3.0	7.4	2.8	7.0	2.6	6.7	2.5	6.5	2.4	6.1	2.2
	-5	-6	7.9	2.8	7.4	2.6	7.0	2.4	6.7	2.3	6.5	2.2	6.1	2.1
	-3	-4	7.9	2.6	7.4	2.4	7.0	2.2	6.7	2.1	6.5	2.0	6.1	1.9
	0	-1	7.9	2.4	7.4	2.2	7.0	2.1	6.7	2.0	6.5	1.9	6.1	1.7
	3	2	7.9	2.2	7.4	2.1	7.0	1.9	6.7	1.8	6.5	1.8	6.1	1.6
	5	4	7.9	2.1	7.4	2.0	7.0	1.8	6.7	1.8	6.5	1.7	6.1	1.6
	7	6	8.4	2.0	7.9	1.9	7.5	1.8	7.2	1.7	7.0	1.6	6.5	1.5
9	8	8.5	1.9	8.0	1.8	7.6	1.7	7.3	1.6	7.0	1.6	6.6	1.4	
11	10	8.5	1.9	8.0	1.7	7.6	1.6	7.3	1.6	7.0	1.5	6.6	1.4	
13	12	8.5	1.8	8.0	1.7	7.6	1.6	7.3	1.5	7.0	1.5	6.6	1.3	
15	14	8.5	1.7	8.0	1.6	7.6	1.5	7.3	1.5	7.0	1.4	6.6	1.3	
80%	-20	-20	6.2	3.2	6.2	3.3	6.2	3.4	6.0	3.2	5.8	3.1	5.4	2.8
	-19	-19	6.4	3.3	6.4	3.3	6.2	3.2	6.0	3.1	5.8	3.0	5.4	2.7
	-17	-17	6.7	3.3	6.6	3.3	6.2	3.0	6.0	2.9	5.8	2.8	5.4	2.5
	-15	-15	7.0	3.4	6.6	3.1	6.2	2.9	6.0	2.8	5.8	2.7	5.4	2.4
	-13	-13	7.0	3.1	6.6	2.9	6.2	2.7	6.0	2.6	5.8	2.5	5.4	2.3
	-11	-11	7.0	3.0	6.6	2.7	6.2	2.5	6.0	2.4	5.8	2.3	5.4	2.1
	-10	-10	7.0	2.8	6.6	2.6	6.2	2.4	6.0	2.3	5.8	2.2	5.4	2.0
	-9	-9	7.0	2.7	6.6	2.5	6.2	2.3	6.0	2.2	5.8	2.1	5.4	2.0
	-7	-8	7.0	2.6	6.6	2.4	6.2	2.2	6.0	2.1	5.8	2.1	5.4	1.9
	-5	-6	7.0	2.4	6.6	2.3	6.2	2.1	6.0	2.0	5.8	1.9	5.4	1.8
	-3	-4	7.0	2.2	6.6	2.1	6.2	1.9	6.0	1.8	5.8	1.8	5.4	1.6
	0	-1	7.0	2.1	6.6	1.9	6.2	1.8	6.0	1.7	5.8	1.7	5.4	1.5
	3	2	7.0	1.9	6.6	1.8	6.2	1.7	6.0	1.6	5.8	1.6	5.4	1.4
	5	4	7.0	1.9	6.6	1.7	6.2	1.6	6.0	1.6	5.8	1.5	5.4	1.4
	7	6	7.5	1.8	7.0	1.6	6.6	1.5	6.4	1.5	6.2	1.4	5.8	1.3
9	8	7.6	1.7	7.1	1.6	6.7	1.5	6.5	1.4	6.3	1.4	5.8	1.3	
11	10	7.6	1.6	7.1	1.5	6.7	1.4	6.5	1.4	6.3	1.3	5.8	1.2	
13	12	7.6	1.6	7.1	1.5	6.7	1.4	6.5	1.3	6.3	1.3	5.8	1.2	
15	14	7.6	1.5	7.1	1.4	6.7	1.3	6.5	1.3	6.3	1.2	5.8	1.1	

11. Capacity Tables – A2A

11-2. RD070PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (DB,°C)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-20	-20	6.1	3.3	5.8	3.1	5.4	2.8	5.2	2.7	5.1	2.6	4.7	2.4
	-19	-19	6.1	3.2	5.8	3.0	5.4	2.7	5.2	2.6	5.1	2.5	4.7	2.3
	-17	-17	6.1	3.0	5.8	2.8	5.4	2.5	5.2	2.4	5.1	2.3	4.7	2.2
	-15	-15	6.1	2.8	5.8	2.6	5.4	2.4	5.2	2.3	5.1	2.3	4.7	2.1
	-13	-13	6.1	2.7	5.8	2.5	5.4	2.3	5.2	2.2	5.1	2.1	4.7	1.9
	-11	-11	6.1	2.5	5.8	2.3	5.4	2.2	5.2	2.1	5.1	2.0	4.7	1.8
	-10	-10	6.1	2.3	5.8	2.2	5.4	2.0	5.2	1.9	5.1	1.9	4.7	1.7
	-9	-9	6.1	2.3	5.8	2.1	5.4	2.0	5.2	1.9	5.1	1.8	4.7	1.7
	-7	-8	6.1	2.2	5.8	2.0	5.4	1.9	5.2	1.8	5.1	1.8	4.7	1.6
	-5	-6	6.1	2.1	5.8	1.9	5.4	1.8	5.2	1.7	5.1	1.7	4.7	1.5
	-3	-4	6.1	1.9	5.8	1.8	5.4	1.6	5.2	1.6	5.1	1.5	4.7	1.4
	0	-1	6.1	1.8	5.8	1.6	5.4	1.5	5.2	1.5	5.1	1.4	4.7	1.3
	3	2	6.1	1.7	5.8	1.5	5.4	1.4	5.2	1.4	5.1	1.3	4.7	1.2
	5	4	6.1	1.6	5.8	1.5	5.4	1.4	5.2	1.3	5.1	1.3	4.7	1.2
	7	6	6.5	1.5	6.2	1.4	5.8	1.3	5.6	1.3	5.4	1.2	5.1	1.1
	9	8	6.6	1.4	6.2	1.4	5.9	1.3	5.7	1.2	5.5	1.2	5.1	1.1
11	10	6.6	1.4	6.2	1.3	5.9	1.2	5.7	1.2	5.5	1.1	5.1	1.1	
13	12	6.6	1.3	6.2	1.3	5.9	1.2	5.7	1.1	5.5	1.1	5.1	1.0	
15	14	6.6	1.3	6.2	1.2	5.9	1.2	5.7	1.1	5.5	1.1	5.1	1.0	
60%	-20	-20	5.2	2.7	4.9	2.5	4.6	2.4	4.5	2.3	4.3	2.2	4.0	2.0
	-19	-19	5.2	2.6	4.9	2.4	4.6	2.3	4.5	2.2	4.3	2.1	4.0	1.9
	-17	-17	5.2	2.4	4.9	2.3	4.6	2.1	4.5	2.0	4.3	1.9	4.0	1.8
	-15	-15	5.2	2.3	4.9	2.2	4.6	2.0	4.5	2.0	4.3	1.9	4.0	1.7
	-13	-13	5.2	2.2	4.9	2.1	4.6	1.9	4.5	1.8	4.3	1.8	4.0	1.6
	-11	-11	5.2	2.1	4.9	1.9	4.6	1.8	4.5	1.7	4.3	1.7	4.0	1.5
	-10	-10	5.2	1.9	4.9	1.8	4.6	1.7	4.5	1.6	4.3	1.6	4.0	1.4
	-9	-9	5.2	1.9	4.9	1.8	4.6	1.6	4.5	1.6	4.3	1.5	4.0	1.4
	-7	-8	5.2	1.8	4.9	1.7	4.6	1.6	4.5	1.5	4.3	1.5	4.0	1.4
	-5	-6	5.2	1.7	4.9	1.6	4.6	1.5	4.5	1.5	4.3	1.4	4.0	1.3
	-3	-4	5.2	1.6	4.9	1.5	4.6	1.4	4.5	1.3	4.3	1.3	4.0	1.2
	0	-1	5.2	1.5	4.9	1.4	4.6	1.3	4.5	1.2	4.3	1.2	4.0	1.1
	3	2	5.2	1.4	4.9	1.3	4.6	1.2	4.5	1.2	4.3	1.1	4.0	1.1
	5	4	5.2	1.3	4.9	1.3	4.6	1.2	4.5	1.1	4.3	1.1	4.0	1.0
	7	6	5.6	1.3	5.3	1.2	5.0	1.1	4.8	1.1	4.6	1.0	4.3	1.0
	9	8	5.7	1.2	5.4	1.1	5.0	1.1	4.9	1.0	4.7	1.0	4.4	0.9
11	10	5.7	1.2	5.4	1.1	5.0	1.0	4.9	1.0	4.7	1.0	4.4	0.9	
13	12	5.7	1.1	5.4	1.1	5.0	1.0	4.9	1.0	4.7	0.9	4.4	0.9	
15	14	5.7	1.1	5.4	1.0	5.0	1.0	4.9	1.0	4.7	0.9	4.4	0.9	
50%	-20	-20	4.4	2.2	4.1	2.0	3.9	1.9	3.7	1.8	3.6	1.8	3.4	1.6
	-19	-19	4.4	2.1	4.1	2.0	3.9	1.8	3.7	1.8	3.6	1.7	3.4	1.6
	-17	-17	4.4	2.0	4.1	1.8	3.9	1.7	3.7	1.6	3.6	1.6	3.4	1.5
	-15	-15	4.4	1.9	4.1	1.8	3.9	1.6	3.7	1.6	3.6	1.5	3.4	1.4
	-13	-13	4.4	1.8	4.1	1.7	3.9	1.6	3.7	1.5	3.6	1.4	3.4	1.3
	-11	-11	4.4	1.7	4.1	1.6	3.9	1.5	3.7	1.4	3.6	1.4	3.4	1.3
	-10	-10	4.4	1.6	4.1	1.5	3.9	1.4	3.7	1.3	3.6	1.3	3.4	1.2
	-9	-9	4.4	1.5	4.1	1.4	3.9	1.3	3.7	1.3	3.6	1.3	3.4	1.2
	-7	-8	4.4	1.5	4.1	1.4	3.9	1.3	3.7	1.3	3.6	1.2	3.4	1.1
	-5	-6	4.4	1.4	4.1	1.3	3.9	1.2	3.7	1.2	3.6	1.2	3.4	1.1
	-3	-4	4.4	1.3	4.1	1.2	3.9	1.1	3.7	1.1	3.6	1.1	3.4	1.0
	0	-1	4.4	1.2	4.1	1.1	3.9	1.1	3.7	1.0	3.6	1.0	3.4	0.9
	3	2	4.4	1.1	4.1	1.1	3.9	1.0	3.7	1.0	3.6	0.9	3.4	0.9
	5	4	4.4	1.1	4.1	1.0	3.9	1.0	3.7	0.9	3.6	0.9	3.4	0.9
	7	6	4.7	1.1	4.4	1.0	4.1	0.9	4.0	0.9	3.9	0.9	3.6	0.8
	9	8	4.7	1.0	4.5	1.0	4.2	0.9	4.1	0.9	3.9	0.8	3.7	0.8
11	10	4.7	1.0	4.5	0.9	4.2	0.9	4.1	0.8	3.9	0.8	3.7	0.8	
13	12	4.7	1.0	4.5	0.9	4.2	0.8	4.1	0.8	3.9	0.8	3.7	0.7	
15	14	4.7	0.9	4.5	0.9	4.2	0.8	4.1	0.8	3.9	0.8	3.7	0.7	

11. Capacity Tables – A2A

11-2. RD070PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB,°C)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	10	5.1	0.8	6.1	1.0	7.1	1.2	7.6	1.2	8.1	1.3	9.1	1.5	10.1	1.7
	12	5.1	0.8	6.1	1.0	7.1	1.2	7.6	1.3	8.1	1.4	9.1	1.6	10.0	1.8
	14	5.1	0.8	6.1	1.0	7.1	1.2	7.6	1.3	8.1	1.4	9.1	1.6	10.0	1.8
	16	5.1	0.8	6.1	1.0	7.1	1.2	7.6	1.3	8.1	1.4	9.1	1.6	10.0	1.9
	18	5.1	0.9	6.1	1.0	7.1	1.2	7.6	1.3	8.1	1.4	9.1	1.7	10.0	2.0
	20	5.1	0.9	6.1	1.1	7.1	1.3	7.6	1.4	8.0	1.6	9.1	1.8	10.0	2.2
	21	5.1	0.9	6.1	1.1	7.1	1.3	7.6	1.5	8.0	1.6	9.1	1.9	10.0	2.2
	23	5.1	0.9	6.1	1.2	7.1	1.4	7.6	1.6	8.0	1.7	9.0	2.1	9.9	2.4
	25	5.1	1.0	6.1	1.2	7.1	1.5	7.6	1.7	8.0	1.8	9.0	2.2	9.8	2.5
	27	5.1	1.0	6.1	1.3	7.1	1.6	7.5	1.8	8.0	2.0	9.0	2.4	9.6	2.6
	29	5.1	1.1	6.1	1.4	7.1	1.7	7.5	1.9	8.0	2.1	9.0	2.5	9.5	2.7
	31	5.1	1.2	6.1	1.5	7.1	1.9	7.5	2.0	8.0	2.3	9.0	2.7	9.3	2.8
	33	5.1	1.2	6.1	1.6	7.1	2.0	7.5	2.2	8.0	2.4	9.0	2.9	9.1	2.9
	35	5.1	1.3	6.0	1.7	7.0	2.1	7.5	2.3	8.0	2.6	8.8	3.0	9.0	3.0
	37	4.9	1.4	5.9	1.8	6.8	2.2	7.3	2.5	7.7	2.7	8.4	3.1	8.6	3.1
	39	4.8	1.5	5.7	1.9	6.7	2.4	7.1	2.7	7.6	2.9	8.1	3.2	8.3	3.2
42	4.8	1.6	5.7	2.0	6.7	2.5	7.1	2.8	7.6	3.1	8.0	3.3	8.1	3.3	
44	4.8	1.7	5.7	2.1	6.7	2.7	7.1	3.0	7.6	3.3	7.8	3.4	8.0	3.4	
46	4.8	1.8	5.7	2.3	6.7	2.8	7.1	3.1	7.6	3.5	7.7	3.5	7.9	3.5	
90%	10	4.6	0.7	5.5	0.9	6.4	1.0	6.9	1.1	7.3	1.2	8.2	1.4	9.1	1.5
	12	4.6	0.7	5.5	0.9	6.4	1.0	6.9	1.1	7.3	1.2	8.1	1.4	9.1	1.6
	14	4.6	0.7	5.5	0.9	6.4	1.1	6.9	1.1	7.3	1.2	8.1	1.4	9.1	1.6
	16	4.6	0.8	5.5	0.9	6.4	1.1	6.8	1.2	7.3	1.3	8.1	1.4	9.1	1.6
	18	4.6	0.8	5.5	0.9	6.4	1.1	6.8	1.2	7.2	1.3	8.1	1.5	9.1	1.7
	20	4.6	0.8	5.5	0.9	6.4	1.1	6.8	1.2	7.2	1.3	8.1	1.6	9.1	1.8
	21	4.6	0.8	5.5	1.0	6.4	1.1	6.8	1.3	7.2	1.4	8.1	1.6	9.1	1.9
	23	4.6	0.8	5.5	1.0	6.4	1.2	6.8	1.3	7.2	1.5	8.1	1.7	9.0	2.0
	25	4.6	0.8	5.5	1.1	6.4	1.3	6.8	1.4	7.2	1.6	8.1	1.9	9.0	2.2
	27	4.6	0.9	5.5	1.1	6.3	1.4	6.8	1.5	7.2	1.7	8.1	2.0	9.0	2.3
	29	4.6	1.0	5.5	1.2	6.3	1.5	6.8	1.6	7.2	1.8	8.1	2.1	9.0	2.5
	31	4.6	1.0	5.5	1.3	6.3	1.6	6.8	1.8	7.2	1.9	8.1	2.3	9.0	2.7
	33	4.6	1.1	5.4	1.4	6.3	1.7	6.8	1.9	7.2	2.1	8.1	2.4	9.0	2.9
	35	4.6	1.2	5.4	1.5	6.3	1.8	6.8	2.0	7.2	2.2	8.0	2.6	8.8	3.0
	37	4.4	1.2	5.3	1.6	6.1	1.9	6.6	2.1	7.0	2.3	7.8	2.8	8.4	3.1
	39	4.3	1.3	5.2	1.7	6.0	2.0	6.4	2.3	6.8	2.5	7.6	3.0	8.1	3.2
42	4.3	1.4	5.2	1.8	6.0	2.2	6.4	2.4	6.8	2.6	7.6	3.2	8.0	3.3	
44	4.3	1.4	5.2	1.9	6.0	2.3	6.4	2.5	6.8	2.8	7.6	3.3	7.8	3.4	
46	4.3	1.5	5.2	2.0	6.0	2.4	6.4	2.7	6.8	2.9	7.6	3.5	7.7	3.5	
80%	10	4.1	0.6	4.9	0.8	5.7	0.9	6.1	1.0	6.5	1.0	7.3	1.2	8.1	1.3
	12	4.1	0.6	4.9	0.8	5.7	0.9	6.1	1.0	6.5	1.1	7.3	1.2	8.1	1.4
	14	4.1	0.7	4.9	0.8	5.7	0.9	6.1	1.0	6.5	1.1	7.3	1.2	8.1	1.4
	16	4.1	0.7	4.9	0.8	5.7	0.9	6.1	1.0	6.5	1.1	7.3	1.3	8.1	1.4
	18	4.1	0.7	4.9	0.8	5.7	1.0	6.1	1.0	6.5	1.1	7.2	1.3	8.1	1.4
	20	4.1	0.7	4.9	0.8	5.7	1.0	6.1	1.1	6.5	1.1	7.2	1.3	8.0	1.5
	21	4.1	0.7	4.9	0.8	5.7	1.0	6.1	1.1	6.4	1.2	7.2	1.4	8.0	1.6
	23	4.1	0.7	4.9	0.9	5.7	1.0	6.0	1.1	6.4	1.2	7.2	1.5	8.0	1.7
	25	4.1	0.7	4.9	0.9	5.7	1.1	6.0	1.2	6.4	1.3	7.2	1.6	8.0	1.8
	27	4.1	0.8	4.9	1.0	5.6	1.2	6.0	1.3	6.4	1.4	7.2	1.7	8.0	2.0
	29	4.1	0.8	4.9	1.0	5.6	1.3	6.0	1.4	6.4	1.5	7.2	1.8	8.0	2.1
	31	4.1	0.9	4.8	1.1	5.6	1.3	6.0	1.5	6.4	1.6	7.2	1.9	8.0	2.2
	33	4.1	0.9	4.8	1.2	5.6	1.4	6.0	1.6	6.4	1.7	7.2	2.0	8.0	2.4
	35	4.1	1.0	4.8	1.2	5.6	1.5	6.0	1.7	6.4	1.8	7.2	2.2	8.0	2.5
	37	3.9	1.1	4.7	1.3	5.4	1.6	5.8	1.8	6.2	2.0	7.0	2.3	7.7	2.7
	39	3.8	1.1	4.6	1.4	5.3	1.7	5.7	1.9	6.1	2.1	6.8	2.5	7.6	2.9
42	3.8	1.2	4.6	1.5	5.3	1.8	5.7	2.0	6.1	2.2	6.8	2.6	7.6	3.1	
44	3.8	1.2	4.6	1.6	5.3	1.9	5.7	2.1	6.1	2.3	6.8	2.8	7.6	3.3	
46	3.8	1.3	4.6	1.6	5.3	2.0	5.7	2.2	6.1	2.4	6.8	2.9	7.6	3.4	

