

※ History

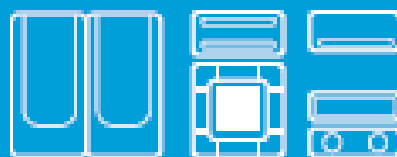
Date	TDB No.	Information
'12.09.19	DBEU-10092Q(3)	Modify : P.47/63. Operating Range (Heating / DHW
'12.11.05	DBEU-12082P(2)	Add : Min/Max Capacity
'15.06.15	1.5	Modify : Note for Refrigerant

EHS

Technical Data Book

EHS TDM for Europe

(R410A, 50Hz, H/P)



Model : NH***NHXEA
 NH***VHXEA
 NH***LHXEA
 NH***PHXEA
 NH***WHXEA/S

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I. Products




1. Indoor units	5
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3. Accessories	10

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			③ Product notation			④ Mode			
N	D	DVM	1	1WAY	CST	C	Cooling only		
	J	Free Joint Multi	2	2WAY		H	Heat pump		
	M	MULTI	M	MINI 4WAY					
	S	SINGLE	4	4WAY					
	H	Hydro-Box Water tank	H	High S.P.	DUCT				
		S	Middle S.P.						
		L	Low S.P.(Slim)						
		G	CCD	CONV					
		C	Ceiling						
		J	Console						
		F	Floor Standing	RAC					
		P	Hydro unit						
		V	Vivace						
		Q	Neo-Forte (EEV)						
		N	Neo-Forte						
		D	AHU						
		W	DHW tank						
② Capacity (3 DIGIT)						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	④	⑤	⑥	⑦		
① Product group			④ Mode			⑤ Refrigerant			
R	D	Single piping FJM	C	C/O		R22	R		
			H	Heat pump		R410A	X		
			R	Heat recovery					
			T	Tropical cooling only					
			Q	Tropical heat pump					
② Capacity (3 DIGIT)									
KW									
③ Product notation									
S	DVM SLIM								
G	GHP								
M	DVM MINI								
J	DVM HOME								
D	DVM-Water								
E	GEO								
P	ECO Heating								














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 Subsidiary Materials		Duct	Wall mounted		Air to Water unit	Remark
						
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)	MWR-WH01 MWR-WE00 MWR-SH00	MWR-WH01 MWR-WE00 MWR-SH00	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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- 5. Temperature and Air Flow Distribution 30
- 6. Recommended Operation Range 34

1. Specifications

1-1. Indoor Units (Neo Forte)

Model				NH022NHXEA	NH028NHXEA	NH036NHXEA	NH056NHXEA	NH071NHXEA
Power Supply			Ø/V/Hz	1/220~240/50				
Mode			-	HP				
Performance	Capacity	Cooling	W	2,200	2,800	3,600	5,600	6,800
		Heating	W	2,500	3,200	4,000	6,300	7,000
	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)		m³/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 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas(flare)			12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
	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	1,065*298*218	1,065*298*218
	Gross		mm	900*349*252	900*349*252	900*349*252	1,137*377*299	1,137*377*299
Functions	Auto Restart			O	O	O	O	O
	Auto Swing			O	O	O	O	O
	Group/Individual Control			O	O	O	O	O
	External Contact Control			O	O	O	O	O
	Trouble Shooting by LED			O	O	O	O	O

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 (Vivace)

Model				NH022VHXEA	NH028VHXEA	NH036VHXEA	NH056VHXEA	NH071VHXEA
Power Supply			Ø/V/Hz	1/220~240/50				
Mode			-	HP				
Performance	Capacity	Cooling	W	2,200	2,800	3,600	5,600	6,800
		Heating	W	2,500	3,200	4,000	6,300	7,000
	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)		m³/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 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas(flare)			12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
	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	1,065*298*218	1,065*298*218
	Gross		mm	900*349*252	900*349*252	900*349*252	1,137*377*299	1,137*377*299
Functions	Auto Restart			O	O	O	O	O
	Auto Swing			O	O	O	O	O
	Group/Individual Control			O	O	O	O	O
	External Contact Control			O	O	O	O	O
	Trouble Shooting by LED			O	O	O	O	O

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 (Slim Duct)

Model				NH022LHXEA	NH028LHXEA	NH036LHXEA	NH045LHXEA	NH056LHXEA
Power Supply			Ø/V/Hz	1/220~240/50				
Mode			-	HP				
Performance	Capacity	Cooling	W	2,200	2,800	3,600	4,500	5,600
		Heating	W	2,500	3,200	4,000	5,000	6,300
	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)		m³/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 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas(flare)			12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
	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	1,100*199*600	1,100*199*600
	Gross		mm	1,133*333*722	1,133*333*722	1,133*333*722	1,330*330*730	1,330*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;

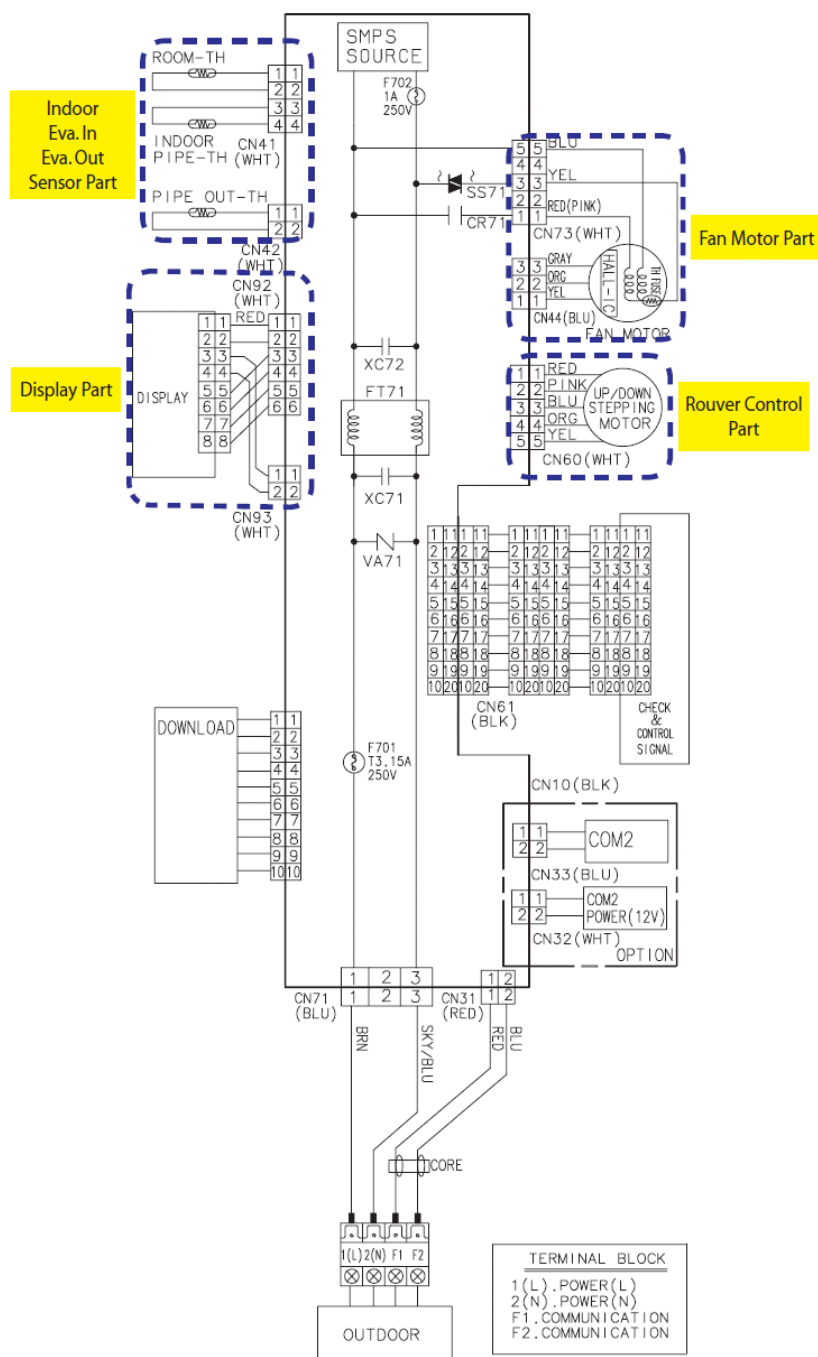
- Indoor temperature : 20°C DB, 15°C WB
- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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.

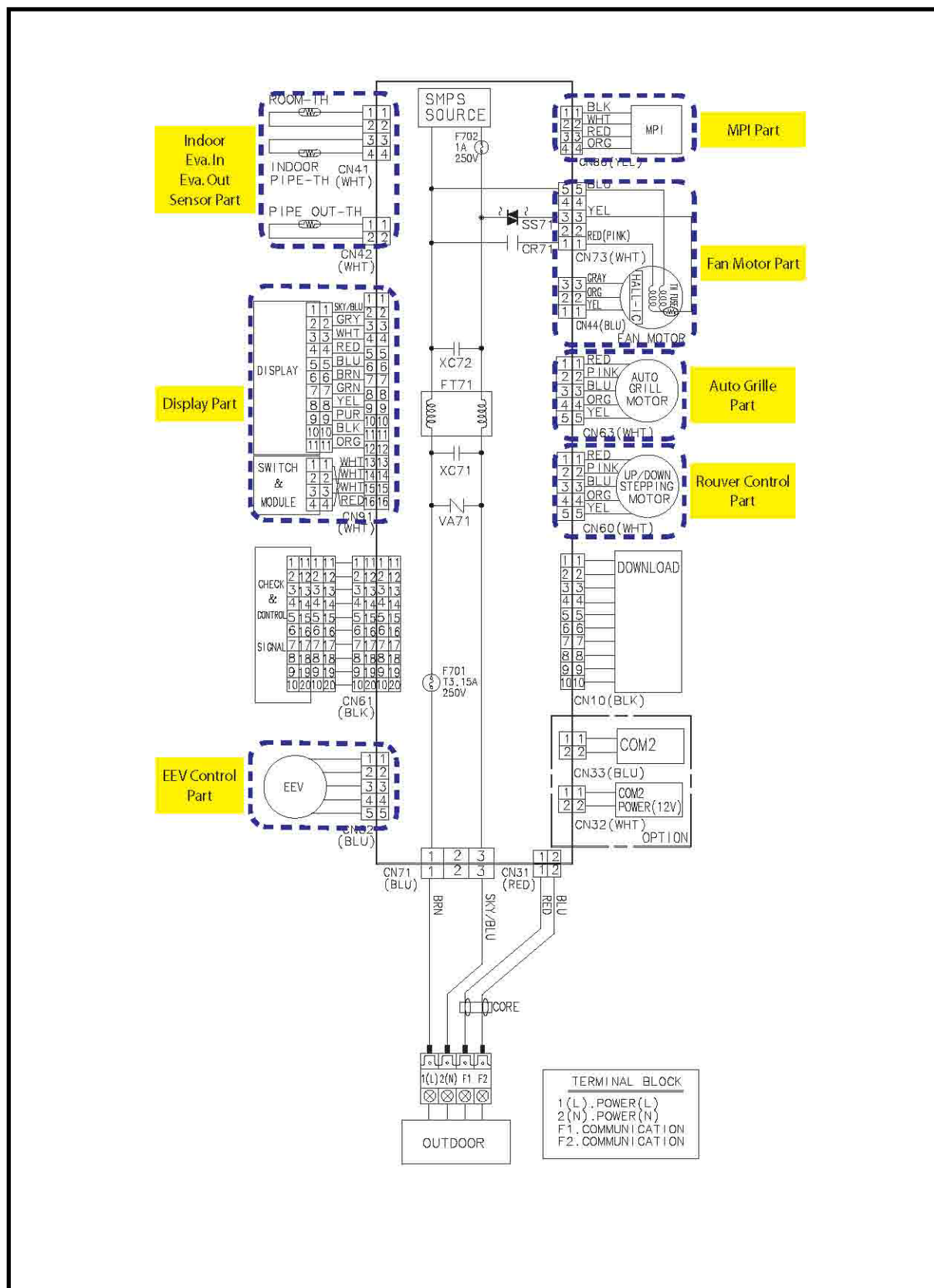
2. Electrical Wiring Diagram

2-1. Indoor Units(Neo Forte)



2. Electrical Wiring Diagram

2-2. Indoor Units(Vivace)

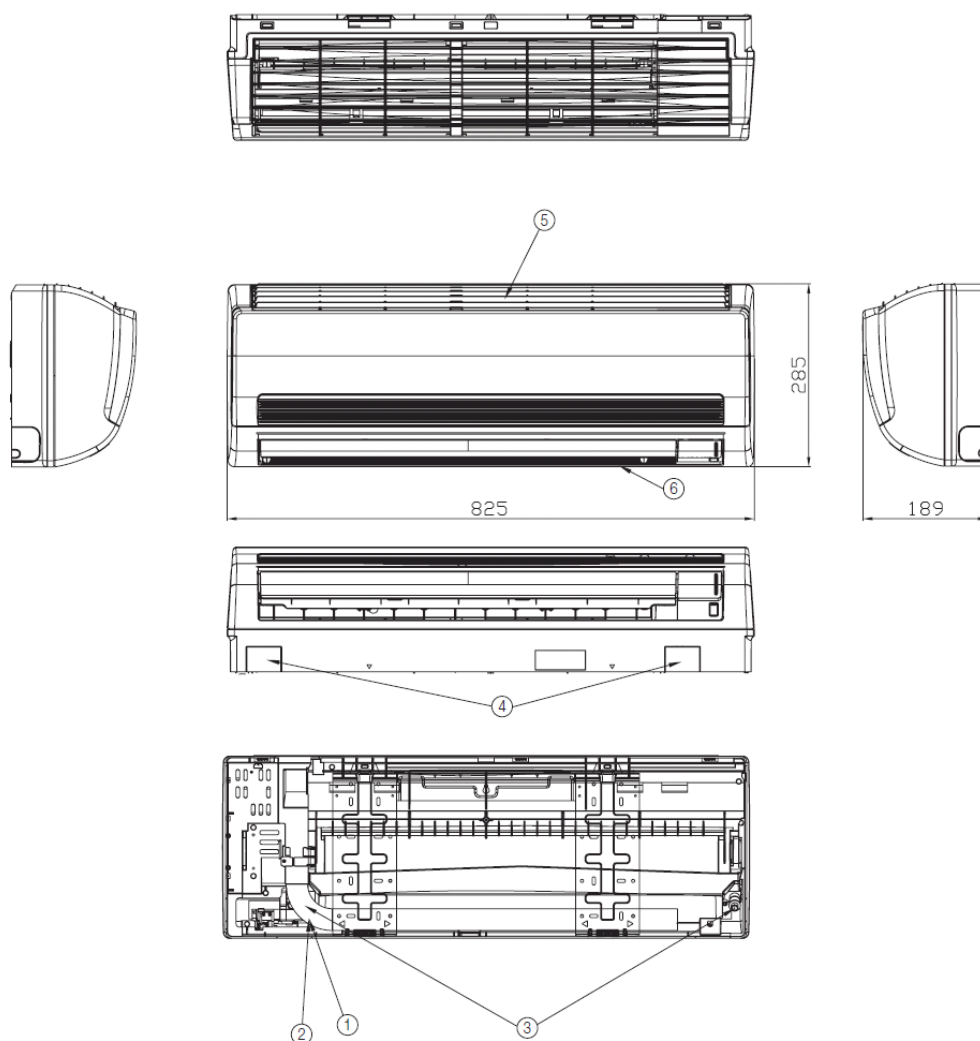


2-3. Indoor Units(Slim Duct)



3. Dimensional Drawing

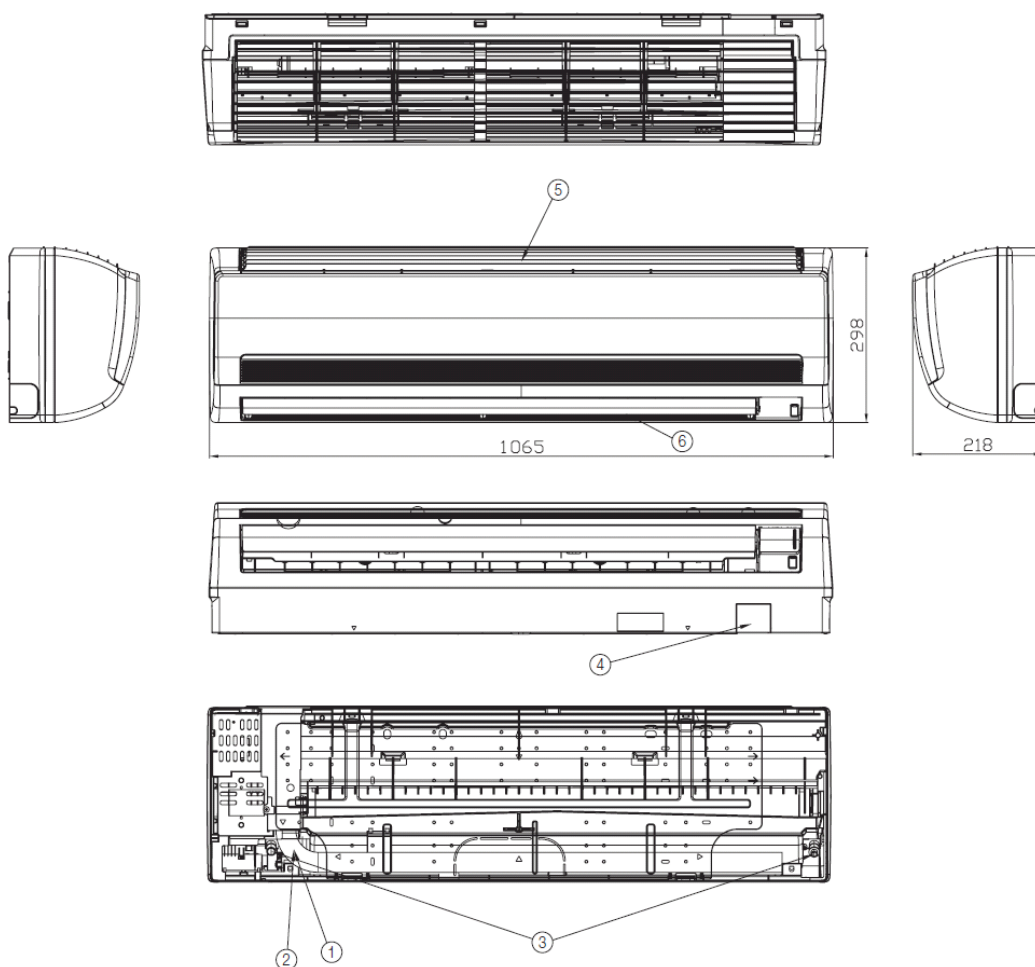
3-1. Indoor Units(NH022/028/036NHXEA)



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

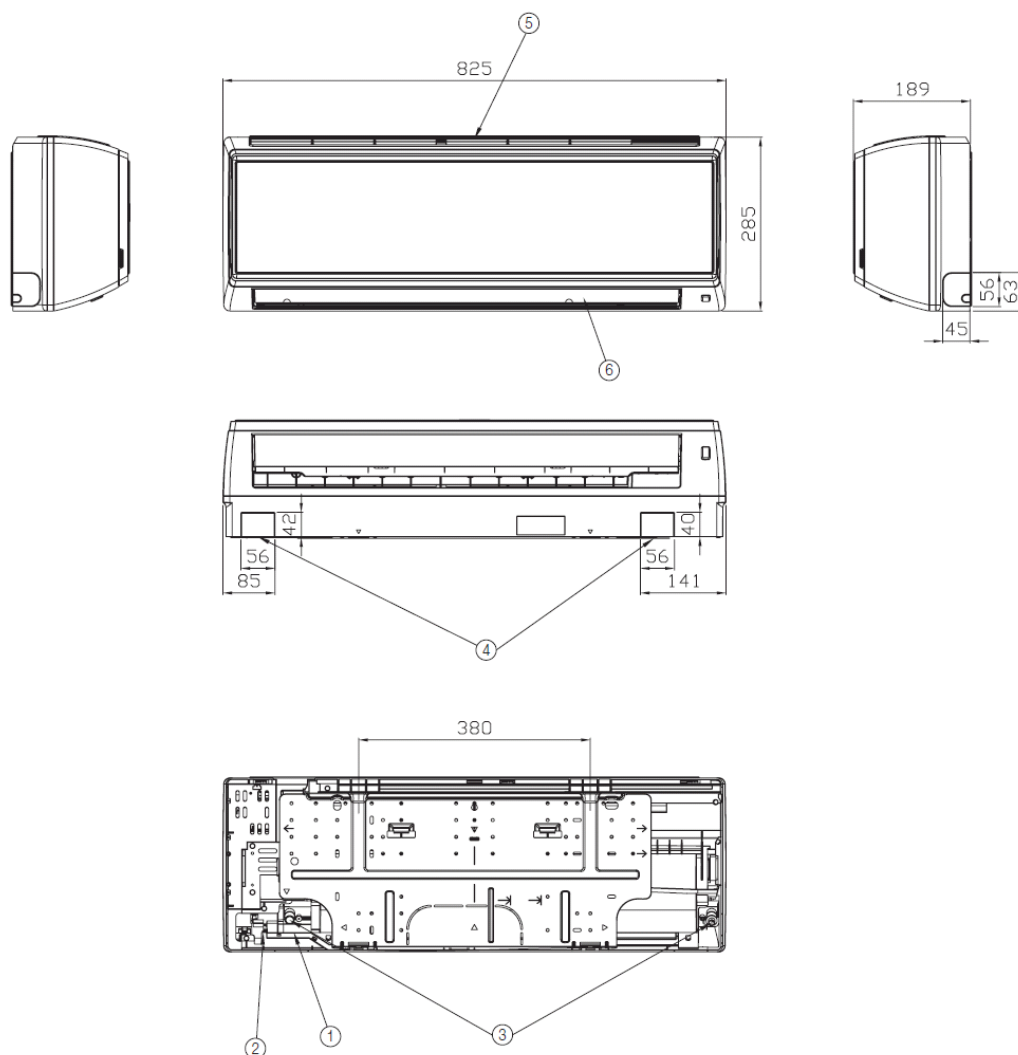
3-1. Indoor Units(NH056/071NHXEA)



No.	Name	Description	
		5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare
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

