SAMSUNG

EHS Technical Data Book

EHS TDM Plus for Europe

(R410A, 50Hz, HP)

Model : Outdoor unit (AE✱✱✱MXTP✱H/EU)
Hydro unit (AE***DN*TPH/EU)
Indoor unit (AE✱✱✱MN✱DEH/EU, AE✱✱✱AN✱✱EH/EU, AE✱✱✱BNMPEH/EU)

History

Version	Modification	Date	Remark
Ver.1.0	Release 2024 EHS TDM Plus for Europe TDB	24. 12. 25	
Ver.1.1	Updated the drawing page	25. 03. 13	

Nomenclature

Outdoor Unit

Model Name

AE	160	M	X	T	P	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
AM	DVM
AJ	FJM (Free Joint Multi)
AE	EHS

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

M	2017
N	2018
R	2019
T	2020
A	2021
B	2022

(4) Product Type

S	SET (NASA)
N	Indoor Unit (NASA)
X	Outdoor Unit (NASA)
A	SET (Non NASA)
B	Indoor Unit (Non NASA)
C	Outdoor Unit (Non NASA)

(5) Feature 1

H	DVM HOME
E	SINGLE
T	MULTI
Y	MONO

(6) Feature 2

D	Deluxe
P	Premium

(7) Rating Voltage

A	115V, 60hz, 1Φ
B	220V, 60Hz, 1Φ
C	208~230V, 60Hz, 1Φ
D	200~220V, 50Hz, 1Φ
E	220~240V, 50Hz, 1Φ
F	208~230V, 60Hz, 3Φ
G	380~415V, 50Hz, 3Φ

(8) Mode

C	Cooling Only (R410A)
H	Heat Pump (R410A)
R	Heat Recovery (R410A)

Nomenclature

Indoor Unit

Model Name

AE	071	M	N	A	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
AM	DVM
AJ	FJM (Free Joint Multi)
AE	EHS

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

M	2017
N	2018
R	2019
T	2020
A	2021
B	2022

(4) Product Type

S	SET (NASA)
N	Indoor Unit (NASA)
X	Outdoor Unit (NASA)
A	SET (Non NASA)
B	Indoor Unit (Non NASA)
C	Outdoor Unit (Non NASA)

(5) Product Notation

A	RAC-A3050
Y	Hydro Unit
L	LSP Duct
M	MSP Duct
J	Console

(6) Feature

D	Deluxe
P	Premium

(7) Rating Voltage

A	115V, 60hz, 1Φ
B	220V, 60Hz, 1Φ
C	208~230V, 60Hz, 1Φ
D	200~220V, 50Hz, 1Φ
E	220~240V, 50Hz, 1Φ
F	208~230V, 60Hz, 3Φ
G	380~415V, 50Hz, 3Φ

(8) Mode

C	Cooling Only (R410A)
H	Heat Pump (R410A)
R	Heat Recovery (R410A)

Nomenclature

Hydro Unit

Model Name

AE	200	D	N	W	T	P	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
AM	DVM
AJ	FJM (Free Joint Multi)
AE	EHS

(2) Capacity

x Liter (3 digits)

(3) Version

D	2024

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

W	ClimateHub
X	ClimateHub, 2 zone
Y	Hydro Unit
Z	Hydro Unit, 2 zone

(6) Feature

T	TDM

(7) Rating Voltage

P	220~240V, 50/60Hz, 1Φ 380~415V, 50/60Hz, 3Φ

(8) Mode

C	Cooling Only (R410A)
H	Heat Pump (R410A)
R	Heat Recovery (R410A)

Contents

1. Line-up

1-1. Outdoor Units

Capacity		4.4 / 6.6 kW	9.0 kW	12 / 16 kW
Image				
Model	1phase	AE044MXTPEH/EU AE066MXTPEH/EU	AE090MXTPEH/EU	AE120MXTPEH/EU AE160MXTPEH/EU
	3phase		AE090MXTPGH/EU	AE120MXTPGH/EU AE160MXTPGH/EU

1-2. Indoor units

Type \ Capacity	2.2 kW	2.8 kW	3.6 kW	5.6 kW	7.1 kW	9 kW	16 kW
Slim Duct							
MSP Duct							
RAC(A3050)							
Console							

1. Line-up

1-3. Hydro units

Capacity / Type	200 L	200 L
Model	AE200DNXTPH/EU	AE200DNWTPH/EU
ClimateHub		
Capacity / Type	5~16 kW	5~16 kW
Model	AE160DNZTPH/EU	AE160DNYTPH/EU
Hydro Unit		

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)					AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)					AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit					AE044MXTPEH/EU	AE066MXTPEH/EU
Power Supply					Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
System	Mode				-	Heat Pump (A2W)	Heat Pump (A2W)
	Performance	Capacity	Heating	A2W condition #1. (A7/W35) 1)*	W	4,400	6,600
					Btu/h	15,000	22,500
				A2W condition #2. (A7/W45) 2)*	W	4,000	6,100
				A2W condition #3. (A7/W55) 3)*		3,830	4,800
				A2W condition (A2/W35) 4)*		4,000	5,800
				A2W condition (A-7/W35) 4)*		3,900	5,700
			Cooling	A2W condition #1. (A35/W18) 1)*	W	5,100	6,700
					Btu/h	17,400	22,900
				A2W condition #2. (A35/W7) 2)*	W	3,500	4,500
	Power	Power Input	Heating	A2W condition #1. (A7/W35) 1)*	W	930	1,470
				A2W condition #2. (A7/W45) 2)*		1,160	1,830
				A2W condition #3. (A7/W55) 3)*		1,370	1,850
				A2W condition (A2/W35) 4)*		1,130	1,750
				A2W condition (A-7/W35) 4)*		1,390	2,040
			Cooling	A2W condition #1. (A35/W18) 1)*	W	1,030	1,480
				A2W condition #2. (A35/W7) 2)*		1,030	1,420
		Current Input	Heating	A2W condition #1. (A7/W35) 1)*	A	4.30	6.70
				A2W condition #2. (A7/W45) 2)*		5.40	8.40
			Cooling	A2W condition #1. (A35/W18) 1)*	A	4.90	6.90
				A2W condition #2. (A35/W7) 2)*		4.80	6.60
		Current	MCA		A	18.0	20.0
			MFA		A	25.0	25.0
	Efficiency	COP	Heating	A2W condition #1. (A7/W35) 1)*	W/W	4.73	4.49
				A2W condition #2. (A7/W45) 2)*		3.45	3.33
				A2W condition #3. (A7/W55) 3)*		2.80	2.59
				A2W condition (A2/W35) 4)*		3.54	3.31
				A2W condition (A-7/W35) 4)*		2.81	2.79
		EER	Cooling	A2W condition #1. (A35/W18) 1)*	W/W	4.95	4.53
				A2W condition #2. (A35/W7) 2)*		3.40	3.17
		LWT 35℃	PdesignH		kW	4.0	5.0
			SCOP		W/W	4.42	4.42
			SCOP Class		-	A++	A++
		LWT 55℃	PdesignH		W	4.0	4.5
			SCOP		W/W	2.83	2.96
			SCOP Class		-	A+	A+
		SEER			W/W	5.08	4.92
		Tank Efficiency (Only Tank Integrated Hydro Unit)	Heating up time		h /min	2:20	2:20
			Water Heating	Declared load profile	-	L	L
				ηwh (water heating fficiency)	%	148	148
				Energy efficiency Class	-	A+	A+
	Water Flow	Water Flow Rate (Nominal)		Heating	LPM	12.7	19.0
				Cooling	LPM	14.7	19.3
		Water Flow Rate		Min	LPM	7	7
				Max	LPM	48	48
		Water Pressure (Max)			bar	3	3
		Leaving Water Temperature	Heating	Min.	℃	15	15
				Max.	℃	55	55
			Cooling	Min.	℃	5	5
				Max.	℃	25	25
	Water Connections	Water Pipe Type	threaded male	Inlet	Φ, mm	28	28
				Outlet	Φ, mm	28	28

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)				AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)				AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit				AE044MXTPEH/EU	AE066MXTPEH/EU
System	Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare connection	Flare connection
			Liquid	Φ, mm	9.52	9.52
			Gas (A2W)	Φ, mm	15.88	15.88
			Gas (A2A)	Φ, mm	15.88	15.88
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg	2.60	2.60
				tCO_2e	5.43	5.43
		Control Method		-	EEV	EEV
	Refrigerant piping(A2A)	Maximum allowable connections for indoor units		EA	2	3
		Total capacity of the connected Indoor Units	Min. (Cooling)	kW	2.2	3.3
			Max. (Cooling)	kW	4.4	6.6
		Piping length (ODU-IDU)	Max.[Equiv.]	m	30	30
		Level difference (IDU-IDU)	Max.	m	20	20
		Chargeless Length		m	10	10
Outdoor Unit	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary
		Model Name		-	UG4TH8200FE4	UG4TH8200FE4
		Oil	Type	-	POE	POE
			Initial Charge	cc	650	650
		Quantity		EA	1	1
		Output		W	1502	1502
		Starting method		-	Inverter driven	Inverter driven
	Heat exchanger (Condenser)	Type		-	Fin & Tube	Fin & Tube
		Tube type		-	Φ7.94	Φ7.94
		Length		mm	806	806
		Rows	Quantity	EA	2	2
		Stages	Quantity	EA	36	36
		Fin pitch		mm	1.5	1.5
		Passes	Quantity	EA	6	6
		Face area		m^2	0.61	0.61
		Fin	Type	-	G-FIN	G-FIN
			Treatment	-	Anti Salt	Anti Salt
	Fan	Type		-	Propeller Fan	Propeller Fan
		Discharge direction			Horizontal	Horizontal
		Air Flow Rate	Heating	m^3/min	45	47
			Cooling	m^3/min	45	47
		Quantity		EA	1	1
	Fan motor	Model		-	Brushless DC motor	Brushless DC motor
		Output		W	68	68
		Drive		-	Direct drive	Direct drive
		Speed	Heating	rpm	760	820
			Cooling	rpm	760	820
		Quantity		EA	1	1
	4-Way Valve	Type (Model)		-	SHF-7H-34U-SS	SHF-7H-34U-SS
	Base Heater	Power Input		W	-	-
	Sound Level	Sound Pressure Level	Heating	dB(A)	47	48
			Cooling	dB(A)	46	47
		Sound Power Level	Heating	dB(A)	65	67
	Casing	Color		-	Earth brown	Earth brown
		Material		-	Poweder coated Galvanised steel	Poweder coated Galvanised steel
	Packing	Material		-	EPS/BOX	EPS/BOX
		Weight		kg	3.5	3.5
	External Dimension	Net Weight		kg	61.0	61.0
		Shipping Weight		kg	64.5	64.5
		Net Dimensions (WxHxD)		mm	880 x 793 x 310	880 x 793 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 911 x 413	1,023 x 911 x 413
	Operating Temp. Range	A2W	Heating	℃	-25~35	-25~35
			Cooling	℃	10~46	10~46
			D.Hot Water	℃	-25~43	-25~43
		A2A	Heating	℃	-25~24	-25~24
			Cooling	℃	10~46	10~46

NOTE

- Specifications may be subject to change without prior notice.
  1)* A2W Condition #1 : (Heating) Water In/Out 30℃/35℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 23℃/18℃, Outdoor Air 35℃[DB]
  2)* A2W Condition #2 : (Heating) Water In/Out 40℃/45℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 12℃/7℃, Outdoor Air 35℃[DB]
  3)* A2W Condition #3 : (Heating) Water In/Out 47℃/55℃, Outdoor Air 7℃[DB]/6℃[WB]
  4)* A2W Condition : (A2W35) Water In/Out -/35℃, Outdoor Air 2℃[DB]/1℃[WB] / (A-7/W35) Water In/Out -/35℃, Outdoor Air -7℃[DB]/-(※ Peak Capacity)
- Select wire size based on the value of MCA
- Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level / - Reference acoustic pressure 0 dB = 20uPa
- Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted Sound power level
  - Reference power : 1pW / - Measured according to ISO 3741
- These products contain R410A (GWP=2088) which is fluorinated greenhouse gas.
- The system is operated in (-25℃ ≤ Outdoor temp. < -20℃) condition, but no guarantee of capacity.
- The system is operated by only Booster Heater in special condition (35 ℃ < Outdoor temp. ≤ 43℃).