11. Capacity Tables – A2A

11-2. RD070PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB,°C)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	10	3.6	0.6	4.3	0.7	5.0	0.8	5.3	0.8	5.7	0.9	6.4	1.0	7.1	1.1
	12	3.6	0.6	4.3	0.7	5.0	0.8	5.3	0.8	5.7	0.9	6.4	1.0	7.1	1.2
	14	3.6	0.6	4.3	0.7	5.0	0.8	5.3	0.9	5.7	0.9	6.4	1.1	7.1	1.2
	16	3.6	0.6	4.3	0.7	5.0	0.8	5.3	0.9	5.7	0.9	6.3	1.1	7.0	1.2
	18	3.6	0.6	4.3	0.7	5.0	0.8	5.3	0.9	5.7	1.0	6.3	1.1	7.0	1.2
	20	3.6	0.6	4.3	0.7	5.0	0.8	5.3	0.9	5.6	1.0	6.3	1.1	7.0	1.3
	21	3.6	0.6	4.3	0.7	5.0	0.9	5.3	0.9	5.6	1.0	6.3	1.1	7.0	1.3
	23	3.6	0.6	4.3	0.7	4.9	0.9	5.3	1.0	5.6	1.0	6.3	1.2	7.0	1.4
	25	3.6	0.6	4.3	0.8	4.9	0.9	5.3	1.0	5.6	1.1	6.3	1.3	7.0	1.5
	27	3.6	0.7	4.3	0.8	4.9	1.0	5.3	1.1	5.6	1.2	6.3	1.4	7.0	1.6
	29	3.6	0.7	4.2	0.9	4.9	1.1	5.3	1.2	5.6	1.3	6.3	1.5	7.0	1.7
	31	3.6	0.8	4.2	0.9	4.9	1.1	5.3	1.2	5.6	1.3	6.3	1.6	7.0	1.8
	33	3.6	0.8	4.2	1.0	4.9	1.2	5.3	1.3	5.6	1.4	6.3	1.7	7.0	2.0
	35	3.5	0.8	4.2	1.0	4.9	1.3	5.3	1.4	5.6	1.5	6.3	1.8	7.0	2.1
	37	3.4	0.9	4.1	1.1	4.8	1.4	5.1	1.5	5.4	1.6	6.1	1.9	6.8	2.2
	39	3.4	0.9	4.0	1.2	4.7	1.4	5.0	1.6	5.3	1.7	6.0	2.0	6.6	2.4
42	3.4	1.0	4.0	1.2	4.7	1.5	5.0	1.7	5.3	1.8	6.0	2.1	6.6	2.5	
44	3.4	1.0	4.0	1.3	4.7	1.6	5.0	1.8	5.3	1.9	6.0	2.3	6.6	2.6	
46	3.4	1.1	4.0	1.4	4.7	1.7	5.0	1.9	5.3	2.0	6.0	2.4	6.6	2.8	
60%	10	3.1	0.5	3.7	0.6	4.3	0.7	4.6	0.7	4.9	0.8	5.5	0.9	6.0	1.0
	12	3.1	0.5	3.7	0.6	4.3	0.7	4.6	0.7	4.9	0.8	5.5	0.9	6.0	1.0
	14	3.1	0.5	3.7	0.6	4.3	0.7	4.6	0.7	4.9	0.8	5.4	0.9	6.0	1.0
	16	3.1	0.5	3.7	0.6	4.3	0.7	4.6	0.7	4.9	0.8	5.4	0.9	6.0	1.0
	18	3.1	0.5	3.7	0.6	4.3	0.7	4.5	0.8	4.8	0.8	5.4	0.9	6.0	1.0
	20	3.1	0.5	3.7	0.6	4.2	0.7	4.5	0.8	4.8	0.8	5.4	0.9	6.0	1.1
	21	3.1	0.5	3.7	0.6	4.2	0.7	4.5	0.8	4.8	0.8	5.4	0.9	6.0	1.1
	23	3.1	0.5	3.7	0.6	4.2	0.7	4.5	0.8	4.8	0.9	5.4	1.0	6.0	1.1
	25	3.1	0.5	3.6	0.6	4.2	0.8	4.5	0.8	4.8	0.9	5.4	1.1	6.0	1.2
	27	3.1	0.6	3.6	0.7	4.2	0.8	4.5	0.9	4.8	1.0	5.4	1.1	6.0	1.3
	29	3.1	0.6	3.6	0.7	4.2	0.9	4.5	0.9	4.8	1.0	5.4	1.2	6.0	1.4
	31	3.1	0.6	3.6	0.8	4.2	0.9	4.5	1.0	4.8	1.1	5.4	1.3	6.0	1.5
	33	3.0	0.7	3.6	0.8	4.2	1.0	4.5	1.1	4.8	1.2	5.4	1.4	6.0	1.6
	35	3.0	0.7	3.6	0.9	4.2	1.0	4.5	1.1	4.8	1.2	5.4	1.4	6.0	1.7
	37	2.9	0.8	3.5	0.9	4.1	1.1	4.4	1.2	4.7	1.3	5.2	1.5	5.8	1.8
	39	2.9	0.8	3.4	1.0	4.0	1.2	4.3	1.3	4.6	1.4	5.1	1.6	5.7	1.9
42	2.9	0.8	3.4	1.0	4.0	1.2	4.3	1.3	4.6	1.5	5.1	1.7	5.7	2.0	
44	2.9	0.9	3.4	1.1	4.0	1.3	4.3	1.4	4.6	1.5	5.1	1.8	5.7	2.1	
46	2.9	0.9	3.4	1.1	4.0	1.4	4.3	1.5	4.6	1.6	5.1	1.9	5.7	2.2	
50%	10	2.6	0.4	3.1	0.5	3.6	0.6	3.8	0.6	4.1	0.6	4.5	0.7	5.0	0.8
	12	2.6	0.4	3.1	0.5	3.6	0.6	3.8	0.6	4.0	0.6	4.5	0.7	5.0	0.8
	14	2.6	0.4	3.1	0.5	3.6	0.6	3.8	0.6	4.0	0.6	4.5	0.7	5.0	0.8
	16	2.6	0.4	3.1	0.5	3.6	0.6	3.8	0.6	4.0	0.7	4.5	0.7	5.0	0.8
	18	2.6	0.4	3.1	0.5	3.5	0.6	3.8	0.6	4.0	0.7	4.5	0.8	5.0	0.8
	20	2.6	0.4	3.1	0.5	3.5	0.6	3.8	0.6	4.0	0.7	4.5	0.8	5.0	0.9
	21	2.6	0.4	3.0	0.5	3.5	0.6	3.8	0.6	4.0	0.7	4.5	0.8	5.0	0.9
	23	2.6	0.5	3.0	0.5	3.5	0.6	3.8	0.7	4.0	0.7	4.5	0.8	5.0	0.9
	25	2.5	0.5	3.0	0.5	3.5	0.6	3.8	0.7	4.0	0.7	4.5	0.8	5.0	0.9
	27	2.5	0.5	3.0	0.6	3.5	0.7	3.8	0.7	4.0	0.8	4.5	0.9	5.0	1.0
	29	2.5	0.5	3.0	0.6	3.5	0.7	3.8	0.8	4.0	0.8	4.5	0.9	5.0	1.1
	31	2.5	0.5	3.0	0.6	3.5	0.7	3.8	0.8	4.0	0.9	4.5	1.0	5.0	1.1
	33	2.5	0.6	3.0	0.7	3.5	0.8	3.8	0.9	4.0	0.9	4.5	1.1	5.0	1.2
	35	2.5	0.6	3.0	0.7	3.5	0.8	3.8	0.9	4.0	1.0	4.5	1.1	5.0	1.3
	37	2.5	0.6	2.9	0.7	3.4	0.9	3.6	1.0	3.9	1.0	4.3	1.2	4.8	1.4
	39	2.4	0.7	2.9	0.8	3.3	0.9	3.6	1.0	3.8	1.1	4.3	1.3	4.7	1.5
42	2.4	0.7	2.9	0.8	3.3	1.0	3.6	1.1	3.8	1.2	4.3	1.3	4.7	1.5	
44	2.4	0.7	2.9	0.9	3.3	1.0	3.6	1.1	3.8	1.2	4.3	1.4	4.7	1.6	
46	2.4	0.8	2.9	0.9	3.3	1.1	3.6	1.2	3.8	1.3	4.3	1.5	4.7	1.7	

11. Capacity Tables – A2A

11-3. RD080PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (DB,°C)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-20	-20	7.7	3.4	7.7	3.5	7.5	3.6	7.7	3.6	7.7	3.6	7.7	3.7
	-19	-19	8.0	3.4	8.0	3.5	7.7	3.6	7.9	3.6	7.9	3.7	7.9	3.8
	-17	-17	8.4	3.5	8.4	3.6	8.2	3.7	8.4	3.7	8.4	3.8	8.4	3.8
	-15	-15	8.9	3.7	8.9	3.8	8.6	3.9	8.8	3.9	8.8	3.9	8.4	3.7
	-13	-13	9.3	3.8	9.3	3.8	9.1	3.9	9.3	3.9	9.0	3.8	8.4	3.4
	-11	-11	9.8	3.8	9.8	3.9	9.3	3.8	9.3	3.7	9.0	3.5	8.4	3.2
	-10	-10	10.0	3.7	10.0	3.8	9.3	3.6	9.3	3.4	9.0	3.3	8.4	3.0
	-9	-9	10.3	3.8	10.2	3.8	9.3	3.5	9.3	3.4	9.0	3.2	8.4	2.9
	-7	-8	10.7	3.8	10.2	3.6	9.3	3.3	9.3	3.2	9.0	3.1	8.4	2.8
	-5	-6	10.8	3.7	10.2	3.4	9.3	3.2	9.3	3.0	9.0	2.9	8.4	2.7
	-3	-4	10.8	3.3	10.2	3.1	9.3	2.9	9.3	2.8	9.0	2.6	8.4	2.4
	0	-1	10.8	3.1	10.2	2.9	9.3	2.7	9.3	2.6	9.0	2.5	8.4	2.3
	3	2	10.8	2.9	10.2	2.7	9.3	2.5	9.3	2.4	9.0	2.3	8.4	2.1
	5	4	10.8	2.8	10.2	2.6	9.3	2.4	9.3	2.3	9.0	2.2	8.4	2.0
	7	6	10.7	2.6	10.1	2.5	9.3	2.3	9.2	2.2	8.9	2.1	8.2	1.9
9	8	11.0	2.5	10.4	2.3	9.8	2.2	9.5	2.1	9.1	2.0	8.5	1.9	
11	10	11.0	2.4	10.4	2.3	9.8	2.1	9.5	2.0	9.1	1.9	8.5	1.8	
13	12	11.0	2.3	10.4	2.2	9.8	2.0	9.5	1.9	9.1	1.9	8.5	1.7	
15	14	11.0	2.2	10.4	2.1	9.8	2.0	9.5	1.9	9.1	1.8	8.5	1.7	
90%	-20	-20	7.1	3.5	7.1	3.6	7.1	3.7	7.1	3.7	7.1	3.8	6.9	3.8
	-19	-19	7.3	3.6	7.3	3.7	7.3	3.7	7.3	3.8	7.3	3.8	6.9	3.6
	-17	-17	7.7	3.7	7.7	3.7	7.7	3.8	7.7	3.8	7.4	3.7	6.9	3.4
	-15	-15	8.2	3.8	8.1	3.9	8.0	3.8	7.7	3.7	7.4	3.5	6.9	3.2
	-13	-13	8.6	3.9	8.5	3.9	8.0	3.6	7.7	3.4	7.4	3.3	6.9	3.0
	-11	-11	9.0	3.9	8.5	3.6	8.0	3.4	7.7	3.2	7.4	3.1	6.9	2.8
	-10	-10	9.0	3.7	8.5	3.4	8.0	3.1	7.7	3.0	7.4	2.9	6.9	2.6
	-9	-9	9.0	3.6	8.5	3.3	8.0	3.1	7.7	2.9	7.4	2.8	6.9	2.6
	-7	-8	9.0	3.4	8.5	3.2	8.0	2.9	7.7	2.8	7.4	2.7	6.9	2.5
	-5	-6	9.0	3.2	8.5	3.0	8.0	2.8	7.7	2.7	7.4	2.6	6.9	2.4
	-3	-4	9.0	2.9	8.5	2.7	8.0	2.5	7.7	2.4	7.4	2.3	6.9	2.1
	0	-1	9.0	2.7	8.5	2.5	8.0	2.3	7.7	2.3	7.4	2.2	6.9	2.0
	3	2	9.0	2.5	8.5	2.4	8.0	2.2	7.7	2.1	7.4	2.0	6.9	1.9
	5	4	9.0	2.4	8.5	2.3	8.0	2.1	7.7	2.0	7.4	2.0	6.9	1.8
	7	6	9.6	2.3	9.1	2.2	8.6	2.0	8.2	1.9	7.9	1.9	7.4	1.7
9	8	9.7	2.2	9.2	2.1	8.7	1.9	8.4	1.8	8.0	1.8	7.5	1.6	
11	10	9.7	2.1	9.2	2.0	8.7	1.9	8.4	1.8	8.0	1.7	7.5	1.6	
13	12	9.7	2.1	9.2	1.9	8.7	1.8	8.4	1.7	8.0	1.7	7.5	1.5	
15	14	9.7	2.0	9.2	1.9	8.7	1.7	8.4	1.7	8.0	1.6	7.5	1.5	
80%	-20	-20	7.1	3.7	7.1	3.8	7.1	3.8	6.8	3.7	6.6	3.5	6.2	3.2
	-19	-19	7.3	3.7	7.3	3.8	7.1	3.7	6.8	3.6	6.6	3.4	6.2	3.1
	-17	-17	7.7	3.8	7.5	3.7	7.1	3.4	6.8	3.3	6.6	3.2	6.2	2.9
	-15	-15	8.0	3.8	7.5	3.6	7.1	3.3	6.8	3.2	6.6	3.0	6.2	2.8
	-13	-13	8.0	3.6	7.5	3.3	7.1	3.1	6.8	3.0	6.6	2.8	6.2	2.6
	-11	-11	8.0	3.4	7.5	3.1	7.1	2.9	6.8	2.8	6.6	2.7	6.2	2.5
	-10	-10	8.0	3.2	7.5	2.9	7.1	2.7	6.8	2.6	6.6	2.5	6.2	2.3
	-9	-9	8.0	3.1	7.5	2.9	7.1	2.6	6.8	2.5	6.6	2.4	6.2	2.2
	-7	-8	8.0	2.9	7.5	2.7	7.1	2.5	6.8	2.4	6.6	2.3	6.2	2.2
	-5	-6	8.0	2.8	7.5	2.6	7.1	2.4	6.8	2.3	6.6	2.2	6.2	2.0
	-3	-4	8.0	2.5	7.5	2.4	7.1	2.2	6.8	2.1	6.6	2.0	6.2	1.9
	0	-1	8.0	2.4	7.5	2.2	7.1	2.0	6.8	2.0	6.6	1.9	6.2	1.7
	3	2	8.0	2.2	7.5	2.1	7.1	1.9	6.8	1.8	6.6	1.8	6.2	1.6
	5	4	8.0	2.1	7.5	2.0	7.1	1.8	6.8	1.8	6.6	1.7	6.2	1.6
	7	6	8.6	2.0	8.0	1.9	7.6	1.8	7.3	1.7	7.1	1.6	6.6	1.5
9	8	8.7	1.9	8.1	1.8	7.7	1.7	7.4	1.6	7.2	1.6	6.7	1.4	
11	10	8.7	1.9	8.1	1.7	7.7	1.6	7.4	1.6	7.2	1.5	6.7	1.4	
13	12	8.7	1.8	8.1	1.7	7.7	1.6	7.4	1.5	7.2	1.5	6.7	1.4	
15	14	8.7	1.7	8.1	1.6	7.7	1.5	7.4	1.5	7.2	1.4	6.7	1.3	

11. Capacity Tables – A2A

11-3. RD080PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (DB,°C)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-20	-20	7.0	3.8	6.6	3.5	6.2	3.3	6.0	3.1	5.8	3.0	5.4	2.7
	-19	-19	7.0	3.6	6.6	3.4	6.2	3.1	6.0	3.0	5.8	2.9	5.4	2.6
	-17	-17	7.0	3.4	6.6	3.1	6.2	2.9	6.0	2.8	5.8	2.7	5.4	2.5
	-15	-15	7.0	3.2	6.6	3.0	6.2	2.8	6.0	2.7	5.8	2.6	5.4	2.4
	-13	-13	7.0	3.0	6.6	2.8	6.2	2.6	6.0	2.5	5.8	2.4	5.4	2.2
	-11	-11	7.0	2.9	6.6	2.7	6.2	2.5	6.0	2.4	5.8	2.3	5.4	2.1
	-10	-10	7.0	2.7	6.6	2.5	6.2	2.3	6.0	2.2	5.8	2.1	5.4	2.0
	-9	-9	7.0	2.6	6.6	2.4	6.2	2.3	6.0	2.2	5.8	2.1	5.4	1.9
	-7	-8	7.0	2.5	6.6	2.3	6.2	2.2	6.0	2.1	5.8	2.0	5.4	1.9
	-5	-6	7.0	2.4	6.6	2.2	6.2	2.1	6.0	2.0	5.8	1.9	5.4	1.8
	-3	-4	7.0	2.2	6.6	2.0	6.2	1.9	6.0	1.8	5.8	1.7	5.4	1.6
	0	-1	7.0	2.0	6.6	1.9	6.2	1.7	6.0	1.7	5.8	1.6	5.4	1.5
	3	2	7.0	1.9	6.6	1.8	6.2	1.6	6.0	1.6	5.8	1.5	5.4	1.4
	5	4	7.0	1.8	6.6	1.7	6.2	1.6	6.0	1.5	5.8	1.5	5.4	1.4
	7	6	7.5	1.7	7.0	1.6	6.6	1.5	6.4	1.5	6.2	1.4	5.8	1.3
9	8	7.6	1.7	7.1	1.5	6.7	1.4	6.5	1.4	6.3	1.4	5.8	1.3	
11	10	7.6	1.6	7.1	1.5	6.7	1.4	6.5	1.4	6.3	1.3	5.8	1.2	
13	12	7.6	1.5	7.1	1.4	6.7	1.4	6.5	1.3	6.3	1.3	5.8	1.2	
15	14	7.6	1.5	7.1	1.4	6.7	1.3	6.5	1.3	6.3	1.2	5.8	1.1	
60%	-20	-20	6.0	3.1	5.6	2.9	5.3	2.7	5.1	2.6	5.0	2.5	4.6	2.3
	-19	-19	6.0	3.0	5.6	2.8	5.3	2.6	5.1	2.5	5.0	2.4	4.6	2.2
	-17	-17	6.0	2.8	5.6	2.6	5.3	2.4	5.1	2.3	5.0	2.2	4.6	2.1
	-15	-15	6.0	2.7	5.6	2.5	5.3	2.3	5.1	2.2	5.0	2.1	4.6	2.0
	-13	-13	6.0	2.5	5.6	2.3	5.3	2.2	5.1	2.1	5.0	2.0	4.6	1.9
	-11	-11	6.0	2.4	5.6	2.2	5.3	2.1	5.1	2.0	5.0	1.9	4.6	1.8
	-10	-10	6.0	2.2	5.6	2.1	5.3	1.9	5.1	1.9	5.0	1.8	4.6	1.7
	-9	-9	6.0	2.2	5.6	2.0	5.3	1.9	5.1	1.8	5.0	1.8	4.6	1.6
	-7	-8	6.0	2.1	5.6	1.9	5.3	1.8	5.1	1.8	5.0	1.7	4.6	1.6
	-5	-6	6.0	2.0	5.6	1.9	5.3	1.7	5.1	1.7	5.0	1.6	4.6	1.5
	-3	-4	6.0	1.8	5.6	1.7	5.3	1.6	5.1	1.5	5.0	1.5	4.6	1.4
	0	-1	6.0	1.7	5.6	1.6	5.3	1.5	5.1	1.4	5.0	1.4	4.6	1.3
	3	2	6.0	1.6	5.6	1.5	5.3	1.4	5.1	1.3	5.0	1.3	4.6	1.2
	5	4	6.0	1.5	5.6	1.4	5.3	1.3	5.1	1.3	5.0	1.3	4.6	1.2
	7	6	6.4	1.5	6.0	1.4	5.7	1.3	5.5	1.2	5.3	1.2	4.9	1.1
9	8	6.5	1.4	6.1	1.3	5.7	1.2	5.6	1.2	5.4	1.1	5.0	1.1	
11	10	6.5	1.4	6.1	1.3	5.7	1.2	5.6	1.2	5.4	1.1	5.0	1.0	
13	12	6.5	1.3	6.1	1.2	5.7	1.2	5.6	1.1	5.4	1.1	5.0	1.0	
15	14	6.5	1.3	6.1	1.2	5.7	1.1	5.6	1.1	5.4	1.0	5.0	1.0	
50%	-20	-20	5.0	2.5	4.7	2.3	4.4	2.2	4.3	2.1	4.1	2.0	3.9	1.8
	-19	-19	5.0	2.4	4.7	2.2	4.4	2.1	4.3	2.0	4.1	1.9	3.9	1.8
	-17	-17	5.0	2.2	4.7	2.1	4.4	1.9	4.3	1.9	4.1	1.8	3.9	1.7
	-15	-15	5.0	2.2	4.7	2.0	4.4	1.9	4.3	1.8	4.1	1.7	3.9	1.6
	-13	-13	5.0	2.0	4.7	1.9	4.4	1.8	4.3	1.7	4.1	1.6	3.9	1.5
	-11	-11	5.0	1.9	4.7	1.8	4.4	1.7	4.3	1.6	4.1	1.6	3.9	1.5
	-10	-10	5.0	1.8	4.7	1.7	4.4	1.6	4.3	1.5	4.1	1.5	3.9	1.4
	-9	-9	5.0	1.8	4.7	1.7	4.4	1.5	4.3	1.5	4.1	1.4	3.9	1.3
	-7	-8	5.0	1.7	4.7	1.6	4.4	1.5	4.3	1.4	4.1	1.4	3.9	1.3
	-5	-6	5.0	1.6	4.7	1.5	4.4	1.4	4.3	1.4	4.1	1.3	3.9	1.2
	-3	-4	5.0	1.5	4.7	1.4	4.4	1.3	4.3	1.3	4.1	1.2	3.9	1.1
	0	-1	5.0	1.4	4.7	1.3	4.4	1.2	4.3	1.2	4.1	1.1	3.9	1.1
	3	2	5.0	1.3	4.7	1.2	4.4	1.2	4.3	1.1	4.1	1.1	3.9	1.0
	5	4	5.0	1.3	4.7	1.2	4.4	1.1	4.3	1.1	4.1	1.0	3.9	1.0
	7	6	5.3	1.2	5.0	1.1	4.7	1.1	4.6	1.0	4.4	1.0	4.1	0.9
9	8	5.4	1.2	5.1	1.1	4.8	1.0	4.6	1.0	4.5	1.0	4.2	0.9	
11	10	5.4	1.1	5.1	1.1	4.8	1.0	4.6	1.0	4.5	0.9	4.2	0.9	
13	12	5.4	1.1	5.1	1.0	4.8	1.0	4.6	0.9	4.5	0.9	4.2	0.8	
15	14	5.4	1.1	5.1	1.0	4.8	0.9	4.6	0.9	4.5	0.9	4.2	0.8	