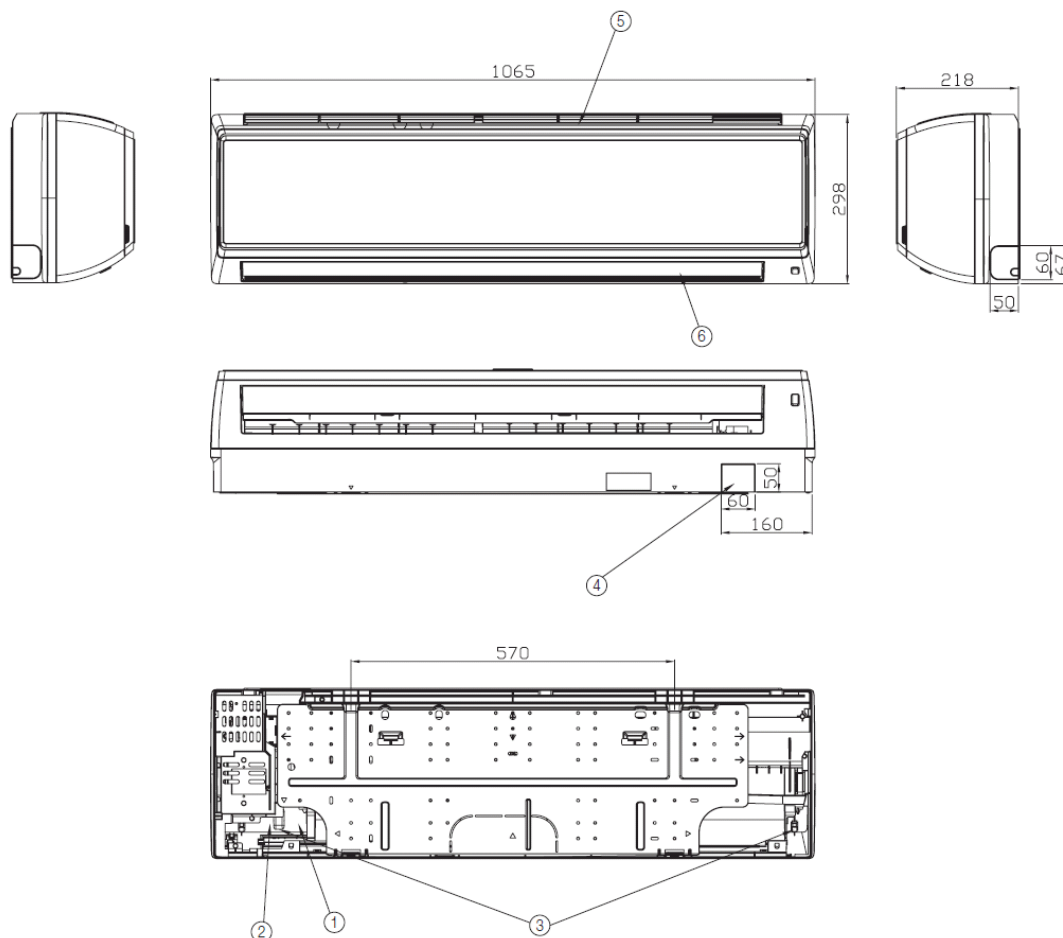
3-2. Indoor Units(NH022/028/036VHXEA)



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

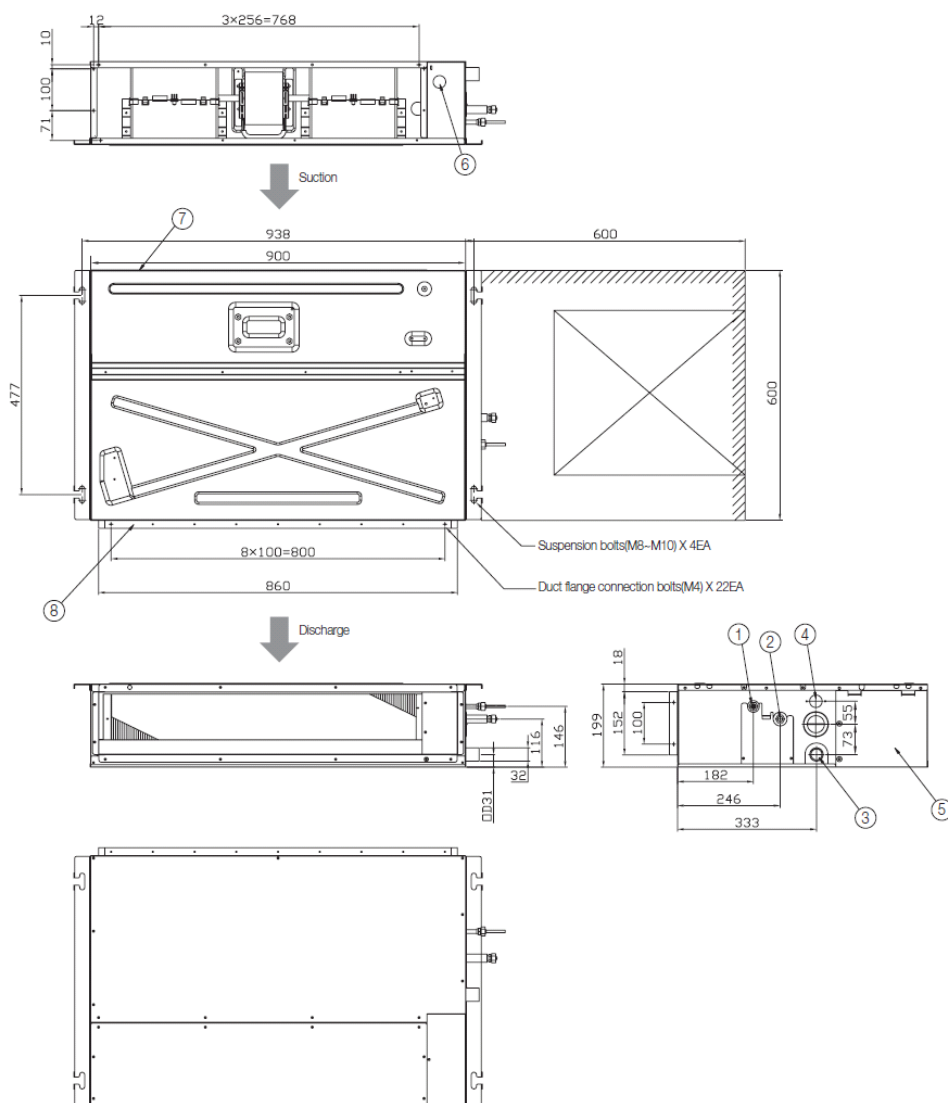
3-2. Indoor Units(NH056/071VHXEA)



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

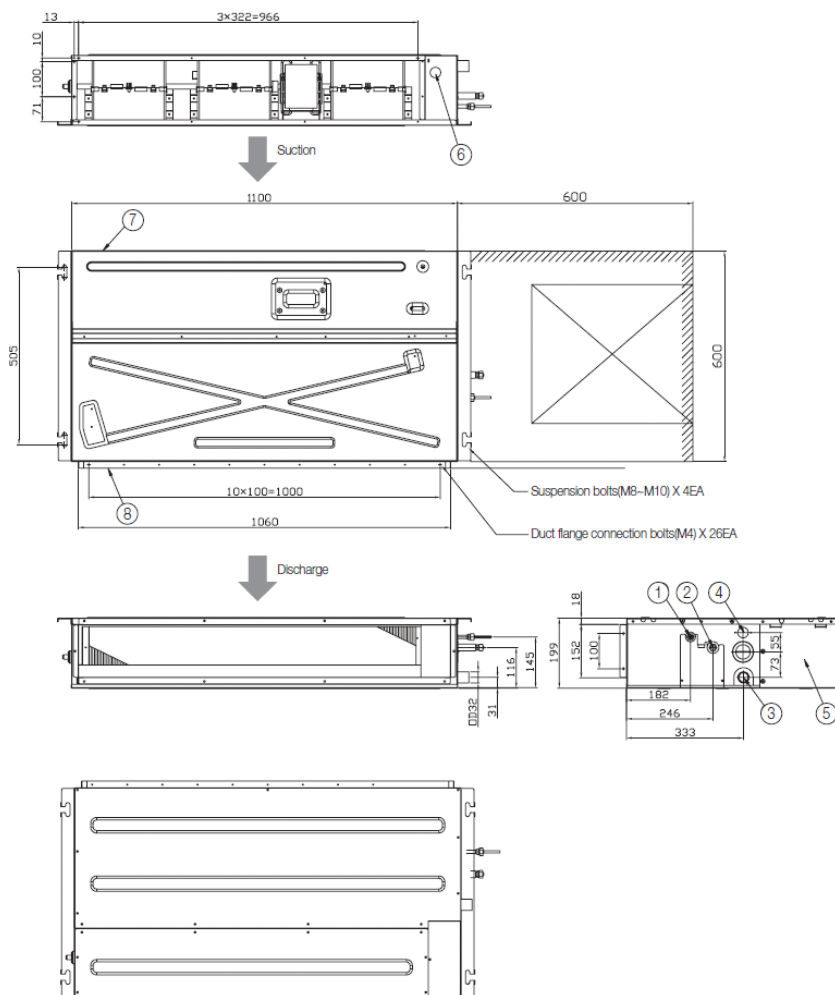
3-3. Indoor Units(NH022/028/036LHXEA)



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 without optional kits	VP25(OD32, ID25)		
④	Drain pipe connection with optional kits	Quick lock		
⑤	Control unit	-		
⑥	Conduit for power supply and comm. wiring	--		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

3. Dimensional Drawing

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

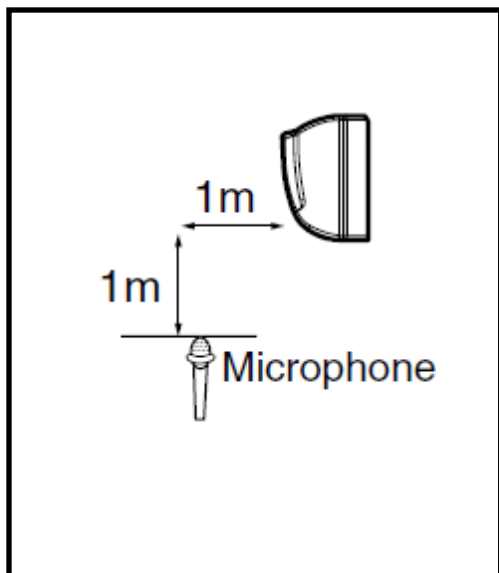


No.	Name	Description	
		4.5kW	5.6kW
①	Liquid pipe connection	Ø6.35 Flare	
②	Gas pipe connection	Ø12.70 Flare	
③	Drain pipe connection without optional kits	VP25(OD32, ID25)	
④	Drain pipe connection with optional kits	Quick lock	
⑤	Control unit	-	
⑥	Conduit for power supply and comm. wiring	--	
⑦	Return air side	-	
⑧	Air outlet duct flange	-	

4. Sound Pressure level

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

Unit : dB(A)



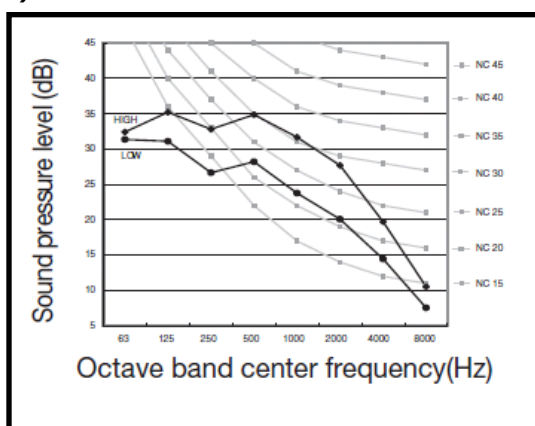
Model	High	Low
NH022NHXEA	32	23
NH028NHXEA	32	23
NH036NHXEA	36	23
NH056NHXEA	40	30
NH071NHXEA	41	30

※ Note

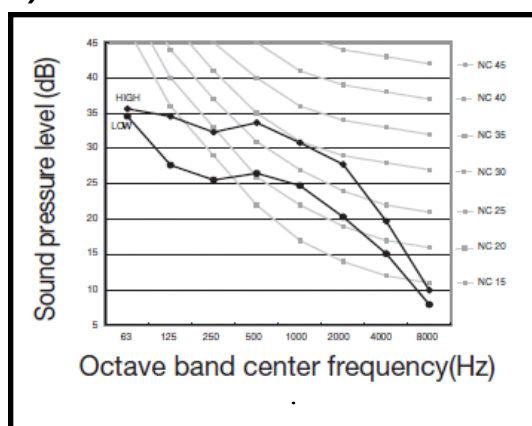
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-2. NC curves

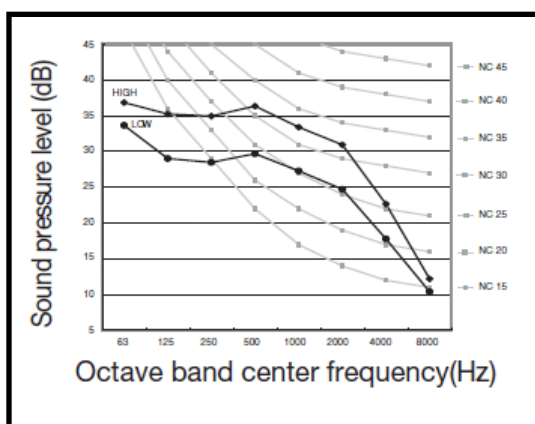
1) NH022NHXEA



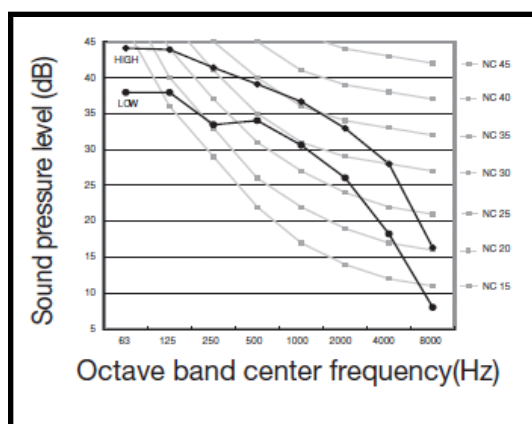
2) NH028NHXEA



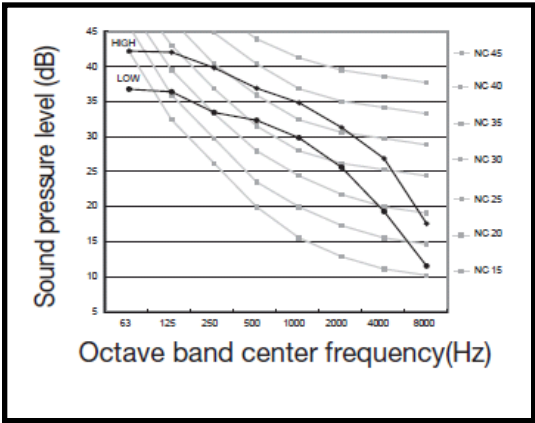
3) NH036NHXEA



4) NH056NHXEA



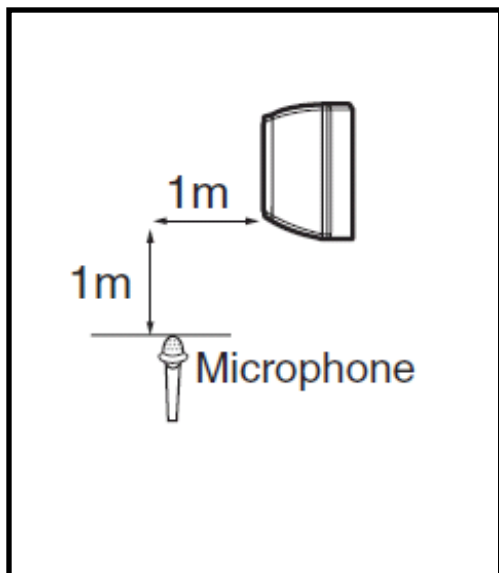
5) NH071NHXEA



4. Sound Pressure level

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

Unit : dB(A)



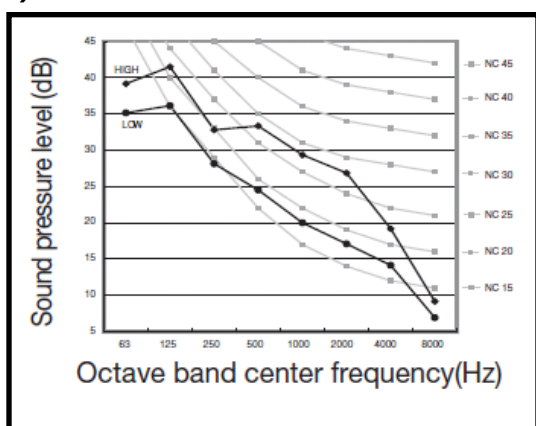
Model	High	Low
NH022VHXEA	31	21
NH028VHXEA	31	21
NH036VHXEA	35	21
NH056VHXEA	40	30
NH071VHXEA	41	30

※ Note

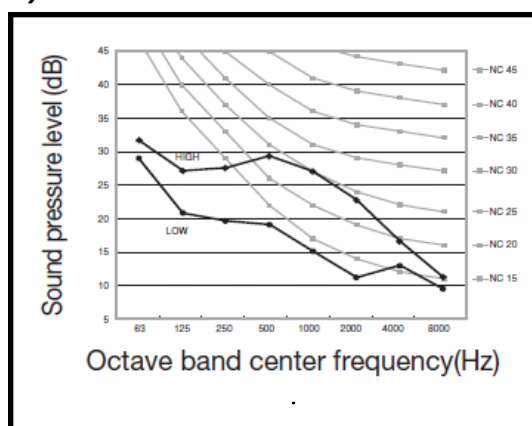
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-4. NC curves

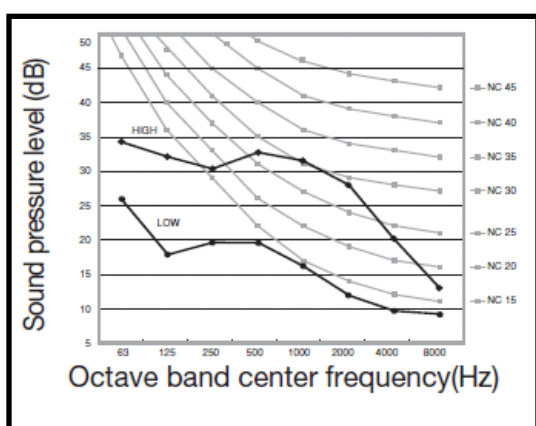
1) NH022VHXEA



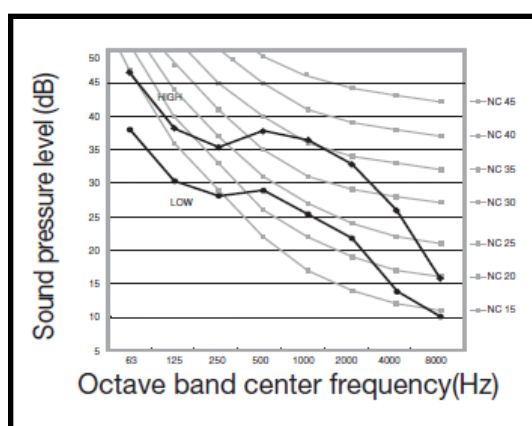
2) NH028VHXEA



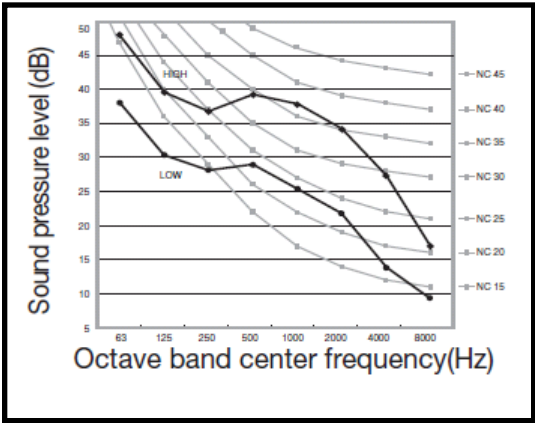
3) NH036VHXEA



4) NH056VHXEA



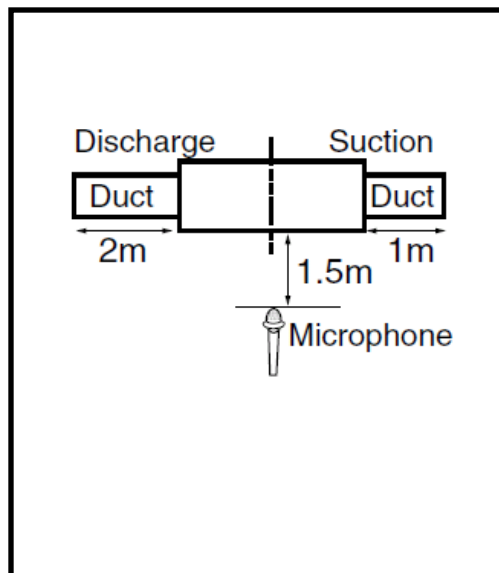
5) NH071VHXEA



4. Sound Pressure level

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

Unit : dB(A)



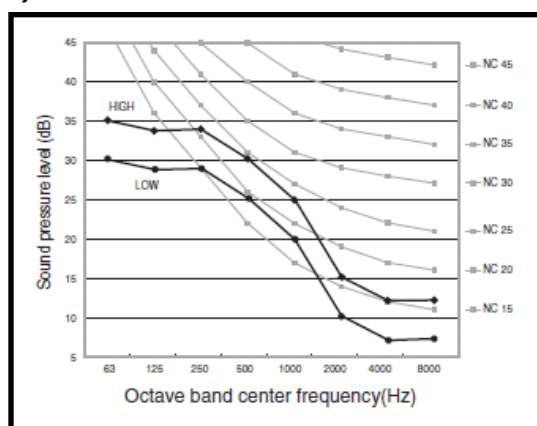
Model	High	Low
NH022LHXEA	31	26
NH028LHXEA	32	27
NH036LHXEA	32	27
NH045LHXEA	33	30
NH056LHXEA	33	30

※ Note

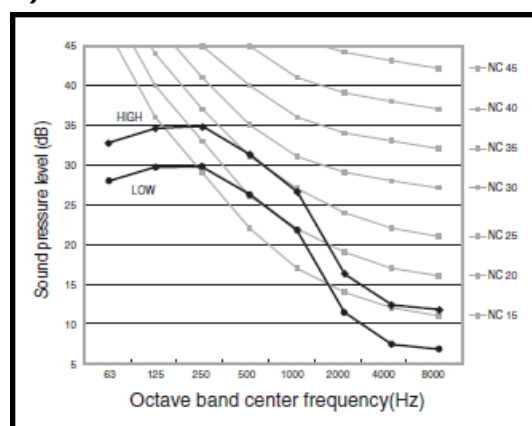
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-6. NC curves