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)					AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)					AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit					AE090MXTPEH/EU	AE090MXTPGH/EU
Power Supply					Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
System	Mode				-	Heat Pump (A2W)	Heat Pump (A2W)
	Performance	Capacity	Heating	A2W condition #1. (A7/W35) 1)*	W	9,000	9,000
					Btu/h	30,700	30,700
				A2W condition #2. (A7/W45) 2)*	W	8,000	8,300
				A2W condition #3. (A7/W55) 3)*		7,950	7,950
				A2W condition (A2/W35) 4)*		7,700	7,700
				A2W condition (A-7/W35) 4)*		7,400	7,400
			Cooling	A2W condition #1. (A35/W18) 1)*	W	8,000	8,000
					Btu/h	27,300	27,300
				A2W condition #2. (A35/W7) 2)*	W	5,600	5,700
	Power	Power Input	Heating	A2W condition #1. (A7/W35) 1)*	W	2,120	2,120
				A2W condition #2. (A7/W45) 2)*		2,380	2,500
				A2W condition #3. (A7/W55) 3)*		2,960	2,960
				A2W condition (A2/W35) 4)*		2,220	2,220
				A2W condition (A-7/W35) 4)*		2,650	2,650
			Cooling	A2W condition #1. (A35/W18) 1)*	W	1,850	1,860
				A2W condition #2. (A35/W7) 2)*		1,790	1,750
		Current Input	Heating	A2W condition #1. (A7/W35) 1)*	A	9.60	3.5
				A2W condition #2. (A7/W45) 2)*		10.90	3.9
			Cooling	A2W condition #1. (A35/W18) 1)*	A	8.50	3
				A2W condition #2. (A35/W7) 2)*		8.20	2.8
		Current	MCA		A	22.0	10
			MFA		A	27.5	16.1
	Efficiency	COP	Heating	A2W condition #1. (A7/W35) 1)*	W/W	4.25	4.25
				A2W condition #2. (A7/W45) 2)*		3.36	3.32
				A2W condition #3. (A7/W55) 3)*		2.69	2.69
				A2W condition (A2/W35) 4)*		3.47	3.47
				A2W condition (A-7/W35) 4)*		2.79	2.79
		EER	Cooling	A2W condition #1. (A35/W18) 1)*	W/W	4.32	4.3
				A2W condition #2. (A35/W7) 2)*		3.13	3.26
		LWT 35℃	PdesignH		kW	5.6	6
			SCOP		W/W	4.42	4.45
			SCOP Class		-	A++	A+++
		LWT 55℃	PdesignH		W	5.5	5
			SCOP		W/W	3.01	2.86
			SCOP Class		-	A+	A+
		SEER			W/W	5.36	4.93
		Tank Efficiency (Only Tank Integrated Hydro Unit)	Heating up time		h /min	2:00	2:00
			Water Heating	Declared load profile	-	L	L
				ηwh (water heating fficiency)	%	148	148
				Energy efficiency Class	-	A+	A+
	Water Flow	Water Flow Rate (Nominal)		Heating	LPM	26.0	26
				Cooling	LPM	23.1	23.1
		Water Flow Rate		Min	LPM	7	7
				Max	LPM	48	48
		Water Pressure (Max)			bar	3	3
		Leaving Water Temperature	Heating	Min.	℃	15	15
				Max.	℃	55	55
			Cooling	Min.	℃	5	5
				Max.	℃	25	25
	Water Connections	Water Pipe Type	threaded male	Inlet	Φ, mm	28	28
				Outlet	Φ, mm	28	28

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)				AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)				AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit				AE090MXTPEH/EU	AE090MXTPGH/EU
System	Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare connection	Flare connection
			Liquid	Φ, mm	9.52	9.52
			Gas (A2W)	Φ, mm	15.88	15.88
			Gas (A2A)	Φ, mm	15.88	15.88
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg	2.40	2.4
				tCO_2e	5.01	5.01
		Control Method		-	EEV	EEV
	Refrigerant piping(A2A)	Maximum allowable connections for indoor units		EA	4	4
		Total capacity of the connected Indoor Units	Min. (Cooling)	kW	4.5	4.5
			Max. (Cooling)	kW	9	9
		Piping length (ODU-IDU)	Max.[Equiv.]	m	30	30
		Level difference (IDU-IDU)	Max.	m	20	20
		Chargeless Length		m	10	10
Outdoor Unit	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary
		Model Name		-	UG8TH8265FJW	UG8T300FUCJU
		Oil	Type	-	POE	PVE
			Initial Charge	cc	700	1200
		Quantity		EA	1	1
		Output		W	1940	2,397
		Starting method		-	Inverter driven	Inverter driven
	Heat exchanger (Condenser)	Type		-	Fin & Tube	Fin & Tube
		Tube type		-	Φ7	Φ7
		Length		mm	950	950
		Rows	Quantity	EA	2	2
		Stages	Quantity	EA	46	46
		Fin pitch		mm	1.7	1.7
		Passes	Quantity	EA	8	8
		Face area		m^2	0.92	0.92
		Fin	Type	-	Wide Louver	Wide Louver
			Treatment	-	Anti Salt	Anti Salt
	Fan	Type		-	Propeller Fan	Propeller Fan
		Discharge direction			Horizontal	Horizontal
		Air Flow Rate	Heating	m^3/min	67	67
			Cooling	m^3/min	67	67
		Quantity		EA	1	1
	Fan motor	Model		-	Brushless DC motor	Brushless DC motor
		Output		W	125	125
		Drive		-	Direct drive	Direct drive
		Speed	Heating	rpm	780	780
			Cooling	rpm	780	780
		Quantity		EA	1	1
	4-Way Valve	Type (Model)		-	SHF-11H-45D1-SS	SHF-11H-45D1-SS
	Base Heater	Power Input		W	-	-
	Sound Level	Sound Pressure Level	Heating	dB(A)	51	51
			Cooling	dB(A)	50	50
		Sound Power Level	Heating	dB(A)	69	69
	Casing	Color		-	Earth brown	Earth brown
		Material		-	Poweder coated Galvanised steel	Poweder coatedGalvanised steel
	Packing	Material		-	EPS/BOX	EPS/BOX
		Weight		kg	8.0	8
	External Dimension	Net Weight		kg	74.0	76
		Shipping Weight		kg	82.0	84
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,178 x 426	995 x 1,178 x 426
	Operating Temp. Range	A2W	Heating	℃	-25~35	-25~35
			Cooling	℃	10~46	10~46
			D.Hot Water	℃	-25~43	-25~43
		A2A	Heating	℃	-25~24	-25~24
			Cooling	℃	10~46	10~46

NOTE

- Specifications may be subject to change without prior notice.
  1)* A2W Condition #1 : (Heating) Water In/Out 30℃/35℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 23℃/18℃, Outdoor Air 35℃[DB]
  2)* A2W Condition #2 : (Heating) Water In/Out 40℃/45℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 12℃/7℃, Outdoor Air 35℃[DB]
  3)* A2W Condition #3 : (Heating) Water In/Out 47℃/55℃, Outdoor Air 7℃[DB]/6℃[WB]
  4)* A2W Condition : (A2W35) Water In/Out -/35℃, Outdoor Air 2℃[DB]/1℃[WB] / (A-7/W35) Water In/Out -/35℃, Outdoor Air -7℃[DB]/-(※ Peak Capacity)
- Select wire size based on the value of MCA
- Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level / - Reference acoustic pressure 0 dB = 20uPa
- Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted Sound power level
  - Reference power : 1pW / - Measured according to ISO 3741
- These products contain R410A (GWP=2088) which is fluorinated greenhouse gas.
- The system is operated in (-25℃ ≤ Outdoor temp. < -20℃) condition, but no guarantee of capacity.
- The system is operated by only Booster Heater in special condition (35 ℃ < Outdoor temp. ≤ 43℃).