11. Capacity Tables – A2A

11-3. RD080PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB,°C)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	10	5.5	0.9	6.5	1.0	7.6	1.2	8.1	1.3	8.6	1.4	9.7	1.6	10.7	1.8
	12	5.5	0.9	6.5	1.1	7.6	1.3	8.1	1.4	8.6	1.5	9.7	1.7	10.7	1.9
	14	5.5	0.9	6.5	1.1	7.6	1.3	8.1	1.4	8.6	1.5	9.7	1.7	10.7	1.9
	16	5.5	0.9	6.5	1.1	7.6	1.3	8.1	1.4	8.6	1.5	9.7	1.7	10.7	2.0
	18	5.5	0.9	6.5	1.1	7.6	1.3	8.1	1.4	8.6	1.5	9.7	1.8	10.7	2.1
	20	5.5	0.9	6.5	1.1	7.6	1.4	8.1	1.5	8.6	1.7	9.7	2.0	10.7	2.3
	21	5.4	1.0	6.5	1.2	7.6	1.4	8.1	1.6	8.6	1.7	9.7	2.0	10.7	2.4
	23	5.4	1.0	6.5	1.2	7.6	1.5	8.1	1.7	8.6	1.8	9.6	2.2	10.6	2.5
	25	5.4	1.0	6.5	1.3	7.6	1.6	8.1	1.8	8.6	2.0	9.6	2.4	10.4	2.6
	27	5.4	1.1	6.5	1.4	7.5	1.7	8.0	1.9	8.6	2.1	9.6	2.5	10.3	2.8
	29	5.4	1.2	6.5	1.5	7.5	1.9	8.0	2.0	8.5	2.3	9.6	2.7	10.1	2.9
	31	5.4	1.3	6.5	1.6	7.5	2.0	8.0	2.2	8.5	2.4	9.6	2.9	10.0	3.0
	33	5.4	1.3	6.5	1.7	7.5	2.1	8.0	2.3	8.5	2.6	9.6	3.1	9.7	3.1
	35	5.4	1.4	6.4	1.8	7.5	2.3	8.0	2.5	8.5	2.7	9.4	3.2	9.6	3.2
	37	5.2	1.5	6.2	1.9	7.3	2.4	7.8	2.7	8.2	2.9	8.9	3.3	9.1	3.3
	39	5.1	1.6	6.1	2.0	7.1	2.6	7.6	2.8	8.1	3.1	8.6	3.4	8.8	3.4
42	5.1	1.7	6.1	2.2	7.1	2.7	7.6	3.0	8.1	3.3	8.5	3.5	8.7	3.5	
44	5.1	1.8	6.1	2.3	7.1	2.9	7.6	3.2	8.1	3.5	8.3	3.6	8.6	3.7	
46	5.1	1.9	6.1	2.4	7.1	3.0	7.6	3.4	8.1	3.7	8.2	3.7	8.4	3.8	
90%	10	4.9	0.8	5.9	0.9	6.8	1.1	7.3	1.2	7.8	1.3	8.7	1.4	9.7	1.6
	12	4.9	0.8	5.9	0.9	6.8	1.1	7.3	1.2	7.7	1.3	8.7	1.5	9.7	1.7
	14	4.9	0.8	5.9	1.0	6.8	1.1	7.3	1.2	7.7	1.3	8.7	1.5	9.7	1.7
	16	4.9	0.8	5.9	1.0	6.8	1.2	7.3	1.2	7.7	1.3	8.7	1.5	9.7	1.7
	18	4.9	0.8	5.9	1.0	6.8	1.2	7.3	1.3	7.7	1.4	8.7	1.6	9.7	1.8
	20	4.9	0.8	5.9	1.0	6.8	1.2	7.3	1.3	7.7	1.4	8.7	1.7	9.7	2.0
	21	4.9	0.8	5.8	1.0	6.8	1.2	7.3	1.3	7.7	1.5	8.6	1.7	9.7	2.0
	23	4.9	0.9	5.8	1.1	6.8	1.3	7.3	1.4	7.7	1.6	8.6	1.9	9.6	2.2
	25	4.9	0.9	5.8	1.1	6.8	1.4	7.3	1.5	7.7	1.7	8.6	2.0	9.6	2.3
	27	4.9	1.0	5.8	1.2	6.8	1.5	7.3	1.6	7.7	1.8	8.6	2.1	9.6	2.5
	29	4.9	1.0	5.8	1.3	6.8	1.6	7.3	1.8	7.7	1.9	8.6	2.3	9.6	2.7
	31	4.9	1.1	5.8	1.4	6.8	1.7	7.2	1.9	7.7	2.1	8.6	2.4	9.6	2.9
	33	4.9	1.2	5.8	1.5	6.7	1.8	7.2	2.0	7.7	2.2	8.6	2.6	9.6	3.1
	35	4.9	1.2	5.8	1.6	6.7	1.9	7.2	2.1	7.6	2.3	8.6	2.8	9.4	3.2
	37	4.7	1.3	5.6	1.7	6.5	2.1	7.0	2.3	7.4	2.5	8.3	3.0	8.9	3.3
	39	4.6	1.4	5.5	1.8	6.4	2.2	6.9	2.4	7.3	2.6	8.1	3.2	8.6	3.4
42	4.6	1.5	5.5	1.9	6.4	2.3	6.9	2.6	7.3	2.8	8.1	3.4	8.5	3.5	
44	4.6	1.5	5.5	2.0	6.4	2.4	6.9	2.7	7.3	3.0	8.1	3.6	8.3	3.6	
46	4.6	1.6	5.5	2.1	6.4	2.6	6.9	2.8	7.3	3.1	8.1	3.8	8.2	3.7	
80%	10	4.4	0.7	5.2	0.8	6.1	1.0	6.5	1.0	6.9	1.1	7.8	1.3	8.6	1.4
	12	4.4	0.7	5.2	0.8	6.1	1.0	6.5	1.1	6.9	1.1	7.7	1.3	8.6	1.5
	14	4.4	0.7	5.2	0.8	6.1	1.0	6.5	1.1	6.9	1.1	7.7	1.3	8.6	1.5
	16	4.4	0.7	5.2	0.9	6.1	1.0	6.5	1.1	6.9	1.2	7.7	1.3	8.6	1.5
	18	4.4	0.7	5.2	0.9	6.1	1.0	6.5	1.1	6.9	1.2	7.7	1.4	8.6	1.5
	20	4.4	0.7	5.2	0.9	6.0	1.1	6.5	1.1	6.9	1.2	7.7	1.4	8.6	1.6
	21	4.4	0.7	5.2	0.9	6.0	1.1	6.5	1.1	6.9	1.2	7.7	1.5	8.6	1.7
	23	4.4	0.8	5.2	0.9	6.0	1.1	6.5	1.2	6.9	1.3	7.7	1.6	8.6	1.8
	25	4.4	0.8	5.2	1.0	6.0	1.2	6.4	1.3	6.9	1.4	7.7	1.7	8.6	2.0
	27	4.3	0.8	5.2	1.0	6.0	1.3	6.4	1.4	6.9	1.5	7.7	1.8	8.6	2.1
	29	4.3	0.9	5.2	1.1	6.0	1.4	6.4	1.5	6.8	1.6	7.7	1.9	8.5	2.2
	31	4.3	0.9	5.2	1.2	6.0	1.4	6.4	1.6	6.8	1.7	7.7	2.0	8.5	2.4
	33	4.3	1.0	5.2	1.3	6.0	1.5	6.4	1.7	6.8	1.8	7.7	2.2	8.5	2.6
	35	4.3	1.1	5.2	1.3	6.0	1.6	6.4	1.8	6.8	2.0	7.6	2.3	8.5	2.7
	37	4.2	1.1	5.0	1.4	5.8	1.7	6.2	1.9	6.6	2.1	7.4	2.5	8.2	2.9
	39	4.1	1.2	4.9	1.5	5.7	1.8	6.1	2.0	6.5	2.2	7.3	2.6	8.1	3.1
42	4.1	1.3	4.9	1.6	5.7	1.9	6.1	2.2	6.5	2.4	7.3	2.8	8.1	3.3	
44	4.1	1.3	4.9	1.7	5.7	2.1	6.1	2.3	6.5	2.5	7.3	3.0	8.1	3.5	
46	4.1	1.4	4.9	1.8	5.7	2.2	6.1	2.4	6.5	2.6	7.3	3.1	8.1	3.7	

11. Capacity Tables – A2A

11-3. RD080PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB,°C)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	10	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.9	6.1	1.0	6.8	1.1	7.5	1.2
	12	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.9	6.0	1.0	6.8	1.1	7.5	1.2
	14	3.8	0.6	4.6	0.7	5.3	0.9	5.7	0.9	6.0	1.0	6.8	1.1	7.5	1.3
	16	3.8	0.6	4.6	0.7	5.3	0.9	5.7	0.9	6.0	1.0	6.8	1.1	7.5	1.3
	18	3.8	0.6	4.6	0.8	5.3	0.9	5.7	1.0	6.0	1.0	6.8	1.2	7.5	1.3
	20	3.8	0.6	4.6	0.8	5.3	0.9	5.7	1.0	6.0	1.1	6.8	1.2	7.5	1.4
	21	3.8	0.7	4.5	0.8	5.3	0.9	5.7	1.0	6.0	1.1	6.8	1.2	7.5	1.4
	23	3.8	0.7	4.5	0.8	5.3	0.9	5.6	1.0	6.0	1.1	6.7	1.3	7.5	1.5
	25	3.8	0.7	4.5	0.8	5.3	1.0	5.6	1.1	6.0	1.2	6.7	1.4	7.5	1.6
	27	3.8	0.7	4.5	0.9	5.3	1.1	5.6	1.2	6.0	1.3	6.7	1.5	7.5	1.7
	29	3.8	0.8	4.5	0.9	5.3	1.1	5.6	1.2	6.0	1.3	6.7	1.6	7.5	1.8
	31	3.8	0.8	4.5	1.0	5.3	1.2	5.6	1.3	6.0	1.4	6.7	1.7	7.5	2.0
	33	3.8	0.9	4.5	1.1	5.3	1.3	5.6	1.4	6.0	1.5	6.7	1.8	7.5	2.1
	35	3.8	0.9	4.5	1.1	5.2	1.4	5.6	1.5	6.0	1.6	6.7	1.9	7.4	2.2
	37	3.7	1.0	4.4	1.2	5.1	1.4	5.4	1.6	5.8	1.7	6.5	2.0	7.2	2.4
	39	3.6	1.0	4.3	1.3	5.0	1.5	5.3	1.7	5.7	1.8	6.4	2.2	7.1	2.5
42	3.6	1.1	4.3	1.3	5.0	1.6	5.3	1.8	5.7	1.9	6.4	2.3	7.1	2.7	
44	3.6	1.1	4.3	1.4	5.0	1.7	5.3	1.9	5.7	2.0	6.4	2.4	7.1	2.8	
46	3.6	1.2	4.3	1.5	5.0	1.8	5.3	2.0	5.7	2.2	6.4	2.6	7.1	3.0	
60%	10	3.3	0.5	3.9	0.6	4.6	0.7	4.9	0.8	5.2	0.8	5.8	0.9	6.5	1.0
	12	3.3	0.5	3.9	0.6	4.5	0.7	4.9	0.8	5.2	0.8	5.8	0.9	6.4	1.0
	14	3.3	0.5	3.9	0.6	4.5	0.7	4.9	0.8	5.2	0.8	5.8	1.0	6.4	1.1
	16	3.3	0.5	3.9	0.6	4.5	0.7	4.9	0.8	5.2	0.9	5.8	1.0	6.4	1.1
	18	3.3	0.6	3.9	0.7	4.5	0.8	4.9	0.8	5.2	0.9	5.8	1.0	6.4	1.1
	20	3.3	0.6	3.9	0.7	4.5	0.8	4.8	0.8	5.2	0.9	5.8	1.0	6.4	1.1
	21	3.3	0.6	3.9	0.7	4.5	0.8	4.8	0.8	5.2	0.9	5.8	1.0	6.4	1.1
	23	3.3	0.6	3.9	0.7	4.5	0.8	4.8	0.9	5.2	0.9	5.8	1.1	6.4	1.2
	25	3.3	0.6	3.9	0.7	4.5	0.8	4.8	0.9	5.2	1.0	5.8	1.1	6.4	1.3
	27	3.3	0.6	3.9	0.7	4.5	0.9	4.8	1.0	5.1	1.0	5.8	1.2	6.4	1.4
	29	3.3	0.6	3.9	0.8	4.5	0.9	4.8	1.0	5.1	1.1	5.8	1.3	6.4	1.5
	31	3.3	0.7	3.9	0.8	4.5	1.0	4.8	1.1	5.1	1.2	5.8	1.4	6.4	1.6
	33	3.3	0.7	3.9	0.9	4.5	1.1	4.8	1.1	5.1	1.2	5.8	1.4	6.4	1.7
	35	3.2	0.8	3.9	0.9	4.5	1.1	4.8	1.2	5.1	1.3	5.7	1.5	6.4	1.8
	37	3.1	0.8	3.7	1.0	4.4	1.2	4.7	1.3	5.0	1.4	5.6	1.6	6.2	1.9
	39	3.1	0.9	3.7	1.0	4.3	1.3	4.6	1.4	4.9	1.5	5.4	1.7	6.0	2.0
42	3.1	0.9	3.7	1.1	4.3	1.3	4.6	1.4	4.9	1.6	5.4	1.8	6.0	2.1	
44	3.1	0.9	3.7	1.2	4.3	1.4	4.6	1.5	4.9	1.7	5.4	1.9	6.0	2.3	
46	3.1	1.0	3.7	1.2	4.3	1.5	4.6	1.6	4.9	1.7	5.4	2.0	6.0	2.4	
50%	10	2.7	0.4	3.3	0.5	3.8	0.6	4.1	0.6	4.3	0.7	4.9	0.8	5.4	0.8
	12	2.7	0.5	3.3	0.5	3.8	0.6	4.1	0.6	4.3	0.7	4.8	0.8	5.4	0.9
	14	2.7	0.5	3.3	0.5	3.8	0.6	4.1	0.7	4.3	0.7	4.8	0.8	5.4	0.9
	16	2.7	0.5	3.3	0.5	3.8	0.6	4.0	0.7	4.3	0.7	4.8	0.8	5.4	0.9
	18	2.7	0.5	3.3	0.5	3.8	0.6	4.0	0.7	4.3	0.7	4.8	0.8	5.4	0.9
	20	2.7	0.5	3.3	0.6	3.8	0.6	4.0	0.7	4.3	0.7	4.8	0.8	5.4	0.9
	21	2.7	0.5	3.3	0.6	3.8	0.6	4.0	0.7	4.3	0.7	4.8	0.8	5.3	0.9
	23	2.7	0.5	3.2	0.6	3.8	0.7	4.0	0.7	4.3	0.8	4.8	0.8	5.3	1.0
	25	2.7	0.5	3.2	0.6	3.8	0.7	4.0	0.7	4.3	0.8	4.8	0.9	5.3	1.0
	27	2.7	0.5	3.2	0.6	3.8	0.7	4.0	0.8	4.3	0.8	4.8	0.9	5.3	1.1
	29	2.7	0.5	3.2	0.6	3.8	0.8	4.0	0.8	4.3	0.9	4.8	1.0	5.3	1.1
	31	2.7	0.6	3.2	0.7	3.8	0.8	4.0	0.9	4.3	0.9	4.8	1.1	5.3	1.2
	33	2.7	0.6	3.2	0.7	3.8	0.8	4.0	0.9	4.3	1.0	4.8	1.1	5.3	1.3
	35	2.7	0.6	3.2	0.8	3.7	0.9	4.0	1.0	4.3	1.0	4.8	1.2	5.3	1.4
	37	2.6	0.7	3.1	0.8	3.6	0.9	3.9	1.0	4.1	1.1	4.6	1.3	5.1	1.5
	39	2.6	0.7	3.1	0.8	3.6	1.0	3.8	1.1	4.0	1.2	4.5	1.4	5.0	1.6
42	2.6	0.7	3.1	0.9	3.6	1.1	3.8	1.1	4.0	1.2	4.5	1.4	5.0	1.7	
44	2.6	0.8	3.1	0.9	3.6	1.1	3.8	1.2	4.0	1.3	4.5	1.5	5.0	1.7	
46	2.6	0.8	3.1	1.0	3.6	1.2	3.8	1.3	4.0	1.4	4.5	1.6	5.0	1.8	

11. Capacity Tables – A2A

11-4. RD110PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	10.4	4.5	10.3	4.7	10.3	4.8	10.3	4.9	10.3	4.9	10.3	5.0
	-19	-19	10.7	4.6	10.7	4.7	10.6	4.9	10.6	4.9	10.6	5.0	10.6	5.1
	-17	-17	11.3	4.7	11.3	4.9	11.2	5.0	11.2	5.0	11.2	5.1	11.2	5.2
	-15	-15	11.9	5.0	11.9	5.1	11.9	5.2	11.8	5.3	11.8	5.3	11.2	5.0
	-13	-13	12.6	5.1	12.6	5.2	12.3	5.3	12.5	5.3	12.1	5.1	11.2	4.6
	-11	-11	13.2	5.2	13.2	5.3	12.5	5.2	12.5	5.0	12.1	4.8	11.2	4.3
	-10	-10	13.5	5.0	13.5	5.1	12.5	4.8	12.5	4.6	12.1	4.4	11.2	4.1
	-9	-9	13.8	5.1	13.7	5.1	12.5	4.7	12.5	4.5	12.1	4.3	11.2	4.0
	-7	-8	14.3	5.1	13.7	4.9	12.5	4.5	12.5	4.3	12.1	4.1	11.2	3.8
	-5	-6	14.5	5.0	13.7	4.6	12.5	4.3	12.5	4.1	12.1	3.9	11.2	3.6
	-3	-4	14.5	4.5	13.7	4.2	12.5	3.9	12.5	3.7	12.1	3.6	11.2	3.3
	0	-1	14.5	4.2	13.7	3.9	12.5	3.6	12.5	3.5	12.1	3.3	11.2	3.0
	3	2	14.5	3.9	13.7	3.6	12.5	3.4	12.5	3.2	12.1	3.1	11.2	2.9
	5	4	14.5	3.7	13.7	3.5	12.5	3.2	12.5	3.1	12.1	3.0	11.2	2.7
	7	6	14.5	3.6	13.7	3.3	12.5	3.1	12.5	3.0	12.1	2.8	11.2	2.6
9	8	14.5	3.4	13.7	3.2	12.8	2.9	12.5	2.8	12.1	2.7	11.2	2.5	
11	10	14.5	3.3	13.7	3.0	12.8	2.8	12.5	2.7	12.1	2.6	11.2	2.4	
13	12	14.5	3.1	13.7	2.9	12.8	2.7	12.5	2.6	12.1	2.5	11.2	2.3	
15	14	14.5	3.0	13.7	2.8	12.8	2.6	12.5	2.5	12.1	2.4	11.2	2.2	
90%	-20	-20	10.3	5.3	10.3	5.4	10.3	5.5	10.3	5.6	10.3	5.6	10.1	5.6
	-19	-19	10.6	5.3	10.6	5.4	10.6	5.6	10.6	5.6	10.6	5.7	10.1	5.4
	-17	-17	11.2	5.4	11.2	5.6	11.2	5.7	11.2	5.7	10.8	5.5	10.1	5.0
	-15	-15	11.9	5.7	11.8	5.8	11.6	5.7	11.2	5.5	10.8	5.2	10.1	4.8
	-13	-13	12.6	5.8	12.4	5.8	11.6	5.3	11.2	5.1	10.8	4.9	10.1	4.5
	-11	-11	13.1	5.9	12.4	5.4	11.6	5.0	11.2	4.8	10.8	4.6	10.1	4.2
	-10	-10	13.1	5.5	12.4	5.1	11.6	4.7	11.2	4.5	10.8	4.3	10.1	3.9
	-9	-9	13.1	5.3	12.4	4.9	11.6	4.6	11.2	4.4	10.8	4.2	10.1	3.9
	-7	-8	13.1	5.1	12.4	4.7	11.6	4.4	11.2	4.2	10.8	4.0	10.1	3.7
	-5	-6	13.1	4.8	12.4	4.5	11.6	4.1	11.2	4.0	10.8	3.8	10.1	3.5
	-3	-4	13.1	4.4	12.4	4.0	11.6	3.8	11.2	3.6	10.8	3.5	10.1	3.2
	0	-1	13.1	4.0	12.4	3.8	11.6	3.5	11.2	3.4	10.8	3.2	10.1	3.0
	3	2	13.1	3.8	12.4	3.5	11.6	3.3	11.2	3.1	10.8	3.0	10.1	2.8
	5	4	13.1	3.6	12.4	3.4	11.6	3.1	11.2	3.0	10.8	2.9	10.1	2.7
	7	6	13.1	3.5	12.4	3.2	11.6	3.0	11.2	2.9	10.8	2.8	10.1	2.6
9	8	13.1	3.3	12.4	3.1	11.6	2.9	11.2	2.7	10.8	2.7	10.1	2.4	
11	10	13.1	3.2	12.4	3.0	11.6	2.8	11.2	2.7	10.8	2.6	10.1	2.4	
13	12	13.1	3.1	12.4	2.9	11.6	2.7	11.2	2.6	10.8	2.5	10.1	2.3	
15	14	13.1	3.0	12.4	2.8	11.6	2.6	11.2	2.5	10.8	2.4	10.1	2.2	
80%	-20	-20	10.3	5.5	10.3	5.6	10.3	5.7	10.0	5.5	9.6	5.3	9.0	4.8
	-19	-19	10.6	5.6	10.6	5.7	10.3	5.5	10.0	5.3	9.6	5.1	9.0	4.6
	-17	-17	11.2	5.7	10.9	5.6	10.3	5.1	10.0	4.9	9.6	4.7	9.0	4.3
	-15	-15	11.6	5.7	10.9	5.3	10.3	4.9	10.0	4.7	9.6	4.5	9.0	4.1
	-13	-13	11.6	5.4	10.9	5.0	10.3	4.6	10.0	4.4	9.6	4.2	9.0	3.9
	-11	-11	11.6	5.0	10.9	4.7	10.3	4.3	10.0	4.2	9.6	4.0	9.0	3.7
	-10	-10	11.6	4.7	10.9	4.4	10.3	4.0	10.0	3.9	9.6	3.7	9.0	3.4
	-9	-9	11.6	4.6	10.9	4.3	10.3	3.9	10.0	3.8	9.6	3.6	9.0	3.3
	-7	-8	11.6	4.4	10.9	4.1	10.3	3.8	10.0	3.6	9.6	3.5	9.0	3.2
	-5	-6	11.6	4.2	10.9	3.9	10.3	3.6	10.0	3.5	9.6	3.3	9.0	3.1
	-3	-4	11.6	3.8	10.9	3.5	10.3	3.3	10.0	3.1	9.6	3.0	9.0	2.8
	0	-1	11.6	3.5	10.9	3.3	10.3	3.0	10.0	2.9	9.6	2.8	9.0	2.6
	3	2	11.6	3.3	10.9	3.1	10.3	2.9	10.0	2.7	9.6	2.6	9.0	2.4
	5	4	11.6	3.2	10.9	2.9	10.3	2.7	10.0	2.6	9.6	2.5	9.0	2.4
	7	6	11.6	3.0	10.9	2.8	10.3	2.6	10.0	2.5	9.6	2.4	9.0	2.3
9	8	11.6	2.9	10.9	2.7	10.3	2.5	10.0	2.4	9.6	2.3	9.0	2.2	
11	10	11.6	2.8	10.9	2.6	10.3	2.4	10.0	2.3	9.6	2.2	9.0	2.1	
13	12	11.6	2.7	10.9	2.5	10.3	2.3	10.0	2.2	9.6	2.2	9.0	2.0	
15	14	11.6	2.6	10.9	2.4	10.3	2.3	10.0	2.2	9.6	2.1	9.0	2.0	