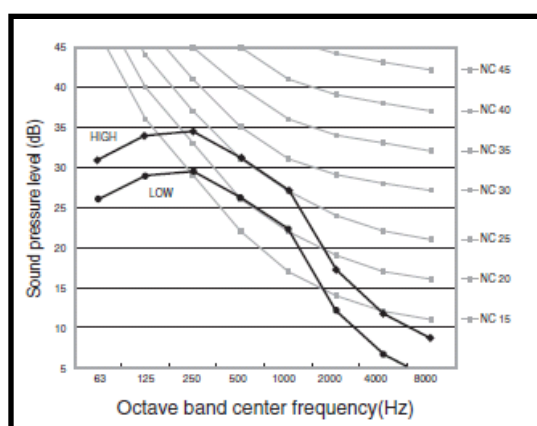
1) NH022LHXEA



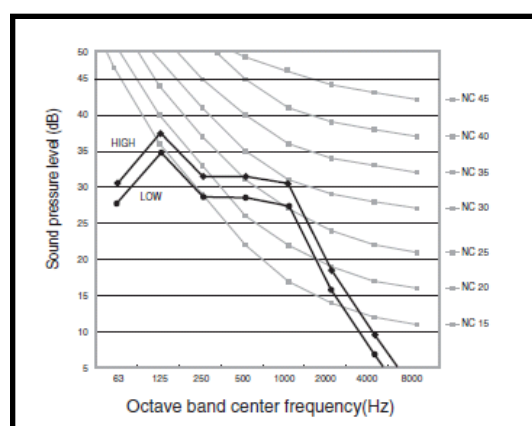
2) NH028LHXEA



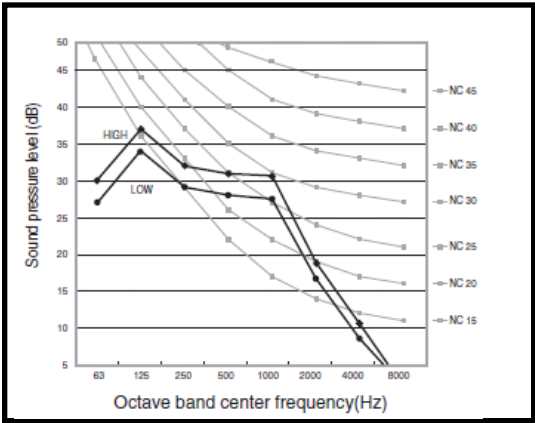
3) NH036LHXEA



4) NH045LHXEA



5) NH056LHXEA

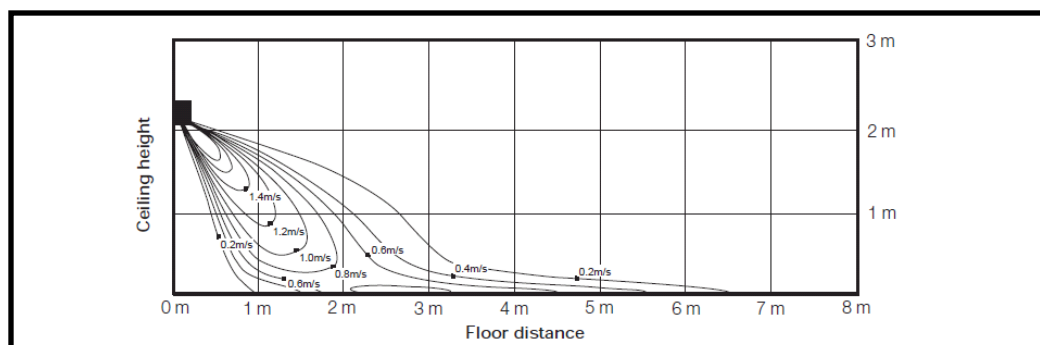


5. Temperature and Air Flow Distribution

5-1. NH036NHXEA

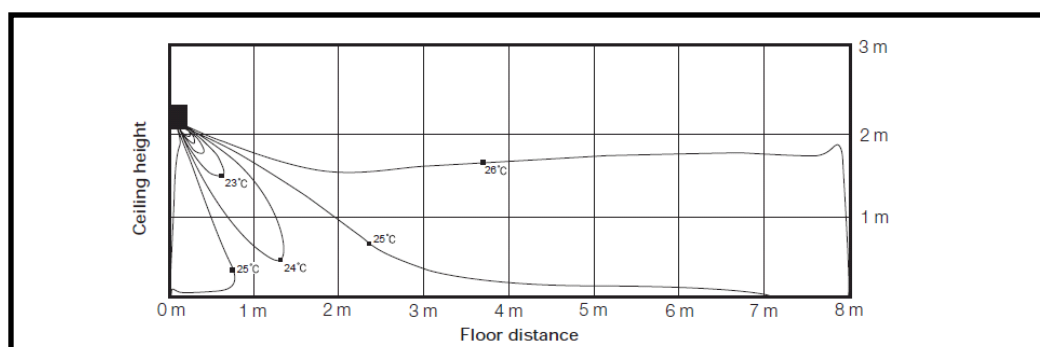
1) Cooling air velocity distribution

◆ Discharge angle : 60°



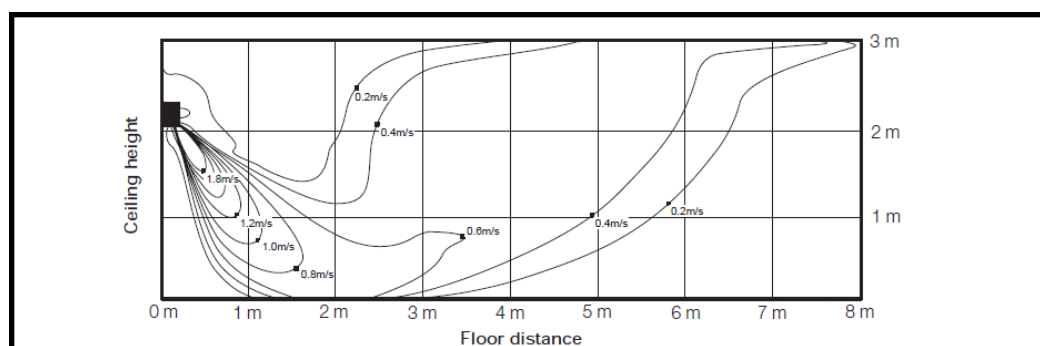
2) Cooling temperature distribution

◆ Discharge angle : 60°



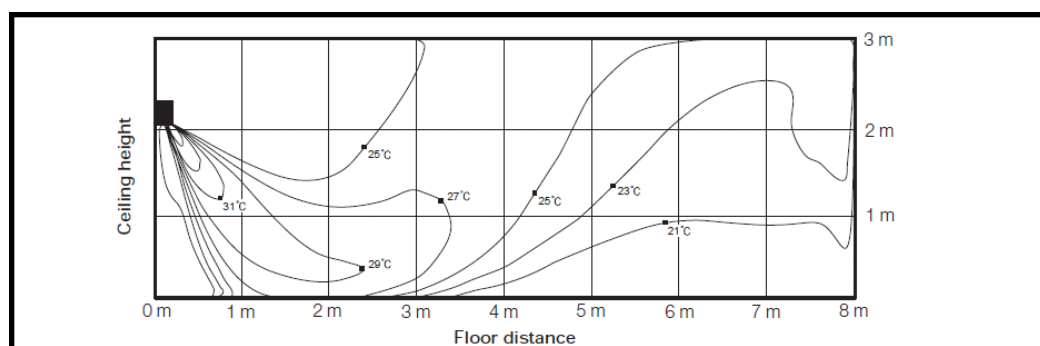
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

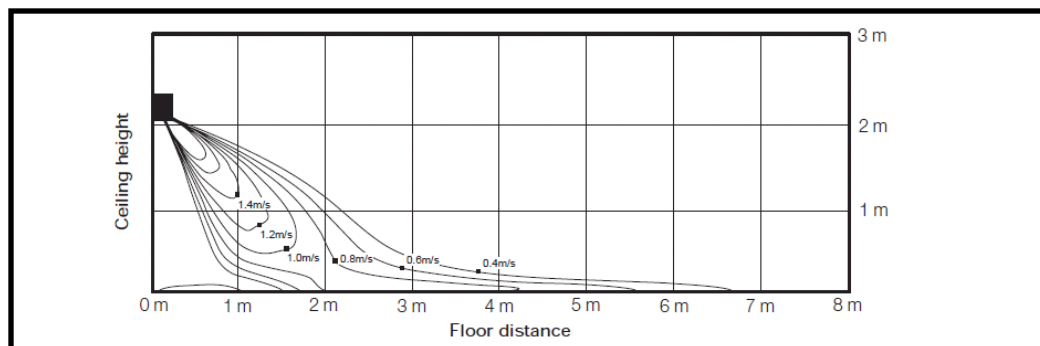


5. Temperature and Air Flow Distribution

5-1. NH071NHXEA

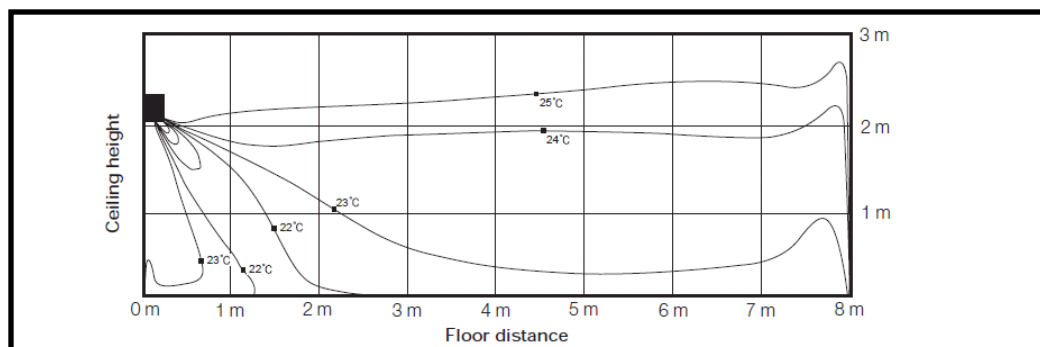
1) Cooling air velocity distribution

◆ Discharge angle : 60°



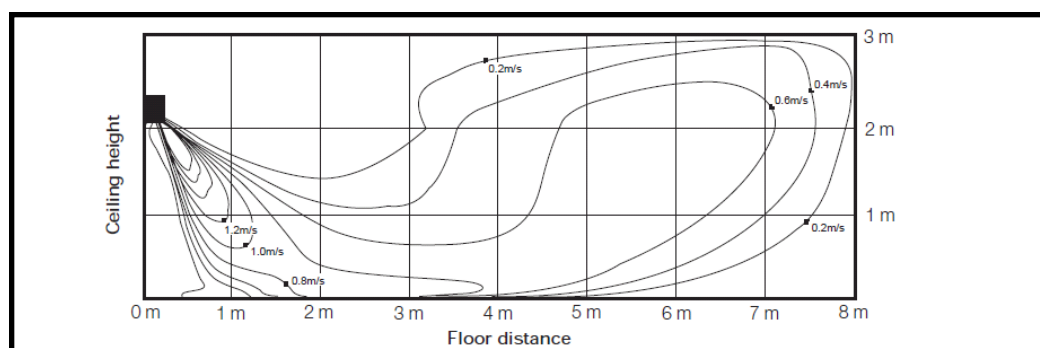
2) Cooling temperature distribution

◆ Discharge angle : 60°



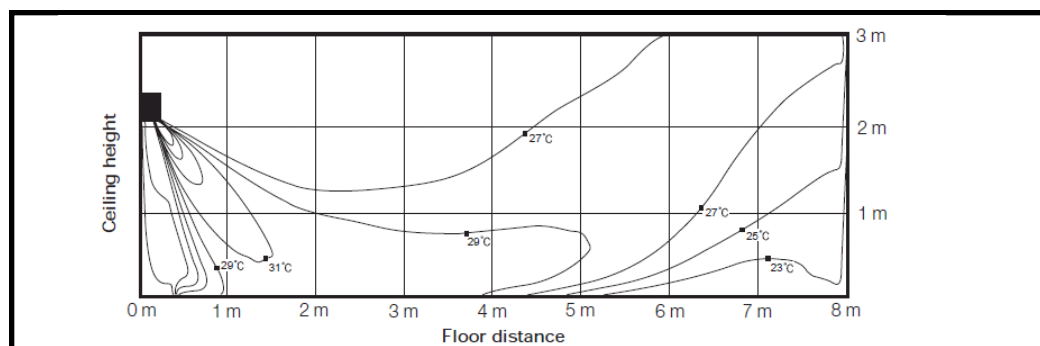
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

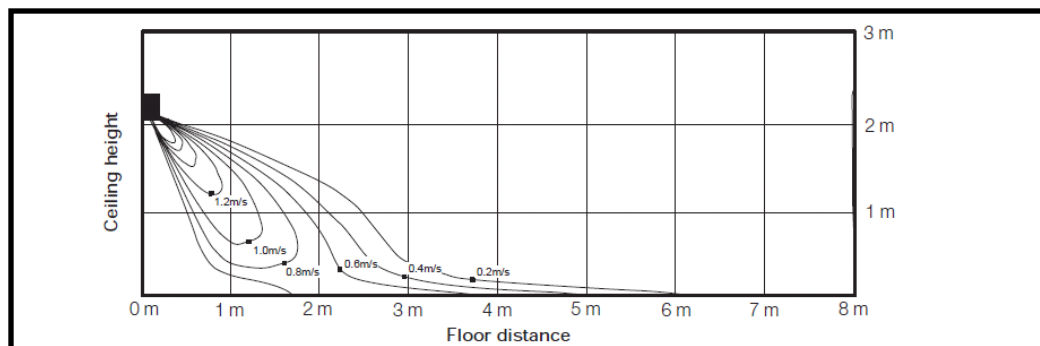


5. Temperature and Air Flow Distribution

5-2. NH036VHXEA

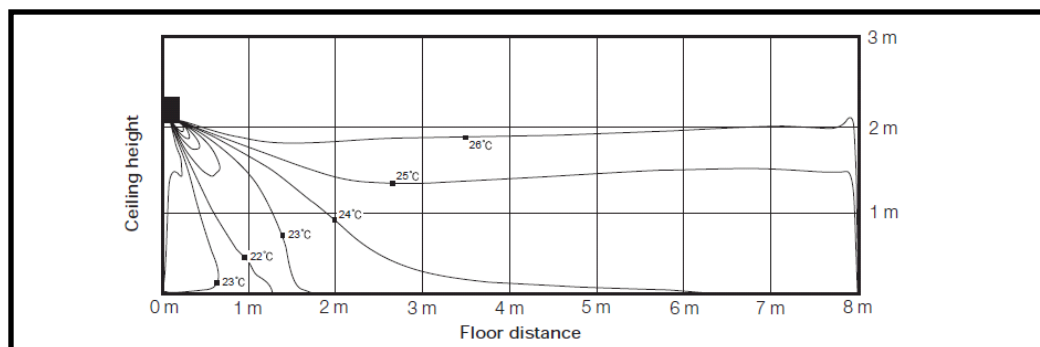
1) Cooling air velocity distribution

◆ Discharge angle : 60°



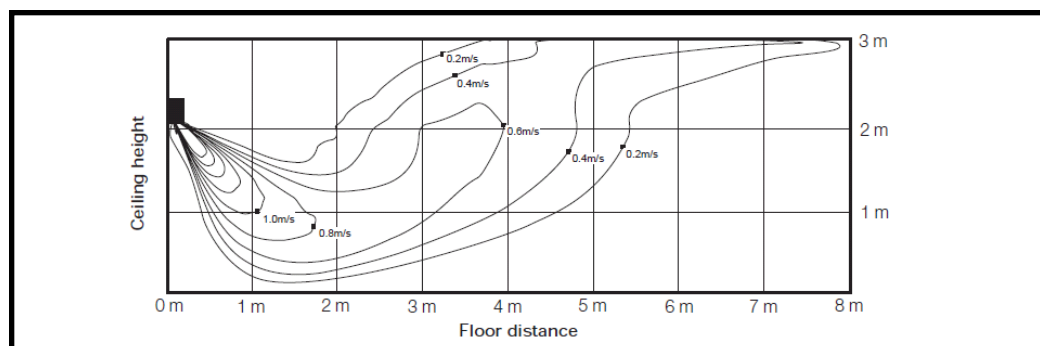
2) Cooling temperature distribution

◆ Discharge angle : 60°



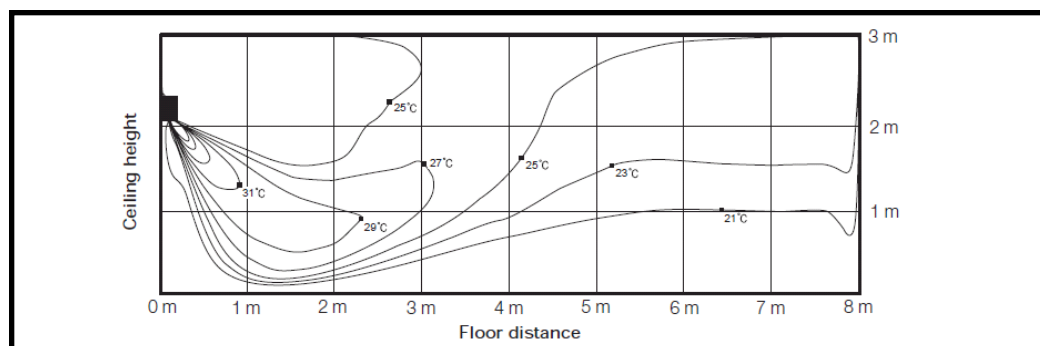
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

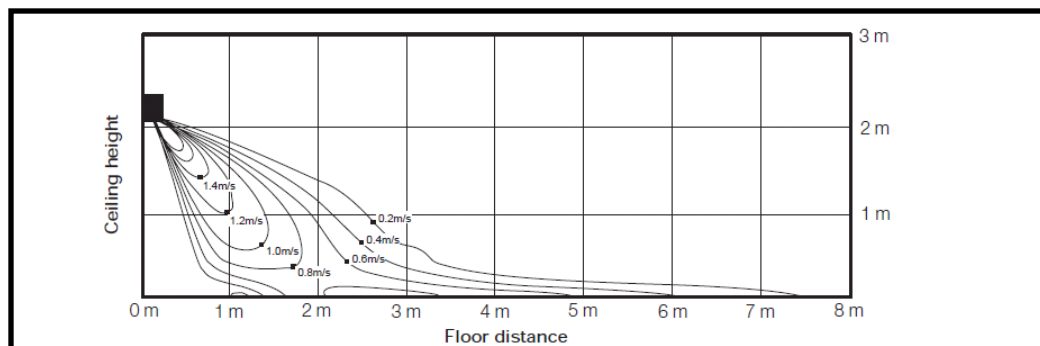


5. Temperature and Air Flow Distribution

5-2. NH071VHXEA

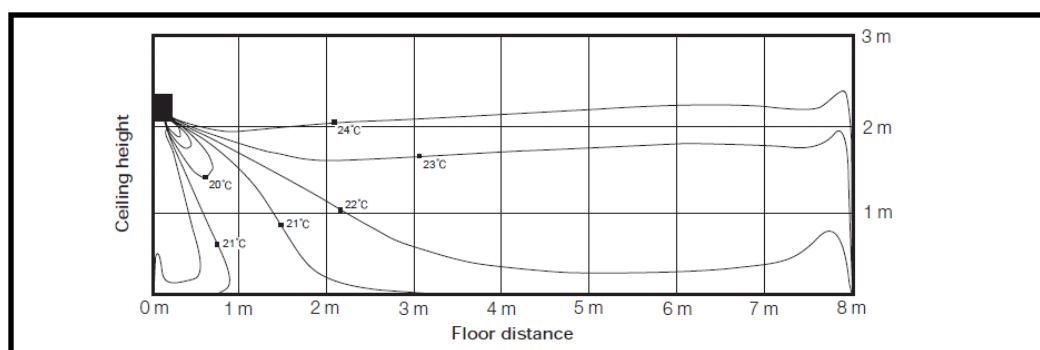
1) Cooling air velocity distribution

◆ Discharge angle : 60°



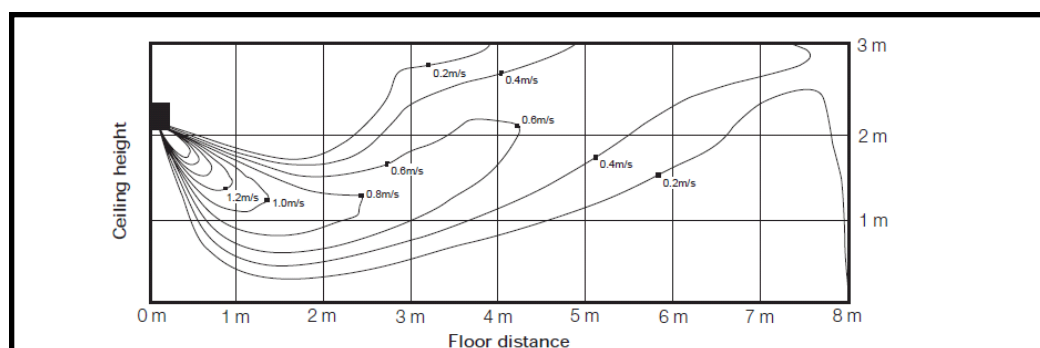
2) Cooling temperature distribution

◆ Discharge angle : 60°



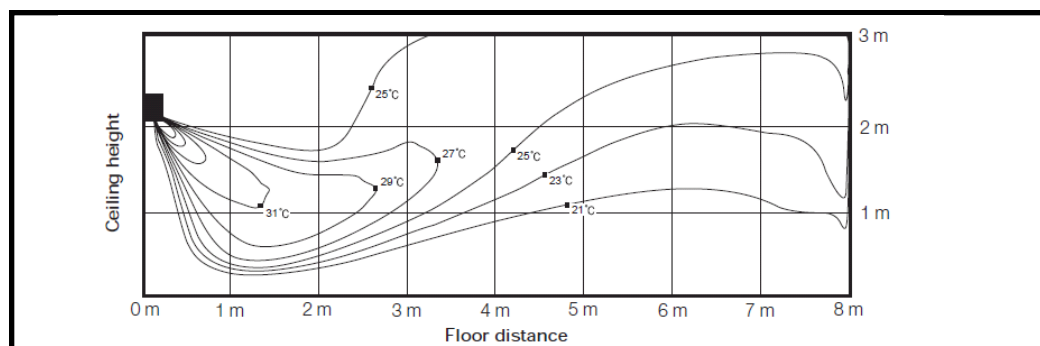
3) Heating air velocity distribution

◆ Discharge angle : 60°



4) Heating temperature distribution

◆ Discharge angle : 60°

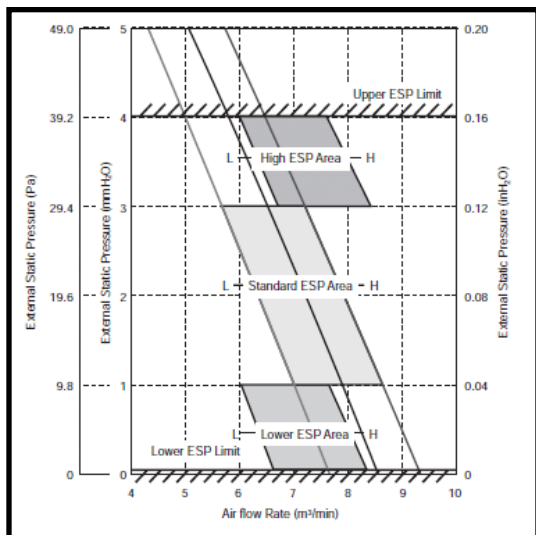


6. Recommended Operation Range

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

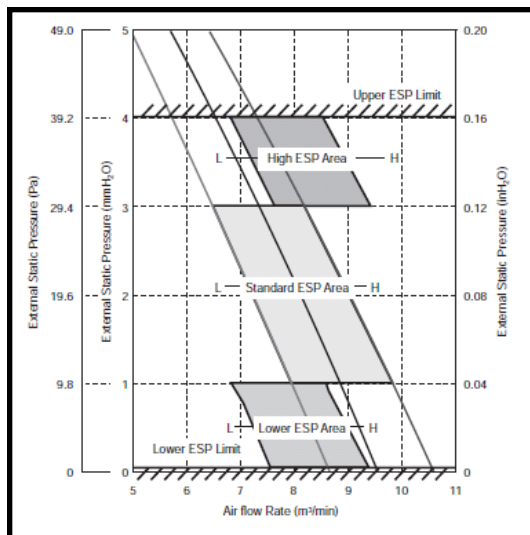
◆ Adjust option code according to the actual installation condition (external static pressure).