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)					AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)					AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit					AE120MXTPEH/EU	AE120MXTPGH/EU
Power Supply					Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
System	Mode				-	Heat Pump (A2W)	Heat Pump (A2W)
	Performance	Capacity	Heating	A2W condition #1. (A7/W35) 1)*	W	12,000	12,000
					Btu/h	40,900	40,900
				A2W condition #2. (A7/W45) 2)*	W	11,200	11,200
				A2W condition #3. (A7/W55) 3)*		10,720	10,720
				A2W condition (A2/W35) 4)*		11,000	11,000
				A2W condition (A-7/W35) 4)*		10,600	10,600
			Cooling	A2W condition #1. (A35/W18) 1)*	W	12,000	12,000
					Btu/h	40,900	40,900
				A2W condition #2. (A35/W7) 2)*	W	8,600	8,600
	Power	Power Input	Heating	A2W condition #1. (A7/W35) 1)*	W	2,720	2,720
				A2W condition #2. (A7/W45) 2)*		3,300	3,300
				A2W condition #3. (A7/W55) 3)*		3,910	3,910
				A2W condition (A2/W35) 4)*		3,230	3,230
				A2W condition (A-7/W35) 4)*		3,570	3,570
			Cooling	A2W condition #1. (A35/W18) 1)*	W	2,900	2,900
				A2W condition #2. (A35/W7) 2)*		2,790	2,790
		Current Input	Heating	A2W condition #1. (A7/W35) 1)*	A	12.40	4.3
				A2W condition #2. (A7/W45) 2)*		15.10	5.1
			Cooling	A2W condition #1. (A35/W18) 1)*	A	13.20	4.5
				A2W condition #2. (A35/W7) 2)*		12.80	4.3
		Current	MCA		A	28.0	10
			MFA		A	35.0	16.1
	Efficiency	COP	Heating	A2W condition #1. (A7/W35) 1)*	W/W	4.41	4.41
				A2W condition #2. (A7/W45) 2)*		3.39	3.39
				A2W condition #3. (A7/W55) 3)*		2.74	2.74
				A2W condition (A2/W35) 4)*		3.41	3.41
				A2W condition (A-7/W35) 4)*		2.97	2.97
		EER	Cooling	A2W condition #1. (A35/W18) 1)*	W/W	4.14	4.14
				A2W condition #2. (A35/W7) 2)*		3.08	3.08
		LWT 35℃	PdesignH		kW	10.0	10
			SCOP		W/W	4.66	4.66
			SCOP Class		-	A+++	A+++
		LWT 55℃	PdesignH		W	8.0	8
			SCOP		W/W	2.92	2.92
			SCOP Class		-	A+	A+
		SEER			W/W	5.29	5.29
		Tank Efficiency (Only Tank Integrated Hydro Unit)	Heating up time		h /min	1:40	1:40
			Water Heating	Declared load profile	-	L	L
				ηwh (water heating fficiency)	%	148	148
				Energy efficiency Class	-	A+	A+
	Water Flow	Water Flow Rate (Nominal)		Heating	LPM	34.6	34.6
				Cooling	LPM	34.6	34.6
		Water Flow Rate		Min	LPM	12	12
				Max	LPM	58	58
		Water Pressure (Max)			bar	3	3
		Leaving Water Temperature	Heating	Min.	℃	15	15
				Max.	℃	55	55
			Cooling	Min.	℃	5	5
				Max.	℃	25	25
	Water Connections	Water Pipe Type	threaded male	Inlet	Φ, mm	28	28
				Outlet	Φ, mm	28	28

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)				AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)				AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit				AE120MXTPEH/EU	AE120MXTPGH/EU
System	Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare connection	Flare connection
			Liquid	Φ, mm	9.52	9.52
			Gas (A2W)	Φ, mm	15.88	15.88
			Gas (A2A)	Φ, mm	15.88	15.88
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg	3.50	3.5
				tCO_2e	7.31	7.31
		Control Method		-	EEV	EEV
	Refrigerant piping(A2A)	Maximum allowable connections for indoor units		EA	5	5
		Total capacity of the connected Indoor Units	Min. (Cooling)	kW	6	6
			Max. (Cooling)	kW	12.1	12.1
		Piping length (ODU-IDU)	Max.[Equiv.]	m	70	70
		Level difference (IDU-IDU)	Max.	m	30	30
		Chargeless Length		m	10	10
Outdoor Unit	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary
		Model Name		-	UG5TK1450FJX	UG5TK1450FJX
		Oil	Type	-	PVE	PVE
			Initial Charge	cc	1,700	1700
		Quantity		EA	1	1
		Output		W	3484	3,484
		Starting method		-	Inverter driven	Inverter driven
	Heat exchanger (Condenser)	Type		-	Fin & Tube	Fin & Tube
		Tube type		-	Φ7.94	Φ7.94
		Length		mm	950	950
		Rows	Quantity	EA	2	2
		Stages	Quantity	EA	66	66
		Fin pitch		mm	1.5	1.5
		Passes	Quantity	EA	8	8
		Face area		m^2	1.32	1.32
		Fin	Type	-	G-Fin	G-Fin
			Treatment	-	Anti Salt	Anti Salt
	Fan	Type		-	Propeller Fan	Propeller Fan
		Discharge direction			Horizontal	Horizontal
		Air Flow Rate	Heating	m^3/min	103	103
			Cooling	m^3/min	103	103
		Quantity		EA	1	1
	Fan motor	Model		-	Brushless DC motor	Brushless DC motor
		Output		W	125 x 2	125 x 2
		Drive		-	Direct drive	Direct drive
		Speed	Heating	rpm	630	630
			Cooling	rpm	630	630
		Quantity		EA	2	2
	4-Way Valve	Type (Model)		-	SHF-20D-46-02	SHF-20D-46-02
	Base Heater	Power Input		W	-	-
	Sound Level	Sound Pressure Level	Heating	dB(A)	52	52
			Cooling	dB(A)	51	51
		Sound Power Level	Heating	dB(A)	70	70
	Casing	Color		-	Earth brown	Earth brown
		Material		-	Poweder coated Galvanised steel	Poweder coatedGalvanised steel
	Packing	Material		-	EPS/BOX	EPS/BOX
		Weight		kg	8.0	8
	External Dimension	Net Weight		kg	107.0	107
		Shipping Weight		kg	115.0	115
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426	995 x 1,598 x 426
	Operating Temp. Range	A2W	Heating	℃	-25~35	-25~35
			Cooling	℃	10~46	10~46
			D.Hot Water	℃	-25~43	-25~43
		A2A	Heating	℃	-25~24	-25~24
			Cooling	℃	10~46	10~46

NOTE

- Specifications may be subject to change without prior notice.
  1)* A2W Condition #1 : (Heating) Water In/Out 30℃/35℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 23℃/18℃, Outdoor Air 35℃[DB]
  2)* A2W Condition #2 : (Heating) Water In/Out 40℃/45℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 12℃/7℃, Outdoor Air 35℃[DB]
  3)* A2W Condition #3 : (Heating) Water In/Out 47℃/55℃, Outdoor Air 7℃[DB]/6℃[WB]
  4)* A2W Condition : (A2W35) Water In/Out -/35℃, Outdoor Air 2℃[DB]/1℃[WB] / (A-7/W35) Water In/Out -/35℃, Outdoor Air -7℃[DB]/-(※ Peak Capacity)
- Select wire size based on the value of MCA
- Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level / - Reference acoustic pressure 0 dB = 20uPa
- Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted Sound power level
  - Reference power : 1pW / - Measured according to ISO 3741
- These products contain R410A (GWP=2088) which is fluorinated greenhouse gas.
- The system is operated in (-25℃ ≤ Outdoor temp. < -20℃) condition, but no guarantee of capacity.
- The system is operated by only Booster Heater in special condition (35 ℃ < Outdoor temp. ≤ 43℃).

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)					AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)					AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit					AE160MXTPEH/EU	AE160MXTPGH/EU
Power Supply					Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
System	Mode				-	Heat Pump (A2W)	Heat Pump (A2W)
	Performance	Capacity	Heating	A2W condition #1. (A7/W35) 1)*	W	16,000	16,000
					Btu/h	54,600	54,600
				A2W condition #2. (A7/W45) 2)*	W	15,000	15,000
				A2W condition #3. (A7/W55) 3)*		14,600	14,600
				A2W condition (A2/W35) 4)*		13,700	13,700
				A2W condition (A-7/W35) 4)*		14,000	14,000
			Cooling	A2W condition #1. (A35/W18) 1)*	W	14,500	14,500
					Btu/h	49,500	49,500
				A2W condition #2. (A35/W7) 2)*	W	10,300	10,300
	Power	Power Input	Heating	A2W condition #1. (A7/W35) 1)*	W	3,950	3,950
				A2W condition #2. (A7/W45) 2)*		4,710	4,710
				A2W condition #3. (A7/W55) 3)*		5,320	5,320
				A2W condition (A2/W35) 4)*		4,290	4,290
				A2W condition (A-7/W35) 4)*		5,080	5,080
			Cooling	A2W condition #1. (A35/W18) 1)*	W	3,840	3,840
				A2W condition #2. (A35/W7) 2)*		3,590	3,590
		Current Input	Heating	A2W condition #1. (A7/W35) 1)*	A	18	6
				A2W condition #2. (A7/W45) 2)*		21.5	7.3
			Cooling	A2W condition #1. (A35/W18) 1)*	A	17.5	5.9
				A2W condition #2. (A35/W7) 2)*		16.4	5.6
		Current	MCA		A	32	12
			MFA		A	40	16.1
	Efficiency	COP	Heating	A2W condition #1. (A7/W35) 1)*	W/W	4.05	4.05
				A2W condition #2. (A7/W45) 2)*		3.18	3.18
				A2W condition #3. (A7/W55) 3)*		2.74	2.74
				A2W condition (A2/W35) 4)*		3.19	3.19
				A2W condition (A-7/W35) 4)*		2.73	2.73
		EER	Cooling	A2W condition #1. (A35/W18) 1)*	W/W	3.78	3.78
				A2W condition #2. (A35/W7) 2)*		2.87	2.87
		LWT 35℃	PdesignH		kW	11	11
			SCOP		W/W	4.63	4.63
			SCOP Class		-	A+++	A+++
		LWT 55℃	PdesignH		W	9	9
			SCOP		W/W	3.06	3.06
			SCOP Class		-	A+	A+
		SEER			W/W	5.21	5.21
		Tank Efficiency (Only Tank Integrated Hydro Unit)	Heating up time		h /min	1:40	1:40
			Water Heating	Declared load profile	-	L	L
				ηwh (water heating fficiency)	%	148	148
				Energy efficiency Class	-	A+	A+
	Water Flow	Water Flow Rate (Nominal)		Heating	LPM	46.2	46.2
				Cooling	LPM	41.8	41.8
		Water Flow Rate		Min	LPM	12	12
				Max	LPM	58	58
		Water Pressure (Max)			bar	3	3
		Leaving Water Temperature	Heating	Min.	℃	15	15
				Max.	℃	55	55
			Cooling	Min.	℃	5	5
				Max.	℃	25	25
	Water Connections	Water Pipe Type	threaded male	Inlet	Φ, mm	28	28
				Outlet	Φ, mm	28	28