11. Capacity Tables – A2A

11-4. RD110PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-20	-20	10.2	5.7	9.6	5.2	9.0	4.8	8.7	4.7	8.4	4.5	7.9	4.1
	-19	-19	10.2	5.4	9.6	5.0	9.0	4.7	8.7	4.5	8.4	4.3	7.9	3.9
	-17	-17	10.2	5.0	9.6	4.7	9.0	4.3	8.7	4.2	8.4	4.0	7.9	3.7
	-15	-15	10.2	4.8	9.6	4.5	9.0	4.2	8.7	4.0	8.4	3.8	7.9	3.5
	-13	-13	10.2	4.5	9.6	4.2	9.0	3.9	8.7	3.8	8.4	3.6	7.9	3.3
	-11	-11	10.2	4.3	9.6	4.0	9.0	3.7	8.7	3.5	8.4	3.4	7.9	3.1
	-10	-10	10.2	4.0	9.6	3.7	9.0	3.4	8.7	3.3	8.4	3.2	7.9	2.9
	-9	-9	10.2	3.9	9.6	3.6	9.0	3.4	8.7	3.2	8.4	3.1	7.9	2.9
	-7	-8	10.2	3.7	9.6	3.5	9.0	3.2	8.7	3.1	8.4	3.0	7.9	2.8
	-5	-6	10.2	3.5	9.6	3.3	9.0	3.1	8.7	3.0	8.4	2.8	7.9	2.6
	-3	-4	10.2	3.2	9.6	3.0	9.0	2.8	8.7	2.7	8.4	2.6	7.9	2.4
	0	-1	10.2	3.0	9.6	2.8	9.0	2.6	8.7	2.5	8.4	2.4	7.9	2.2
	3	2	10.2	2.8	9.6	2.6	9.0	2.5	8.7	2.4	8.4	2.3	7.9	2.1
	5	4	10.2	2.7	9.6	2.5	9.0	2.4	8.7	2.3	8.4	2.2	7.9	2.0
	7	6	10.2	2.6	9.6	2.4	9.0	2.3	8.7	2.2	8.4	2.1	7.9	1.9
	9	8	10.2	2.5	9.6	2.3	9.0	2.2	8.7	2.1	8.4	2.0	7.9	1.9
11	10	10.2	2.4	9.6	2.2	9.0	2.1	8.7	2.0	8.4	1.9	7.9	1.8	
13	12	10.2	2.3	9.6	2.2	9.0	2.0	8.7	2.0	8.4	1.9	7.9	1.7	
15	14	10.2	2.2	9.6	2.1	9.0	2.0	8.7	1.9	8.4	1.8	7.9	1.7	
60%	-20	-20	8.7	4.7	8.2	4.3	7.7	4.0	7.5	3.8	7.2	3.7	6.7	3.4
	-19	-19	8.7	4.5	8.2	4.2	7.7	3.9	7.5	3.7	7.2	3.6	6.7	3.3
	-17	-17	8.7	4.2	8.2	3.9	7.7	3.6	7.5	3.5	7.2	3.3	6.7	3.1
	-15	-15	8.7	4.0	8.2	3.7	7.7	3.5	7.5	3.3	7.2	3.2	6.7	2.9
	-13	-13	8.7	3.7	8.2	3.5	7.7	3.3	7.5	3.1	7.2	3.0	6.7	2.8
	-11	-11	8.7	3.5	8.2	3.3	7.7	3.1	7.5	3.0	7.2	2.9	6.7	2.6
	-10	-10	8.7	3.3	8.2	3.1	7.7	2.9	7.5	2.8	7.2	2.7	6.7	2.5
	-9	-9	8.7	3.2	8.2	3.0	7.7	2.8	7.5	2.7	7.2	2.6	6.7	2.4
	-7	-8	8.7	3.1	8.2	2.9	7.7	2.7	7.5	2.6	7.2	2.5	6.7	2.3
	-5	-6	8.7	3.0	8.2	2.8	7.7	2.6	7.5	2.5	7.2	2.4	6.7	2.2
	-3	-4	8.7	2.7	8.2	2.5	7.7	2.3	7.5	2.3	7.2	2.2	6.7	2.0
	0	-1	8.7	2.5	8.2	2.4	7.7	2.2	7.5	2.1	7.2	2.0	6.7	1.9
	3	2	8.7	2.4	8.2	2.2	7.7	2.1	7.5	2.0	7.2	1.9	6.7	1.8
	5	4	8.7	2.3	8.2	2.1	7.7	2.0	7.5	1.9	7.2	1.9	6.7	1.7
	7	6	8.7	2.2	8.2	2.0	7.7	1.9	7.5	1.9	7.2	1.8	6.7	1.7
	9	8	8.7	2.1	8.2	2.0	7.7	1.8	7.5	1.8	7.2	1.7	6.7	1.6
11	10	8.7	2.0	8.2	1.9	7.7	1.8	7.5	1.7	7.2	1.7	6.7	1.5	
13	12	8.7	2.0	8.2	1.8	7.7	1.7	7.5	1.7	7.2	1.6	6.7	1.5	
15	14	8.7	1.9	8.2	1.8	7.7	1.7	7.5	1.6	7.2	1.6	6.7	1.5	
50%	-20	-20	7.3	3.7	6.8	3.5	6.4	3.2	6.2	3.1	6.0	3.0	5.6	2.8
	-19	-19	7.3	3.6	6.8	3.3	6.4	3.1	6.2	3.0	6.0	2.9	5.6	2.7
	-17	-17	7.3	3.3	6.8	3.1	6.4	2.9	6.2	2.8	6.0	2.7	5.6	2.5
	-15	-15	7.3	3.2	6.8	3.0	6.4	2.8	6.2	2.7	6.0	2.6	5.6	2.4
	-13	-13	7.3	3.0	6.8	2.8	6.4	2.6	6.2	2.5	6.0	2.5	5.6	2.3
	-11	-11	7.3	2.9	6.8	2.7	6.4	2.5	6.2	2.4	6.0	2.3	5.6	2.2
	-10	-10	7.3	2.7	6.8	2.5	6.4	2.3	6.2	2.3	6.0	2.2	5.6	2.0
	-9	-9	7.3	2.6	6.8	2.5	6.4	2.3	6.2	2.2	6.0	2.1	5.6	2.0
	-7	-8	7.3	2.5	6.8	2.4	6.4	2.2	6.2	2.1	6.0	2.1	5.6	1.9
	-5	-6	7.3	2.4	6.8	2.3	6.4	2.1	6.2	2.0	6.0	2.0	5.6	1.8
	-3	-4	7.3	2.2	6.8	2.1	6.4	1.9	6.2	1.9	6.0	1.8	5.6	1.7
	0	-1	7.3	2.1	6.8	1.9	6.4	1.8	6.2	1.8	6.0	1.7	5.6	1.6
	3	2	7.3	1.9	6.8	1.8	6.4	1.7	6.2	1.7	6.0	1.6	5.6	1.5
	5	4	7.3	1.9	6.8	1.8	6.4	1.7	6.2	1.6	6.0	1.6	5.6	1.5
	7	6	7.3	1.8	6.8	1.7	6.4	1.6	6.2	1.5	6.0	1.5	5.6	1.4
	9	8	7.3	1.7	6.8	1.6	6.4	1.5	6.2	1.5	6.0	1.4	5.6	1.3
11	10	7.3	1.7	6.8	1.6	6.4	1.5	6.2	1.4	6.0	1.4	5.6	1.3	
13	12	7.3	1.6	6.8	1.5	6.4	1.4	6.2	1.4	6.0	1.3	5.6	1.3	
15	14	7.3	1.6	6.8	1.5	6.4	1.4	6.2	1.4	6.0	1.3	5.6	1.2	

11. Capacity Tables – A2A

11-4. RD110PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	10	7.7	1.0	9.2	1.3	10.7	1.5	11.4	1.6	12.1	1.7	13.6	2.0	15.0	2.2
	12	7.7	1.1	9.1	1.3	10.6	1.5	11.4	1.6	12.1	1.8	13.6	2.0	15.0	2.3
	14	7.7	1.1	9.1	1.3	10.6	1.5	11.3	1.7	12.1	1.8	13.6	2.0	15.0	2.3
	16	7.7	1.1	9.1	1.3	10.6	1.6	11.3	1.7	12.0	1.8	13.6	2.1	15.0	2.4
	18	7.6	1.1	9.1	1.3	10.6	1.6	11.3	1.7	12.0	1.9	13.5	2.2	15.0	2.6
	20	7.6	1.1	9.1	1.4	10.6	1.7	11.3	1.8	12.0	2.0	13.5	2.4	14.9	2.8
	21	7.6	1.1	9.1	1.4	10.6	1.7	11.3	1.9	12.0	2.1	13.5	2.5	14.9	2.9
	23	7.6	1.2	9.1	1.5	10.6	1.8	11.3	2.0	12.0	2.2	13.5	2.6	14.8	3.1
	25	7.6	1.2	9.1	1.6	10.6	2.0	11.3	2.2	12.0	2.4	13.5	2.8	14.6	3.2
	27	7.6	1.3	9.1	1.7	10.6	2.1	11.3	2.3	12.0	2.5	13.5	3.0	14.4	3.3
	29	7.6	1.4	9.1	1.8	10.6	2.2	11.3	2.5	12.0	2.7	13.5	3.2	14.2	3.4
	31	7.6	1.5	9.1	1.9	10.5	2.4	11.2	2.6	11.9	2.9	13.5	3.5	14.0	3.6
	33	7.6	1.6	9.0	2.0	10.5	2.5	11.2	2.8	11.9	3.1	13.4	3.7	13.6	3.7
	35	7.6	1.7	9.0	2.2	10.5	2.7	11.2	3.0	11.9	3.3	13.2	3.8	13.4	3.9
	37	7.3	1.8	8.7	2.3	10.2	2.9	10.9	3.2	11.5	3.5	12.5	4.0	12.8	4.0
	39	7.2	1.9	8.6	2.5	10.0	3.1	10.6	3.4	11.3	3.8	12.1	4.1	12.4	4.1
	42	5.5	1.4	6.5	1.8	7.6	2.3	11.2	3.6	8.6	2.8	9.0	2.9	9.2	3.0
44	5.5	1.5	6.5	1.9	7.6	2.4	11.2	3.8	8.6	2.9	8.9	3.0	9.1	3.1	
46	7.6	2.5	9.0	3.2	10.5	4.0	11.2	4.4	11.9	4.8	12.1	4.9	12.4	5.0	
90%	10	6.9	0.9	8.2	1.1	9.6	1.3	10.3	1.4	10.9	1.5	12.2	1.7	13.6	2.0
	12	6.9	0.9	8.2	1.1	9.6	1.3	10.2	1.4	10.8	1.6	12.2	1.8	13.6	2.0
	14	6.9	1.0	8.2	1.2	9.5	1.4	10.2	1.5	10.8	1.6	12.2	1.8	13.6	2.0
	16	6.9	1.0	8.2	1.2	9.5	1.4	10.2	1.5	10.8	1.6	12.1	1.8	13.6	2.1
	18	6.9	1.0	8.2	1.2	9.5	1.4	10.2	1.5	10.8	1.7	12.1	1.9	13.5	2.2
	20	6.9	1.0	8.2	1.2	9.5	1.4	10.2	1.6	10.8	1.7	12.1	2.0	13.5	2.4
	21	6.9	1.0	8.2	1.2	9.5	1.5	10.2	1.6	10.8	1.8	12.1	2.1	13.5	2.4
	23	6.9	1.0	8.2	1.3	9.5	1.6	10.2	1.7	10.8	1.9	12.1	2.2	13.5	2.6
	25	6.8	1.1	8.2	1.4	9.5	1.7	10.2	1.9	10.8	2.0	12.1	2.4	13.5	2.8
	27	6.8	1.2	8.2	1.5	9.5	1.8	10.2	2.0	10.8	2.2	12.1	2.6	13.5	3.0
	29	6.8	1.2	8.2	1.6	9.5	1.9	10.2	2.1	10.8	2.3	12.1	2.8	13.5	3.2
	31	6.8	1.3	8.1	1.7	9.5	2.0	10.1	2.3	10.7	2.5	12.0	2.9	13.5	3.5
	33	6.8	1.4	8.1	1.8	9.4	2.2	10.1	2.4	10.7	2.6	12.0	3.1	13.4	3.7
	35	6.8	1.5	8.1	1.9	9.4	2.3	10.1	2.6	10.7	2.8	12.0	3.4	13.2	3.8
	37	6.6	1.6	7.9	2.0	9.1	2.5	9.8	2.7	10.4	3.0	11.6	3.6	12.5	4.0
	39	6.5	1.7	7.7	2.1	8.9	2.6	9.6	2.9	10.2	3.2	11.4	3.8	12.1	4.1
	42	6.5	1.8	7.7	2.3	8.9	2.8	9.6	3.1	10.2	3.4	11.4	4.1	11.9	4.2
44	6.5	1.9	7.7	2.4	8.9	2.9	9.6	3.3	10.2	3.6	11.4	4.3	11.7	4.4	
46	6.8	2.1	8.1	2.7	9.4	3.4	10.1	3.7	10.7	4.1	12.0	4.9	12.1	4.9	
80%	10	6.1	0.8	7.3	1.0	8.5	1.2	9.1	1.2	9.7	1.3	10.9	1.5	12.1	1.7
	12	6.1	0.8	7.3	1.0	8.5	1.2	9.1	1.3	9.7	1.4	10.8	1.6	12.1	1.8
	14	6.1	0.8	7.3	1.0	8.5	1.2	9.1	1.3	9.7	1.4	10.8	1.6	12.1	1.8
	16	6.1	0.9	7.3	1.0	8.5	1.2	9.1	1.3	9.7	1.4	10.8	1.6	12.0	1.8
	18	6.1	0.9	7.3	1.1	8.5	1.2	9.1	1.3	9.6	1.4	10.8	1.6	12.0	1.9
	20	6.1	0.9	7.3	1.1	8.5	1.3	9.0	1.4	9.6	1.5	10.8	1.7	12.0	2.0
	21	6.1	0.9	7.3	1.1	8.5	1.3	9.0	1.4	9.6	1.5	10.8	1.8	12.0	2.1
	23	6.1	0.9	7.3	1.1	8.4	1.3	9.0	1.5	9.6	1.6	10.8	1.9	12.0	2.2
	25	6.1	0.9	7.3	1.2	8.4	1.4	9.0	1.6	9.6	1.7	10.8	2.0	12.0	2.4
	27	6.1	1.0	7.3	1.3	8.4	1.5	9.0	1.7	9.6	1.8	10.8	2.2	12.0	2.5
	29	6.1	1.1	7.2	1.3	8.4	1.6	9.0	1.8	9.6	2.0	10.8	2.3	12.0	2.7
	31	6.1	1.1	7.2	1.4	8.4	1.7	9.0	1.9	9.6	2.1	10.7	2.5	11.9	2.9
	33	6.1	1.2	7.2	1.5	8.4	1.8	9.0	2.0	9.6	2.2	10.7	2.6	11.9	3.1
	35	6.1	1.3	7.2	1.6	8.4	2.0	9.0	2.2	9.5	2.4	10.7	2.8	11.9	3.3
	37	5.9	1.4	7.0	1.7	8.1	2.1	8.7	2.3	9.3	2.5	10.4	3.0	11.5	3.5
	39	5.7	1.4	6.8	1.8	8.0	2.2	8.5	2.4	9.1	2.7	10.2	3.2	11.3	3.7
	42	5.7	1.5	6.8	1.9	8.0	2.3	8.5	2.6	9.1	2.8	10.2	3.4	11.3	4.0
44	5.7	1.6	6.8	2.0	8.0	2.5	8.5	2.7	9.1	3.0	10.2	3.6	11.3	4.2	
46	6.1	1.8	7.2	2.3	8.4	2.8	9.0	3.2	9.5	3.4	10.7	4.1	11.9	4.8	