1) NH022LHXEA



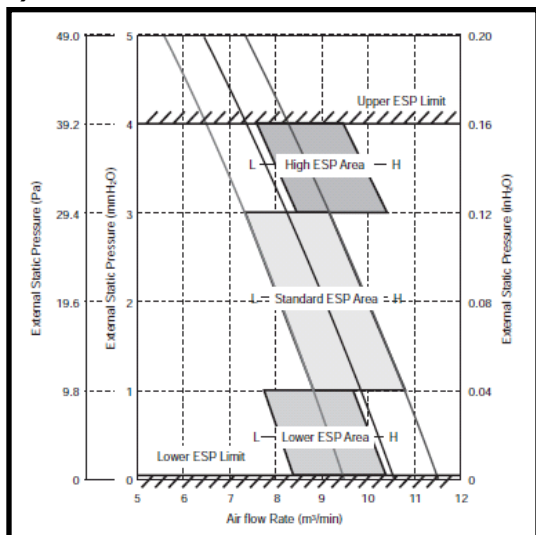
External Static Pressure (mmAq)	Option code
0	015201-1200B6
2	015201-1200EA
4	015201-12021E

2) NH028LHXEA



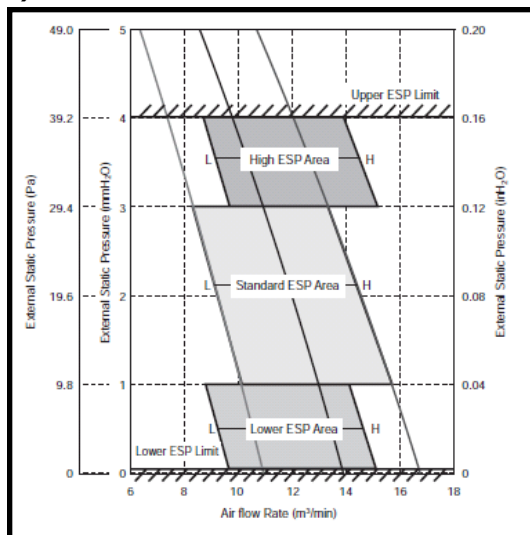
External Static Pressure (mmAq)	Option code
0	015201-1400E8
2	015201-14022C
4	015201-140362

3) NH036LHXEA



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

4) NH045LHXEA



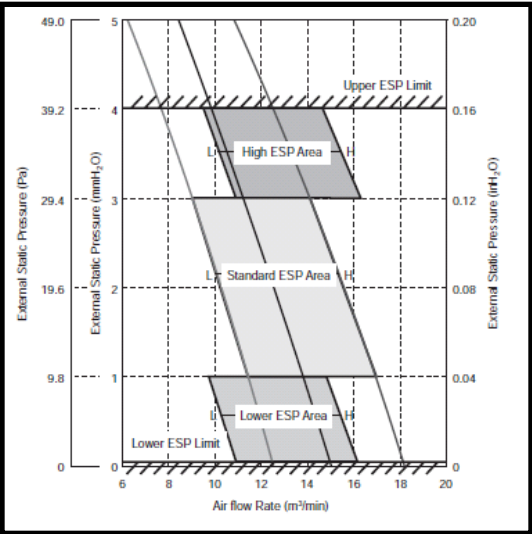
External Static Pressure (mmAq)	Option code
0	015221-1703F3
2	015221-170135
4	015223-1701D9

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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- 2. Electrical Wiring Diagram 38
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- 4. Piping Diagram 40
- 5. Typical Application 41

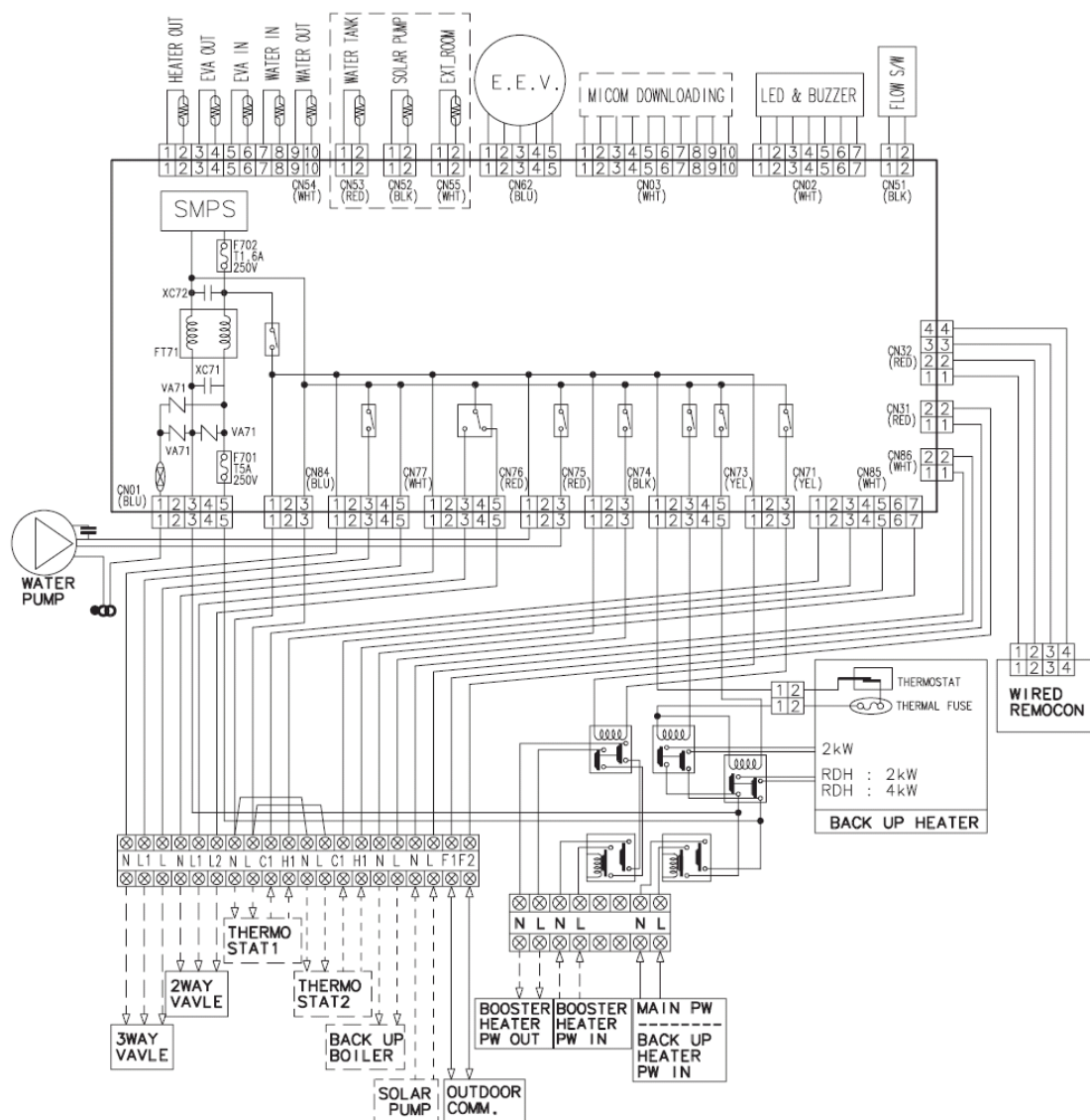
1. Specifications

1-1. Hydro Units

Division		Unit	NH080PHXEA			NH160PHXEA		
Power Source		Ø/V/Hz	1/220~240/50					
Operating Range		℃	0 ~ 32					
Leaving water Temperature Range	Heating	℃	15~55 (H/P : 25~55)			15~55(H/P : 25~55)		
	Cooling	℃	5~25			5~25		
Nonimal Capacity	Heating	W	6,000	7,000	8,000	11,000	14,000	16,000
	Cooling	W	7,000	7,500	8,000	11,300	14,200	15,500
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 1,024 x 412			564 x 1,024 x 412		
Weight	Net	kg	45			48		
	Gross	kg	55			58		
Connecting Pipe [Refrigerant]	Liquid	Ø,mm(In)	9.52 (3/8")			9.52 (3/8")		
	Gas	Ø,mm(In)	15.88 (5/8")			15.88 (5/8")		
Connecting Pipe [Water]	Inlet	Inch	1 1/4" (BSPP)			1 1/4" (BSPP)		
	Outlet	Inch	1 1/4" (BSPP)			1 1/4" (BSPP)		
Heater Exchanger	Type	-	Brazing plate			Brazing plate		
Electric Heater	Input	kW	4 (2 + 2)			6 (2 + 4)		
	material	-	Incoloy 800					
Air Purge Valve		Inch	3/8" (BSPP)					
Flow Switch		LPM	12 ± 1.5			16 ± 1.5		
Expansion Vessel		L	8.0			8.0		
Pressure Relief Valve	Size	Inch	3/8" (BSPP)			3/8" (BSPP)		
	Pressure	bar	2.9					

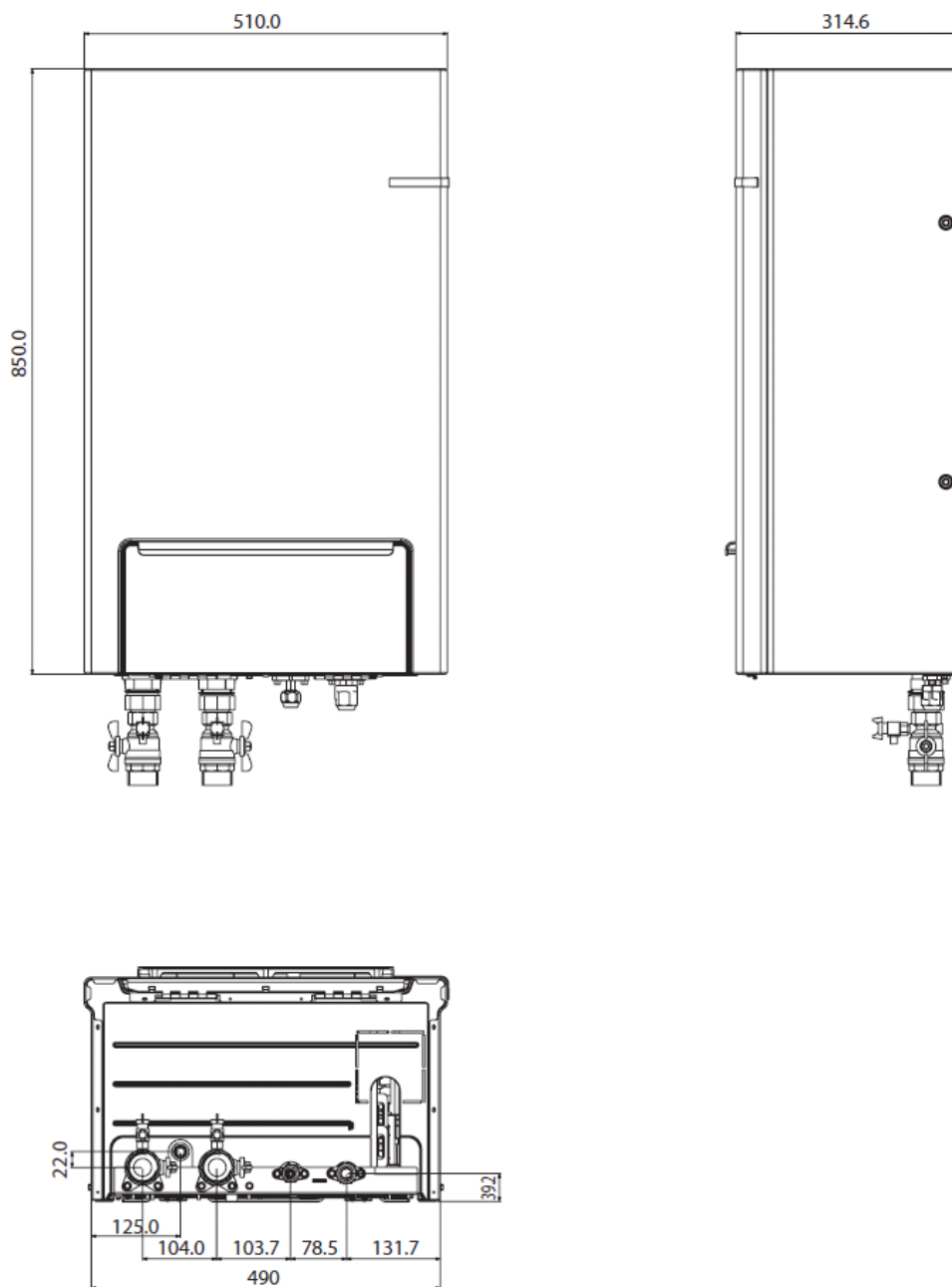
2. Electrical Wiring Diagram

2-1. NH080/160PHXEA



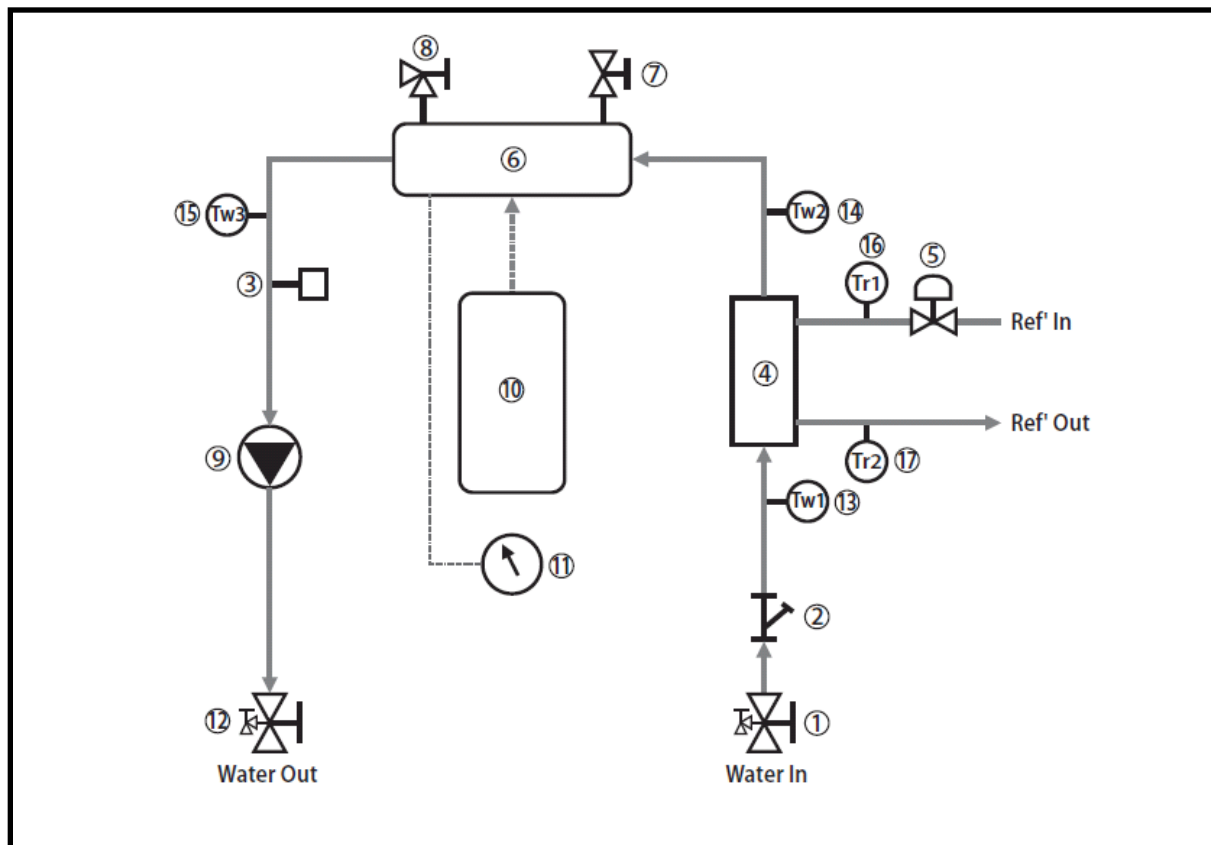
3. Dimensional Drawing

3-4. NH080/160PHXEA



4. Piping Diagram

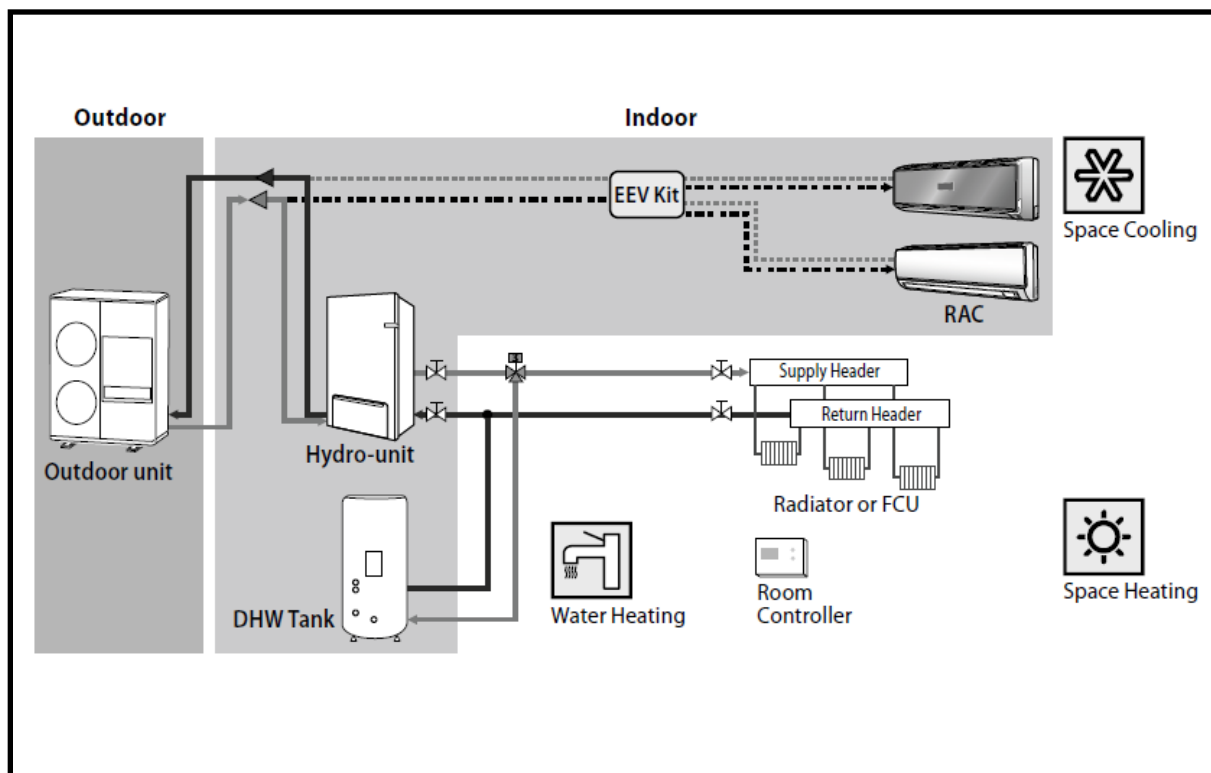
4-1 NH080/160PHXEA



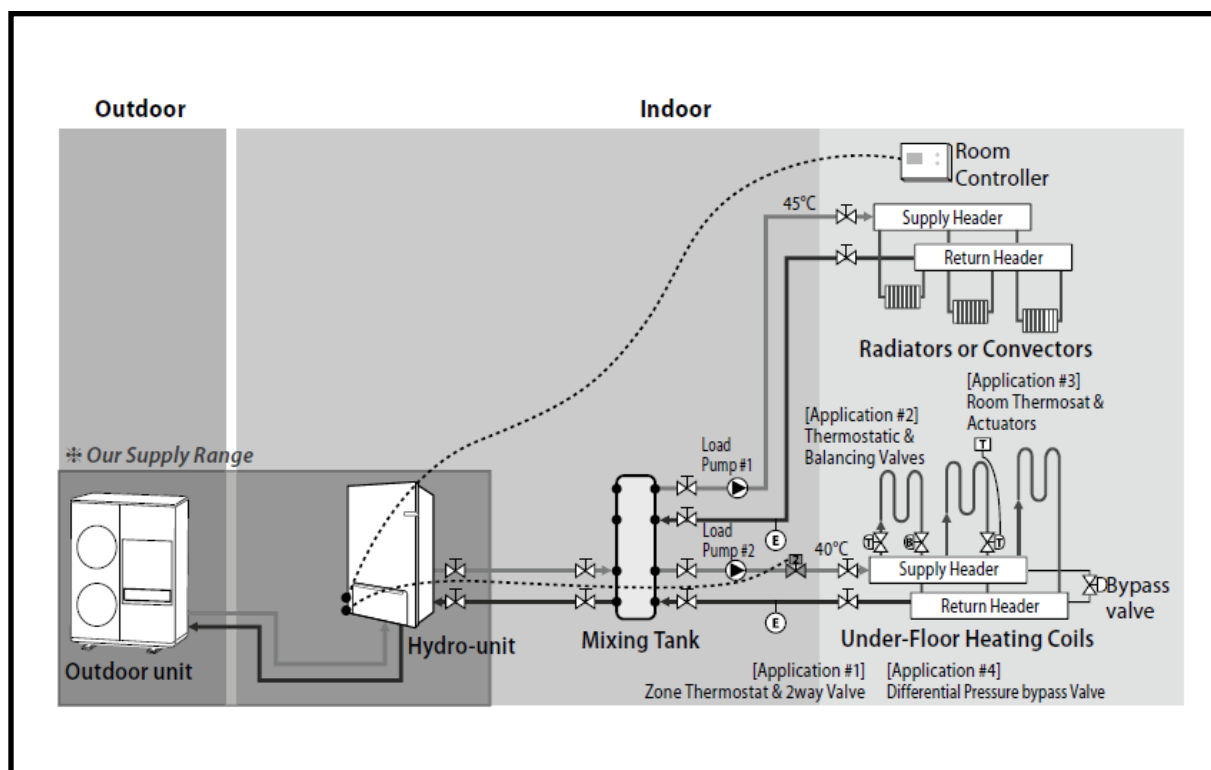
No.	Note
1	Service valve(R)
2	Strainer
3	Flow switch
4	Heat exchanger
5	EEV kit
6	Backup heater
7	Pressure relief valve
8	Air vent
9	Water pump
10	Expansion tank
11	Manometer
12	Service valve(L)
13	Water temp. sensor 1
14	Water temp. sensor 2
15	Water temp. sensor 3
16	Refrigerant temp. sensor 1
17	Refrigerant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

5. Typical Application

5-1. TDM(Time Division Multi)