2. Outdoor Units

2-1. Specifications

Model Name	Indoor Unit (Type1 : Tank Integrated Hydro Unit)				AE200DN*TPH/EU	AE200DN*TPH/EU
	Indoor Unit (Type2 : Wall Mounted Hydro Unit)				AE160DN*TPH/EU	AE160DN*TPH/EU
	Outdoor Unit				AE160MXTPEH/EU	AE160MXTPGH/EU
System	Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare connection	Flare connection
			Liquid	Φ, mm	9.52	9.52
			Gas (A2W)	Φ, mm	15.88	15.88
			Gas (A2A)	Φ, mm	15.88	15.88
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg	3.5	3.5
				tCO_2e	7.31	7.31
		Control Method		-	EEV	EEV
	Refrigerant piping(A2A)	Maximum allowable connections for indoor units		EA	7	7
		Total capacity of the connected Indoor Units	Min. (Cooling)	kW	7.7	7.7
			Max. (Cooling)	kW	15.4	15.4
		Piping length (ODU-IDU)	Max.[Equiv.]	m	70	70
		Level difference (IDU-IDU)	Max.	m	30	30
		Chargeless Length		m	10	10
Outdoor Unit	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary
		Model Name		-	UG5TK1450FJX	UG5TK1450FJX
		Oil	Type	-	PVE	PVE
			Initial Charge	cc	1700	1700
		Quantity		EA	1	1
		Output		W	3,484	3,484
		Starting method		-	Inverter driven	Inverter driven
	Heat exchanger (Condenser)	Type		-	Fin & Tube	Fin & Tube
		Tube type		-	Φ7.94	Φ7.94
		Length		mm	950	950
		Rows	Quantity	EA	2	2
		Stages	Quantity	EA	66	66
		Fin pitch		mm	1.5	1.5
		Passes	Quantity	EA	8	8
		Face area		m^2	1.32	1.32
		Fin	Type	-	G-Fin	G-Fin
			Treatment	-	Anti Salt	Anti Salt
	Fan	Type		-	Propeller Fan	Propeller Fan
		Discharge direction			Horizontal	Horizontal
		Air Flow Rate	Heating	m^3/min	123	123
			Cooling	m^3/min	123	123
		Quantity		EA	1	1
	Fan motor	Model		-	Brushless DC motor	Brushless DC motor
		Output		W	125 x 2	125 x 2
		Drive		-	Direct drive	Direct drive
		Speed	Heating	rpm	750	750
			Cooling	rpm	750	750
		Quantity		EA	2	2
	4-Way Valve	Type (Model)		-	SHF-20D-46-02	SHF-20D-46-02
	Base Heater	Power Input		W	-	-
	Sound Level	Sound Pressure Level	Heating	dB(A)	55	55
			Cooling	dB(A)	54	54
		Sound Power Level	Heating	dB(A)	73	73
	Casing	Color		-	Earth brown	Earth brown
		Material		-	Poweder coatedGalvanised steel	Poweder coatedGalvanised steel
	Packing	Material		-	EPS/BOX	EPS/BOX
		Weight		kg	8	8
	External Dimension	Net Weight		kg	107	107
		Shipping Weight		kg	115	115
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426	995 x 1,598 x 426
	Operating Temp. Range	A2W	Heating	℃	-25~35	-25~35
			Cooling	℃	10~46	10~46
			D.Hot Water	℃	-25~43	-25~43
		A2A	Heating	℃	-25~24	-25~24
			Cooling	℃	10~46	10~46

NOTE

- Specifications may be subject to change without prior notice.
  1)* A2W Condition #1 : (Heating) Water In/Out 30℃/35℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 23℃/18℃, Outdoor Air 35℃[DB]
  2)* A2W Condition #2 : (Heating) Water In/Out 40℃/45℃, Outdoor Air 7℃[DB]/6℃[WB] / (Cooling) Water In/Out 12℃/7℃, Outdoor Air 35℃[DB]
  3)* A2W Condition #3 : (Heating) Water In/Out 47℃/55℃, Outdoor Air 7℃[DB]/6℃[WB]
  4)* A2W Condition : (A2W35) Water In/Out -/35℃, Outdoor Air 2℃[DB]/1℃[WB] / (A-7/W35) Water In/Out -/35℃, Outdoor Air -7℃[DB]/-(※ Peak Capacity)
- Select wire size based on the value of MCA
- Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level / - Reference acoustic pressure 0 dB = 20uPa
- Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted Sound power level
  - Reference power : 1pW / - Measured according to ISO 3741
- These products contain R410A (GWP=2088) which is fluorinated greenhouse gas.
- The system is operated in (-25℃ ≤ Outdoor temp. < -20℃) condition, but no guarantee of capacity.
- The system is operated by only Booster Heater in special condition (35 ℃ < Outdoor temp. ≤ 43℃).

2. Outdoor Units

2-2. Electrical characteristics

Capacity [kW]	Model	Power Supply				Voltage Range [V]		Nominal Running Current [A]		Current [A]	
		Φ	#	Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	MCA	MFA
4.4	AE044MXTPEH/EU	1	2	50	220~240	198	264	4.3	4.9	18.0	25.0
6.6	AE066MXTPEH/EU	1	2	50	220~240	198	264	6.7	6.9	20.0	25.0
9.0	AE090MXTPEH/EU	1	2	50	220~240	198	264	9.6	8.5	22.0	27.5
9.0	AE090MXTPGH/EU	3	4	50	380~415	342	456	3.5	3.0	10.0	16.1
12.0	AE120MXTPEH/EU	1	2	50	220~240	198	264	12.4	13.2	28.0	35.0
12.0	AE120MXTPGH/EU	3	4	50	380~415	342	456	4.3	4.5	10.0	16.1
16.0	AE160MXTPEH/EU	1	2	50	220~240	198	264	18.0	17.5	32.0	40.0
16.0	AE160MXTPGH/EU	3	4	50	380~415	342	456	6.0	5.9	12.0	16.1

NOTE

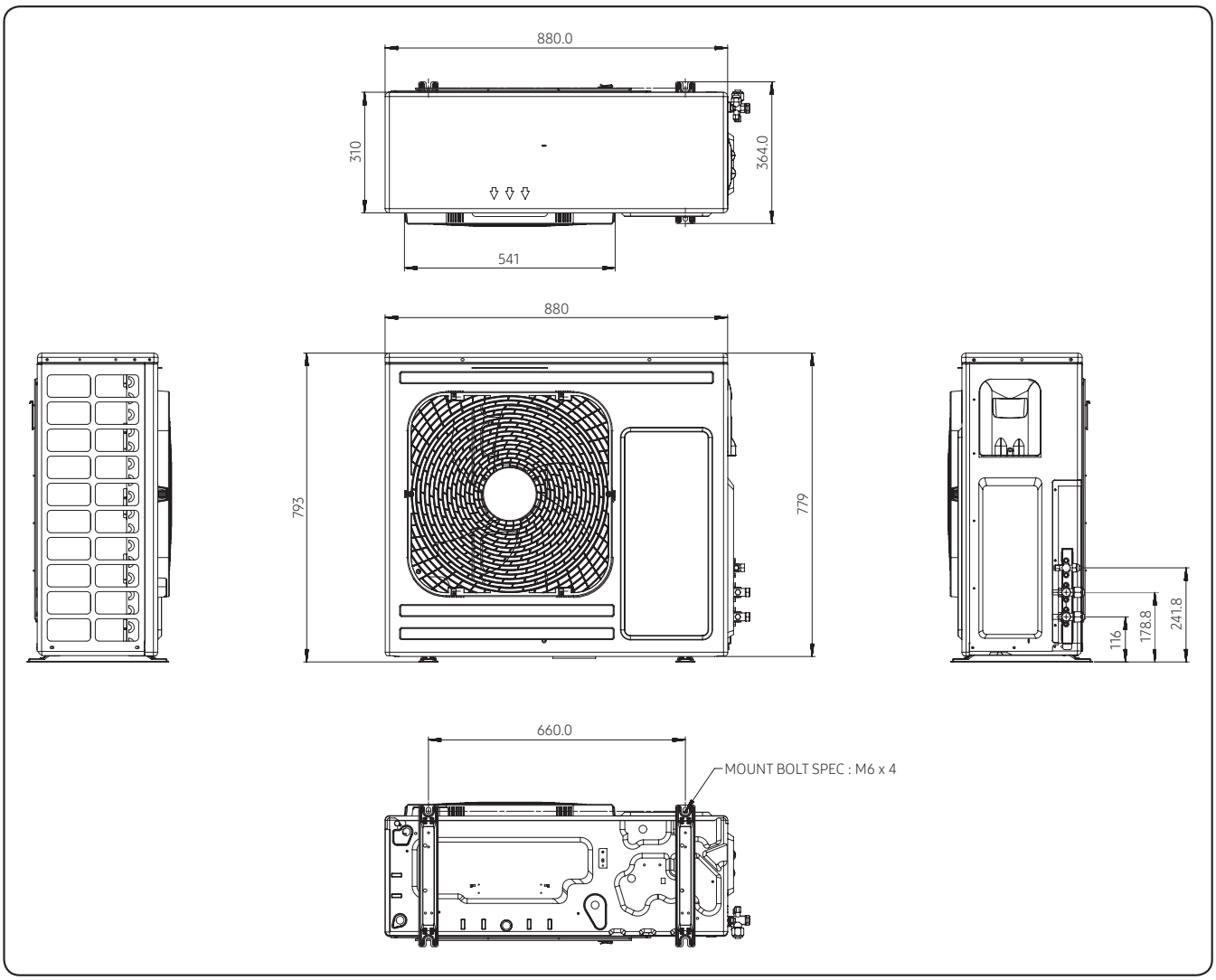
- MCA : Mimium circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