11. Capacity Tables – A2A

11-4. RD110PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	10	5.4	0.7	6.4	0.9	7.4	1.0	8.0	1.1	8.5	1.2	9.5	1.3	10.6	1.5
	12	5.4	0.7	6.4	0.9	7.4	1.0	7.9	1.1	8.5	1.2	9.5	1.3	10.5	1.5
	14	5.4	0.7	6.4	0.9	7.4	1.0	7.9	1.1	8.5	1.2	9.5	1.4	10.5	1.5
	16	5.4	0.8	6.4	0.9	7.4	1.1	7.9	1.1	8.5	1.2	9.5	1.4	10.5	1.6
	18	5.3	0.8	6.4	0.9	7.4	1.1	7.9	1.2	8.4	1.2	9.5	1.4	10.5	1.6
	20	5.3	0.8	6.4	0.9	7.4	1.1	7.9	1.2	8.4	1.3	9.5	1.4	10.5	1.6
	21	5.3	0.8	6.4	0.9	7.4	1.1	7.9	1.2	8.4	1.3	9.5	1.5	10.5	1.7
	23	5.3	0.8	6.4	1.0	7.4	1.1	7.9	1.2	8.4	1.3	9.4	1.6	10.5	1.8
	25	5.3	0.8	6.4	1.0	7.4	1.2	7.9	1.3	8.4	1.4	9.4	1.7	10.5	1.9
	27	5.3	0.9	6.3	1.1	7.4	1.3	7.9	1.4	8.4	1.5	9.4	1.8	10.5	2.1
	29	5.3	0.9	6.3	1.1	7.4	1.4	7.9	1.5	8.4	1.6	9.4	1.9	10.5	2.2
	31	5.3	1.0	6.3	1.2	7.4	1.4	7.9	1.6	8.4	1.7	9.4	2.0	10.4	2.4
	33	5.3	1.0	6.3	1.3	7.4	1.5	7.9	1.7	8.4	1.8	9.4	2.2	10.4	2.5
	35	5.3	1.1	6.3	1.3	7.3	1.6	7.8	1.8	8.4	2.0	9.4	2.3	10.4	2.7
	37	5.1	1.2	6.1	1.4	7.1	1.7	7.6	1.9	8.1	2.1	9.1	2.4	10.1	2.9
	39	5.0	1.2	6.0	1.5	7.0	1.8	7.4	2.0	7.9	2.2	8.9	2.6	9.9	3.0
	42	5.0	1.3	6.0	1.6	7.0	1.9	7.4	2.1	7.9	2.3	8.9	2.8	9.9	3.2
44	5.0	1.3	6.0	1.7	7.0	2.0	7.4	2.3	7.9	2.5	8.9	2.9	9.9	3.4	
46	5.3	1.5	6.3	1.9	7.3	2.3	7.8	2.6	8.4	2.8	9.4	3.4	10.4	3.9	
60%	10	4.6	0.6	5.5	0.7	6.4	0.9	6.8	0.9	7.3	1.0	8.2	1.1	9.0	1.2
	12	4.6	0.6	5.5	0.8	6.4	0.9	6.8	0.9	7.3	1.0	8.1	1.1	9.0	1.3
	14	4.6	0.6	5.5	0.8	6.4	0.9	6.8	0.9	7.3	1.0	8.1	1.1	9.0	1.3
	16	4.6	0.7	5.5	0.8	6.4	0.9	6.8	1.0	7.2	1.0	8.1	1.2	9.0	1.3
	18	4.6	0.7	5.5	0.8	6.3	0.9	6.8	1.0	7.2	1.0	8.1	1.2	9.0	1.3
	20	4.6	0.7	5.5	0.8	6.3	0.9	6.8	1.0	7.2	1.1	8.1	1.2	9.0	1.4
	21	4.6	0.7	5.5	0.8	6.3	0.9	6.8	1.0	7.2	1.1	8.1	1.2	9.0	1.4
	23	4.6	0.7	5.5	0.8	6.3	1.0	6.8	1.0	7.2	1.1	8.1	1.3	9.0	1.5
	25	4.6	0.7	5.4	0.8	6.3	1.0	6.8	1.1	7.2	1.2	8.1	1.4	9.0	1.6
	27	4.6	0.7	5.4	0.9	6.3	1.1	6.8	1.1	7.2	1.2	8.1	1.4	9.0	1.7
	29	4.6	0.8	5.4	0.9	6.3	1.1	6.8	1.2	7.2	1.3	8.1	1.5	8.9	1.8
	31	4.6	0.8	5.4	1.0	6.3	1.2	6.7	1.3	7.2	1.4	8.1	1.6	8.9	1.9
	33	4.6	0.9	5.4	1.1	6.3	1.3	6.7	1.4	7.2	1.5	8.1	1.7	8.9	2.0
	35	4.5	0.9	5.4	1.1	6.3	1.3	6.7	1.5	7.2	1.6	8.0	1.9	8.9	2.1
	37	4.4	1.0	5.2	1.2	6.1	1.4	6.5	1.6	6.9	1.7	7.8	2.0	8.6	2.3
	39	4.3	1.0	5.1	1.3	6.0	1.5	6.4	1.6	6.8	1.8	7.6	2.1	8.5	2.4
	42	4.3	1.1	5.1	1.3	6.0	1.6	6.4	1.7	6.8	1.9	7.6	2.2	8.5	2.6
44	4.3	1.1	5.1	1.4	6.0	1.7	6.4	1.8	6.8	2.0	7.6	2.3	8.5	2.7	
46	4.5	1.3	5.4	1.6	6.3	2.0	6.7	2.1	7.2	2.3	8.0	2.7	8.9	3.1	
50%	10	3.8	0.5	4.6	0.6	5.3	0.7	5.7	0.8	6.0	0.8	6.8	0.9	7.5	1.0
	12	3.8	0.6	4.6	0.6	5.3	0.7	5.7	0.8	6.0	0.8	6.8	0.9	7.5	1.0
	14	3.8	0.6	4.6	0.6	5.3	0.7	5.7	0.8	6.0	0.8	6.8	0.9	7.5	1.0
	16	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.8	6.0	0.9	6.8	1.0	7.5	1.1
	18	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.8	6.0	0.9	6.8	1.0	7.5	1.1
	20	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.8	6.0	0.9	6.8	1.0	7.5	1.1
	21	3.8	0.6	4.6	0.7	5.3	0.8	5.7	0.8	6.0	0.9	6.8	1.0	7.5	1.1
	23	3.8	0.6	4.5	0.7	5.3	0.8	5.6	0.9	6.0	0.9	6.7	1.0	7.5	1.1
	25	3.8	0.6	4.5	0.7	5.3	0.8	5.6	0.9	6.0	0.9	6.7	1.1	7.5	1.2
	27	3.8	0.6	4.5	0.7	5.3	0.9	5.6	0.9	6.0	1.0	6.7	1.1	7.5	1.3
	29	3.8	0.6	4.5	0.8	5.3	0.9	5.6	1.0	6.0	1.1	6.7	1.2	7.5	1.4
	31	3.8	0.7	4.5	0.8	5.3	1.0	5.6	1.0	6.0	1.1	6.7	1.3	7.4	1.5
	33	3.8	0.7	4.5	0.9	5.3	1.0	5.6	1.1	6.0	1.2	6.7	1.4	7.4	1.6
	35	3.8	0.8	4.5	0.9	5.2	1.1	5.6	1.2	6.0	1.3	6.7	1.5	7.4	1.7
	37	3.7	0.8	4.4	1.0	5.1	1.1	5.4	1.2	5.8	1.3	6.5	1.5	7.2	1.8
	39	3.6	0.8	4.3	1.0	5.0	1.2	5.3	1.3	5.7	1.4	6.4	1.6	7.0	1.9
	42	3.6	0.9	4.3	1.1	5.0	1.3	5.3	1.4	5.7	1.5	6.4	1.7	7.0	2.0
44	3.6	0.9	4.3	1.1	5.0	1.3	5.3	1.5	5.7	1.6	6.4	1.8	7.0	2.1	
46	3.6	0.9	4.3	1.1	5.0	1.3	5.3	1.5	5.7	1.6	6.4	1.8	7.0	2.1	

11. Capacity Tables – A2A

11-5. RD140PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	11.2	4.3	11.2	4.5	11.2	4.6	11.2	4.7	11.1	4.8	11.1	4.9
	-19	-19	11.6	4.4	11.5	4.5	11.4	4.7	11.5	4.8	11.5	4.8	11.4	5.0
	-17	-17	12.3	4.5	12.3	4.7	12.1	4.8	12.2	4.9	12.2	5.0	12.2	5.1
	-15	-15	13.0	4.8	12.9	5.0	12.8	5.1	12.9	5.2	12.9	5.2	12.9	5.4
	-13	-13	13.6	5.0	13.6	5.1	13.5	5.2	13.6	5.3	13.5	5.4	13.5	5.5
	-11	-11	14.3	5.1	14.3	5.2	14.1	5.3	14.2	5.4	14.2	5.5	14.2	5.6
	-10	-10	14.6	4.9	14.6	5.1	14.5	5.2	14.5	5.2	14.5	5.3	14.3	5.3
	-9	-9	14.9	5.0	14.9	5.1	14.8	5.2	14.8	5.3	14.8	5.3	14.3	5.2
	-7	-8	15.5	5.1	15.5	5.2	15.0	5.3	15.3	5.3	15.3	5.4	14.3	5.0
	-5	-6	16.2	5.1	16.1	5.3	15.8	5.4	16.0	5.4	15.5	5.1	14.3	4.7
	-3	-4	16.8	5.0	16.8	5.1	16.0	5.1	16.0	4.9	15.5	4.7	14.3	4.3
	0	-1	17.8	5.1	17.5	5.1	16.0	4.7	16.0	4.5	15.5	4.3	14.3	4.0
	3	2	18.6	5.1	17.5	4.7	16.0	4.4	16.0	4.2	15.5	4.1	14.3	3.7
	5	4	18.6	4.9	17.5	4.6	16.0	4.2	16.0	4.1	15.5	3.9	14.3	3.6
	7	6	18.6	4.7	17.5	4.3	16.0	4.1	16.0	3.9	15.5	3.7	14.3	3.4
	9	8	18.6	4.4	17.5	4.1	16.2	3.8	16.0	3.7	15.5	3.5	14.3	3.3
11	10	18.6	4.3	17.5	4.0	16.2	3.7	16.0	3.6	15.5	3.4	14.3	3.2	
13	12	18.6	4.1	17.5	3.8	16.2	3.6	16.0	3.4	15.5	3.3	14.3	3.0	
15	14	18.6	4.0	17.5	3.7	16.2	3.4	16.0	3.3	15.5	3.2	14.3	2.9	
90%	-20	-20	11.2	4.5	11.1	4.6	11.1	4.7	11.1	4.8	11.1	4.9	11.1	5.0
	-19	-19	11.5	4.5	11.5	4.7	11.5	4.8	11.4	4.9	11.4	5.0	11.4	5.1
	-17	-17	12.3	4.7	12.2	4.8	12.2	4.9	12.2	5.0	12.2	5.1	12.2	5.2
	-15	-15	12.9	4.9	12.9	5.1	12.9	5.2	12.9	5.3	12.8	5.3	12.8	5.4
	-13	-13	13.6	5.1	13.6	5.2	13.5	5.3	13.5	5.4	13.5	5.4	12.9	5.2
	-11	-11	14.2	5.2	14.2	5.3	14.2	5.4	14.2	5.5	13.9	5.3	12.9	4.9
	-10	-10	14.6	5.0	14.5	5.1	14.5	5.2	14.3	5.2	13.9	5.0	12.9	4.6
	-9	-9	14.9	5.1	14.8	5.2	14.8	5.3	14.3	5.1	13.9	4.9	12.9	4.4
	-7	-8	15.5	5.1	15.3	5.2	14.8	5.1	14.3	4.9	13.9	4.7	12.9	4.3
	-5	-6	16.1	5.2	15.8	5.2	14.8	4.8	14.3	4.6	13.9	4.4	12.9	4.1
	-3	-4	16.7	5.0	15.8	4.7	14.8	4.3	14.3	4.2	13.9	4.0	12.9	3.7
	0	-1	16.8	4.7	15.8	4.3	14.8	4.0	14.3	3.9	13.9	3.7	12.9	3.4
	3	2	16.8	4.4	15.8	4.1	14.8	3.8	14.3	3.6	13.9	3.5	12.9	3.2
	5	4	16.8	4.2	15.8	3.9	14.8	3.6	14.3	3.5	13.9	3.4	12.9	3.1
	7	6	16.8	4.0	15.8	3.7	14.8	3.5	14.3	3.3	13.9	3.2	12.9	3.0
	9	8	16.8	3.8	15.8	3.5	14.8	3.3	14.3	3.2	13.9	3.1	12.9	2.8
11	10	16.8	3.7	15.8	3.4	14.8	3.2	14.3	3.1	13.9	3.0	12.9	2.7	
13	12	16.8	3.5	15.8	3.3	14.8	3.1	14.3	3.0	13.9	2.9	12.9	2.6	
15	14	16.8	3.4	15.8	3.2	14.8	3.0	14.3	2.9	13.9	2.8	12.9	2.6	
80%	-20	-20	11.1	4.7	11.1	4.9	11.1	5.0	11.1	5.0	11.1	5.1	11.0	5.2
	-19	-19	11.5	4.8	11.4	4.9	11.4	5.0	11.4	5.1	11.4	5.2	11.4	5.3
	-17	-17	12.2	4.9	12.2	5.0	12.2	5.2	12.2	5.2	12.1	5.3	11.5	5.0
	-15	-15	12.9	5.2	12.8	5.3	12.8	5.4	12.8	5.4	12.4	5.2	11.5	4.8
	-13	-13	13.5	5.3	13.5	5.4	13.2	5.3	12.8	5.1	12.4	4.9	11.5	4.5
	-11	-11	14.2	5.4	14.0	5.4	13.2	5.0	12.8	4.8	12.4	4.6	11.5	4.2
	-10	-10	14.5	5.2	14.0	5.0	13.2	4.7	12.8	4.5	12.4	4.3	11.5	4.0
	-9	-9	14.8	5.3	14.0	4.9	13.2	4.6	12.8	4.4	12.4	4.2	11.5	3.9
	-7	-8	14.8	5.1	14.0	4.7	13.2	4.4	12.8	4.2	12.4	4.0	11.5	3.7
	-5	-6	14.8	4.8	14.0	4.5	13.2	4.1	12.8	4.0	12.4	3.8	11.5	3.5
	-3	-4	14.8	4.3	14.0	4.1	13.2	3.8	12.8	3.6	12.4	3.5	11.5	3.2
	0	-1	14.8	4.0	14.0	3.8	13.2	3.5	12.8	3.4	12.4	3.2	11.5	3.0
	3	2	14.8	3.8	14.0	3.5	13.2	3.3	12.8	3.2	12.4	3.1	11.5	2.8
	5	4	14.8	3.6	14.0	3.4	13.2	3.2	12.8	3.1	12.4	2.9	11.5	2.7
	7	6	14.8	3.5	14.0	3.2	13.2	3.0	12.8	2.9	12.4	2.8	11.5	2.6
	9	8	14.8	3.3	14.0	3.1	13.2	2.9	12.8	2.8	12.4	2.7	11.5	2.5
11	10	14.8	3.2	14.0	3.0	13.2	2.8	12.8	2.7	12.4	2.6	11.5	2.4	
13	12	14.8	3.1	14.0	2.9	13.2	2.7	12.8	2.6	12.4	2.5	11.5	2.3	
15	14	14.8	3.0	14.0	2.8	13.2	2.6	12.8	2.5	12.4	2.4	11.5	2.2	

11. Capacity Tables – A2A

11-5. RD140PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)											
			16		18		20		21		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-20	-20	11.1	5.0	11.1	5.1	11.0	5.2	11.0	5.3	10.8	5.2	10.1	4.7
	-19	-19	11.4	5.1	11.4	5.2	11.4	5.3	11.1	5.2	10.8	5.0	10.1	4.5
	-17	-17	12.2	5.2	12.1	5.3	11.5	5.0	11.1	4.8	10.8	4.6	10.1	4.2
	-15	-15	12.8	5.4	12.3	5.2	11.5	4.8	11.1	4.6	10.8	4.4	10.1	4.1
	-13	-13	13.0	5.2	12.3	4.9	11.5	4.5	11.1	4.3	10.8	4.2	10.1	3.8
	-11	-11	13.0	4.9	12.3	4.6	11.5	4.2	11.1	4.1	10.8	3.9	10.1	3.6
	-10	-10	13.0	4.6	12.3	4.3	11.5	4.0	11.1	3.8	10.8	3.7	10.1	3.4
	-9	-9	13.0	4.5	12.3	4.2	11.5	3.9	11.1	3.7	10.8	3.6	10.1	3.3
	-7	-8	13.0	4.3	12.3	4.0	11.5	3.7	11.1	3.6	10.8	3.5	10.1	3.2
	-5	-6	13.0	4.1	12.3	3.8	11.5	3.5	11.1	3.4	10.8	3.3	10.1	3.0
	-3	-4	13.0	3.7	12.3	3.5	11.5	3.2	11.1	3.1	10.8	3.0	10.1	2.8
	0	-1	13.0	3.5	12.3	3.2	11.5	3.0	11.1	2.9	10.8	2.8	10.1	2.6
	3	2	13.0	3.2	12.3	3.0	11.5	2.8	11.1	2.7	10.8	2.6	10.1	2.4
	5	4	13.0	3.1	12.3	2.9	11.5	2.7	11.1	2.6	10.8	2.5	10.1	2.4
	7	6	13.0	3.0	12.3	2.8	11.5	2.6	11.1	2.5	10.8	2.4	10.1	2.3
9	8	13.0	2.8	12.3	2.7	11.5	2.5	11.1	2.4	10.8	2.3	10.1	2.2	
11	10	13.0	2.7	12.3	2.6	11.5	2.4	11.1	2.3	10.8	2.2	10.1	2.1	
13	12	13.0	2.7	12.3	2.5	11.5	2.3	11.1	2.2	10.8	2.2	10.1	2.0	
15	14	13.0	2.6	12.3	2.4	11.5	2.3	11.1	2.2	10.8	2.1	10.1	2.0	
60%	-20	-20	11.0	5.3	10.5	5.0	9.9	4.6	9.6	4.4	9.2	4.3	8.6	3.9
	-19	-19	11.1	5.2	10.5	4.8	9.9	4.5	9.6	4.3	9.2	4.1	8.6	3.8
	-17	-17	11.1	4.8	10.5	4.5	9.9	4.1	9.6	4.0	9.2	3.8	8.6	3.5
	-15	-15	11.1	4.6	10.5	4.3	9.9	4.0	9.6	3.8	9.2	3.7	8.6	3.4
	-13	-13	11.1	4.3	10.5	4.0	9.9	3.8	9.6	3.6	9.2	3.5	8.6	3.2
	-11	-11	11.1	4.1	10.5	3.8	9.9	3.6	9.6	3.4	9.2	3.3	8.6	3.0
	-10	-10	11.1	3.8	10.5	3.6	9.9	3.3	9.6	3.2	9.2	3.1	8.6	2.9
	-9	-9	11.1	3.7	10.5	3.5	9.9	3.2	9.6	3.1	9.2	3.0	8.6	2.8
	-7	-8	11.1	3.6	10.5	3.3	9.9	3.1	9.6	3.0	9.2	2.9	8.6	2.7
	-5	-6	11.1	3.4	10.5	3.2	9.9	3.0	9.6	2.9	9.2	2.8	8.6	2.6
	-3	-4	11.1	3.1	10.5	2.9	9.9	2.7	9.6	2.6	9.2	2.5	8.6	2.3
	0	-1	11.1	2.9	10.5	2.7	9.9	2.5	9.6	2.5	9.2	2.4	8.6	2.2
	3	2	11.1	2.7	10.5	2.6	9.9	2.4	9.6	2.3	9.2	2.2	8.6	2.1
	5	4	11.1	2.6	10.5	2.5	9.9	2.3	9.6	2.2	9.2	2.2	8.6	2.0
	7	6	11.1	2.5	10.5	2.4	9.9	2.2	9.6	2.1	9.2	2.1	8.6	1.9
9	8	11.1	2.4	10.5	2.3	9.9	2.1	9.6	2.1	9.2	2.0	8.6	1.8	
11	10	11.1	2.3	10.5	2.2	9.9	2.1	9.6	2.0	9.2	1.9	8.6	1.8	
13	12	11.1	2.2	10.5	2.1	9.9	2.0	9.6	1.9	9.2	1.9	8.6	1.7	
15	14	11.1	2.2	10.5	2.1	9.9	1.9	9.6	1.9	9.2	1.8	8.6	1.7	
50%	-20	-20	9.3	4.3	8.8	4.0	8.2	3.7	8.0	3.6	7.7	3.4	7.2	3.2
	-19	-19	9.3	4.1	8.8	3.9	8.2	3.6	8.0	3.5	7.7	3.3	7.2	3.1
	-17	-17	9.3	3.9	8.8	3.6	8.2	3.4	8.0	3.2	7.7	3.1	7.2	2.9
	-15	-15	9.3	3.7	8.8	3.5	8.2	3.2	8.0	3.1	7.7	3.0	7.2	2.8
	-13	-13	9.3	3.5	8.8	3.3	8.2	3.1	8.0	2.9	7.7	2.8	7.2	2.6
	-11	-11	9.3	3.3	8.8	3.1	8.2	2.9	8.0	2.8	7.7	2.7	7.2	2.5
	-10	-10	9.3	3.1	8.8	2.9	8.2	2.7	8.0	2.6	7.7	2.5	7.2	2.3
	-9	-9	9.3	3.0	8.8	2.8	8.2	2.7	8.0	2.6	7.7	2.5	7.2	2.3
	-7	-8	9.3	2.9	8.8	2.7	8.2	2.6	8.0	2.5	7.7	2.4	7.2	2.2
	-5	-6	9.3	2.8	8.8	2.6	8.2	2.4	8.0	2.4	7.7	2.3	7.2	2.1
	-3	-4	9.3	2.5	8.8	2.4	8.2	2.2	8.0	2.2	7.7	2.1	7.2	1.9
	0	-1	9.3	2.4	8.8	2.2	8.2	2.1	8.0	2.0	7.7	2.0	7.2	1.8
	3	2	9.3	2.2	8.8	2.1	8.2	2.0	8.0	1.9	7.7	1.9	7.2	1.7
	5	4	9.3	2.2	8.8	2.0	8.2	1.9	8.0	1.9	7.7	1.8	7.2	1.7
	7	6	9.3	2.1	8.8	2.0	8.2	1.8	8.0	1.8	7.7	1.7	7.2	1.6
9	8	9.3	2.0	8.8	1.9	8.2	1.8	8.0	1.7	7.7	1.6	7.2	1.5	
11	10	9.3	1.9	8.8	1.8	8.2	1.7	8.0	1.7	7.7	1.6	7.2	1.5	
13	12	9.3	1.9	8.8	1.8	8.2	1.7	8.0	1.6	7.7	1.6	7.2	1.5	
15	14	9.3	1.8	8.8	1.7	8.2	1.6	8.0	1.6	7.7	1.5	7.2	1.4	