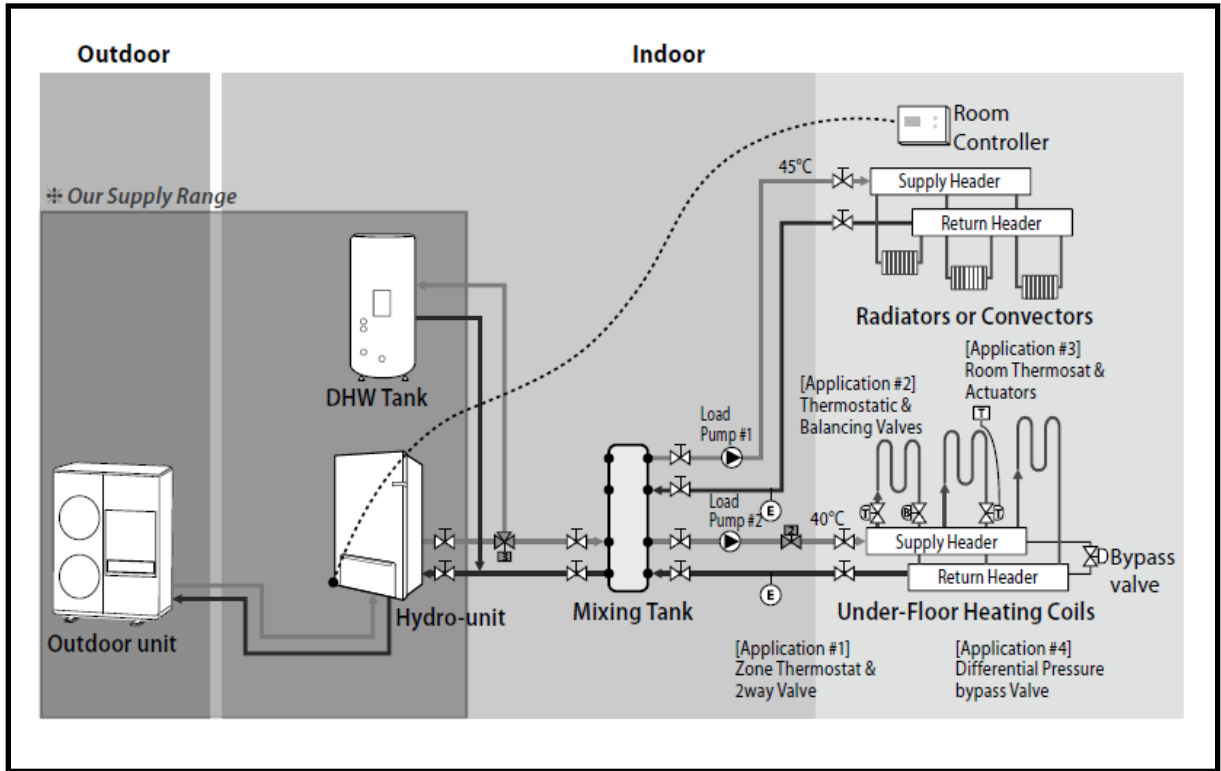


5-2. Space heating

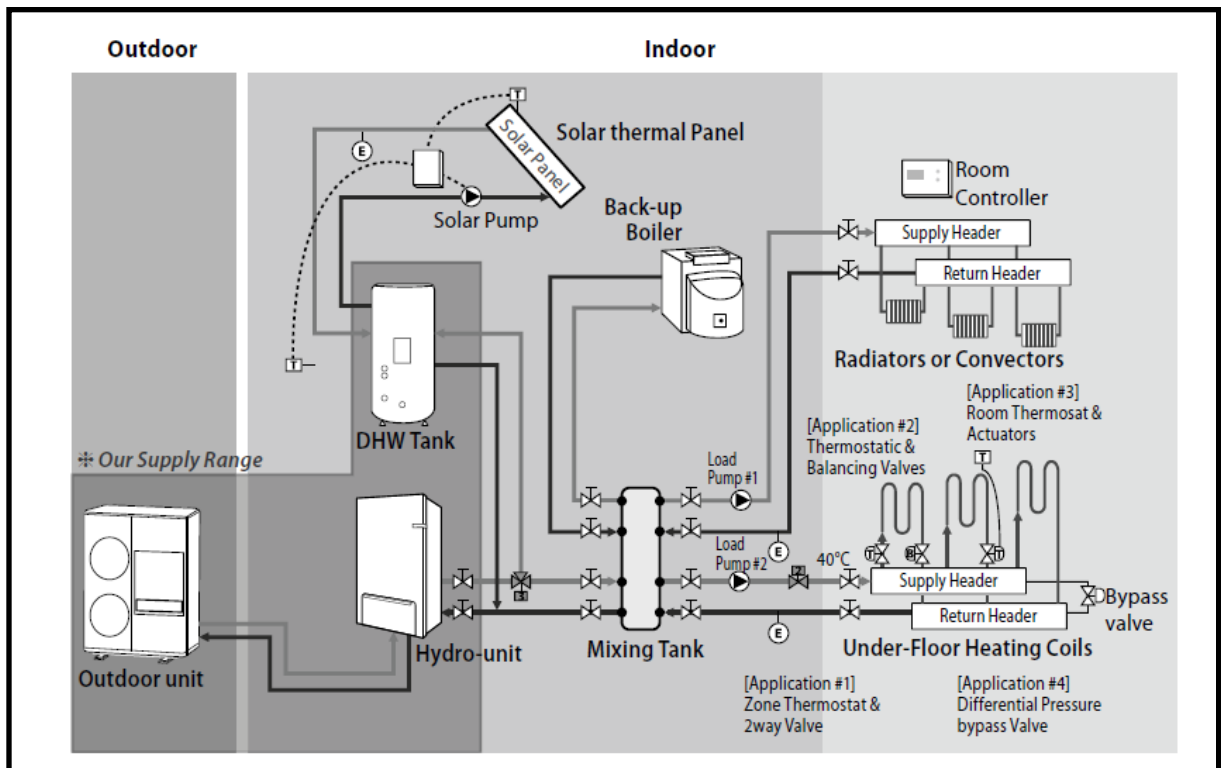


5. Typical Application

5-3. Space heating + water heating



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



IV. DHW Tanks

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- 4. Recommended Operation Range 47
- 5. Space Requirements 48

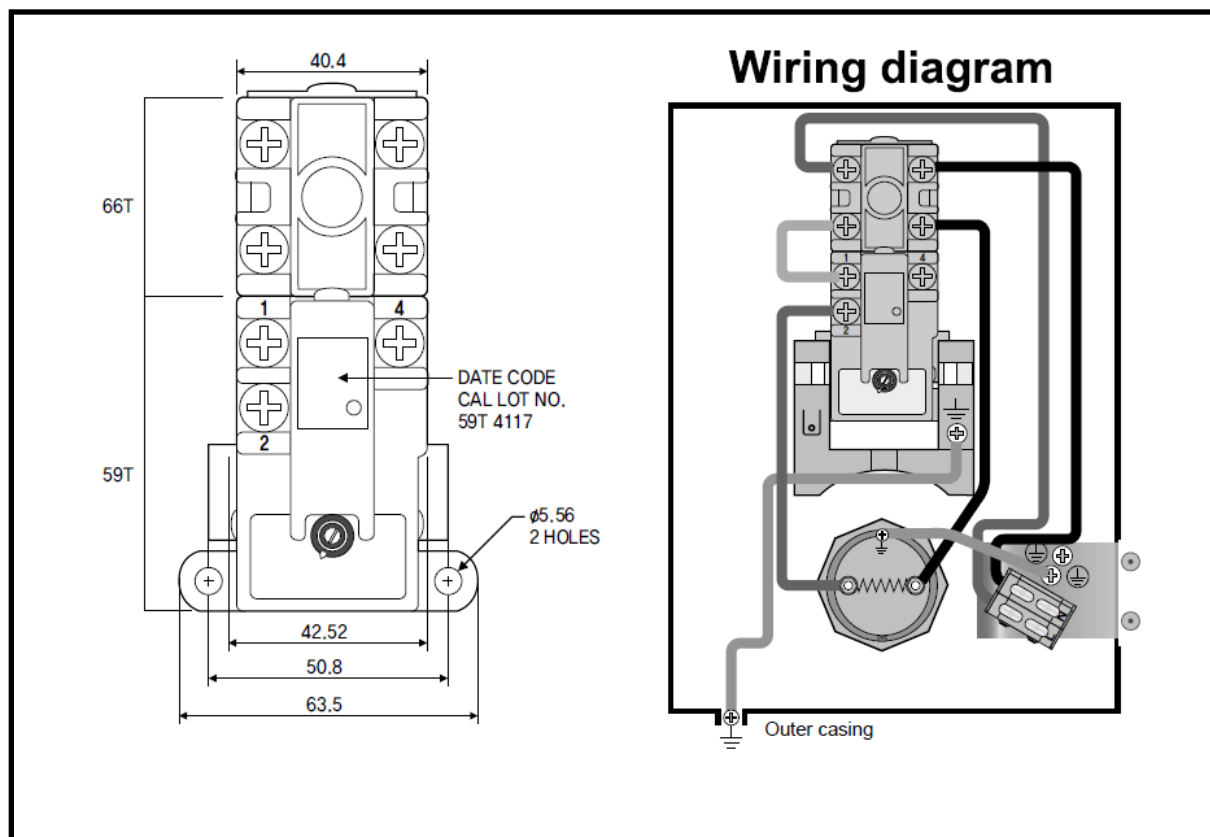
1. Specifications

1-1. DHW Tanks

Division		Unit	Standard		Solar Connected	
			NH200WHXEA	NH300WHXEA	NH200WHXES	NH300WHXES
Power Source		Ø/V/Hz	1/220~240/50			
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			
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	1,130	1,580	1,130	1,580
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	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

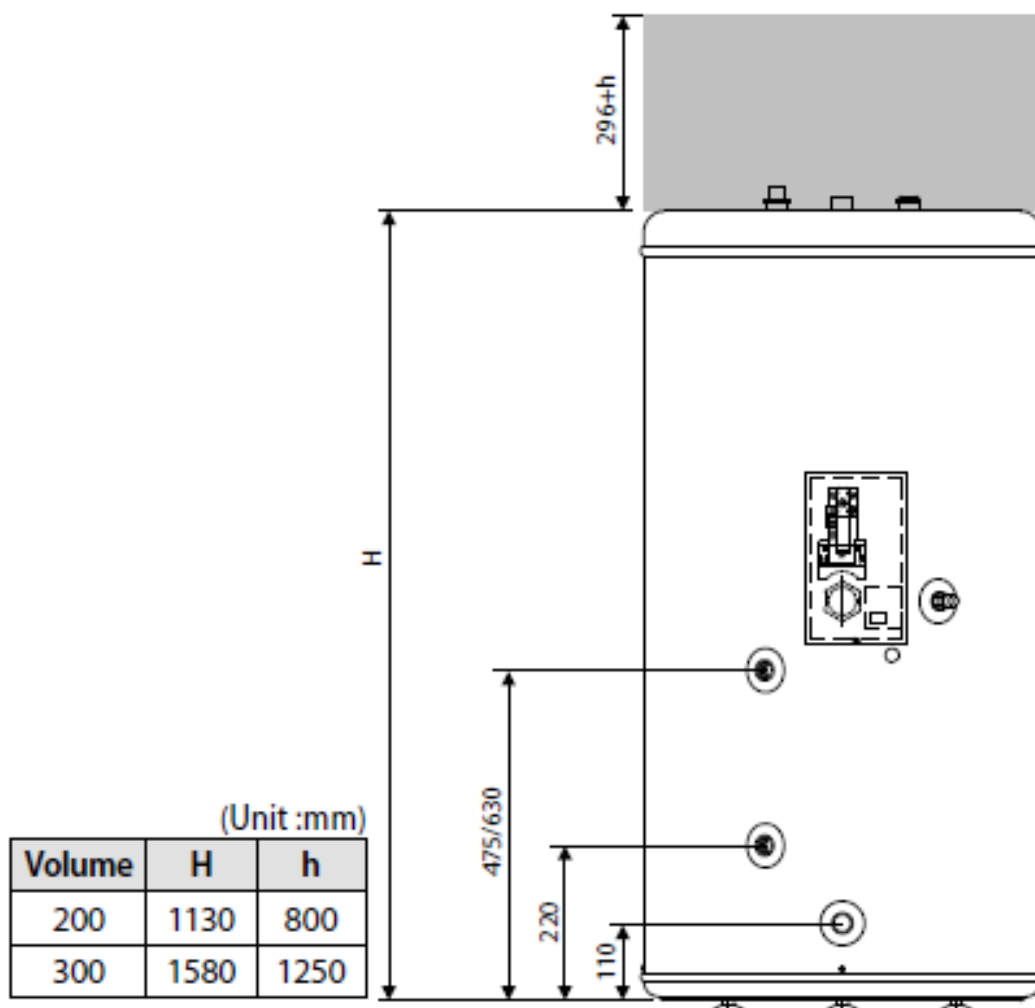
2-1. NH200/300WHXEA/S



- ▶ 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

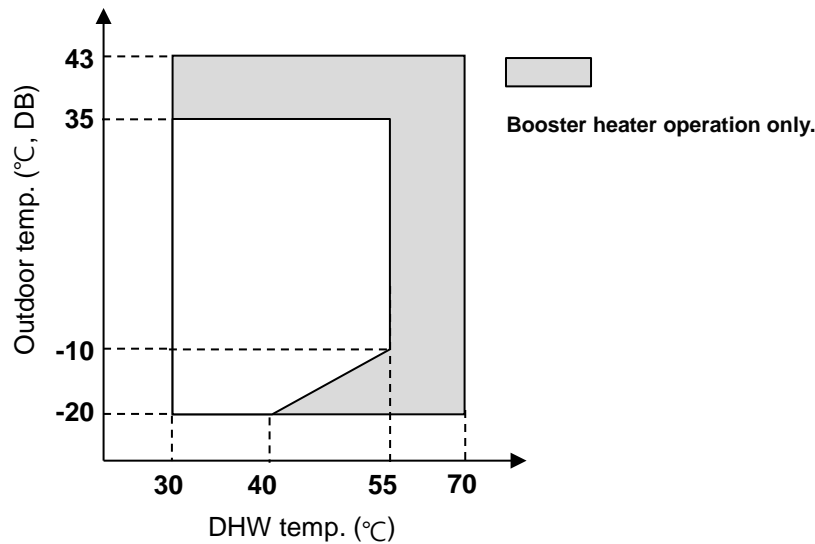
3-1. NH200/300WHXEA/S



4. Recommended operation range

4-1. NH200/300WHXEA/S

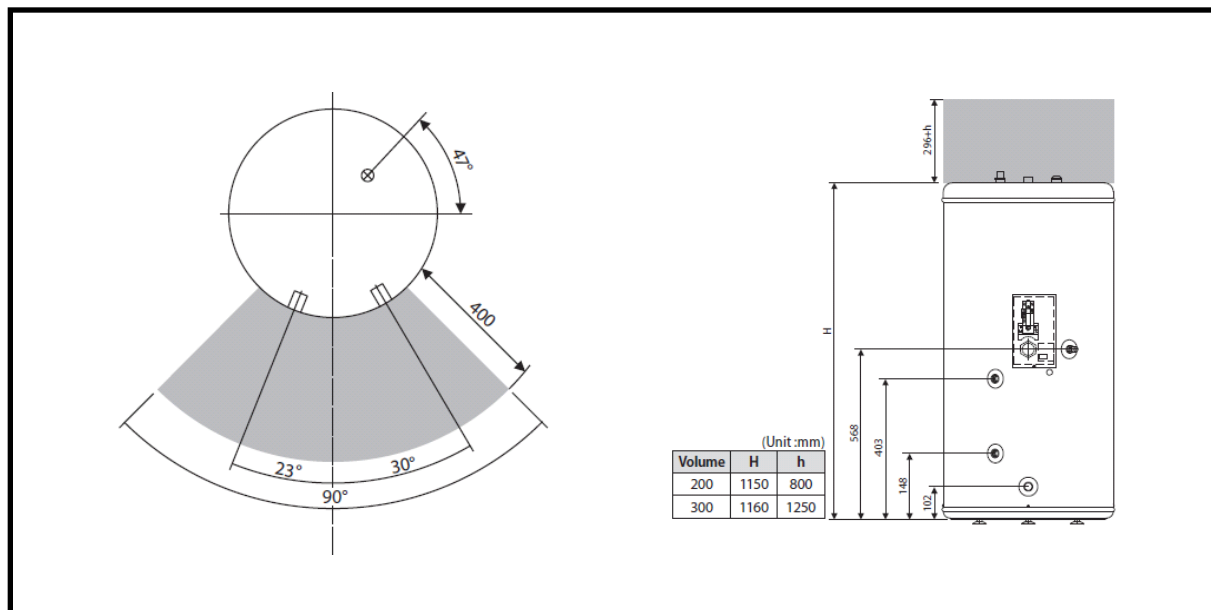
1) DHW Mode



Cylinder Unit		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						
Cooling	Outlet	30	-	70	-	-	-	-20/-	-	43/26

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. Outdoor Unit

Model Name				RD060PHXEA	RD070PHXEA	RD080PHXEA	
Mode			-	Heat Pump (A2A/A2W Multi)	Heat Pump (A2A/A2W Multi)	Heat Pump (A2A/A2W Multi)	
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
Performance (A2W #1)	Nominal Capacity ^{*1)}	Heating (Min/Std/Max)	W	2,143/6,000/6,000	2,059/7,000/7,000	2,069/8,000/8,000	
			Btu/h	7,321/20,500/20,500	7,029/23,900/23,900	7,060/27,300/27,300	
		Cooling (Min/Std/Max)	W	2,100/7,000/7,000	2,083/7,500/7,500	2,034/8,000/8,000	
			Btu/h	7,170/23,900/23,900	7,111/25,600/25,600	6,941/27,300/27,300	
	Nominal Power Input ^{*1)}	Heating (Min/Std/Max)	W	466/1,305/1,305	468/1,590/1,590	498/1,925/1,925	
		Cooling (Min/Std/Max)	W	584/1,945/1,945	613/2,205/2,205	646/2,540/2,540	
	Nominal Current Input ^{*1)}	Heating (Min/Std/Max)	A	2.1/6.0/6.0	2.1/7.3/7.3	2.3/8.8/8.8	
		Cooling (Min/Std/Max)	A	2.7/8.9/8.9	2.8/10.1/10.1	2.9/11.6/11.6	
	COP(Heating) ^{*1)}		W/W	4.60	4.40	4.15	
	EER(Cooling) ^{*1)}		W/W	3.60	3.40	3.15	
ESEER ^{*2)}		W/W	5.20	5.50	4.90		
Peformance (A2W, Low Temperature)	A2/W35	Heating Capacity	W	5,350	6,240	7,130	
		COP	W/W	3.18	3.07	2.77	
	A-7/W35	Heating Capacity	W	5,200	6,200	7,000	
		COP	W/W	2.36	2.48	2.41	
Performance (A2A)	Nominal Capacity	Cooling	W	3,000~6,000	3,500~7,000	4,000~8,000	
			Btu/h	10,200~20,500	11,900~23,900	13,600~27,300	
	Allowable No. of Indoor Units		EA	Max 3	Max 3	Max 3	
	COP(Heating) ^{*3)}		W/W	4.04	4.04	4.04	
	EER(Cooling) ^{*3)}		W/W	3.21	3.21	3.21	
Electric Specification	MCA		A	13.50	16.00	18.00	
	MFA		A	16.88	20.00	22.50	
Refrigerant Side	Compressor	Type	-	Rotary Inverter	Rotary Inverter	Rotary Inverter	
		Model	-	UG8T260FUAEW	UG8T260FUAEW	UG8T260FUAEW	
	Oil	Type	-	POE	POE	POE	
		Type	-	R410A	R410A	R410A	
	Refrigerant	Factory Charging	g	2,200	2,200	2,200	
			Piping Connections	Liquid	Φ, mm	9.52	9.52
		Φ, inch			3/8	3/8	3/8
		Gas		Φ, mm	15.88	15.88	15.88
	Φ, inch			5/8	5/8	5/8	
	Installation Limitation	Length	m	30	30	30	
Height		m	15	15	15		
Base Heater	Capacity	-	W	-	-	-	
Sound	Sound Pressure ^{*3)}	Heating	dB(A)	48	48	49	
		Cooling	dB(A)	48	48	50	
	Sound Power		dB(A)				
External Dimension	Weight	Net	kg	71	71	71	
		Gross	kg	79	79	79	
	Dimensions (WxHxD)	Net	mm	880 x 798 x 310	880 x 798 x 310	880 x 798 x 310	
		Gross	mm	1,023 x 891 x 413	1,023 x 891 x 413	1,023 x 891 x 413	
Operating Range	Ambient (A2W)	Heating	°C	-20~35	-20~35	-20~35	
		Cooling	°C	10~46	10~46	10~46	
		DHW	°C	-20~43	-20~43	-20~43	
	Ambient (A2A)	Heating	°C	-20~24	-20~24	-20~24	
		Cooling	°C	10~43	10~43	10~43	
	Leaving Water	Heating	°C	-	-	-	
Cooling		°C	-	-	-		

*1)~*2) A2W rating conditions in accordance with Eurovent Rating Standard for Liquid Chilling Packages 6/C/003-2008.

*1) A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air DB/WB 7°C/6°C; (Cooling) Water In/Out 23°C/18°C, Outdoor Air DB 35°C.

*2) A2W Condition for ESEER(Cooling) at Water Out 7°C.

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

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

1. Specifications

1-1. Outdoor Unit

Model Name				RD110PHXEA	RD140PHXEA	RD160PHXEA	
Mode			-	Heat Pump (A2A/A2W Multi)	Heat Pump (A2A/A2W Multi)	Heat Pump (A2A/A2W Multi)	
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
Performance (A2W #1)	Nominal Capacity ^{*1)}	Heating (Min/Std/Max)	W	3,587/11,000/11,000	3,621/14,000/14,000	3,692/16,000/16,000	
			Btu/h	12,228/37,500/37,500	12,362/47,800/47,800	12,600/54,600/54,600	
		Cooling (Min/Std/Max)	W	3,767/11,300/11,300	3,804/14,200/14,200	3,750/15,500/15,500	
			Btu/h	12,867/38,600/38,600	12,991/48,500/48,500	12,798/52,900/52,900	
	Nominal Power Input ^{*1)}	Heating (Min/Std/Max)	W	789/2,420/2,420	830/3,210/3,210	900/3,900/3,900	
		Cooling (Min/Std/Max)	W	967/2,900/2,900	1,055/3,940/3,940	1,137/4,700/4,700	
	Nominal Current Input ^{*1)}	Heating (Min/Std/Max)	A	3.5/10.7/10.7	3.7/14.2/14.2	4.0/17.3/17.3	
		Cooling (Min/Std/Max)	A	4.3/12.9/12.9	4.7/17.5/17.5	5.0/20.8/20.8	
	COP(Heating) ^{*1)}		W/W	4.55	4.36		
	EER(Cooling) ^{*1)}		W/W	3.90	3.60	3.30	
ESEER ^{*2)}		W/W	5.96	5.66	5.50		
Peformance (A2W, Low Temperature)	A2/W35	Heating Capacity	W	8,480	9,850	11,580	
		COP	W/W	3.22	2.91	2.85	
	A-7/W35	Heating Capacity	W	9,100	9,500	9,600	
		COP	W/W	2.46	2.32	2.13	
Performance (A2A)	Nominal Capacity	Cooling	W	6,000~11,000	6,400~14,000	6,400~14,000	
			Btu/h	20,500~37,500	21,800~47,800	21,800~47,800	
	Allowable No. of Indoor Units		EA	Max 4	Max 4	Max 4	
	COP(Heating) ^{*3)}		W/W	3.94	3.94	3.94	
	EER(Cooling) ^{*3)}		W/W	3.46	3.46	3.46	
Electric Specification	MCA		A	25.00	28.00	30.00	
	MFA		A	31.25	35.00	37.50	
Refrigerant Side	Compressor	Type	-	Rotary Inverter	Rotary Inverter	Rotary Inverter	
		Model	-	UG5T450FUCEX	UG5T450FUCEX	UG5T450FUCEX	
	Oil	Type	-	POE	POE	POE	
		Type	-	R410A	R410A	R410A	
	Refrigerant	Factory Charging	g	3,300	3,300	3,300	
		Piping Connections	Liquid	Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
	Gas		Φ, mm	15.88	15.88	15.88	
			Φ, inch	5/8	5/8	5/8	
Installation Limitation	Length	m	70	70	70		
	Height	m	30	30	30		
Base Heater	Capacity	-	W	-	-	-	
Sound	Sound Pressure ^{*3)}	Heating	dB(A)	49	51	53	
		Cooling	dB(A)	50	52	54	
	Sound Power		dB(A)				
External Dimension	Weight	Net	kg	108	108	108	
		Gross	kg	116	116	116	
	Dimensions (WxHxD)	Net	mm	932 x 1,128 x 375	932 x 1,128 x 375	932 x 1,128 x 375	
		Gross	mm	1,091 x 1,286 x 472	1,091 x 1,286 x 472	1,091 x 1,286 x 472	
Operating Range	Ambient (A2W)	Heating	°C	-20~35	-20~35	-20~35	
		Cooling	°C	10~46	10~46	10~46	
		DHW	°C	-20~43	-20~43	-20~43	
	Ambient (A2A)	Heating	°C	-20~24	-20~24	-20~24	
		Cooling	°C	10~43	10~43	10~43	
	Leaving Water	Heating	°C	-	-	-	
Cooling		°C	-	-	-		

*1)~*2) A2W rating conditions in accordance with Eurovent Rating Standard for Liquid Chilling Packages 6/C/003-2008.