2. Outdoor Units

2-3. Dimensional drawing

AE044/066MXTPEH✳✳

Unit : mm

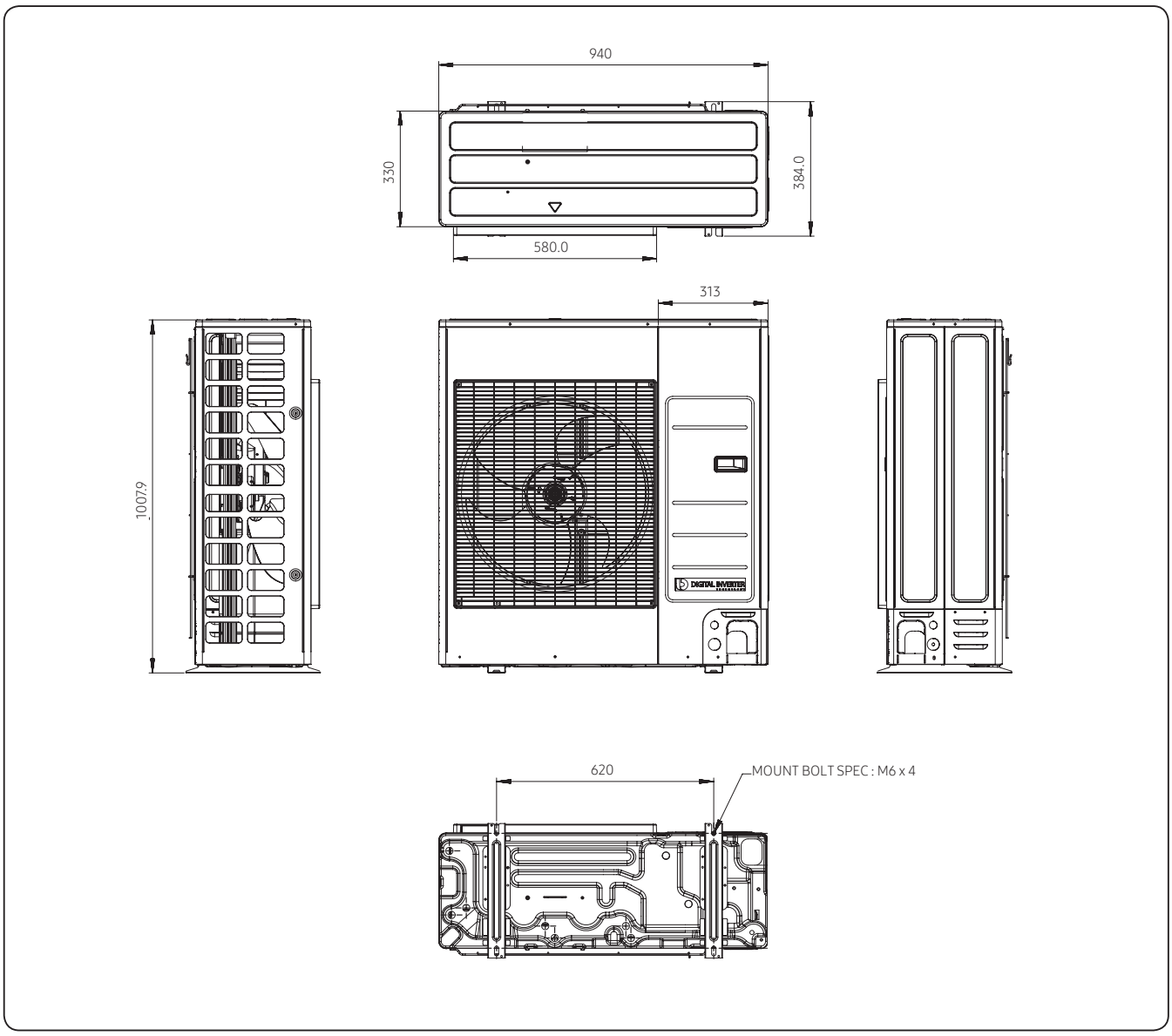


2. Outdoor Units

2-3. Dimensional drawing

AE090MXTP⁎H⁎⁎

Unit : mm

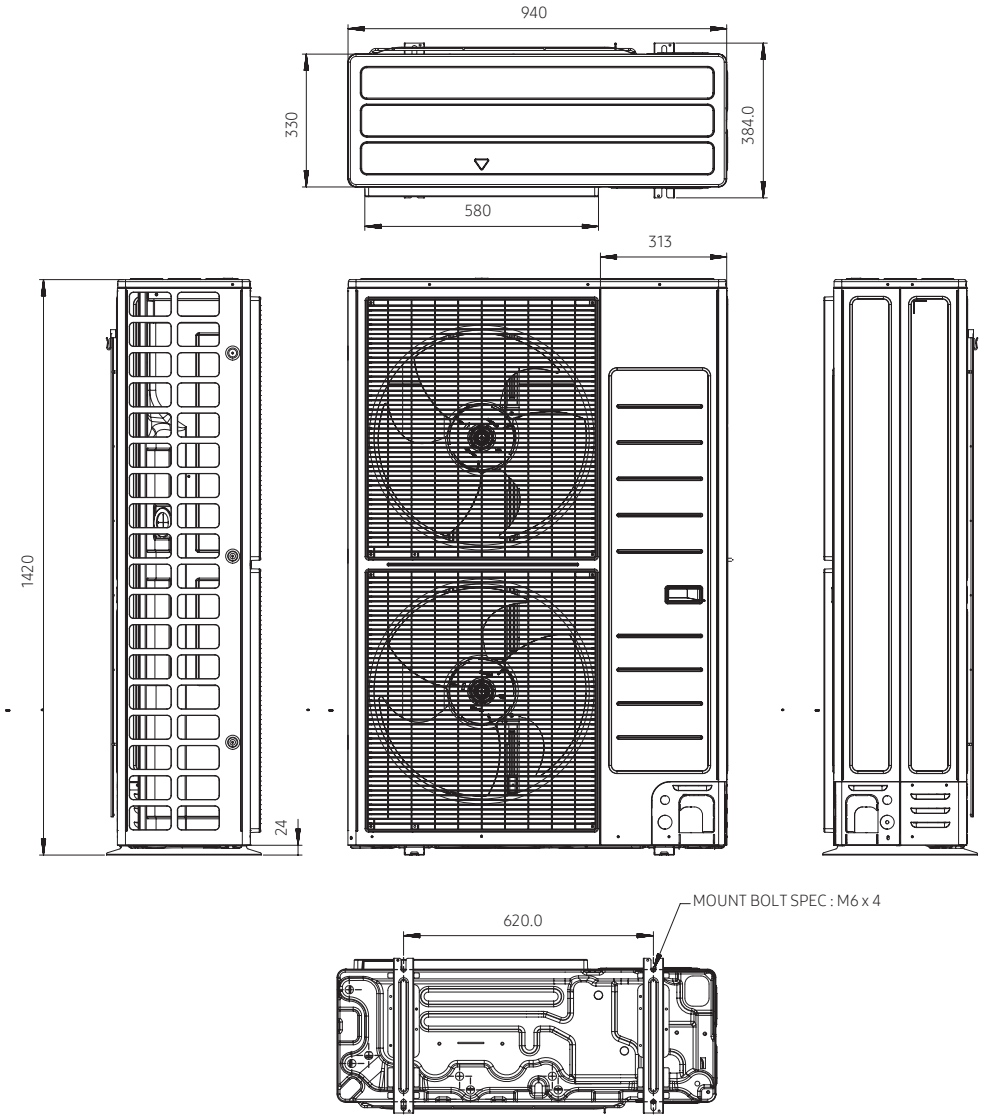


2. Outdoor Units

2-3. Dimensional drawing

AE120/160MXTP✱H✱✱

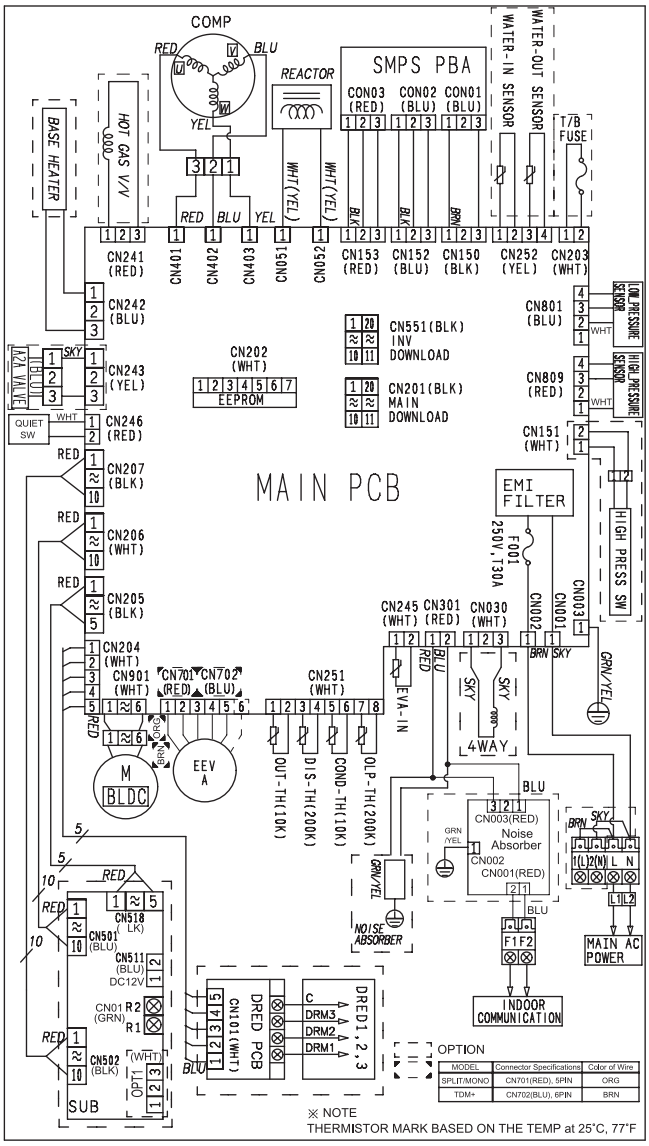
Unit : mm



2. Outdoor Units

2-4. Electrical wiring diagram

AE044/066MXTPEH✳✳



M BLDC	BLDC FAN MOTOR	HOTGAS V/V	HOTGAS VALVE
OUT-TH	Thermistor OUT(10K)	DIS-TH	Thermistor DISCHARGE(200K)
COND-TH	Thermistor COND(10K)	OLP-TH	Thermistor OLP(200K)