11. Capacity Tables – A2A

11-5. RD140PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	10	9.6	1.4	11.5	1.7	13.3	2.0	14.2	2.2	15.1	2.3	17.0	2.7	18.9	3.0
	12	9.6	1.4	11.5	1.7	13.3	2.0	14.2	2.2	15.1	2.4	16.9	2.7	18.9	3.1
	14	9.6	1.4	11.4	1.8	13.3	2.1	14.2	2.2	15.1	2.4	16.9	2.8	18.7	3.1
	16	9.6	1.5	11.4	1.8	13.3	2.1	14.2	2.3	15.1	2.5	16.9	2.8	18.4	3.1
	18	9.6	1.5	11.4	1.8	13.2	2.2	14.2	2.3	15.1	2.5	16.9	3.0	18.2	3.3
	20	9.5	1.5	11.4	1.9	13.2	2.2	14.1	2.5	15.0	2.7	16.9	3.2	17.9	3.5
	21	9.5	1.5	11.4	1.9	13.2	2.3	14.1	2.5	15.0	2.8	16.9	3.3	17.8	3.5
	23	9.5	1.6	11.4	2.0	13.2	2.5	14.1	2.7	15.0	3.0	16.8	3.6	17.5	3.7
	25	9.5	1.7	11.4	2.1	13.2	2.6	14.1	2.9	15.0	3.2	16.8	3.8	17.2	3.9
	27	9.5	1.8	11.4	2.3	13.2	2.8	14.1	3.1	15.0	3.4	16.6	4.0	17.0	4.0
	29	9.5	1.9	11.4	2.4	13.2	3.0	14.1	3.3	15.0	3.7	16.4	4.2	16.7	4.2
	31	9.5	2.0	11.3	2.6	13.2	3.2	14.1	3.6	15.0	3.9	16.1	4.3	16.5	4.4
	33	9.5	2.2	11.3	2.8	13.1	3.4	14.0	3.8	14.9	4.2	15.8	4.5	16.1	4.5
	35	9.5	2.3	11.3	2.9	13.1	3.7	14.0	4.1	14.9	4.5	15.5	4.6	15.9	4.7
	37	9.2	2.4	11.0	3.1	12.7	3.9	13.6	4.3	14.5	4.8	14.8	4.8	15.1	4.9
	39	9.0	2.6	10.7	3.3	12.4	4.2	13.3	4.6	14.0	4.9	14.3	5.0	14.6	5.0
42	9.0	2.8	10.7	3.5	12.4	4.4	13.3	4.9	13.8	5.1	14.0	5.1	14.4	5.2	
44	9.0	2.9	10.7	3.7	12.4	4.7	13.3	5.2	13.6	5.3	13.7	5.3	14.3	5.3	
46	9.0	3.1	10.7	3.9	12.4	4.9	13.3	5.5	13.4	5.5	13.4	5.5	14.1	5.5	
90%	10	8.6	1.3	10.3	1.5	12.0	1.8	12.8	1.9	13.6	2.1	15.3	2.4	17.0	2.7
	12	8.6	1.3	10.2	1.5	12.0	1.8	12.8	2.0	13.6	2.1	15.3	2.4	16.9	2.7
	14	8.6	1.3	10.2	1.6	12.0	1.8	12.8	2.0	13.6	2.1	15.3	2.4	16.9	2.8
	16	8.6	1.3	10.2	1.6	11.9	1.9	12.8	2.0	13.6	2.2	15.3	2.5	16.9	2.8
	18	8.6	1.3	10.2	1.6	11.9	1.9	12.7	2.1	13.5	2.2	15.3	2.5	16.9	3.0
	20	8.6	1.4	10.2	1.7	11.9	2.0	12.7	2.1	13.5	2.3	15.3	2.7	16.9	3.2
	21	8.6	1.4	10.2	1.7	11.9	2.0	12.7	2.2	13.5	2.4	15.2	2.8	16.9	3.3
	23	8.6	1.4	10.2	1.7	11.9	2.1	12.7	2.3	13.5	2.6	15.2	3.0	16.8	3.6
	25	8.6	1.5	10.2	1.8	11.9	2.3	12.7	2.5	13.5	2.7	15.2	3.3	16.8	3.8
	27	8.6	1.6	10.2	2.0	11.9	2.4	12.7	2.7	13.5	2.9	15.2	3.5	16.6	4.0
	29	8.5	1.7	10.2	2.1	11.9	2.6	12.7	2.9	13.5	3.1	15.2	3.7	16.4	4.2
	31	8.5	1.8	10.1	2.2	11.8	2.8	12.7	3.0	13.5	3.3	15.2	4.0	16.1	4.3
	33	8.5	1.9	10.1	2.4	11.8	2.9	12.6	3.2	13.4	3.6	15.1	4.2	15.8	4.5
	35	8.5	2.0	10.1	2.5	11.8	3.1	12.6	3.5	13.4	3.8	15.1	4.5	15.5	4.6
	37	8.2	2.1	9.8	2.7	11.4	3.3	12.2	3.7	13.0	4.1	14.6	4.8	14.8	4.8
	39	8.1	2.3	9.6	2.9	11.2	3.6	12.0	3.9	12.7	4.3	14.0	4.9	14.3	5.0
42	8.1	2.4	9.6	3.0	11.2	3.8	12.0	4.2	12.7	4.6	13.7	5.1	14.0	5.1	
44	8.1	2.5	9.6	3.2	11.2	4.0	12.0	4.4	12.7	4.8	13.4	5.3	13.7	5.3	
46	8.1	2.7	9.6	3.3	11.2	4.2	12.0	4.6	12.7	5.1	13.1	5.4	13.4	5.5	
80%	10	7.7	1.1	9.2	1.3	10.7	1.6	11.4	1.7	12.1	1.8	13.6	2.1	15.0	2.3
	12	7.7	1.1	9.1	1.3	10.6	1.6	11.4	1.7	12.1	1.8	13.6	2.1	15.0	2.4
	14	7.7	1.1	9.1	1.4	10.6	1.6	11.3	1.7	12.1	1.9	13.6	2.1	15.0	2.4
	16	7.7	1.2	9.1	1.4	10.6	1.7	11.3	1.8	12.0	1.9	13.6	2.2	15.0	2.5
	18	7.6	1.2	9.1	1.4	10.6	1.7	11.3	1.8	12.0	1.9	13.5	2.2	15.0	2.5
	20	7.6	1.2	9.1	1.5	10.6	1.7	11.3	1.8	12.0	2.0	13.5	2.3	14.9	2.7
	21	7.6	1.2	9.1	1.5	10.6	1.7	11.3	1.9	12.0	2.0	13.5	2.4	14.9	2.8
	23	7.6	1.2	9.1	1.5	10.6	1.8	11.3	2.0	12.0	2.2	13.5	2.6	14.9	3.0
	25	7.6	1.3	9.1	1.6	10.6	1.9	11.3	2.1	12.0	2.3	13.5	2.7	14.9	3.2
	27	7.6	1.4	9.1	1.7	10.6	2.1	11.3	2.3	12.0	2.5	13.5	2.9	14.9	3.4
	29	7.6	1.4	9.1	1.8	10.6	2.2	11.3	2.4	12.0	2.6	13.5	3.1	14.9	3.6
	31	7.6	1.5	9.1	1.9	10.5	2.3	11.2	2.6	11.9	2.8	13.5	3.3	14.9	3.9
	33	7.6	1.6	9.0	2.0	10.5	2.5	11.2	2.7	11.9	3.0	13.4	3.5	14.8	4.2
	35	7.6	1.7	9.0	2.2	10.5	2.7	11.2	2.9	11.9	3.2	13.4	3.8	14.8	4.4
	37	7.3	1.8	8.7	2.3	10.2	2.8	10.9	3.1	11.5	3.4	13.0	4.0	14.4	4.7
	39	7.2	1.9	8.6	2.4	10.0	3.0	10.6	3.3	11.3	3.6	12.7	4.3	14.0	4.9
42	7.2	2.1	8.6	2.6	10.0	3.2	10.6	3.5	11.3	3.9	12.7	4.6	13.9	5.2	
44	7.2	2.2	8.6	2.7	10.0	3.3	10.6	3.7	11.3	4.1	12.7	4.8	13.8	5.4	
46	7.2	2.3	8.6	2.9	10.0	3.5	10.6	3.9	11.3	4.3	12.7	5.1	13.7	5.6	

11. Capacity Tables – A2A

11-5. RD140PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	10	6.7	1.0	8.0	1.2	9.3	1.3	9.9	1.5	10.6	1.6	11.9	1.8	13.2	2.0
	12	6.7	1.0	8.0	1.2	9.3	1.4	9.9	1.5	10.5	1.6	11.9	1.8	13.2	2.0
	14	6.7	1.0	8.0	1.2	9.3	1.4	9.9	1.5	10.5	1.6	11.9	1.8	13.2	2.1
	16	6.7	1.0	8.0	1.2	9.3	1.4	9.9	1.5	10.5	1.6	11.8	1.9	13.2	2.1
	18	6.7	1.0	8.0	1.2	9.3	1.5	9.9	1.6	10.5	1.7	11.8	1.9	13.1	2.1
	20	6.7	1.1	8.0	1.3	9.3	1.5	9.9	1.6	10.5	1.7	11.8	1.9	13.1	2.2
	21	6.7	1.1	8.0	1.3	9.2	1.5	9.9	1.6	10.5	1.7	11.8	2.0	13.1	2.3
	23	6.7	1.1	8.0	1.3	9.2	1.5	9.9	1.7	10.5	1.8	11.8	2.1	13.1	2.4
	25	6.7	1.1	7.9	1.3	9.2	1.6	9.9	1.8	10.5	1.9	11.8	2.3	13.1	2.6
	27	6.6	1.2	7.9	1.4	9.2	1.7	9.9	1.9	10.5	2.1	11.8	2.4	13.1	2.8
	29	6.6	1.2	7.9	1.5	9.2	1.8	9.8	2.0	10.5	2.2	11.8	2.6	13.1	3.0
	31	6.6	1.3	7.9	1.6	9.2	2.0	9.8	2.1	10.4	2.3	11.7	2.7	13.1	3.2
	33	6.6	1.4	7.9	1.7	9.2	2.1	9.8	2.3	10.4	2.5	11.7	2.9	13.0	3.4
	35	6.6	1.5	7.9	1.8	9.2	2.2	9.8	2.4	10.4	2.6	11.7	3.1	13.0	3.6
	37	6.4	1.6	7.7	1.9	8.9	2.4	9.5	2.6	10.1	2.8	11.3	3.3	12.6	3.9
	39	6.3	1.7	7.5	2.0	8.7	2.5	9.3	2.7	9.9	3.0	11.1	3.5	12.4	4.1
42	6.3	1.7	7.5	2.2	8.7	2.6	9.3	2.9	9.9	3.2	11.1	3.7	12.4	4.4	
44	6.3	1.8	7.5	2.3	8.7	2.8	9.3	3.1	9.9	3.3	11.1	3.9	12.4	4.6	
46	6.3	1.9	7.5	2.4	8.7	2.9	9.3	3.2	9.9	3.5	11.1	4.1	12.4	4.9	
60%	10	5.8	0.8	6.9	1.0	8.0	1.1	8.5	1.2	9.1	1.3	10.2	1.5	11.3	1.7
	12	5.7	0.9	6.9	1.0	8.0	1.2	8.5	1.3	9.1	1.3	10.1	1.5	11.3	1.7
	14	5.7	0.9	6.8	1.0	8.0	1.2	8.5	1.3	9.1	1.4	10.1	1.5	11.2	1.7
	16	5.7	0.9	6.8	1.0	7.9	1.2	8.5	1.3	9.1	1.4	10.1	1.6	11.2	1.8
	18	5.7	0.9	6.8	1.1	7.9	1.2	8.5	1.3	9.0	1.4	10.1	1.6	11.2	1.8
	20	5.7	0.9	6.8	1.1	7.9	1.3	8.5	1.3	9.0	1.4	10.1	1.6	11.2	1.8
	21	5.7	0.9	6.8	1.1	7.9	1.3	8.5	1.4	9.0	1.5	10.1	1.7	11.2	1.8
	23	5.7	0.9	6.8	1.1	7.9	1.3	8.5	1.4	9.0	1.5	10.1	1.7	11.2	2.0
	25	5.7	0.9	6.8	1.1	7.9	1.3	8.5	1.5	9.0	1.6	10.1	1.8	11.2	2.1
	27	5.7	1.0	6.8	1.2	7.9	1.4	8.5	1.5	9.0	1.7	10.1	2.0	11.2	2.2
	29	5.7	1.0	6.8	1.3	7.9	1.5	8.4	1.7	9.0	1.8	10.1	2.1	11.2	2.4
	31	5.7	1.1	6.8	1.3	7.9	1.6	8.4	1.8	9.0	1.9	10.0	2.2	11.1	2.6
	33	5.7	1.2	6.8	1.4	7.9	1.7	8.4	1.9	9.0	2.0	10.0	2.4	11.1	2.7
	35	5.7	1.2	6.8	1.5	7.9	1.8	8.4	2.0	9.0	2.1	10.0	2.5	11.1	2.9
	37	5.5	1.3	6.6	1.6	7.6	1.9	8.1	2.1	8.7	2.3	9.7	2.7	10.8	3.1
	39	5.4	1.4	6.4	1.7	7.5	2.0	8.0	2.2	8.5	2.4	9.5	2.8	10.5	3.3
42	5.4	1.5	6.4	1.8	7.5	2.2	8.0	2.3	8.5	2.6	9.5	3.0	10.5	3.5	
44	5.4	1.5	6.4	1.9	7.5	2.3	8.0	2.5	8.5	2.7	9.5	3.1	10.5	3.7	
46	5.4	1.6	6.4	1.9	7.5	2.4	8.0	2.6	8.5	2.8	9.5	3.3	10.5	3.9	
50%	10	4.8	0.7	5.7	0.8	6.6	1.0	7.1	1.0	7.6	1.1	8.5	1.2	9.4	1.4
	12	4.8	0.7	5.7	0.9	6.6	1.0	7.1	1.0	7.6	1.1	8.5	1.3	9.4	1.4
	14	4.8	0.7	5.7	0.9	6.6	1.0	7.1	1.1	7.6	1.1	8.5	1.3	9.4	1.4
	16	4.8	0.8	5.7	0.9	6.6	1.0	7.1	1.1	7.5	1.1	8.5	1.3	9.4	1.4
	18	4.8	0.8	5.7	0.9	6.6	1.0	7.1	1.1	7.5	1.2	8.5	1.3	9.4	1.5
	20	4.8	0.8	5.7	0.9	6.6	1.0	7.1	1.1	7.5	1.2	8.5	1.3	9.4	1.5
	21	4.8	0.8	5.7	0.9	6.6	1.1	7.1	1.1	7.5	1.2	8.4	1.4	9.4	1.5
	23	4.8	0.8	5.7	0.9	6.6	1.1	7.1	1.1	7.5	1.2	8.4	1.4	9.4	1.5
	25	4.8	0.8	5.7	0.9	6.6	1.1	7.0	1.2	7.5	1.3	8.4	1.5	9.3	1.7
	27	4.7	0.8	5.7	1.0	6.6	1.1	7.0	1.2	7.5	1.3	8.4	1.5	9.3	1.8
	29	4.7	0.9	5.7	1.0	6.6	1.2	7.0	1.3	7.5	1.4	8.4	1.6	9.3	1.9
	31	4.7	0.9	5.7	1.1	6.6	1.3	7.0	1.4	7.5	1.5	8.4	1.7	9.3	2.0
	33	4.7	1.0	5.6	1.2	6.6	1.4	7.0	1.5	7.5	1.6	8.4	1.8	9.3	2.1
	35	4.7	1.0	5.6	1.2	6.5	1.5	7.0	1.6	7.5	1.7	8.4	2.0	9.3	2.2
	37	4.6	1.1	5.5	1.3	6.3	1.5	6.8	1.7	7.2	1.8	8.1	2.1	9.0	2.4
	39	4.5	1.1	5.3	1.4	6.2	1.6	6.7	1.8	7.1	1.9	8.0	2.2	8.8	2.5
42	4.5	1.2	5.3	1.5	6.2	1.7	6.7	1.9	7.1	2.0	8.0	2.3	8.8	2.7	
44	4.5	1.3	5.3	1.5	6.2	1.8	6.7	2.0	7.1	2.1	8.0	2.5	8.8	2.8	
46	4.5	1.3	5.3	1.6	6.2	1.9	6.7	2.0	7.1	2.2	8.0	2.6	8.8	3.0	

11. Capacity Tables – A2A

11-6. RD160PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	11.4	3.9	11.4	4.1	11.4	4.3	11.4	4.4	11.3	4.5	11.3	4.7
	-19	-19	11.8	4.0	11.7	4.2	11.5	4.4	11.7	4.5	11.7	4.6	11.6	4.7
	-17	-17	12.5	4.2	12.5	4.4	12.2	4.6	12.5	4.6	12.4	4.7	12.4	4.9
	-15	-15	13.2	4.5	13.2	4.7	12.8	4.8	13.1	4.9	13.1	5.0	13.1	5.1
	-13	-13	13.9	4.7	13.8	4.8	13.5	5.0	13.8	5.0	13.8	5.1	13.7	5.3
	-11	-11	14.5	4.8	14.5	4.9	14.2	5.1	14.5	5.2	14.4	5.2	14.4	5.4
	-10	-10	14.9	4.7	14.8	4.8	14.5	4.9	14.8	5.0	14.8	5.1	14.7	5.2
	-9	-9	15.2	4.7	15.1	4.9	14.8	5.0	15.1	5.1	15.1	5.1	15.0	5.3
	-7	-8	15.8	4.8	15.7	4.9	15.2	5.1	15.7	5.1	15.7	5.2	15.6	5.3
	-5	-6	16.4	4.9	16.4	5.0	15.9	5.2	16.4	5.2	16.3	5.3	16.2	5.3
	-3	-4	17.1	4.8	17.0	4.9	16.5	5.0	17.0	5.1	17.0	5.1	16.2	4.9
	0	-1	18.1	4.9	18.0	5.0	17.5	5.1	17.9	5.1	17.3	4.9	16.2	4.5
	3	2	19.1	5.0	19.1	5.1	18.0	5.0	17.9	4.8	17.3	4.6	16.2	4.2
	5	4	19.8	5.1	19.7	5.2	18.0	4.8	17.9	4.6	17.3	4.4	16.2	4.1
	7	6	20.4	5.1	19.8	4.9	18.0	4.6	17.9	4.4	17.3	4.2	16.2	3.9
	9	8	20.9	5.0	19.8	4.7	18.2	4.3	17.9	4.2	17.3	4.0	16.2	3.7
11	10	20.9	4.8	19.8	4.5	18.2	4.2	17.9	4.0	17.3	3.9	16.2	3.6	
13	12	20.9	4.7	19.8	4.3	18.2	4.0	17.9	3.9	17.3	3.7	16.2	3.4	
15	14	20.9	4.5	19.8	4.2	18.2	3.9	17.9	3.8	17.3	3.6	16.2	3.3	
90%	-20	-20	11.4	4.3	11.3	4.4	11.3	4.6	11.3	4.7	11.3	4.7	11.3	4.9
	-19	-19	11.7	4.3	11.7	4.5	11.7	4.7	11.6	4.7	11.6	4.8	11.6	5.0
	-17	-17	12.5	4.5	12.5	4.7	12.4	4.8	12.4	4.9	12.4	5.0	12.4	5.1
	-15	-15	13.1	4.8	13.1	4.9	13.1	5.1	13.1	5.2	13.1	5.2	13.0	5.4
	-13	-13	13.8	4.9	13.8	5.1	13.8	5.2	13.7	5.3	13.7	5.3	13.7	5.5
	-11	-11	14.5	5.0	14.5	5.2	14.4	5.3	14.4	5.4	14.4	5.4	14.4	5.6
	-10	-10	14.8	4.9	14.8	5.0	14.8	5.2	14.7	5.2	14.7	5.3	14.5	5.3
	-9	-9	15.1	5.0	15.1	5.1	15.1	5.2	15.0	5.3	15.0	5.3	14.5	5.2
	-7	-8	15.7	5.0	15.7	5.2	15.7	5.3	15.6	5.3	15.6	5.4	14.5	5.0
	-5	-6	16.4	5.1	16.4	5.2	16.3	5.4	16.2	5.3	15.7	5.1	14.5	4.7
	-3	-4	17.0	5.0	17.0	5.1	16.7	5.0	16.2	4.8	15.7	4.7	14.5	4.3
	0	-1	18.0	5.1	17.7	5.1	16.7	4.7	16.2	4.5	15.7	4.3	14.5	4.0
	3	2	18.8	5.1	17.7	4.7	16.7	4.4	16.2	4.2	15.7	4.1	14.5	3.7
	5	4	18.8	4.9	17.7	4.5	16.7	4.2	16.2	4.1	15.7	3.9	14.5	3.6
	7	6	18.8	4.6	17.7	4.3	16.7	4.0	16.2	3.9	15.7	3.7	14.5	3.4
	9	8	18.8	4.4	17.7	4.1	16.7	3.8	16.2	3.7	15.7	3.6	14.5	3.3
11	10	18.8	4.3	17.7	4.0	16.7	3.7	16.2	3.6	15.7	3.4	14.5	3.2	
13	12	18.8	4.1	17.7	3.8	16.7	3.6	16.2	3.4	15.7	3.3	14.5	3.1	
15	14	18.8	4.0	17.7	3.7	16.7	3.5	16.2	3.3	15.7	3.2	14.5	3.0	
80%	-20	-20	11.3	4.6	11.3	4.7	11.3	4.9	11.3	4.9	11.2	5.0	11.2	5.2
	-19	-19	11.7	4.7	11.6	4.8	11.6	4.9	11.6	5.0	11.6	5.1	11.6	5.2
	-17	-17	12.4	4.8	12.4	4.9	12.4	5.1	12.4	5.1	12.3	5.2	12.3	5.3
	-15	-15	13.1	5.1	13.1	5.2	13.0	5.3	13.0	5.4	13.0	5.5	12.9	5.6
	-13	-13	13.8	5.2	13.7	5.3	13.7	5.4	13.7	5.5	13.7	5.6	12.9	5.2
	-11	-11	14.4	5.3	14.4	5.4	14.4	5.5	14.3	5.6	13.9	5.4	12.9	4.9
	-10	-10	14.8	5.2	14.7	5.3	14.7	5.4	14.3	5.2	13.9	5.0	12.9	4.6
	-9	-9	15.1	5.2	15.0	5.3	14.8	5.3	14.3	5.1	13.9	4.9	12.9	4.5
	-7	-8	15.7	5.3	15.6	5.4	14.8	5.1	14.3	4.9	13.9	4.7	12.9	4.3
	-5	-6	16.3	5.3	15.8	5.2	14.8	4.8	14.3	4.6	13.9	4.5	12.9	4.1
	-3	-4	16.8	5.1	15.8	4.7	14.8	4.4	14.3	4.2	13.9	4.0	12.9	3.7
	0	-1	16.8	4.7	15.8	4.4	14.8	4.1	14.3	3.9	13.9	3.8	12.9	3.5
	3	2	16.8	4.4	15.8	4.1	14.8	3.8	14.3	3.7	13.9	3.5	12.9	3.3
	5	4	16.8	4.2	15.8	4.0	14.8	3.7	14.3	3.5	13.9	3.4	12.9	3.2
	7	6	16.8	4.0	15.8	3.8	14.8	3.5	14.3	3.4	13.9	3.3	12.9	3.0
	9	8	16.8	3.8	15.8	3.6	14.8	3.4	14.3	3.2	13.9	3.1	12.9	2.9
11	10	16.8	3.7	15.8	3.5	14.8	3.2	14.3	3.1	13.9	3.0	12.9	2.8	
13	12	16.8	3.6	15.8	3.4	14.8	3.1	14.3	3.0	13.9	2.9	12.9	2.7	
15	14	16.8	3.5	15.8	3.3	14.8	3.0	14.3	2.9	13.9	2.8	12.9	2.6	