*1) A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air DB/WB 7°C/6°C; (Cooling) Water In/Out 23°C/18°C, Outdoor Air DB 35°C.

*2) A2W Condition for ESEER(Cooling) at Water Out 7°C.

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

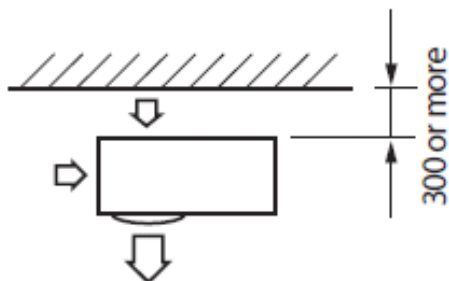
4) These products contain R410A which is fluorinated greenhouse gas

2. Space Requirements

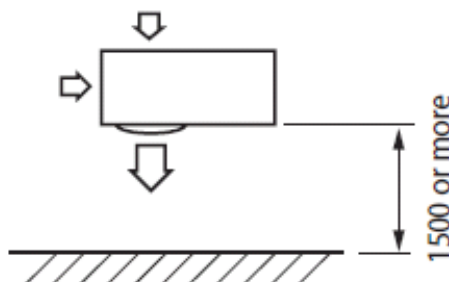
2-1. 1 outdoor unit

(Unit : mm)

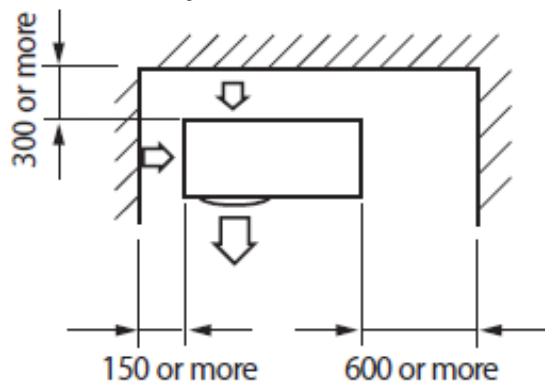
※ When the air outlet is opposite the wall



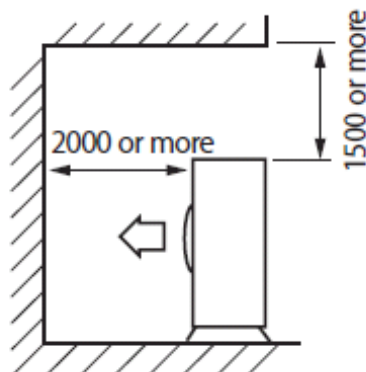
※ When the air outlet is toward the wall



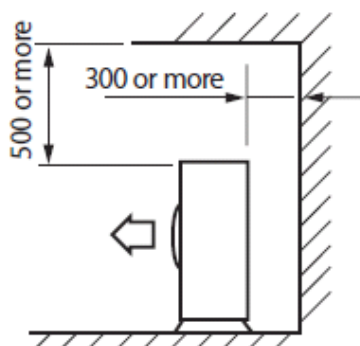
※ When 3 sides of the outdoor unit are blocked by the wall



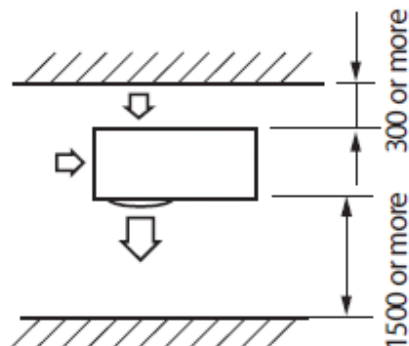
※ The upper part of the outdoor unit and the air outlet is toward the wall



※ 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

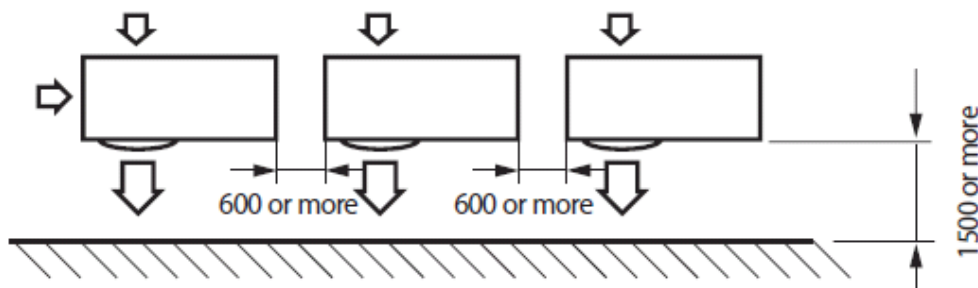


2. Space Requirements

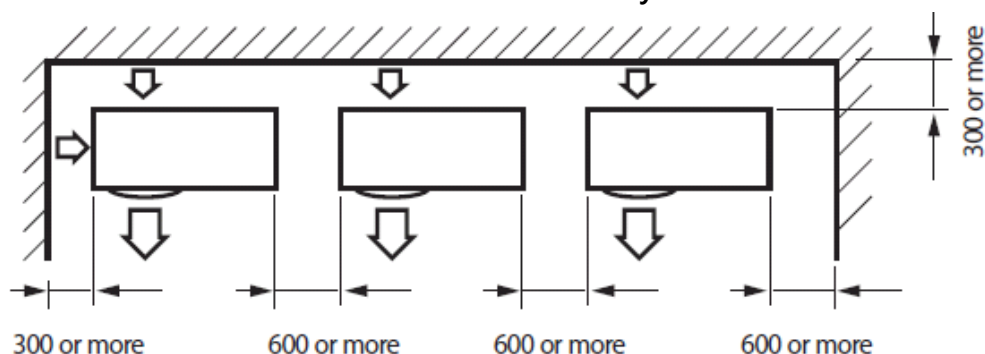
2-2. more than 1 outdoor unit

(Unit : mm)

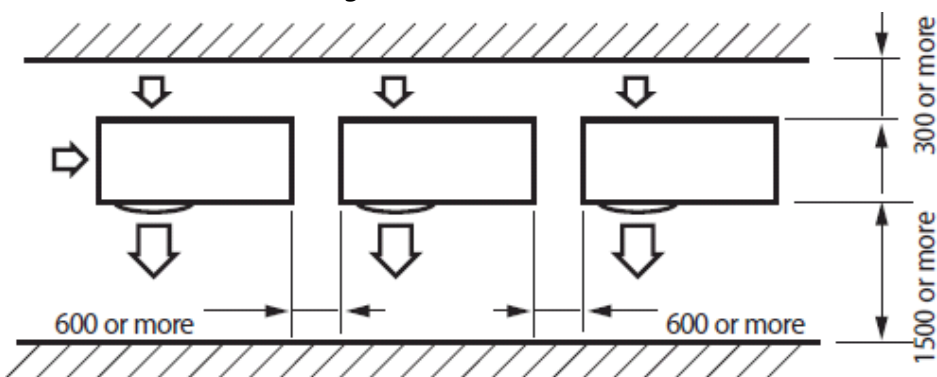
※ When the air outlet is toward the wall



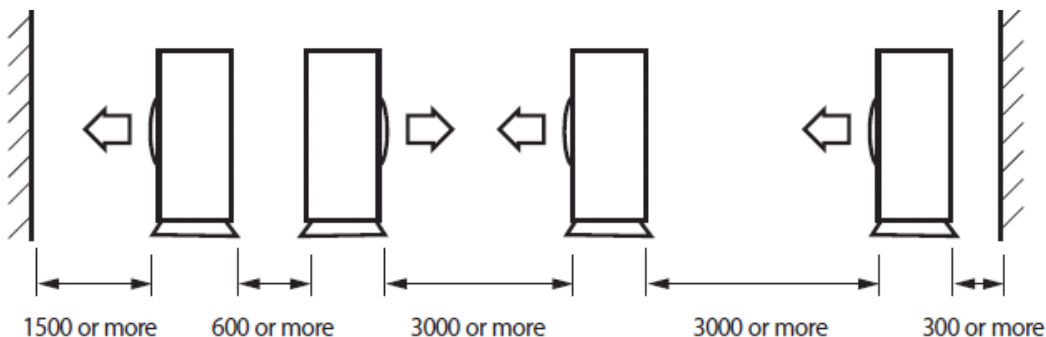
※ When 3 sides of the outdoor unit are blocked by the wall



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

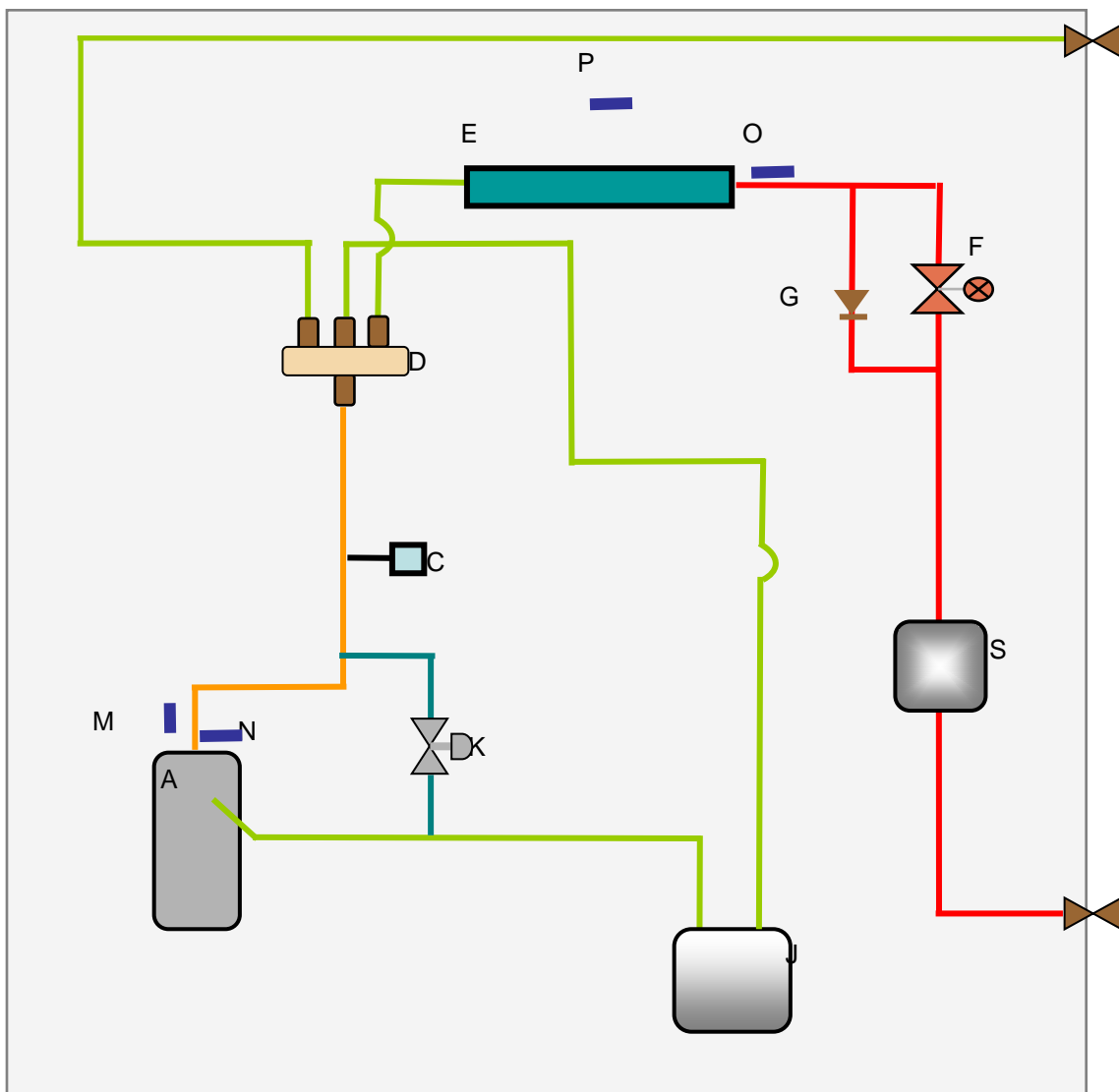


※ When front and rear side of the outdoor unit is toward the wall



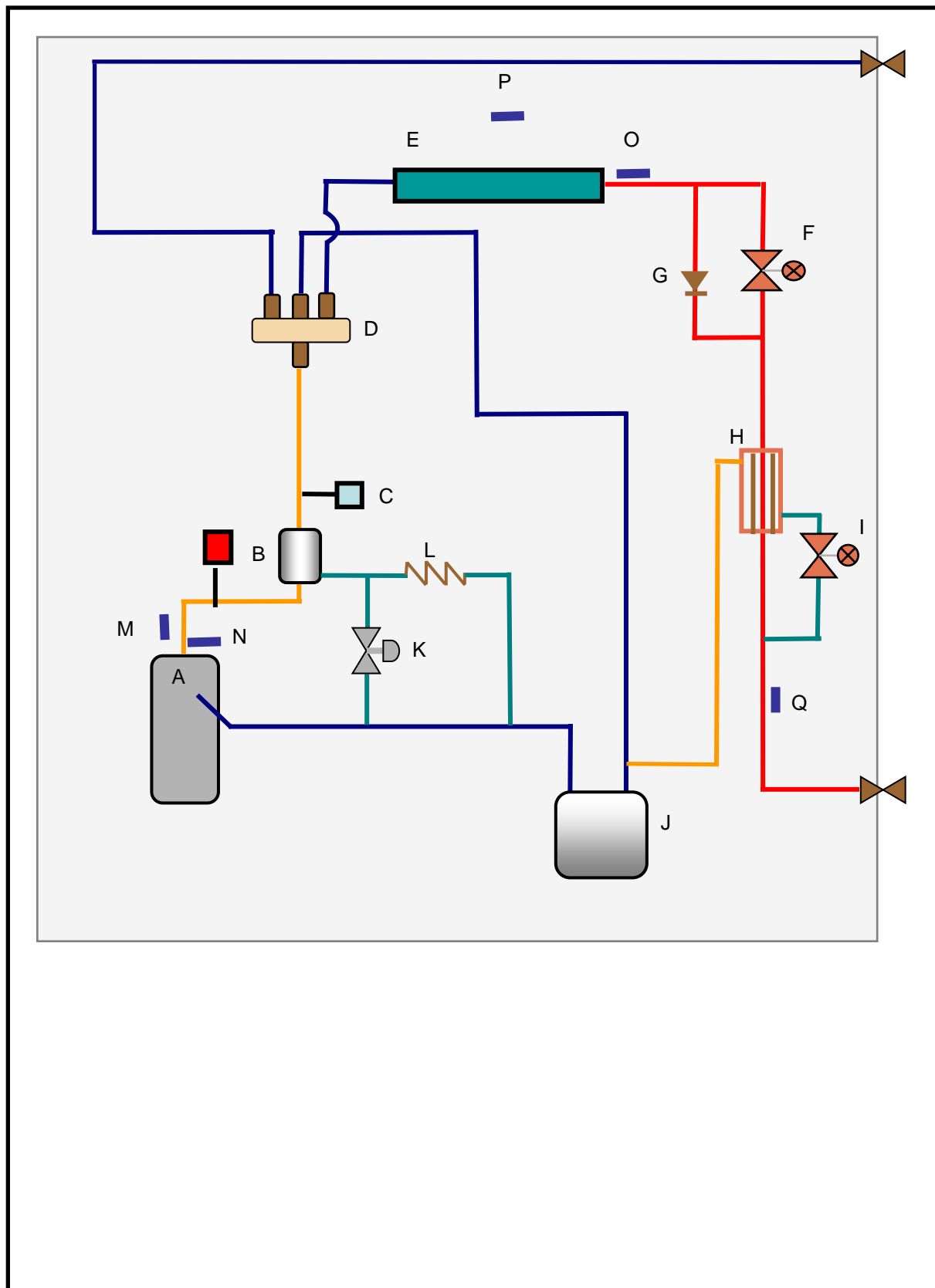
3. Cycle Operation Mode

3-1. RD060/070/080PHXEA



3. Cycle Operation Mode









3-2. RD110/140/160PHXEA

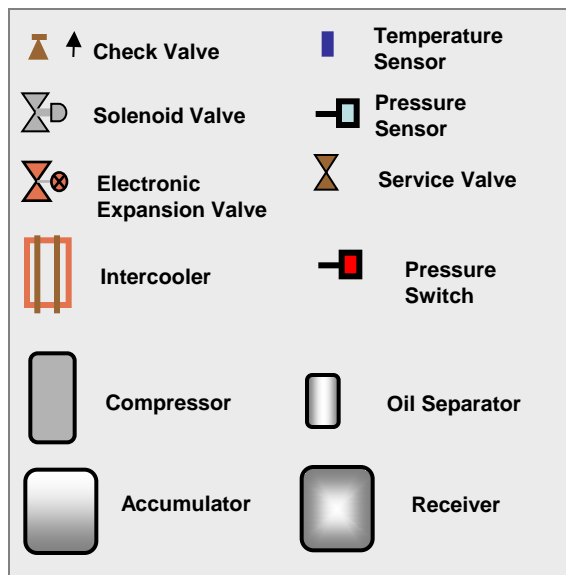


3. Cycle Operation Mode

3-3. Description of cycle function parts

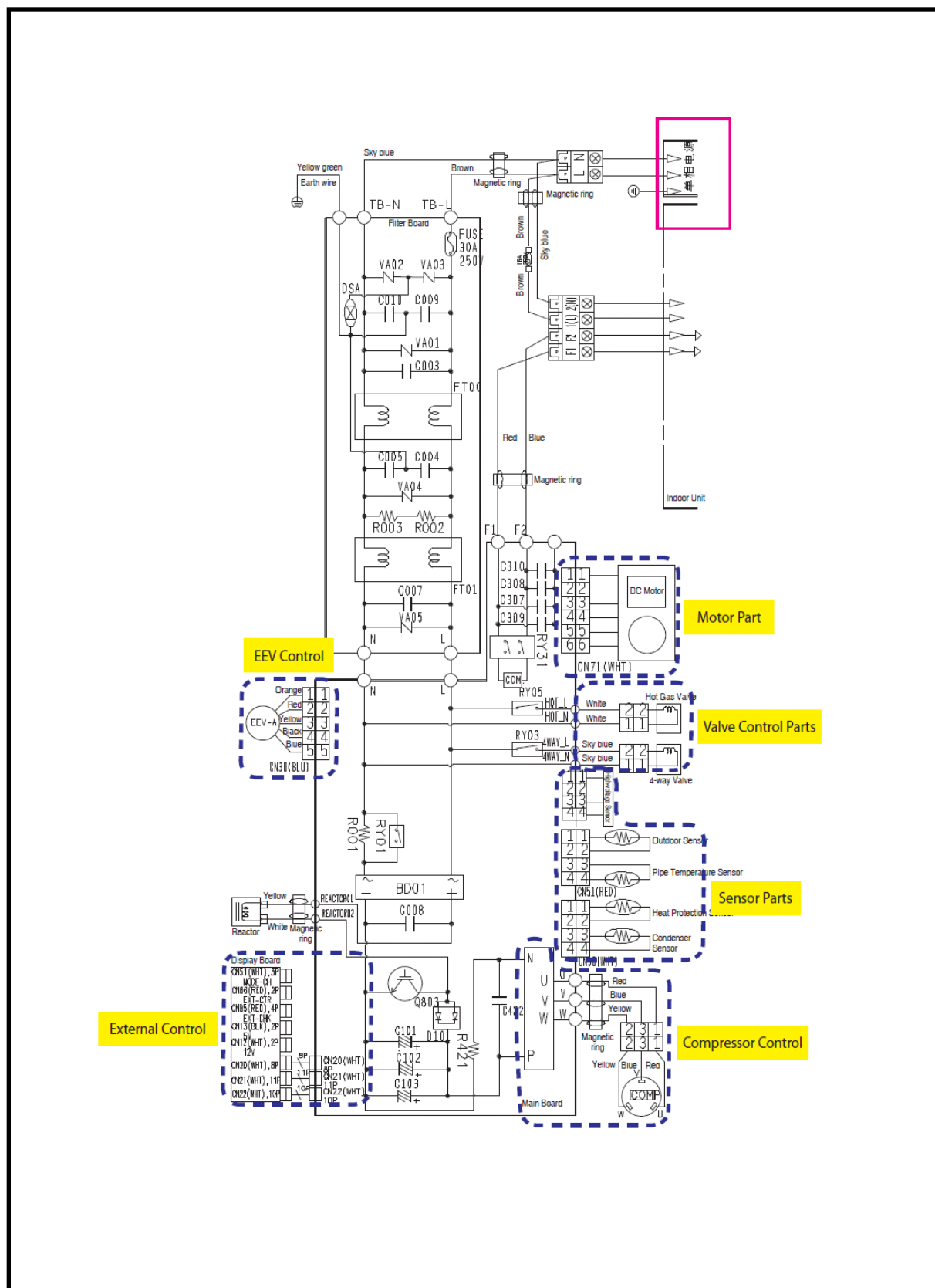
Classification	Description
A	Rotary Comp
B	Oil Separator
C	High Pressure Sensor
D	4 Way Valve (V/V)
E	Outdoor Heat Exchanger
F	Main EEV
G	Main EEV Check Valve
H	Intercooler
I	ESC EEV
J	Accumulator
K	Hot-Gas Bypass Valve
L	Capillary
M	Discharge Temp
N	Top Temp
O	Cond. Out Temp
P	Ambient Temp
Q	Tsc
R	Tso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