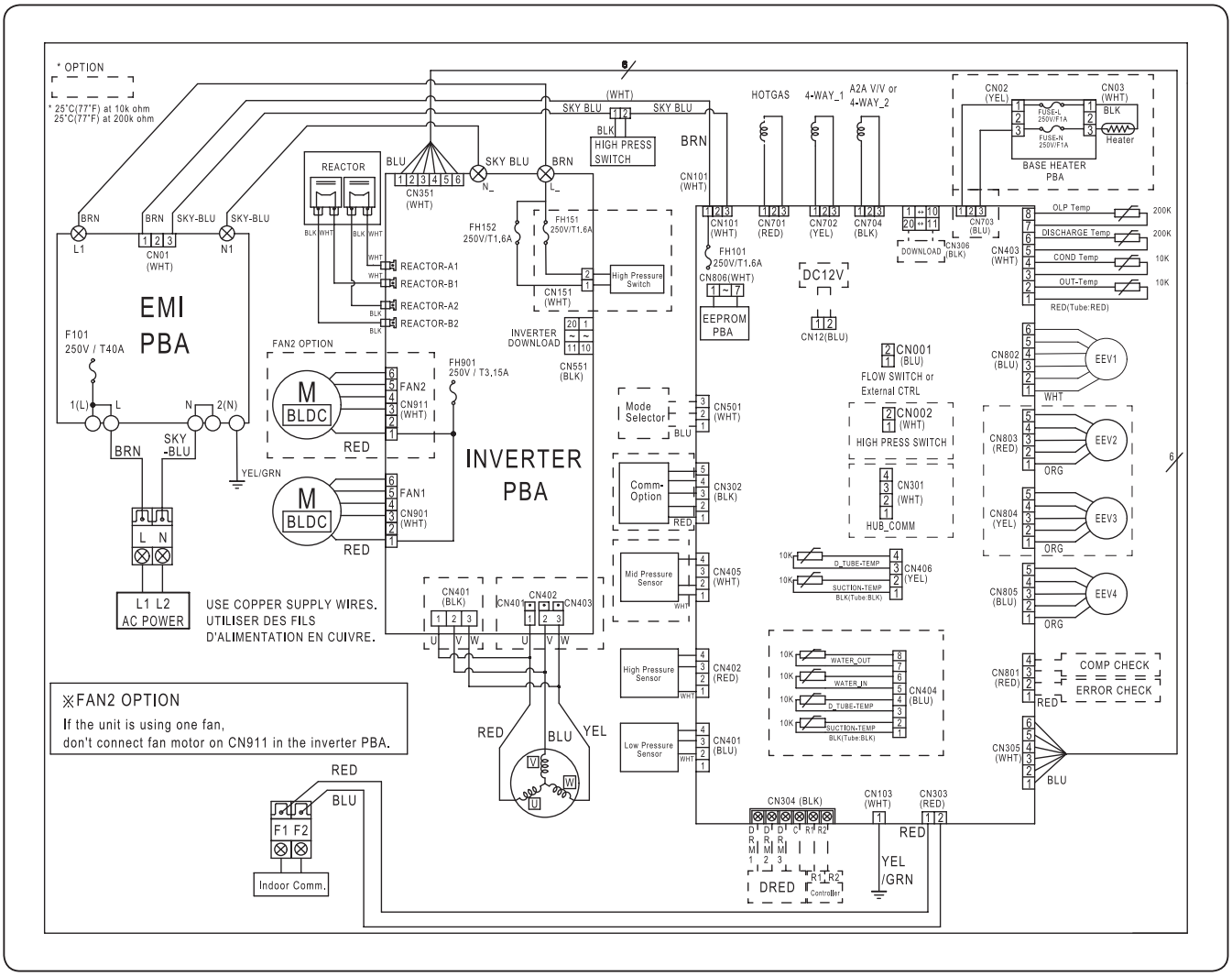
NOTES

1. This wiring diagram applies only to the Outdoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

2. Outdoor Units

2-4. Electrical wiring diagram

AE090/120/160MXTPEH✱✱



M BLDC	BLDC FAN MOTOR	External CTRL	External Control
Comm	Communication	OUT-Temp	Thermistor OUT(10K)
COND-Temp	Thermistor COND(10K)	DISCHARGE-Temp	Thermistor DISCHARGE(200K)
OLP-Temp	Thermistor OLP(200K)	SUCTION-TEMP	Thermistor SUCTION(10K)
D_TUBE-TEMP	Thermistor SUB-COOLER(10K)		

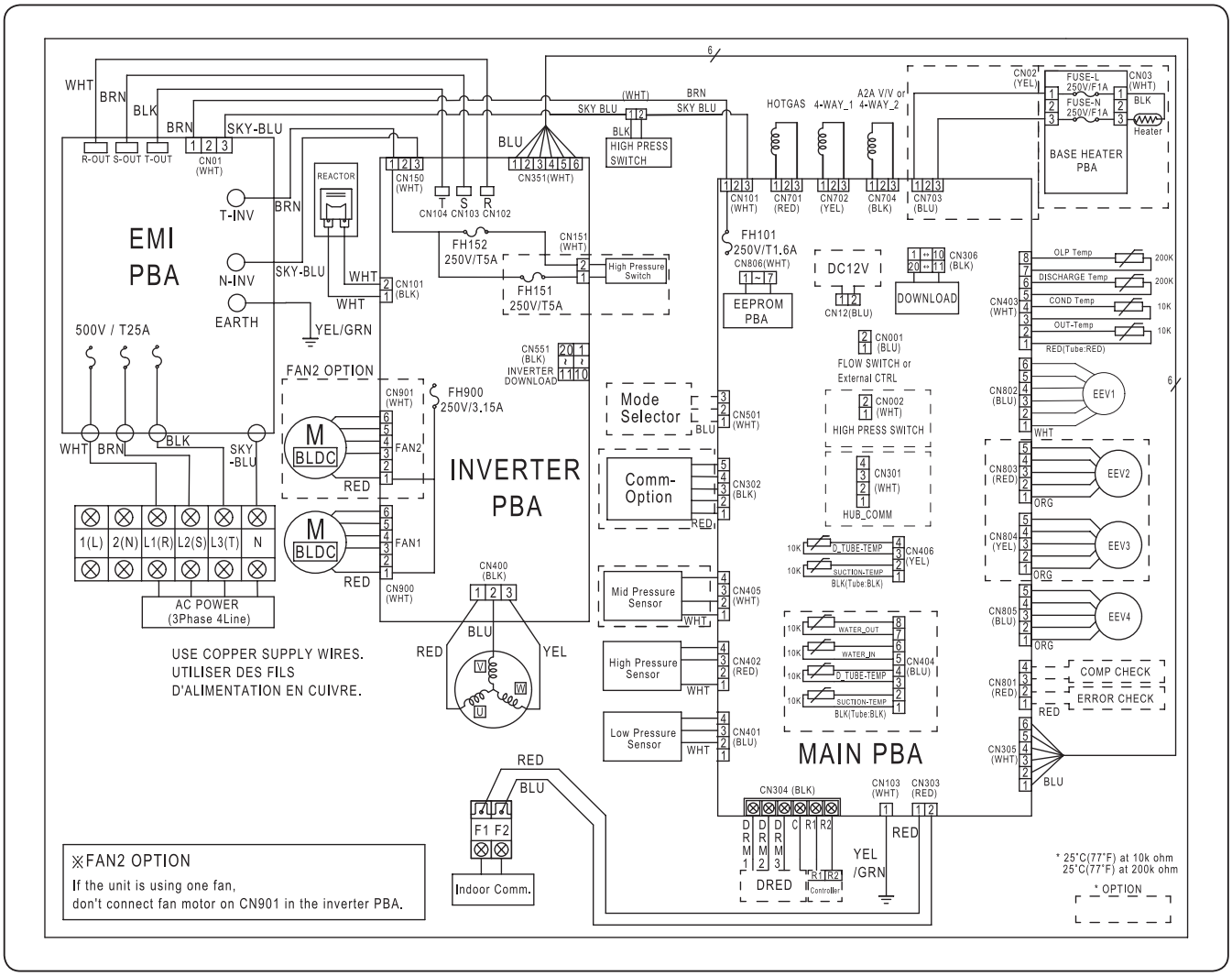
NOTES

1. This wiring diagram applies only to the Outdoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

2. Outdoor Units

2-4. Electrical wiring diagram

AE090/120/160MXTPGH※※



M BLDC	BLDC FAN MOTOR	External CTRL	External Control
Comm	Communication	OUT-Temp	Thermistor OUT(10K)
COND-Temp	Thermistor COND(10K)	DISCHARGE-Temp	Thermistor DISCHARGE(200K)
OLP-Temp	Thermistor OLP(200K)	SUCTION-TEMP	Thermistor SUCTION(10K)
D_TUBE-TEMP	Thermistor SUB-COOLER(10K)		

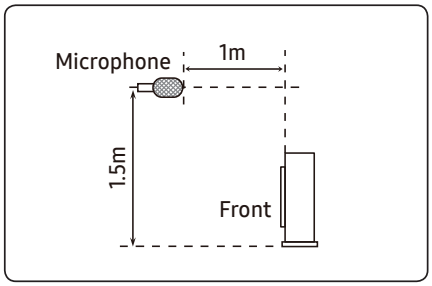
NOTES

1. This wiring diagram applies only to the Outdoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

2. Outdoor Units

2-5. Sound data

Sound Pressure level

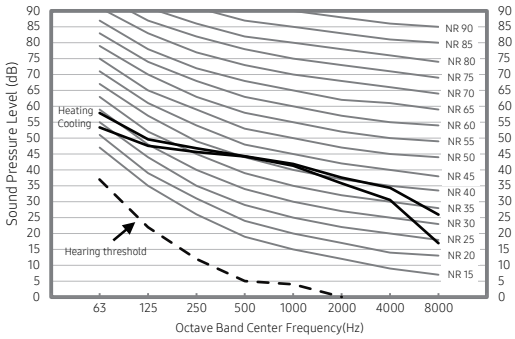


Unit: dB(A)

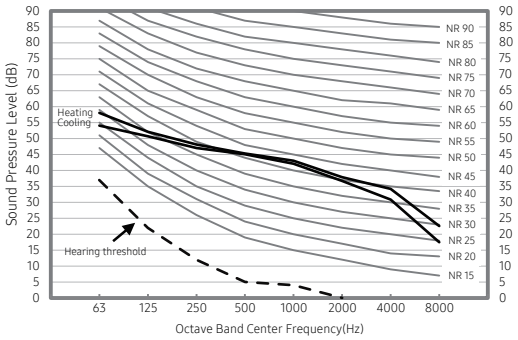
Model	Cooling	Heating
AE044MXTPEH✱✱	46	47
AE066MXTPEH✱✱	47	48
AE090MXTP✱H✱✱	50	51
AE120MXTP✱H✱✱	51	52
AE160MXTP✱H✱✱	54	55

- NR Curve

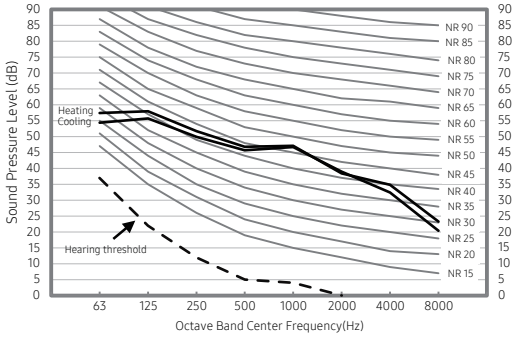
1) AE044MXTPEH✱✱



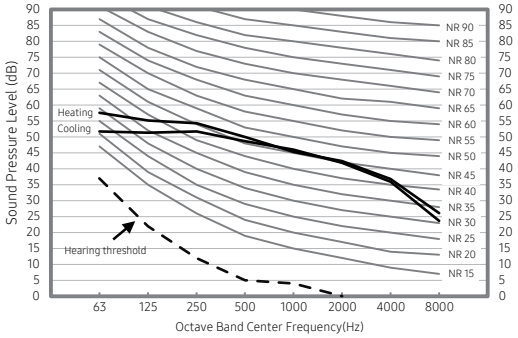
2) AE066MXTPEH✱✱



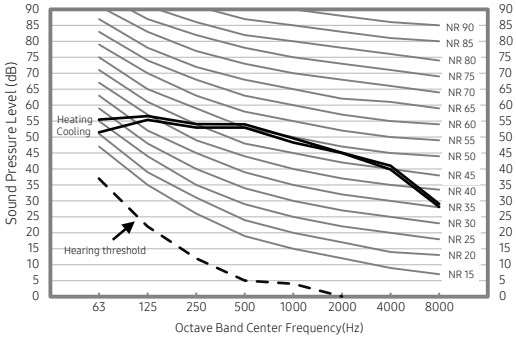
3) AE090MXTP✱H✱✱



4) AE120MXTP✱H✱✱



5) AE160MXTP✱H✱✱



2. Outdoor Units

2-5. Sound data

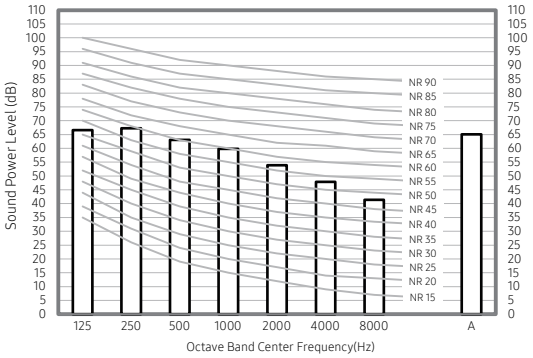
Sound Power level

NOTE

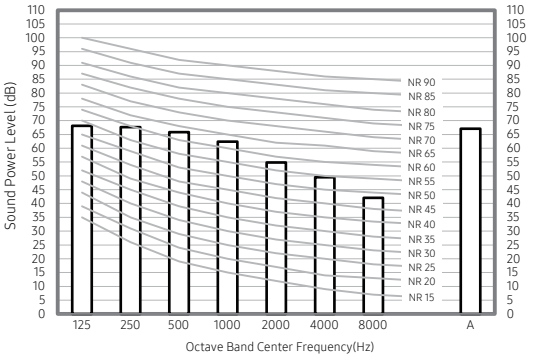
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Model	Power (dBA)
AE044MXTPEH✱✱	65
AE066MXTPEH✱✱	67
AE090MXTP✱H✱✱	69
AE120MXTP✱H✱✱	70
AE160MXTP✱H✱✱	73