11. Capacity Tables – A2A

11-6. RD160PHXEA

1) Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	11.3	4.9	11.2	5.0	11.2	5.1	11.2	5.2	11.2	5.3	11.2	5.4
	-19	-19	11.6	5.0	11.6	5.1	11.6	5.2	11.5	5.3	11.5	5.3	11.3	5.3
	-17	-17	12.4	5.1	12.3	5.2	12.3	5.3	12.3	5.4	12.2	5.4	11.3	4.9
	-15	-15	13.0	5.4	13.0	5.5	13.0	5.6	12.6	5.4	12.2	5.2	11.3	4.7
	-13	-13	13.7	5.5	13.7	5.6	13.0	5.2	12.6	5.0	12.2	4.8	11.3	4.4
	-11	-11	14.4	5.6	13.8	5.3	13.0	4.9	12.6	4.8	12.2	4.6	11.3	4.2
	-10	-10	14.6	5.3	13.8	5.0	13.0	4.6	12.6	4.5	12.2	4.3	11.3	3.9
	-9	-9	14.6	5.2	13.8	4.9	13.0	4.5	12.6	4.3	12.2	4.2	11.3	3.8
	-7	-8	14.6	5.0	13.8	4.7	13.0	4.3	12.6	4.2	12.2	4.0	11.3	3.7
	-5	-6	14.6	4.7	13.8	4.4	13.0	4.1	12.6	4.0	12.2	3.8	11.3	3.5
	-3	-4	14.6	4.3	13.8	4.0	13.0	3.7	12.6	3.6	12.2	3.5	11.3	3.2
	0	-1	14.6	4.0	13.8	3.8	13.0	3.5	12.6	3.4	12.2	3.2	11.3	3.0
	3	2	14.6	3.8	13.8	3.5	13.0	3.3	12.6	3.2	12.2	3.1	11.3	2.8
	5	4	14.6	3.6	13.8	3.4	13.0	3.2	12.6	3.1	12.2	2.9	11.3	2.7
	7	6	14.6	3.5	13.8	3.2	13.0	3.0	12.6	2.9	12.2	2.8	11.3	2.6
9	8	14.6	3.3	13.8	3.1	13.0	2.9	12.6	2.8	12.2	2.7	11.3	2.5	
11	10	14.6	3.2	13.8	3.0	13.0	2.8	12.6	2.7	12.2	2.6	11.3	2.4	
13	12	14.6	3.1	13.8	2.9	13.0	2.7	12.6	2.6	12.2	2.5	11.3	2.3	
15	14	14.6	3.0	13.8	2.8	13.0	2.6	12.6	2.5	12.2	2.5	11.3	2.3	
60%	-20	-20	11.2	5.2	11.2	5.3	11.1	5.4	10.8	5.2	10.4	5.0	9.7	4.6
	-19	-19	11.5	5.3	11.5	5.4	11.1	5.2	10.8	5.0	10.4	4.8	9.7	4.4
	-17	-17	12.3	5.4	11.8	5.2	11.1	4.8	10.8	4.6	10.4	4.5	9.7	4.1
	-15	-15	12.6	5.4	11.8	5.0	11.1	4.6	10.8	4.5	10.4	4.3	9.7	4.0
	-13	-13	12.6	5.0	11.8	4.7	11.1	4.4	10.8	4.2	10.4	4.0	9.7	3.7
	-11	-11	12.6	4.7	11.8	4.4	11.1	4.1	10.8	4.0	10.4	3.8	9.7	3.5
	-10	-10	12.6	4.4	11.8	4.1	11.1	3.9	10.8	3.7	10.4	3.6	9.7	3.3
	-9	-9	12.6	4.3	11.8	4.1	11.1	3.8	10.8	3.6	10.4	3.5	9.7	3.2
	-7	-8	12.6	4.2	11.8	3.9	11.1	3.6	10.8	3.5	10.4	3.4	9.7	3.1
	-5	-6	12.6	4.0	11.8	3.7	11.1	3.5	10.8	3.3	10.4	3.2	9.7	3.0
	-3	-4	12.6	3.6	11.8	3.4	11.1	3.1	10.8	3.0	10.4	2.9	9.7	2.7
	0	-1	12.6	3.4	11.8	3.2	11.1	3.0	10.8	2.8	10.4	2.7	9.7	2.6
	3	2	12.6	3.2	11.8	3.0	11.1	2.8	10.8	2.7	10.4	2.6	9.7	2.4
	5	4	12.6	3.1	11.8	2.9	11.1	2.7	10.8	2.6	10.4	2.5	9.7	2.3
	7	6	12.6	2.9	11.8	2.7	11.1	2.6	10.8	2.5	10.4	2.4	9.7	2.2
9	8	12.6	2.8	11.8	2.6	11.1	2.5	10.8	2.4	10.4	2.3	9.7	2.1	
11	10	12.6	2.7	11.8	2.5	11.1	2.4	10.8	2.3	10.4	2.2	9.7	2.1	
13	12	12.6	2.6	11.8	2.5	11.1	2.3	10.8	2.2	10.4	2.2	9.7	2.0	
15	14	12.6	2.5	11.8	2.4	11.1	2.2	10.8	2.2	10.4	2.1	9.7	2.0	
50%	-20	-20	10.5	5.0	9.9	4.7	9.3	4.3	9.0	4.2	8.7	4.0	8.1	3.7
	-19	-19	10.5	4.8	9.9	4.5	9.3	4.2	9.0	4.0	8.7	3.9	8.1	3.6
	-17	-17	10.5	4.5	9.9	4.2	9.3	3.9	9.0	3.7	8.7	3.6	8.1	3.3
	-15	-15	10.5	4.3	9.9	4.0	9.3	3.8	9.0	3.6	8.7	3.5	8.1	3.2
	-13	-13	10.5	4.1	9.9	3.8	9.3	3.6	9.0	3.4	8.7	3.3	8.1	3.1
	-11	-11	10.5	3.8	9.9	3.6	9.3	3.4	9.0	3.2	8.7	3.1	8.1	2.9
	-10	-10	10.5	3.6	9.9	3.4	9.3	3.2	9.0	3.0	8.7	2.9	8.1	2.7
	-9	-9	10.5	3.5	9.9	3.3	9.3	3.1	9.0	3.0	8.7	2.9	8.1	2.7
	-7	-8	10.5	3.4	9.9	3.2	9.3	3.0	9.0	2.9	8.7	2.8	8.1	2.6
	-5	-6	10.5	3.2	9.9	3.0	9.3	2.8	9.0	2.7	8.7	2.6	8.1	2.5
	-3	-4	10.5	2.9	9.9	2.8	9.3	2.6	9.0	2.5	8.7	2.4	8.1	2.2
	0	-1	10.5	2.8	9.9	2.6	9.3	2.4	9.0	2.4	8.7	2.3	8.1	2.1
	3	2	10.5	2.6	9.9	2.5	9.3	2.3	9.0	2.2	8.7	2.2	8.1	2.0
	5	4	10.5	2.5	9.9	2.4	9.3	2.2	9.0	2.2	8.7	2.1	8.1	1.9
	7	6	10.5	2.4	9.9	2.3	9.3	2.1	9.0	2.1	8.7	2.0	8.1	1.9
9	8	10.5	2.3	9.9	2.2	9.3	2.0	9.0	2.0	8.7	1.9	8.1	1.8	
11	10	10.5	2.2	9.9	2.1	9.3	2.0	9.0	1.9	8.7	1.9	8.1	1.7	
13	12	10.5	2.2	9.9	2.1	9.3	1.9	9.0	1.9	8.7	1.8	8.1	1.7	
15	14	10.5	2.1	9.9	2.0	9.3	1.9	9.0	1.8	8.7	1.8	8.1	1.6	

11. Capacity Tables – A2A

11-6. RD160PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	10	10.7	1.6	12.7	1.9	14.7	2.3	15.7	2.4	16.7	2.6	18.8	3.0	20.5	3.3
	12	10.6	1.6	12.7	1.9	14.7	2.3	15.7	2.5	16.7	2.7	18.8	3.1	20.3	3.3
	14	10.6	1.6	12.7	2.0	14.7	2.3	15.7	2.5	16.7	2.7	18.7	3.1	20.0	3.2
	16	10.6	1.7	12.7	2.0	14.7	2.4	15.7	2.6	16.7	2.8	18.7	3.2	19.6	3.3
	18	10.6	1.7	12.6	2.0	14.7	2.4	15.7	2.6	16.7	2.8	18.7	3.4	19.4	3.5
	20	10.6	1.7	12.6	2.1	14.6	2.5	15.7	2.8	16.7	3.0	18.7	3.6	19.1	3.6
	21	10.6	1.7	12.6	2.1	14.6	2.6	15.6	2.9	16.6	3.1	18.6	3.7	19.0	3.7
	23	10.6	1.8	12.6	2.3	14.6	2.8	15.6	3.1	16.6	3.4	18.2	3.9	18.6	3.9
	25	10.6	1.9	12.6	2.4	14.6	3.0	15.6	3.3	16.6	3.6	18.0	4.0	18.4	4.1
	27	10.6	2.0	12.6	2.6	14.6	3.2	15.6	3.5	16.6	3.9	17.7	4.2	18.1	4.2
	29	10.6	2.2	12.6	2.7	14.6	3.4	15.6	3.8	16.6	4.1	17.5	4.4	17.8	4.4
	31	10.5	2.3	12.6	2.9	14.6	3.6	15.6	4.0	16.6	4.4	17.2	4.5	17.6	4.6
	33	10.5	2.4	12.5	3.1	14.5	3.9	15.5	4.3	16.5	4.7	16.9	4.7	17.3	4.8
	35	10.5	2.6	12.5	3.3	14.5	4.1	15.5	4.6	16.2	4.8	16.6	4.9	16.9	4.9
	37	10.2	2.6	12.1	3.3	14.1	4.2	15.0	4.6	15.4	4.8	15.8	4.8	16.2	4.8
	39	10.0	2.6	11.9	3.4	13.8	4.2	14.7	4.7	14.9	4.7	15.2	4.7	15.6	4.8
42	10.0	2.8	11.9	3.6	13.8	4.5	14.7	4.9	14.7	4.8	14.9	4.9	15.3	4.9	
44	10.0	2.9	11.9	3.8	13.8	4.7	14.7	5.2	14.5	5.0	14.6	5.0	15.0	5.1	
46	10.0	3.1	11.9	4.0	13.8	5.0	14.7	5.5	14.3	5.1	14.3	5.2	14.7	5.3	
90%	10	9.6	1.4	11.4	1.7	13.2	2.0	14.2	2.2	15.1	2.3	17.0	2.7	18.8	3.0
	12	9.5	1.4	11.4	1.7	13.2	2.0	14.2	2.2	15.1	2.4	16.9	2.7	18.8	3.0
	14	9.5	1.5	11.3	1.8	13.2	2.1	14.2	2.2	15.1	2.4	16.9	2.8	18.7	3.1
	16	9.5	1.5	11.3	1.8	13.2	2.1	14.2	2.3	15.1	2.5	16.9	2.8	18.7	3.2
	18	9.5	1.5	11.3	1.8	13.1	2.2	14.2	2.3	15.1	2.5	16.9	2.9	18.7	3.3
	20	9.5	1.5	11.3	1.9	13.1	2.2	14.1	2.4	15.0	2.6	16.9	3.1	18.7	3.6
	21	9.5	1.5	11.3	1.9	13.1	2.2	14.1	2.5	15.0	2.7	16.9	3.2	18.6	3.7
	23	9.5	1.6	11.3	2.0	13.1	2.4	14.1	2.6	15.0	2.9	16.8	3.4	18.2	3.9
	25	9.5	1.7	11.3	2.1	13.1	2.6	14.1	2.8	15.0	3.1	16.8	3.7	18.0	4.0
	27	9.5	1.8	11.3	2.2	13.1	2.7	14.1	3.0	15.0	3.3	16.8	3.9	17.7	4.2
	29	9.5	1.9	11.3	2.4	13.1	2.9	14.1	3.2	15.0	3.5	16.8	4.2	17.4	4.4
	31	9.4	2.0	11.2	2.5	13.1	3.1	14.1	3.4	15.0	3.8	16.8	4.5	17.2	4.5
	33	9.4	2.1	11.2	2.7	13.0	3.3	14.0	3.7	14.9	4.0	16.5	4.7	16.9	4.7
	35	9.4	2.3	11.2	2.9	13.0	3.5	14.0	3.9	14.9	4.3	16.2	4.8	16.6	4.9
	37	9.1	2.3	10.9	2.9	12.6	3.6	13.6	3.9	14.5	4.3	15.5	4.8	15.8	4.8
	39	8.9	2.3	10.6	2.9	12.4	3.6	13.3	4.0	14.2	4.4	14.9	4.7	15.2	4.7
42	8.9	2.4	10.6	3.1	12.4	3.8	13.3	4.2	14.2	4.6	14.6	4.8	14.9	4.9	
44	8.9	2.5	10.6	3.2	12.4	4.0	13.3	4.5	14.2	4.9	14.3	5.0	14.6	5.0	
46	8.9	2.7	10.6	3.4	12.4	4.3	13.3	4.7	14.2	5.2	14.1	5.1	14.3	5.2	
80%	10	8.5	1.2	10.2	1.5	11.8	1.8	12.6	1.9	13.4	2.0	15.0	2.3	16.6	2.6
	12	8.5	1.3	10.1	1.5	11.8	1.8	12.6	1.9	13.4	2.1	15.0	2.4	16.6	2.7
	14	8.5	1.3	10.1	1.5	11.8	1.8	12.6	2.0	13.4	2.1	15.0	2.4	16.6	2.7
	16	8.5	1.3	10.1	1.6	11.7	1.9	12.5	2.0	13.4	2.1	15.0	2.5	16.6	2.8
	18	8.5	1.3	10.1	1.6	11.7	1.9	12.5	2.0	13.3	2.2	15.0	2.5	16.6	2.8
	20	8.5	1.4	10.1	1.6	11.7	1.9	12.5	2.1	13.3	2.2	14.9	2.6	16.6	3.0
	21	8.4	1.4	10.1	1.7	11.7	1.9	12.5	2.1	13.3	2.3	14.9	2.7	16.5	3.1
	23	8.4	1.4	10.1	1.7	11.7	2.0	12.5	2.2	13.3	2.4	14.9	2.9	16.5	3.3
	25	8.4	1.4	10.1	1.8	11.7	2.2	12.5	2.4	13.3	2.6	14.9	3.1	16.5	3.6
	27	8.4	1.5	10.1	1.9	11.7	2.3	12.5	2.6	13.3	2.8	14.9	3.3	16.5	3.8
	29	8.4	1.6	10.1	2.0	11.7	2.5	12.5	2.7	13.3	3.0	14.9	3.5	16.5	4.1
	31	8.4	1.7	10.0	2.2	11.6	2.6	12.4	2.9	13.3	3.2	14.9	3.7	16.5	4.4
	33	8.4	1.8	10.0	2.3	11.6	2.8	12.4	3.1	13.2	3.4	14.8	4.0	16.4	4.7
	35	8.4	1.9	10.0	2.4	11.6	3.0	12.4	3.3	13.2	3.6	14.8	4.3	16.2	4.8
	37	8.1	2.0	9.7	2.5	11.3	3.0	12.0	3.3	12.8	3.6	14.4	4.3	15.4	4.8
	39	8.0	2.0	9.5	2.5	11.0	3.0	11.8	3.3	12.5	3.7	14.1	4.4	14.9	4.7
42	8.0	2.1	9.5	2.6	11.0	3.2	11.8	3.5	12.5	3.9	14.1	4.6	14.7	4.8	
44	8.0	2.2	9.5	2.7	11.0	3.4	11.8	3.7	12.5	4.1	14.1	4.9	14.5	5.0	
46	8.0	2.3	9.5	2.9	11.0	3.6	11.8	3.9	12.5	4.3	14.1	5.2	14.3	5.1	