Piping	Diameter
	6.35
	9.52
	12.7
	15.88
	19.05
	22.7
	25.4
	28.7



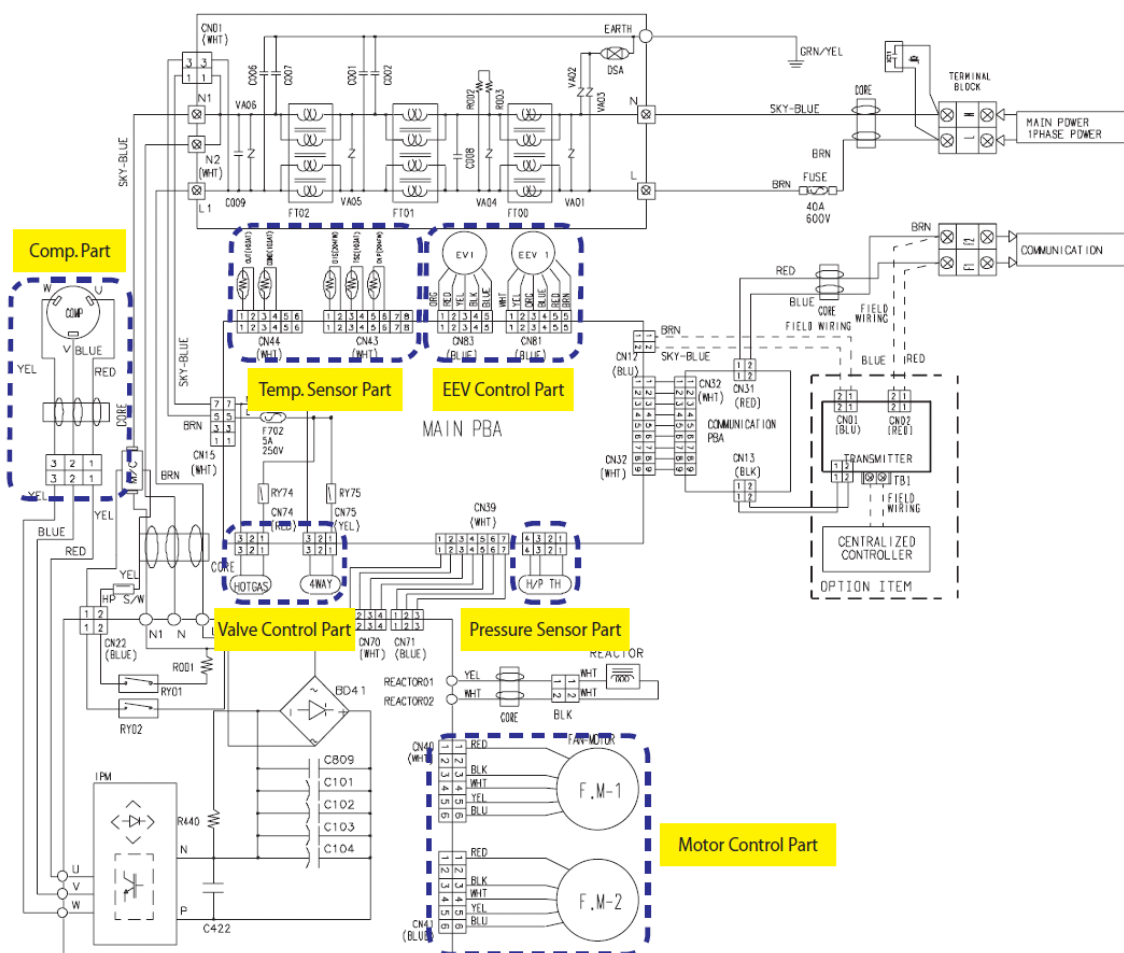
4. Electrical Wiring Diagram

4-1. RD060/070/080PHXA



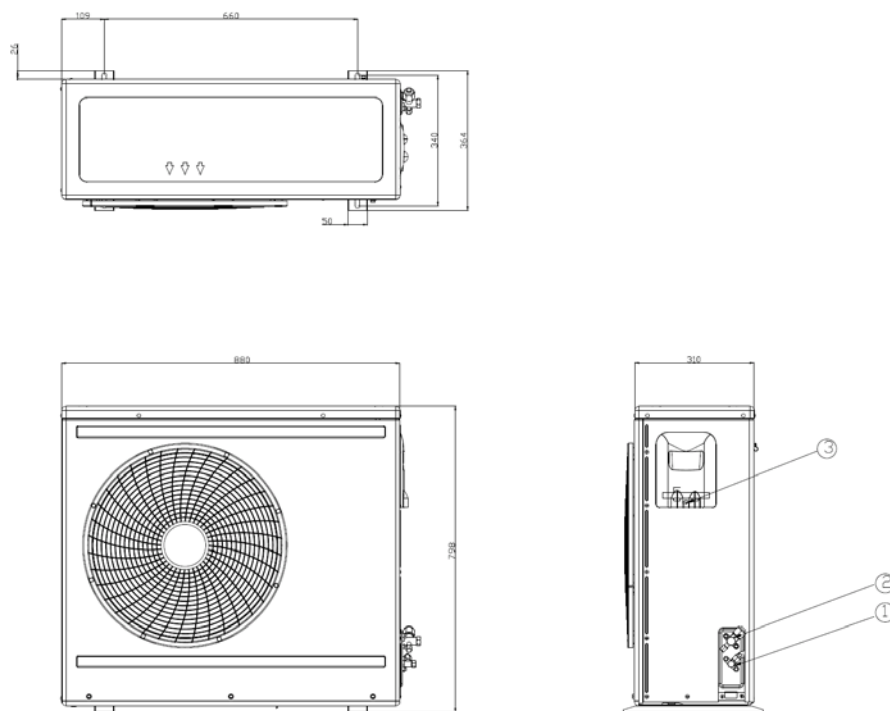
4. Electrical Wiring Diagram

4-2. RD110/140/160PHXEA



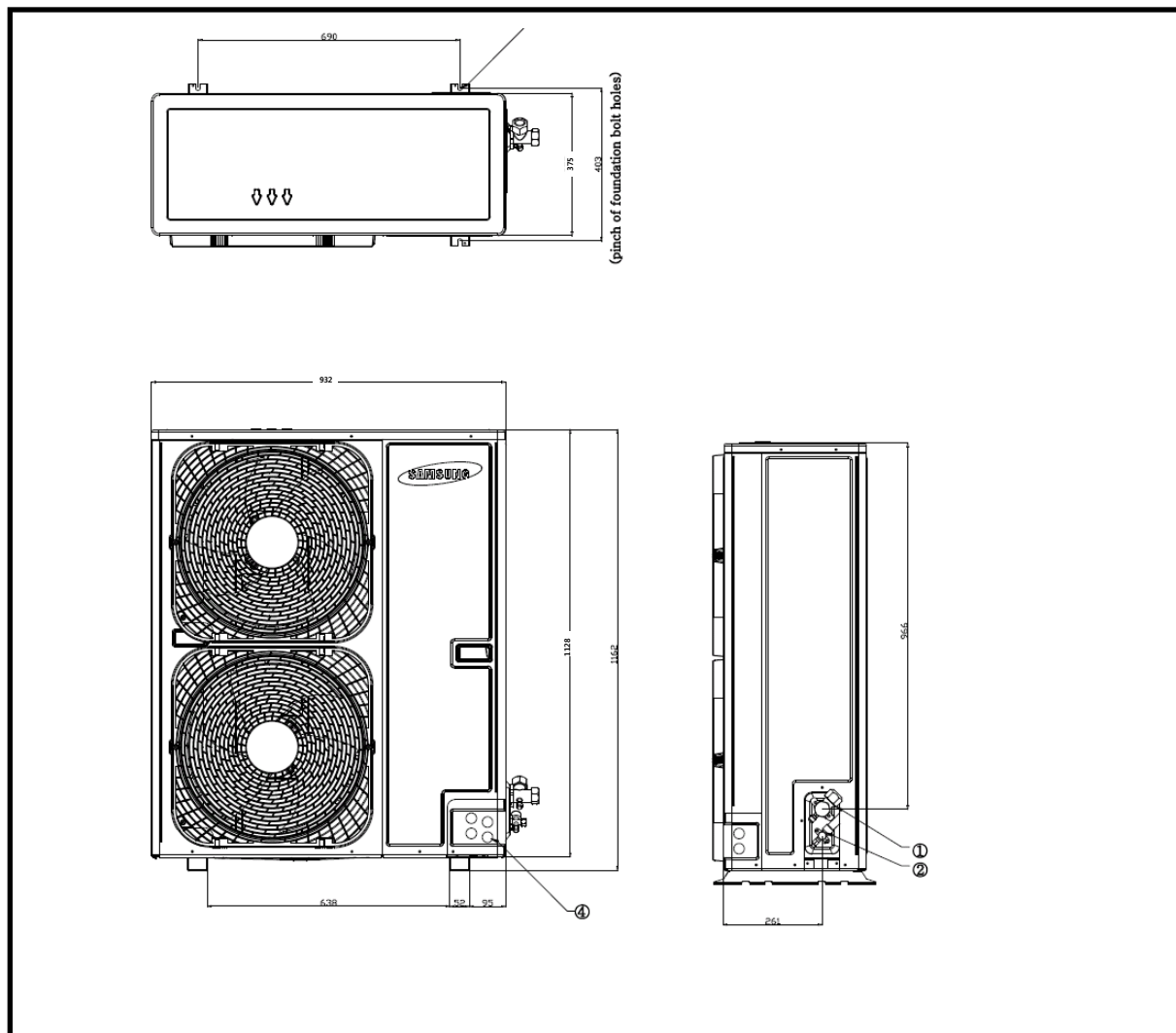
5. Dimensional Drawing

5-1. RD060/070/080PHXEA



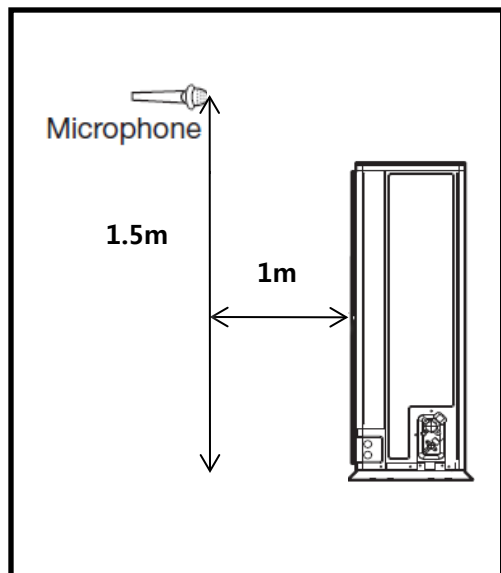
5. Dimensional Drawing

5-2. RD110/140/160PHXEA



6. Sound Pressure Level

6-1. RD060/070/080PHXEA



Unit : dB(A)

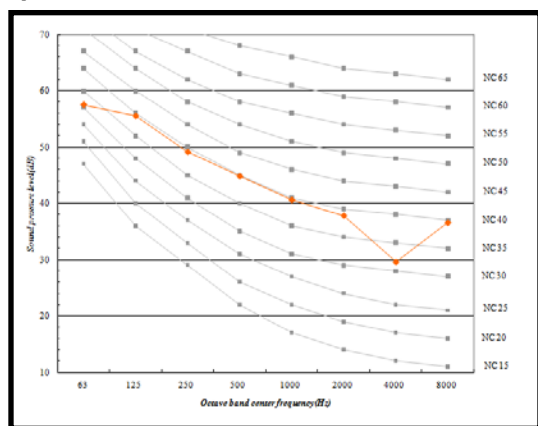
Model	Cooling	Heating
RD060PHXEA	48	48
RD070PHXEA	48	48
RD080PHXEA	50	49

※ Note

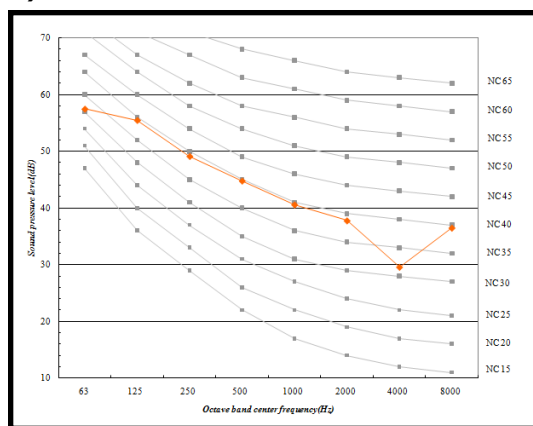
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-6. NC curves (Heating)

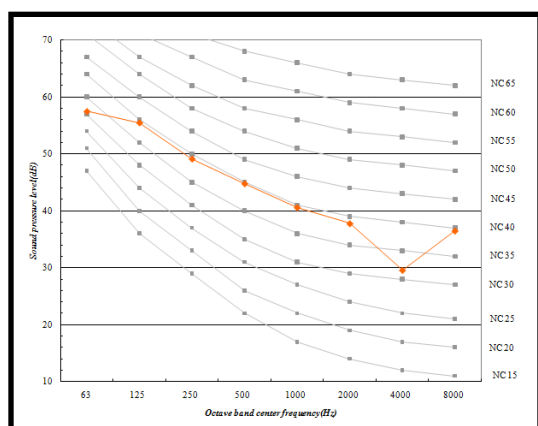
1) RD060PHXEA



2) RD070PHXEA

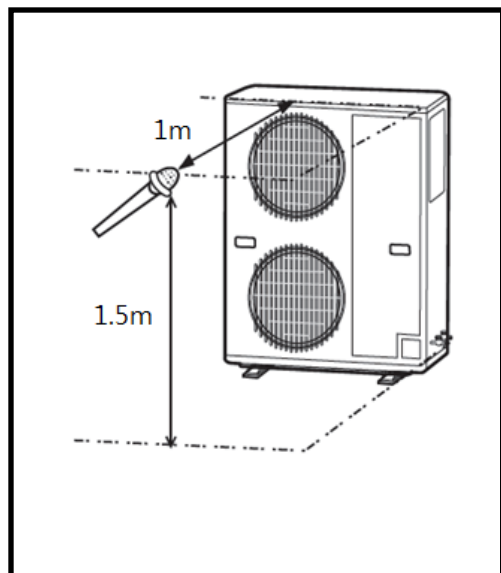


3) RD080PHXEA



6. Sound Pressure Level

6-2. RD110/140/160PHXEA



Unit : dB(A)

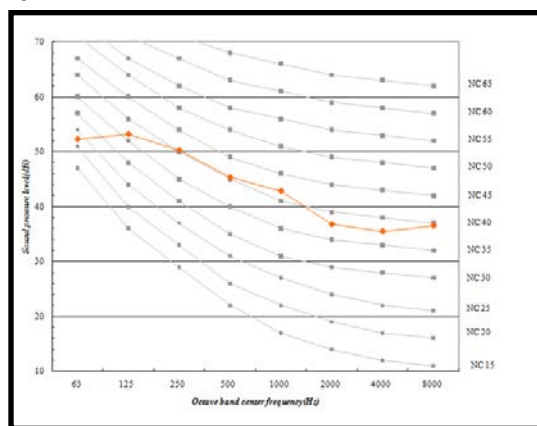
Model	Cooling	Heating
RD110PHXEA	50	49
RD140PHXEA	52	51
RD160PHXEA	54	53

※ Note

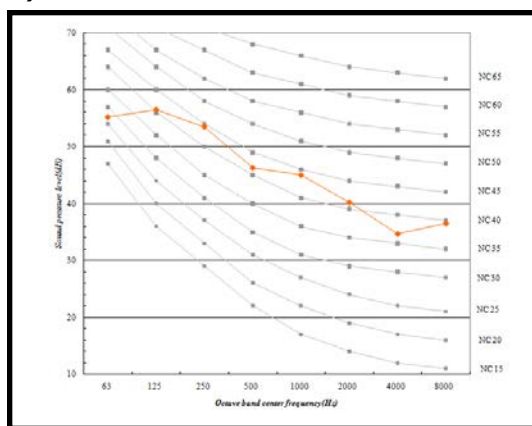
- ◆ There operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

4-6. NC curves (Heating)

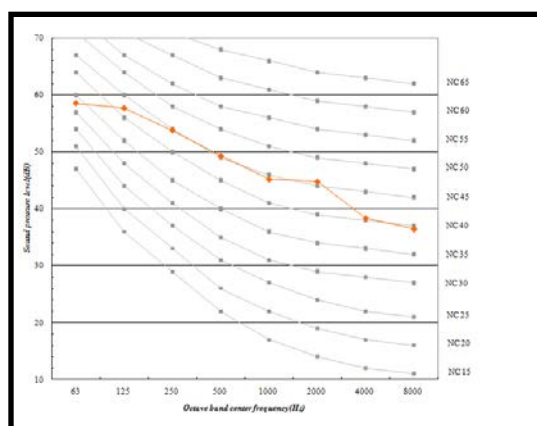
1) RD110PHXEA



2) RD140PHXEA



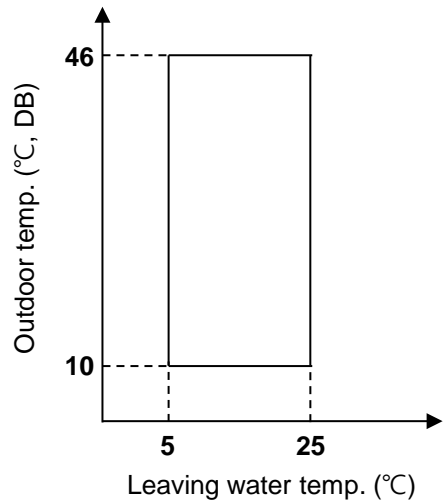
3) RD160PHXEA



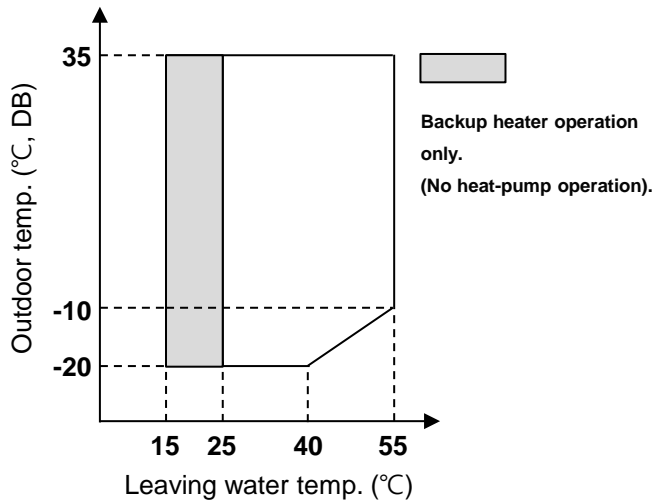
7. Recommended Operation Range

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

1) Cooling



2) Heating



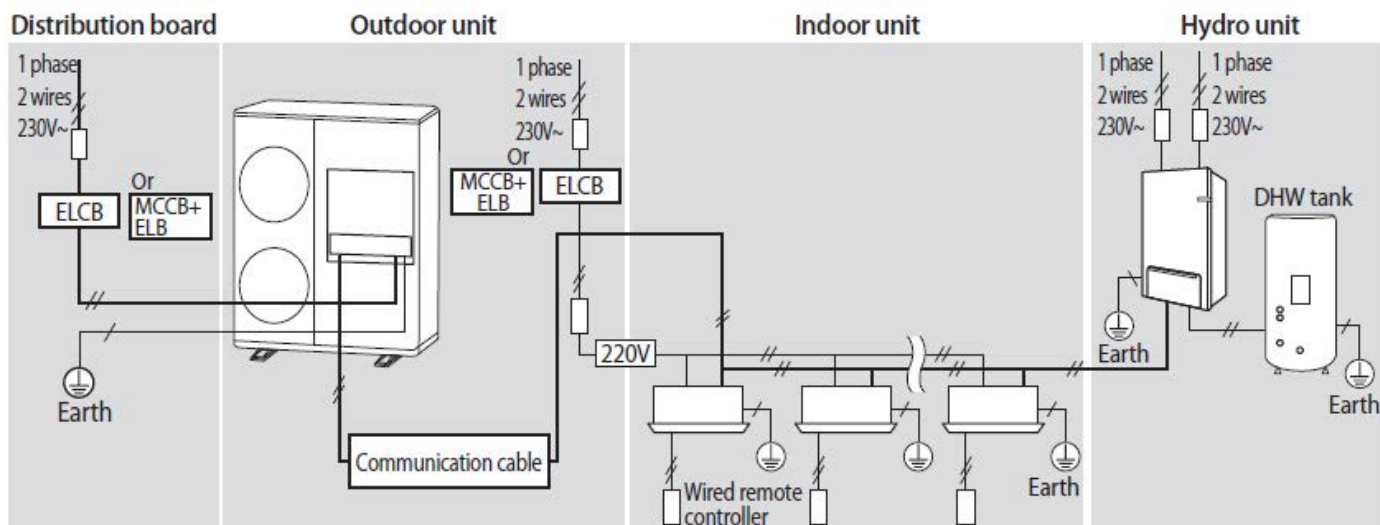
Outdoor Unit		Water Temp. (°C)			Water Flow Rates (LPM)			Air Temp. (°C, DB/WB)		
		Min	Std	Max	Min	Std	Max	Min	Std	Max
Controller	Cooling	5	-	25						
	Heating	15	-	55						
Cooling	Inlet	-	23 (12*2)	30	16 (12*1)	(Δ 5°C)	58 (48*1)	10/-	35/24	46/28
	Outlet	5	18 (7*2)	25						
Heating	Inlet	5	30 (40*2)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

*1) Figures in brackets are for 6~8kW model.
*2) Figures in brackets are based on Eurovent Test Condition #2
*3) Figures in brackets are based on NF PAC Low Temp. Heating Condition.
*4) Figures in brackets are based on back up heater operation only.