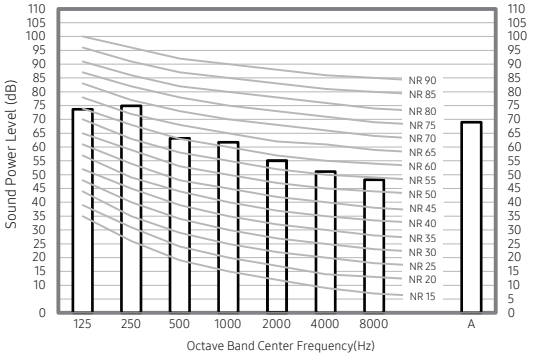
1) AE044MXTPEH✱✱



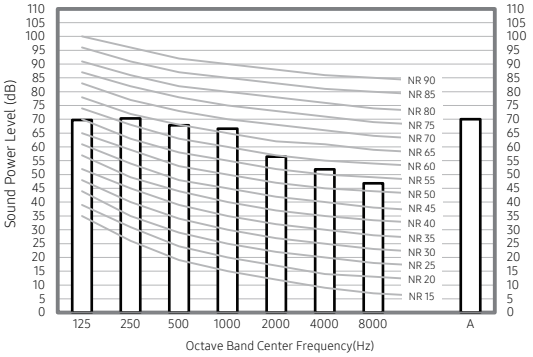
2) AE066MXTPEH✱✱



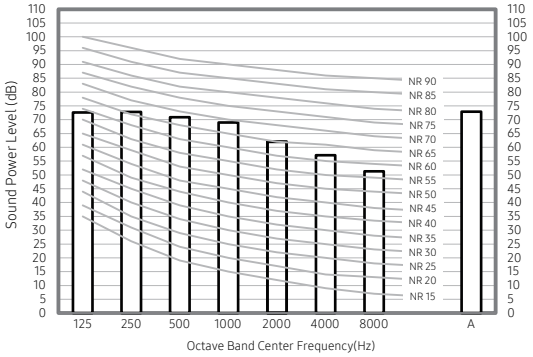
3) AE090MXTP✱H✱✱



4) AE120MXTP✱H✱✱



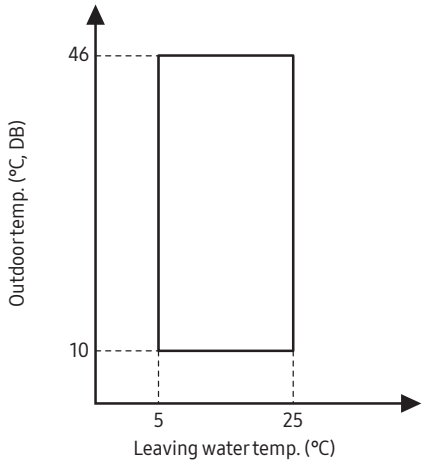
5) AE160MXTP✱H✱✱



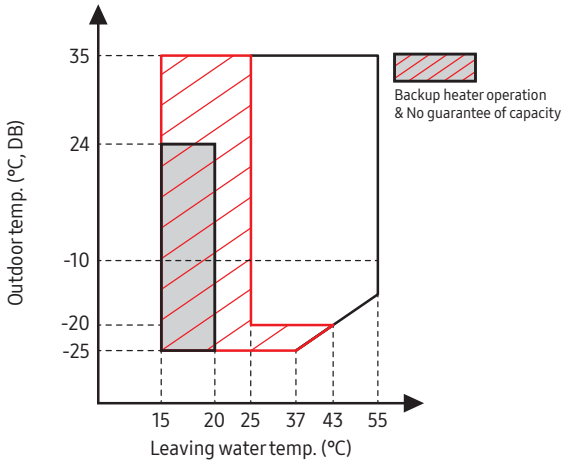
2. Outdoor Units

2-6. Operation range

1) Cooling



2) Heating



MONO 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	12 (7*1)	Δ 5°C	58 (48*1)	10/-	35/24	46/28
	Outlet	5	18 (7*2)	25						
Heating	Inlet	5	30 (40*2)	-				-25/-	7/6 (-7/-8*3)	35/24
	Outlet	25 (15*4)	35 (45*2)	55						

*1) Model : AE044/066/090MXTP✕H

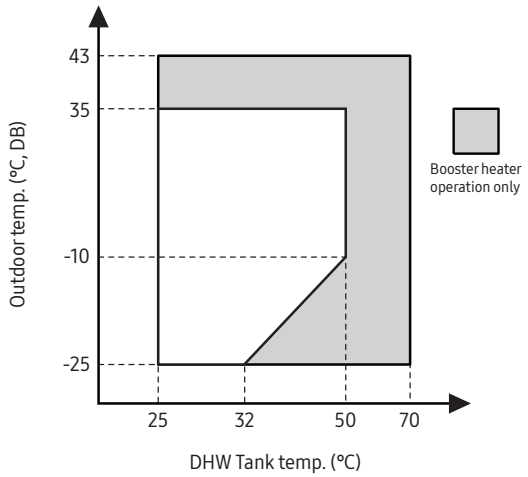
*2) Eurovent Test Condition #2

*3) NF PAC Low Temp. Heating Condition.

*4) Back up heater operation.

※ Backup heater oper Operation of outdoor unit possible, but no guarantee of capacity in this condition.

3) DHW (Domestic Hot Water Tank)



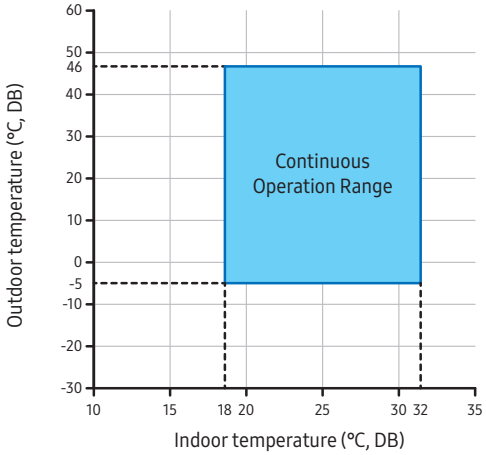
※ Special condition(35°C < Outdoor temp. ≤ 43°C) is operated by only Booster Heater.
SAMSUNG doesn't supply DHW for EHS TDM.
Since it is a reference data, you have to check DHW operation range for yours.

2. Outdoor Units

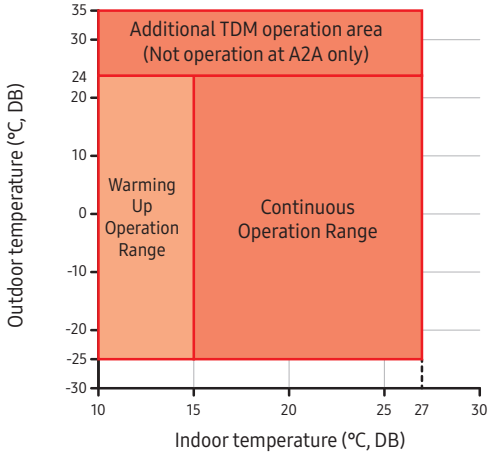
2-6. Operation range

Air to Air

1) Cooling



2) Heating



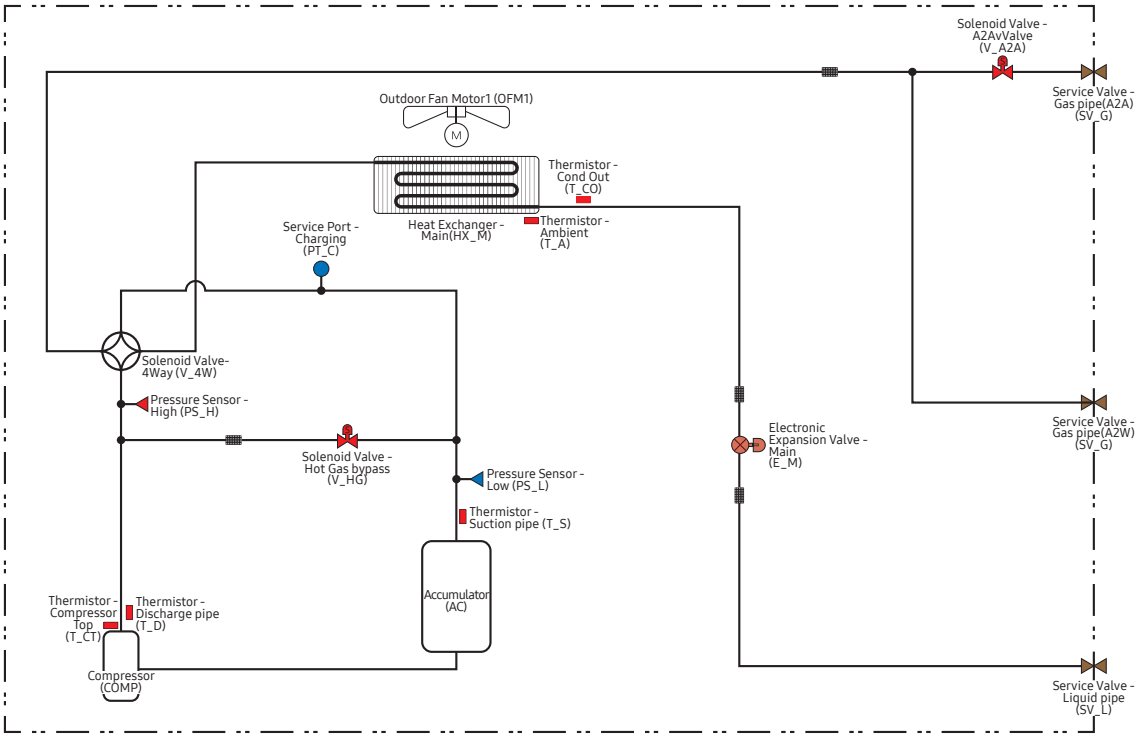
NOTE

- The standardized temperature for heating is 7°C DB. If the outdoor temperature drops to 0°C DB or below, the heating capacity can be reduced depending on the temperature condition.
- The use of the air conditioner at a relative humidity above the expected one (80%) may cause the formation of condensate and the leakage of water drops on the floor.
- When A2A and A2W are in TDM operation, the heating temperature can be set to up to 35 °C.