11. Capacity Tables – A2A

11-6. RD160PHXEA

2) Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	10	7.4	1.1	8.9	1.3	10.3	1.5	11.1	1.6	11.8	1.7	13.2	2.0	14.6	2.2
	12	7.4	1.1	8.9	1.3	10.2	1.5	11.1	1.7	11.8	1.8	13.2	2.0	14.6	2.3
	14	7.4	1.1	8.8	1.3	10.2	1.6	11.0	1.7	11.8	1.8	13.2	2.1	14.6	2.3
	16	7.4	1.1	8.8	1.4	10.2	1.6	11.0	1.7	11.7	1.8	13.2	2.1	14.6	2.4
	18	7.4	1.2	8.8	1.4	10.2	1.6	11.0	1.8	11.7	1.9	13.1	2.1	14.6	2.4
	20	7.4	1.2	8.8	1.4	10.2	1.7	11.0	1.8	11.7	1.9	13.1	2.2	14.5	2.5
	21	7.4	1.2	8.8	1.4	10.2	1.7	11.0	1.8	11.7	1.9	13.1	2.2	14.5	2.6
	23	7.4	1.2	8.8	1.5	10.2	1.7	11.0	1.9	11.7	2.0	13.1	2.4	14.5	2.8
	25	7.4	1.2	8.8	1.5	10.2	1.8	11.0	2.0	11.7	2.2	13.1	2.5	14.5	2.9
	27	7.4	1.3	8.8	1.6	10.2	2.0	11.0	2.1	11.7	2.3	13.1	2.7	14.5	3.1
	29	7.4	1.4	8.8	1.7	10.2	2.1	11.0	2.3	11.7	2.5	13.1	2.9	14.5	3.4
	31	7.3	1.5	8.8	1.8	10.1	2.2	10.9	2.4	11.6	2.6	13.1	3.1	14.5	3.6
	33	7.3	1.6	8.8	1.9	10.1	2.3	10.9	2.6	11.6	2.8	13.0	3.3	14.4	3.8
	35	7.3	1.7	8.7	2.0	10.1	2.5	10.9	2.7	11.6	3.0	13.0	3.5	14.4	4.1
	37	7.1	1.7	8.5	2.1	9.8	2.5	10.6	2.8	11.3	3.0	12.6	3.5	14.0	4.1
	39	7.0	1.7	8.3	2.1	9.6	2.5	10.4	2.8	11.0	3.0	12.4	3.6	13.7	4.2
42	7.0	1.8	8.3	2.2	9.6	2.7	10.4	2.9	11.0	3.2	12.4	3.8	13.7	4.4	
44	7.0	1.8	8.3	2.3	9.6	2.8	10.4	3.1	11.0	3.4	12.4	4.0	13.7	4.7	
46	7.0	1.9	8.3	2.4	9.6	3.0	10.4	3.3	11.0	3.6	12.4	4.2	13.7	4.9	
60%	10	6.4	1.0	7.6	1.1	8.8	1.3	9.4	1.4	10.0	1.5	11.3	1.7	12.5	1.9
	12	6.4	1.0	7.6	1.1	8.8	1.3	9.4	1.4	10.0	1.5	11.3	1.7	12.5	1.9
	14	6.4	1.0	7.6	1.2	8.8	1.3	9.4	1.4	10.0	1.5	11.2	1.7	12.5	2.0
	16	6.4	1.0	7.6	1.2	8.8	1.4	9.4	1.5	10.0	1.6	11.2	1.8	12.4	2.0
	18	6.3	1.0	7.6	1.2	8.8	1.4	9.4	1.5	10.0	1.6	11.2	1.8	12.4	2.0
	20	6.3	1.0	7.6	1.2	8.8	1.4	9.4	1.5	10.0	1.6	11.2	1.8	12.4	2.1
	21	6.3	1.0	7.6	1.2	8.8	1.4	9.4	1.5	10.0	1.6	11.2	1.9	12.4	2.1
	23	6.3	1.1	7.5	1.2	8.8	1.4	9.4	1.6	10.0	1.7	11.2	1.9	12.4	2.2
	25	6.3	1.1	7.5	1.3	8.8	1.5	9.4	1.6	10.0	1.8	11.2	2.1	12.4	2.4
	27	6.3	1.1	7.5	1.3	8.8	1.6	9.4	1.7	10.0	1.9	11.2	2.2	12.4	2.5
	29	6.3	1.2	7.5	1.4	8.7	1.7	9.3	1.9	9.9	2.0	11.2	2.3	12.4	2.7
	31	6.3	1.2	7.5	1.5	8.7	1.8	9.3	2.0	9.9	2.1	11.1	2.5	12.3	2.9
	33	6.3	1.3	7.5	1.6	8.7	1.9	9.3	2.1	9.9	2.3	11.1	2.6	12.3	3.1
	35	6.3	1.4	7.5	1.7	8.7	2.0	9.3	2.2	9.9	2.4	11.1	2.8	12.3	3.3
	37	6.1	1.4	7.3	1.7	8.4	2.1	9.0	2.2	9.6	2.4	10.8	2.8	11.9	3.3
	39	6.0	1.4	7.1	1.7	8.3	2.1	8.8	2.3	9.4	2.5	10.5	2.9	11.7	3.3
42	6.0	1.5	7.1	1.8	8.3	2.2	8.8	2.4	9.4	2.6	10.5	3.0	11.7	3.5	
44	6.0	1.6	7.1	1.9	8.3	2.3	8.8	2.5	9.4	2.7	10.5	3.2	11.7	3.7	
46	6.0	1.6	7.1	2.0	8.3	2.4	8.8	2.6	9.4	2.9	10.5	3.4	11.7	3.9	
50%	10	5.3	0.8	6.3	0.9	7.4	1.1	7.9	1.2	8.4	1.2	9.4	1.4	10.5	1.5
	12	5.3	0.8	6.3	1.0	7.4	1.1	7.9	1.2	8.4	1.3	9.4	1.4	10.4	1.6
	14	5.3	0.8	6.3	1.0	7.3	1.1	7.9	1.2	8.4	1.3	9.4	1.4	10.4	1.6
	16	5.3	0.9	6.3	1.0	7.3	1.1	7.8	1.2	8.3	1.3	9.4	1.5	10.4	1.6
	18	5.3	0.9	6.3	1.0	7.3	1.2	7.8	1.2	8.3	1.3	9.4	1.5	10.4	1.7
	20	5.3	0.9	6.3	1.0	7.3	1.2	7.8	1.3	8.3	1.3	9.4	1.5	10.4	1.7
	21	5.3	0.9	6.3	1.0	7.3	1.2	7.8	1.3	8.3	1.4	9.3	1.5	10.4	1.7
	23	5.3	0.9	6.3	1.0	7.3	1.2	7.8	1.3	8.3	1.4	9.3	1.6	10.4	1.7
	25	5.3	0.9	6.3	1.1	7.3	1.2	7.8	1.3	8.3	1.4	9.3	1.6	10.4	1.9
	27	5.3	0.9	6.3	1.1	7.3	1.3	7.8	1.4	8.3	1.5	9.3	1.7	10.4	2.0
	29	5.3	1.0	6.3	1.2	7.3	1.4	7.8	1.5	8.3	1.6	9.3	1.8	10.4	2.1
	31	5.3	1.0	6.3	1.2	7.3	1.5	7.8	1.6	8.3	1.7	9.3	2.0	10.3	2.2
	33	5.2	1.1	6.3	1.3	7.3	1.5	7.8	1.7	8.3	1.8	9.3	2.1	10.3	2.4
	35	5.2	1.1	6.2	1.4	7.3	1.6	7.8	1.8	8.3	1.9	9.3	2.2	10.3	2.5
	37	5.1	1.2	6.1	1.4	7.0	1.6	7.5	1.8	8.0	1.9	9.0	2.2	10.0	2.6
	39	5.0	1.2	5.9	1.4	6.9	1.7	7.4	1.8	7.8	1.9	8.8	2.2	9.8	2.6
42	5.0	1.2	5.9	1.5	6.9	1.7	7.4	1.9	7.8	2.0	8.8	2.4	9.8	2.7	
44	5.0	1.3	5.9	1.5	6.9	1.8	7.4	2.0	7.8	2.1	8.8	2.5	9.8	2.9	
46	5.0	1.3	5.9	1.6	6.9	1.9	7.4	2.1	7.8	2.2	8.8	2.6	9.8	3.0	

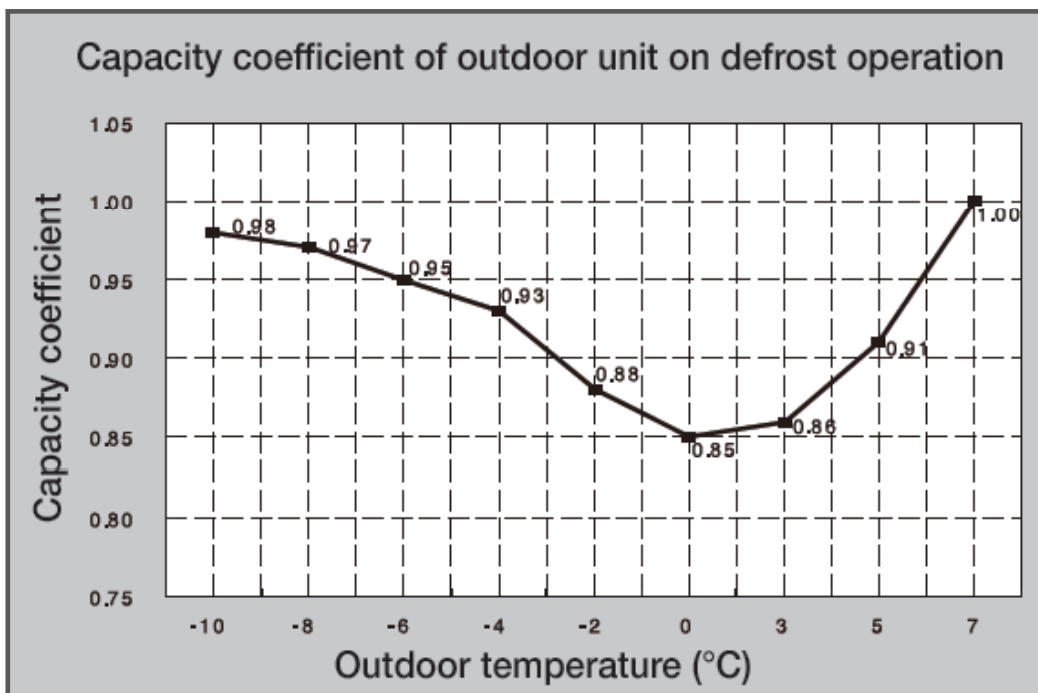
12. Capacity Correction

12-1. Defrosting correction factor

- ◆ On heating operation, frost can be formed on heat exchanger according to outdoor temperature. (Frost on heat exchanger results in decreasing the performance.) To remove frost on heat exchanger of outdoor unit, defrost operation is carried out periodically. During defrost operation, capacity of outdoor unit may decrease. The decrement is not considered to the individual capacity tables.

Outdoor temperature (°C, DB)	-10	-8	-6	-4	-2	0	3	5	7
Capacity coefficient	0.98	0.97	0.95	0.96	0.88	0.85	0.86	0.91	1.00

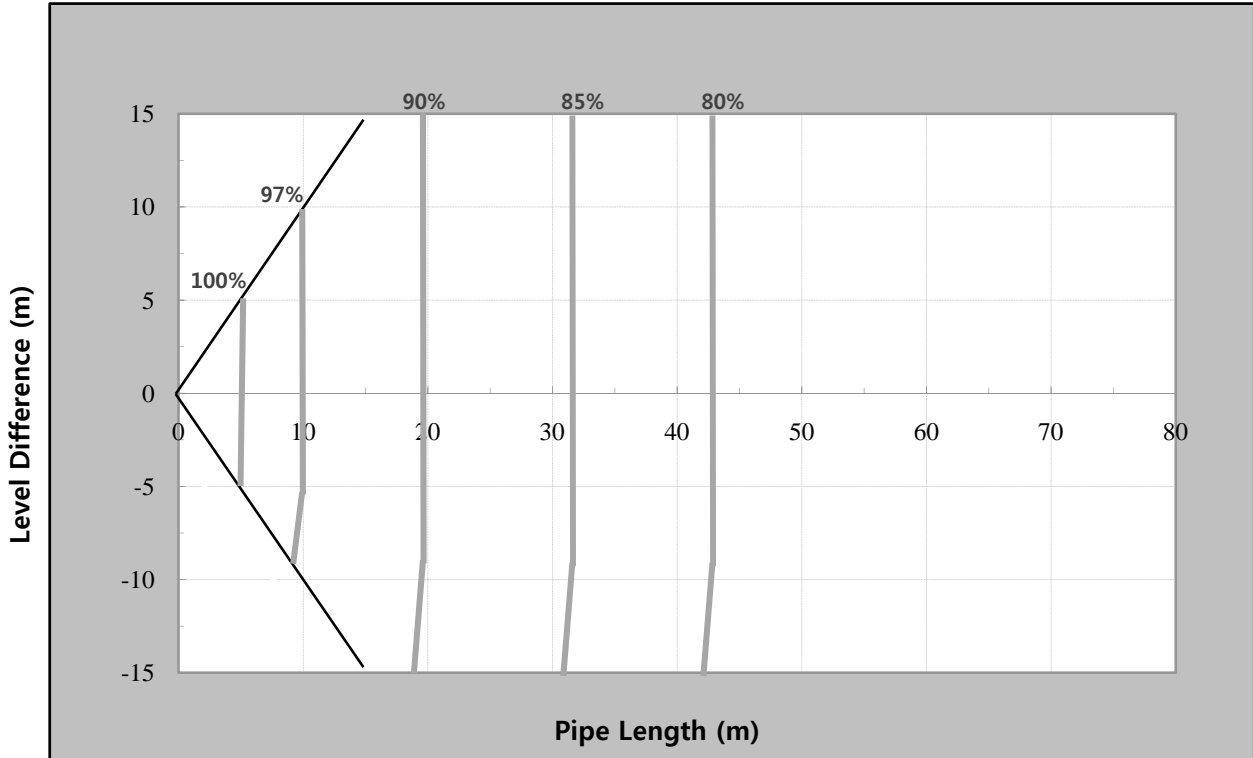
$$\text{Corrected Heating Capacity} = \text{heating Capacity} \times \text{Capacity coefficient}$$



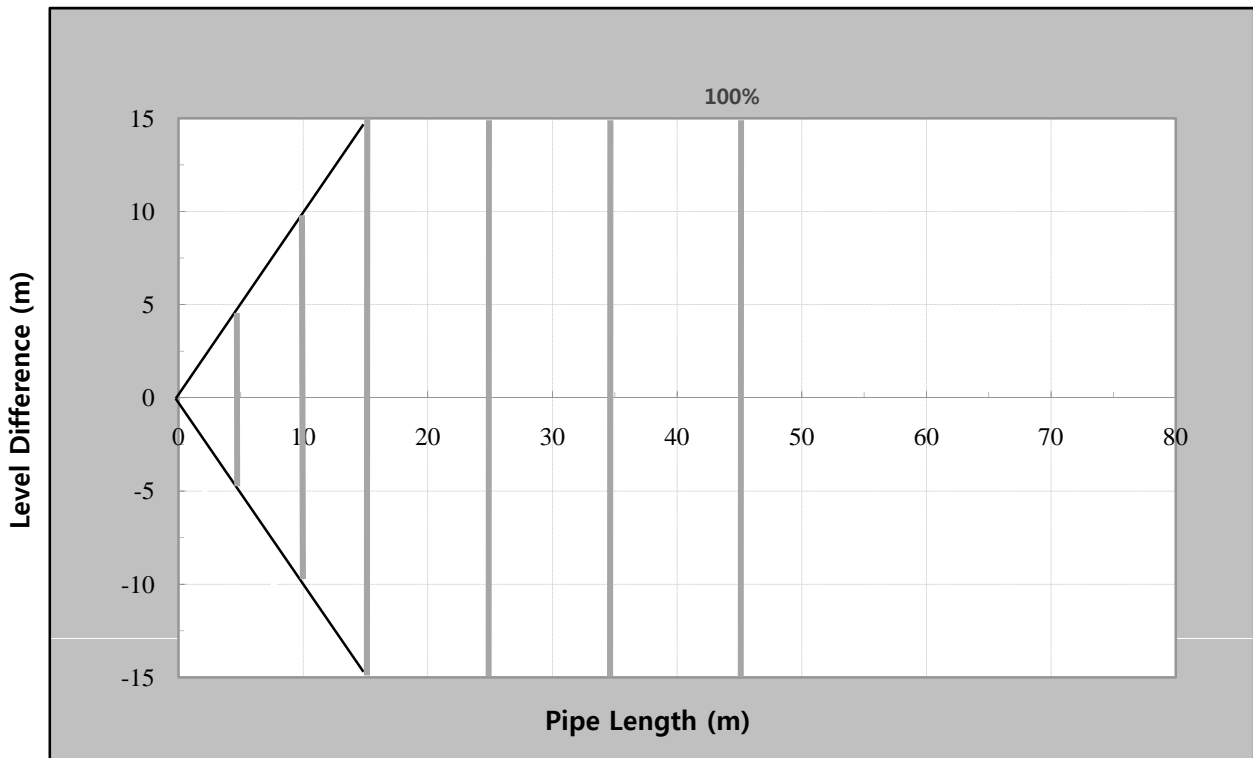
12. Capacity Correction

12-2. RD060/070/080PHXEA

1) Cooling



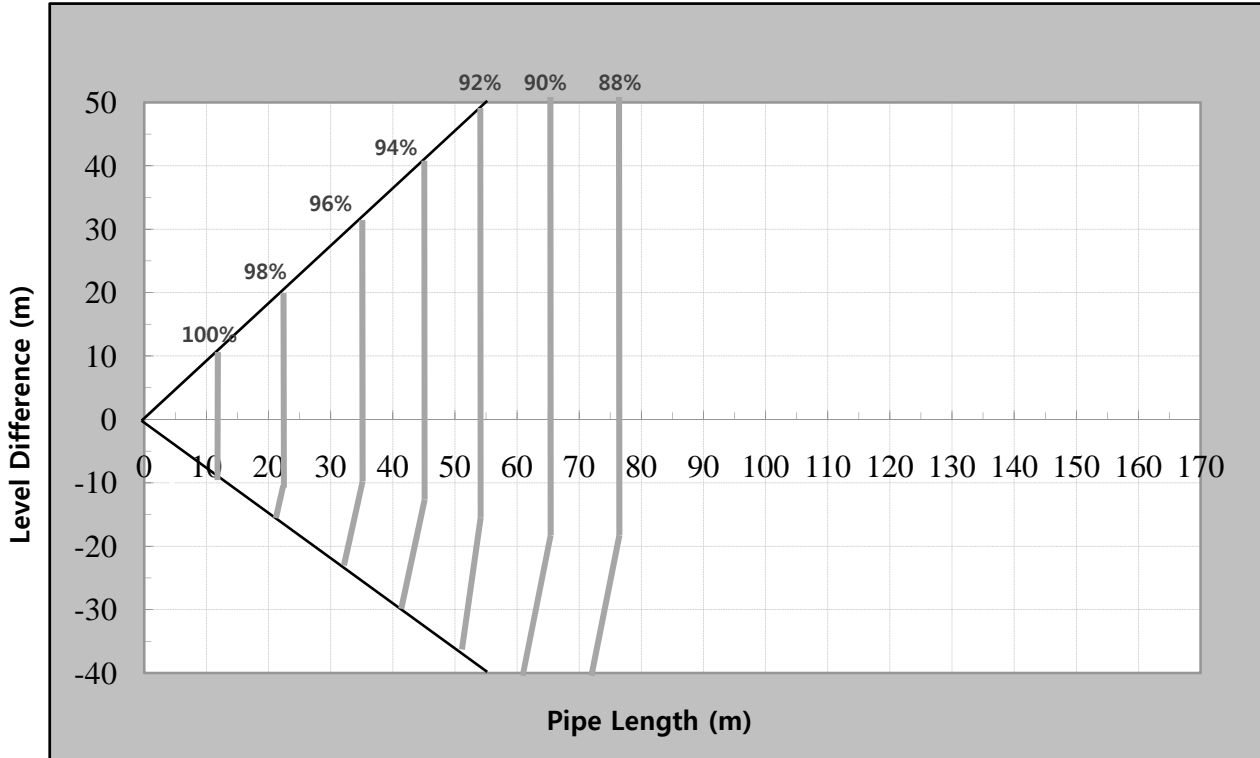
2) Heating



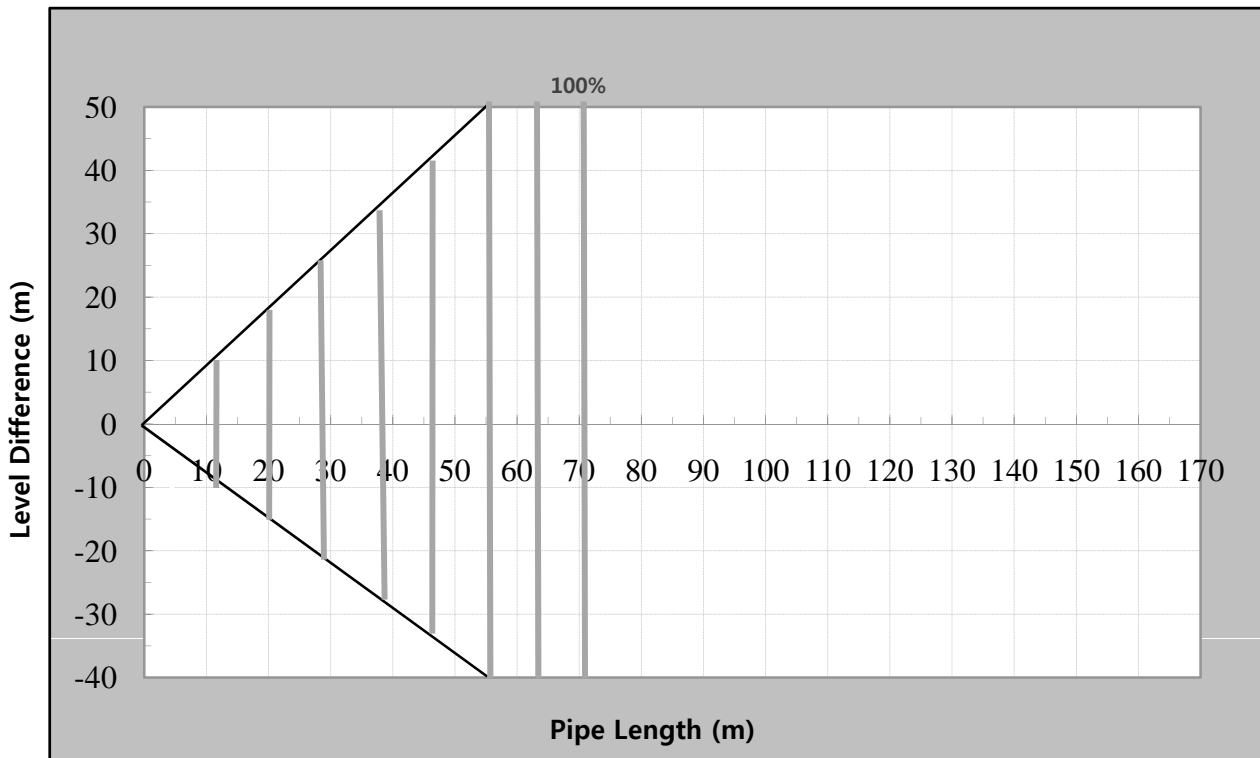
12. Capacity Correction

12-2. RD110/140/160PHXEA

1) Cooling



2) Heating





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