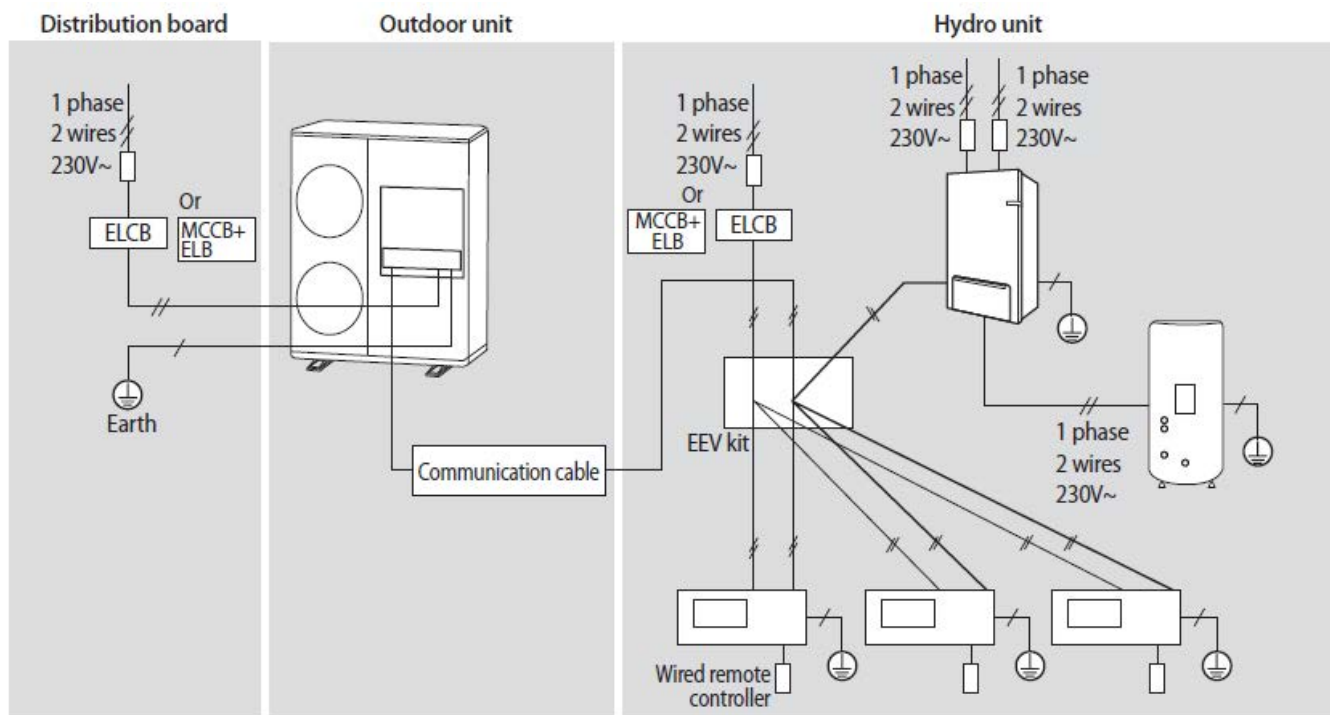
8. Electrical Connections

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

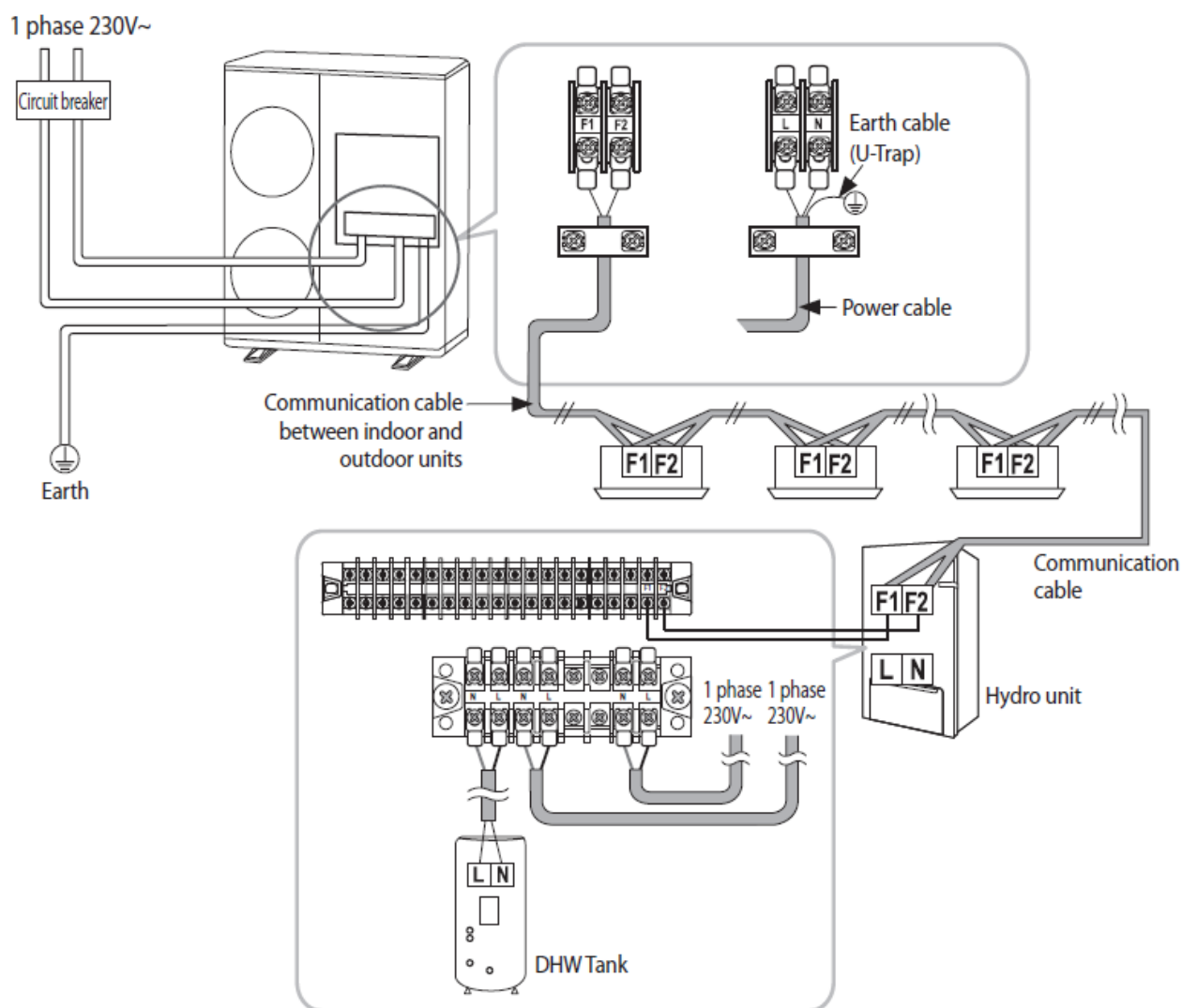
Outdoor unit	Power supply	Max/Min Voltage	Max. Current	Circuit Breaker (A)	Power Cable		Earth cable (mm ²)	Max. length (m)
					CV	VV		
RD060PHXEA RD070PHXEA RD080PHXEA	230V 50Hz	253/209	16	≥30	3.0	4.0	4.0	1.8
RD110PHXEA	230V 50Hz	253/209	25	≥40	4.0	6.0	6.0	18
RD140PHXEA			28					
RD160PHXEA			30					

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~)

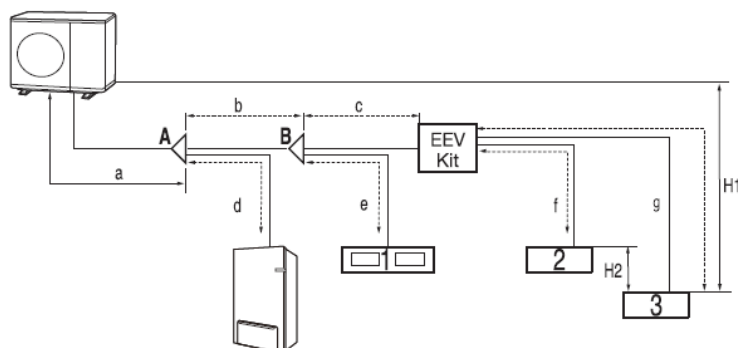


9. Refrigerant Piping Works

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	$a+b+c+g \leq 30\text{m}$	-
		Equivalent length	Less than 40m	Y-joint and EEV kit : 0.5m	-
		Total length	Less than 75m	$a+b+c+d+e+f+g \leq 75\text{ m}$	$5\text{m} \leq \text{Total length} \leq 75\text{m}$
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 15m		H1	If outdoor unit is located lower position $H1 \leq 15\text{m}$
	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	$b+c+d \leq 20\text{ m}$ (between first Y-joint and indoor unit) $h \leq 20\text{ m}$ (between EEV kit and indoor unit)	-
Additional refrigerant calculation		R=Basic charge + 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			

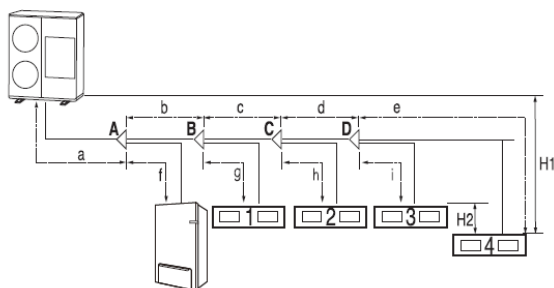
9. Refrigerant Piping Works

9-1. Piping examples

1) RD110/140/160PHXEA

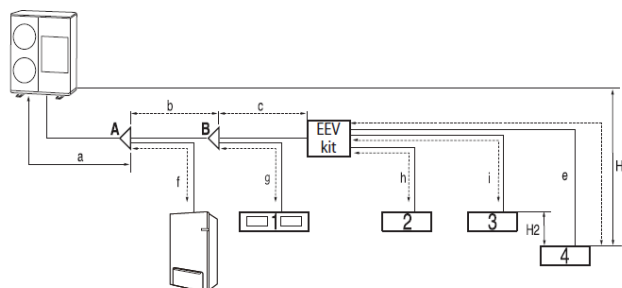
► Using only Y-joint

Outdoor unit



► Using EEV Kit

Outdoor unit



Item				Example	Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Longest piping length	Less than 70m	$a+b+c+d+e \leq 70\text{m}$	-
		Equivalent length	Less than 85m	Y-joint and EEV kit : 0.5m	-
		Total length	Less than 200m	$a+b+c+d+e+f+g+h+i \leq 200\text{ m}$	$10\text{m} \leq \text{Total length} \leq 200\text{m}$
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 30m		H1	If outdoor unit is located lower position $H1 \leq 25\text{m}$
	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	$b+c+d+e \leq 40\text{ m}$ (between first Y-joint and indoor unit) $h \leq 20\text{ m}$ (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

RD060PHXEA	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	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
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
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
	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)
	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

RD110PHXEA	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	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
RD140PHXEA	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	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
RD160PHXEA	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	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

RD110PHXEA	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	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	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	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	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	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 kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
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
90%	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
	-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
80%	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
	-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
60%	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
	-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
50%	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
	-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
90%	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
	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
80%	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
	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
60%	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
	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
50%	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
	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 kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
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
90%	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
	-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
80%	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
	-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
60%	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
	-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
50%	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
	-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
90%	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
	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
80%	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
	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 kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
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
90%	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
	-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
80%	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
	-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
60%	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
	-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
50%	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
	-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
60%	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
	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
50%	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
	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	
	DB	WB	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%	-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
60%	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
	-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
50%	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
	-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
90%	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
	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
80%	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
	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
60%	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
	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
50%	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
	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	
	DB	WB	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%	-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
60%	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
	-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
50%	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
	-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
90%	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
	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
80%	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
	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
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
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	
	DB	WB	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%	-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
90%	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
	-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
80%	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
	-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	
	DB	WB	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%	-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
60%	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
	-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
50%	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
	-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
90%	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
	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
80%	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
	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
60%	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
	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
50%	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
	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

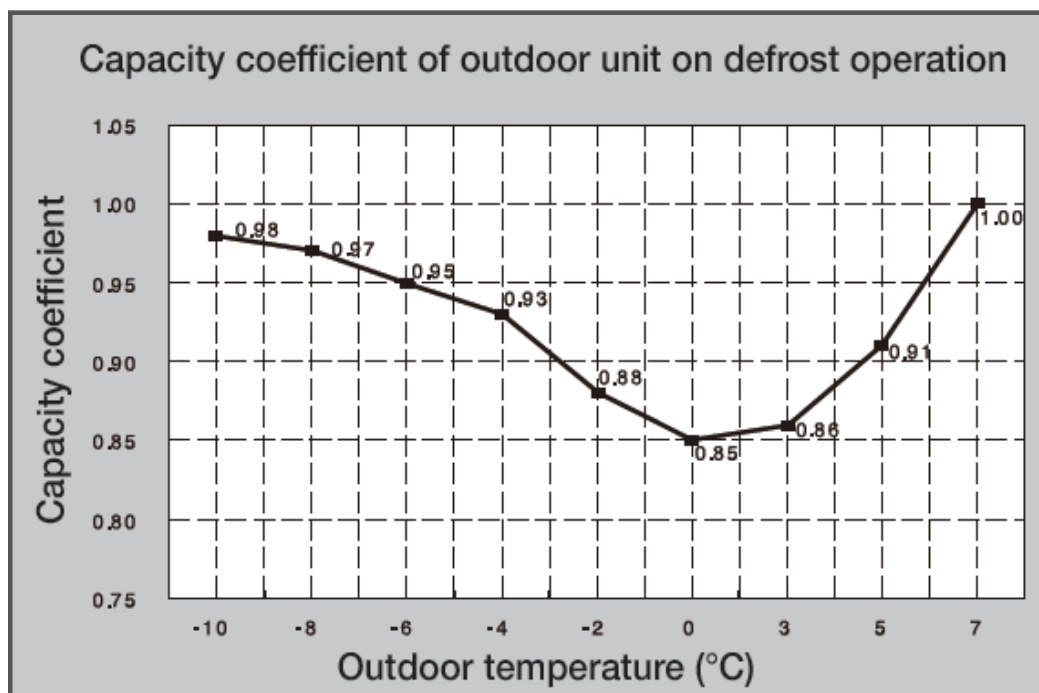
12. Capacity Correction

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	0.93	0.88	0.85	0.86	0.91	1.00

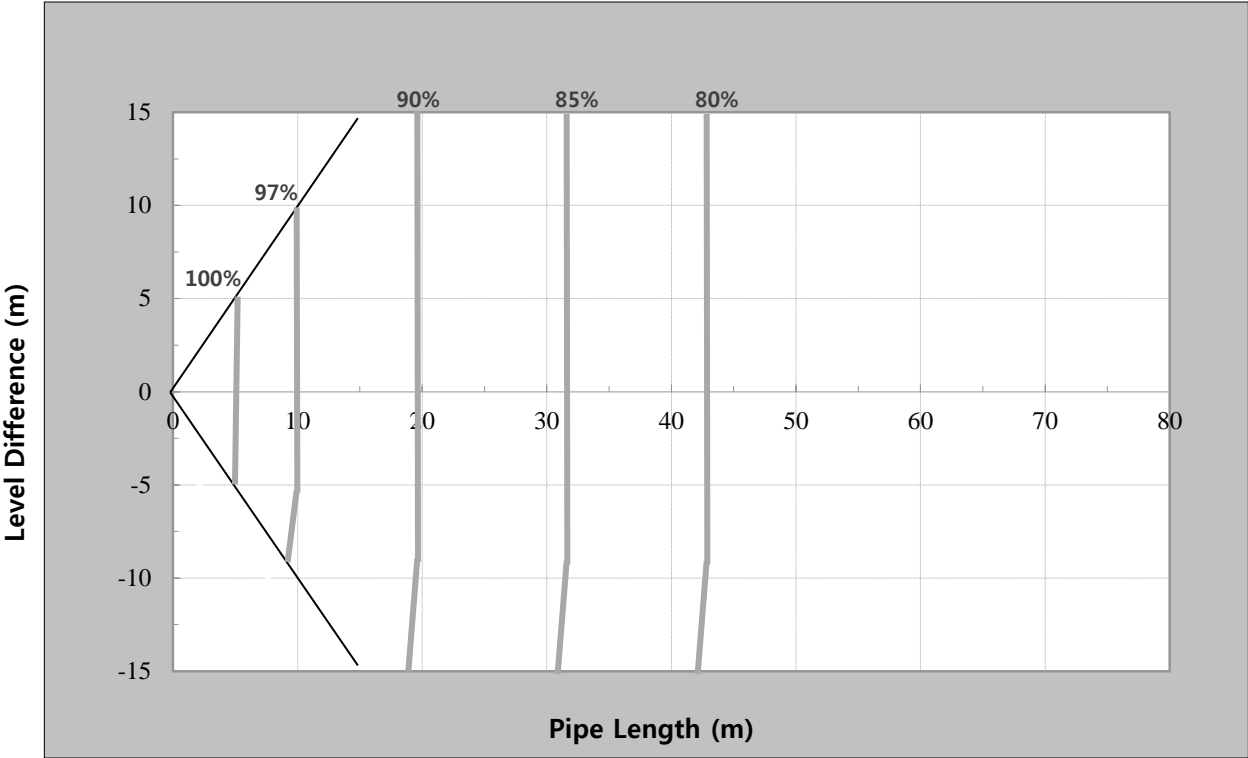
$$\text{Corrected Heating Capacity} = \text{heating Capacity} \times \text{Capacity coefficient}$$



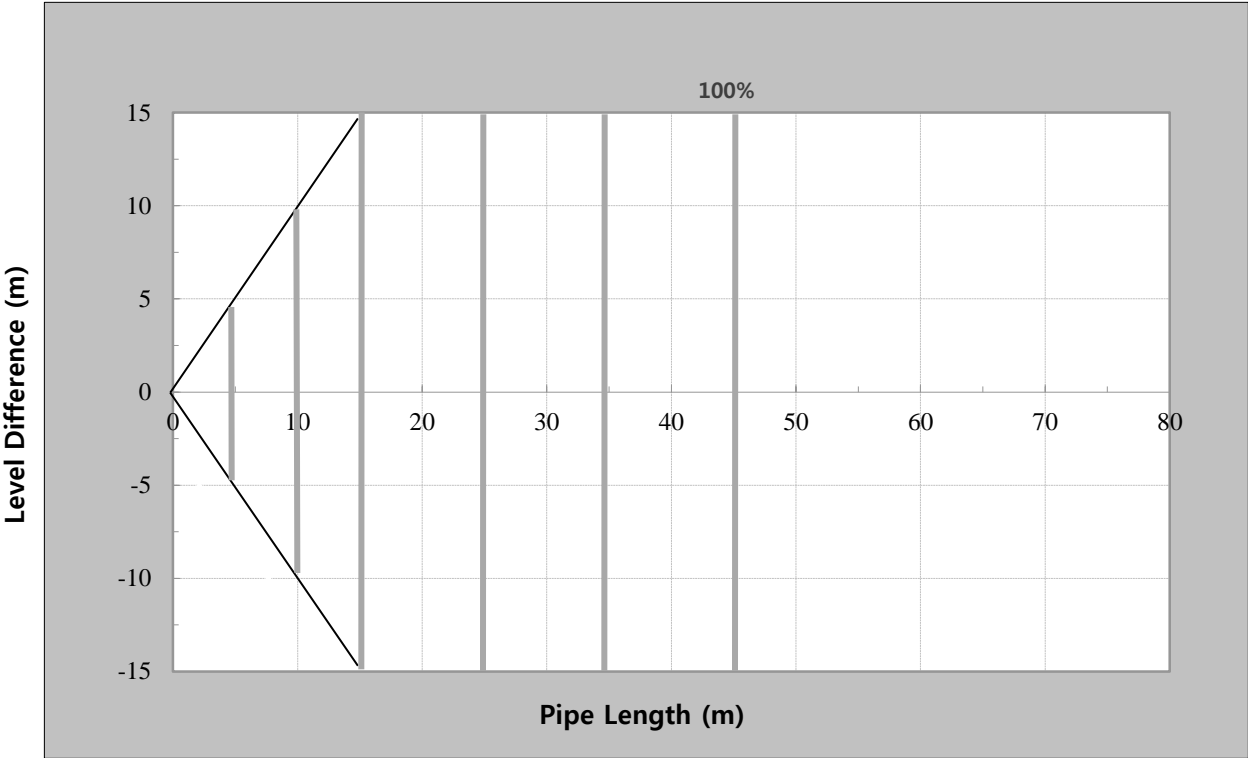
12. Capacity Correction

12-2. RD060/070/080PHXEA

1) Cooling



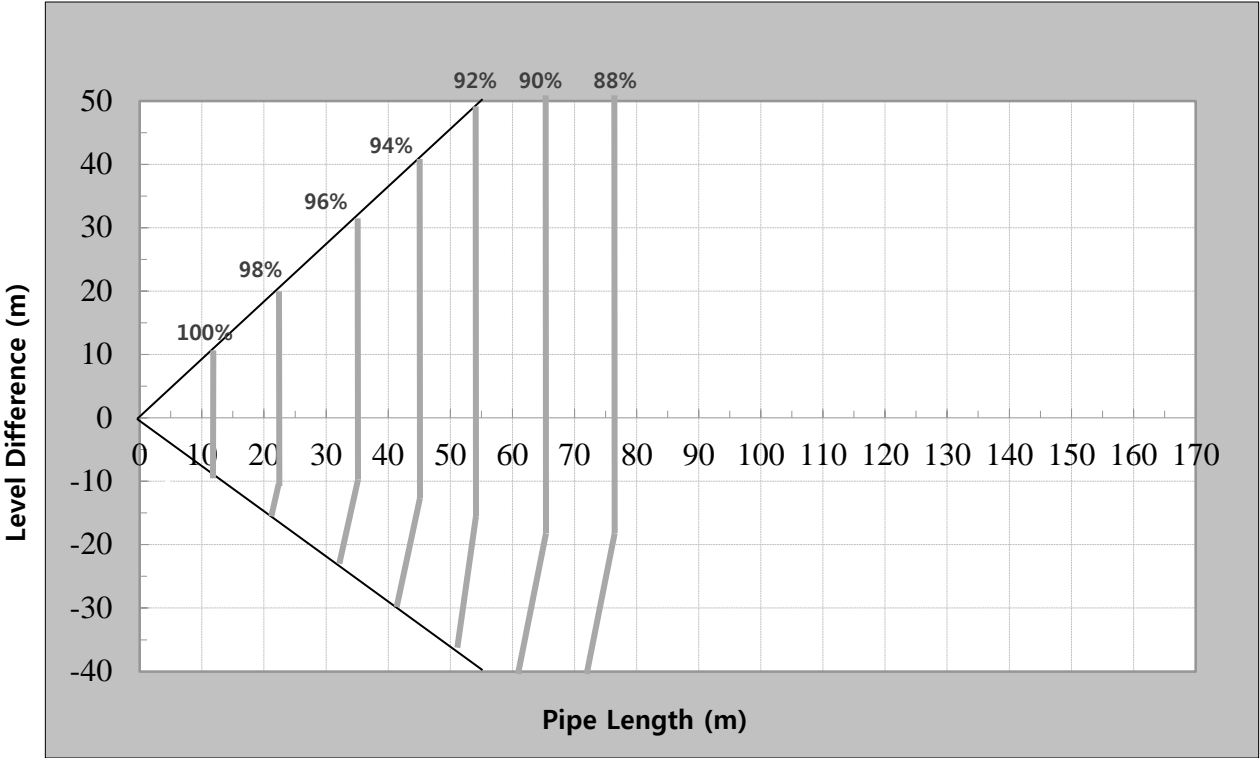
2) Heating



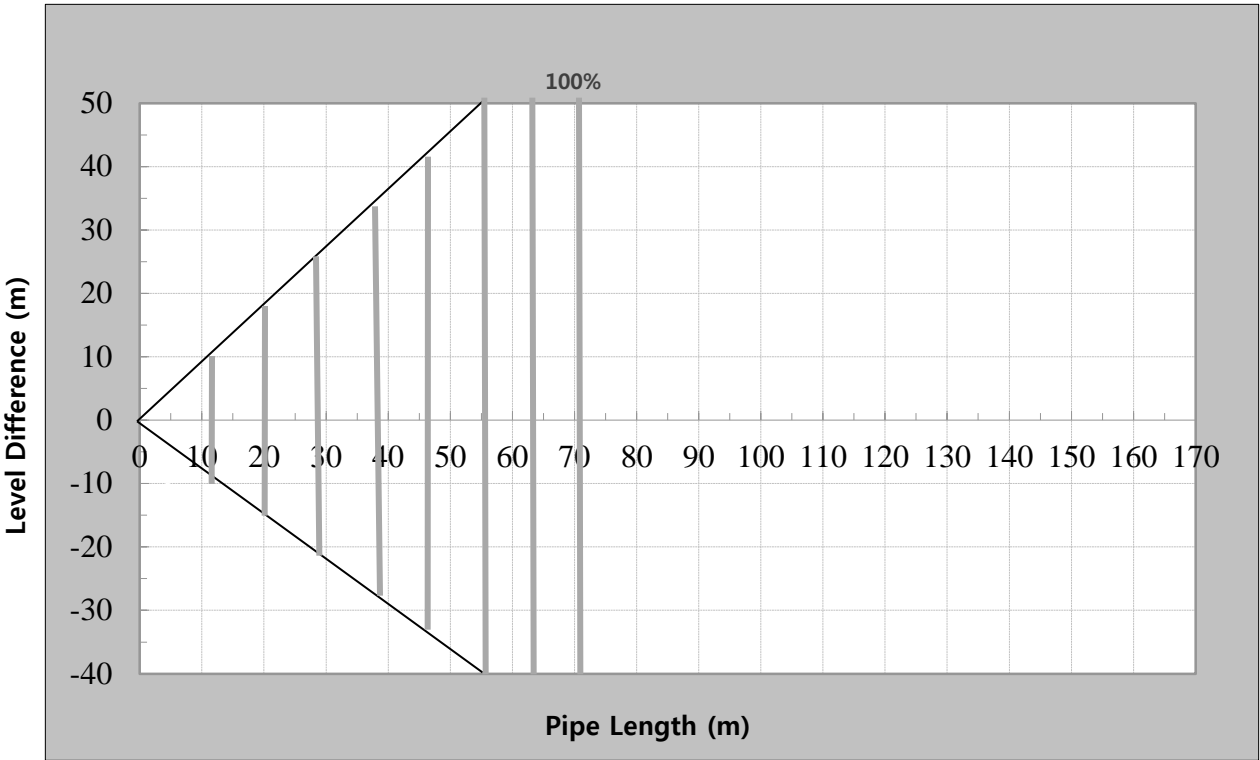
12. Capacity Correction

12-2. RD110/140/160PHXEA

1) Cooling



2) Heating



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