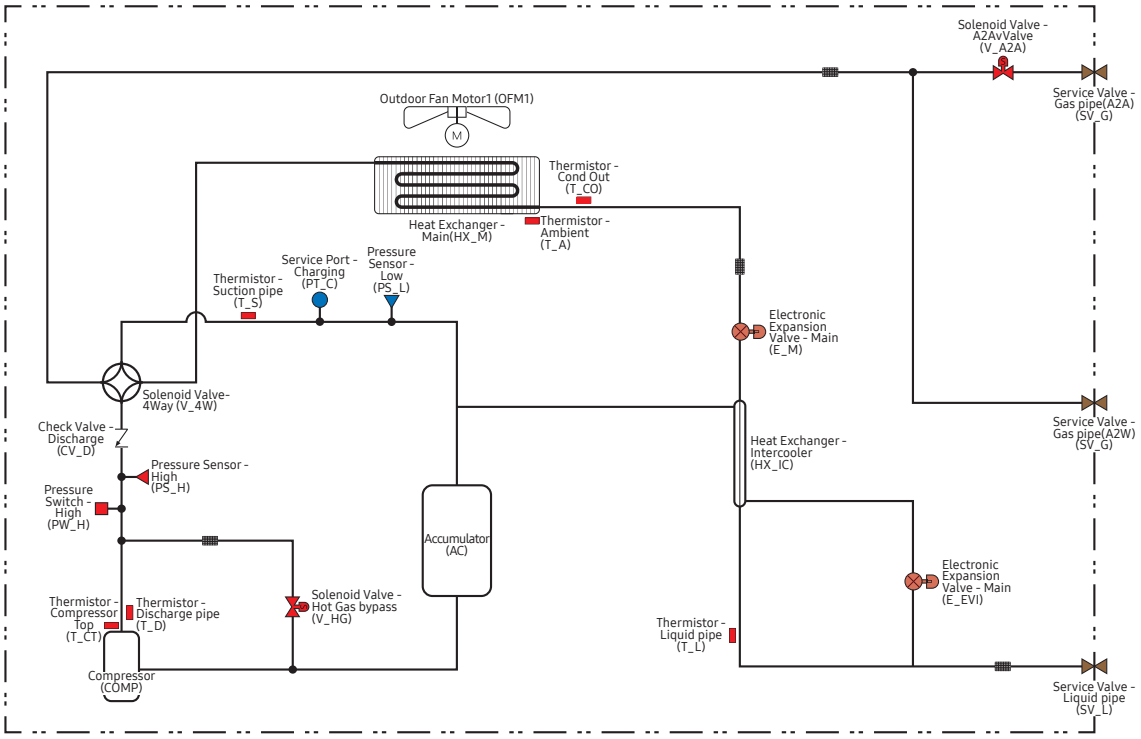
2. Outdoor Units

2-7. Piping diagram

AE044/066MXTPEH/EU



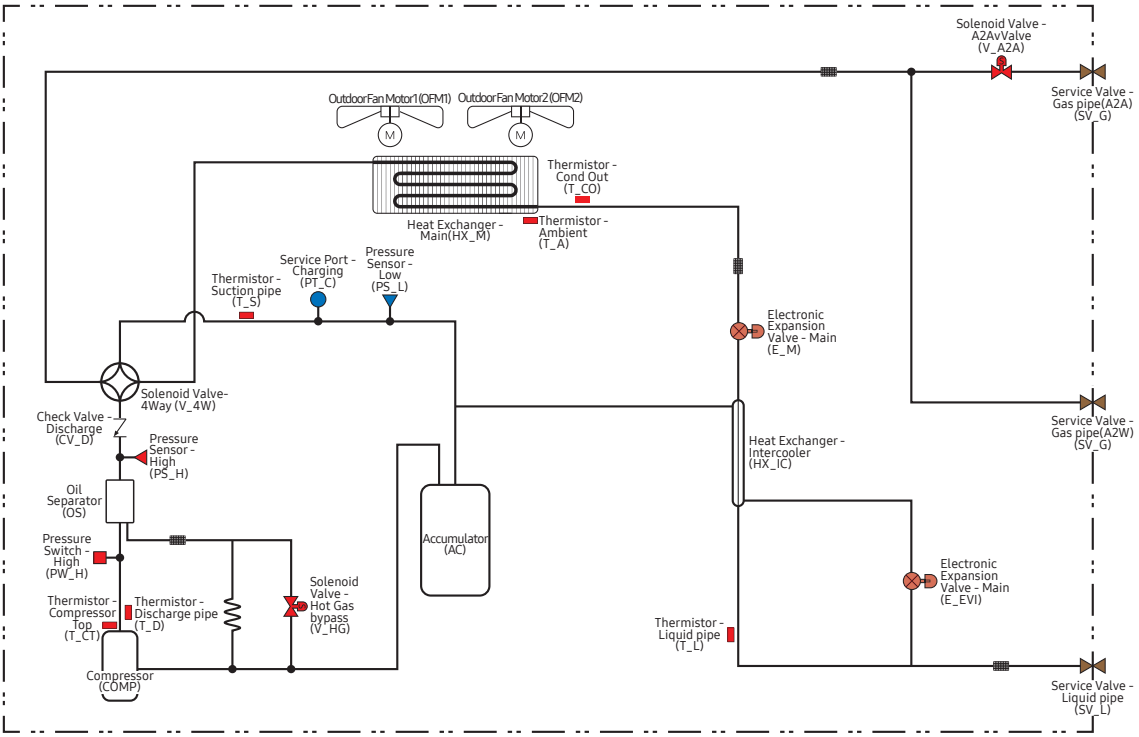
AE090MXTP✱H/EU



2. Outdoor Units

2-7. Piping diagram

AE120/160MXTP*H/EU



2. Outdoor Units

2-8. Capacity table (A2W)

1) Maximum Heating Capacity (Peak Value)

LWT (Leaving Water Temp.), Tamb (Ambient Temp.), HC (Heating Capacity), PI (Power input)

Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE044MXTPEH	-20	3.37	1.24	3.27	1.33	3.12	1.50	3.00	1.60	2.88	1.76				
	-15	3.84	1.40	3.73	1.49	3.55	1.68	3.48	1.79	3.46	1.85	3.35	1.95		
	-10	4.32	1.41	4.20	1.50	4.00	1.69	3.94	1.88	3.82	2.04	3.71	2.13	3.39	2.17
	-7	4.21	1.32	4.10	1.38	3.90	1.40	3.82	1.67	3.73	1.86	3.61	1.84	3.48	1.80
	-2	4.36	1.21	4.24	1.24	4.03	1.33	3.88	1.51	3.76	1.63	3.53	1.78	3.35	1.91
	2	4.50	1.04	4.38	1.11	4.17	1.24	3.98	1.31	3.74	1.38	3.52	1.53	3.33	1.64
	7	4.75	0.77	4.62	0.85	4.40	0.93	4.20	1.07	4.00	1.16	3.91	1.30	3.83	1.37
	10	5.09	0.80	4.95	0.85	4.71	0.96	4.54	1.08	4.37	1.20	4.15	1.35	3.93	1.50
	15	5.80	0.81	5.64	0.87	5.37	0.97	5.24	1.08	5.12	1.22	4.86	1.38	4.61	1.53
	20	6.65	0.80	6.47	0.86	6.16	0.97	6.07	1.09	5.98	1.23	5.68	1.38	5.39	1.54
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE066MXTPEH	-20	5.06	1.97	4.92	2.11	4.68	2.37	4.50	2.53	4.32	2.79				
	-15	5.76	2.21	5.60	2.36	5.33	2.66	5.23	2.82	5.18	2.93	5.04	3.08		
	-10	6.49	2.20	6.31	2.38	6.01	2.64	5.83	2.94	5.65	3.20	5.48	3.38	5.08	3.60
	-7	6.16	1.95	5.99	2.01	5.70	2.06	5.58	2.49	5.36	2.70	4.82	2.55	4.60	2.58
	-2	6.34	1.78	6.16	1.86	5.87	1.98	5.64	2.24	5.41	2.45	5.14	2.65	4.87	2.87
	2	6.53	1.59	6.34	1.71	6.04	1.88	5.71	2.00	5.37	2.11	5.10	2.37	4.83	2.54
	7	7.13	1.22	6.93	1.34	6.60	1.47	6.35	1.68	6.10	1.83	5.45	1.88	4.80	1.85
	10	7.63	1.25	7.42	1.35	7.07	1.51	6.85	1.70	6.62	1.90	6.30	2.13	5.97	2.37
	15	8.70	1.28	8.47	1.37	8.06	1.53	7.89	1.71	7.71	1.94	7.33	2.18	6.94	2.42
	20	9.98	1.27	9.70	1.36	9.24	1.53	9.11	1.72	8.98	1.94	8.53	2.18	8.08	2.43
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE090MXTP*H	-20	6.89	2.83	6.70	3.04	6.38	3.41	6.13	3.64	5.89	4.02				
	-15	7.85	3.18	7.63	3.41	7.27	3.83	7.13	4.06	7.08	4.22	6.86	4.44		
	-10	8.85	3.16	8.60	3.40	8.19	3.78	7.94	4.20	7.70	4.58	7.47	4.80	6.93	5.15
	-7	7.99	2.54	7.77	2.62	7.40	2.67	7.24	3.15	7.09	3.54	6.80	3.48	6.70	3.50
	-2	8.33	2.28	8.10	2.39	7.71	2.55	7.41	2.89	7.11	3.16	6.75	3.42	6.40	3.71
	2	8.66	2.03	8.42	2.16	8.02	2.40	7.58	2.53	7.13	2.68	6.77	3.01	6.42	3.25
	7	9.72	1.76	9.45	1.93	9.00	2.12	8.65	2.36	8.30	2.50	8.12	2.78	7.95	2.96
	10	10.41	1.81	10.11	1.94	9.63	2.18	9.33	2.40	9.03	2.62	8.58	2.95	8.12	3.27
	15	11.87	1.84	11.54	1.97	11.00	2.21	10.75	2.44	10.51	2.73	9.99	3.08	9.46	3.43
	20	13.61	1.83	13.23	1.96	12.60	2.20	12.42	2.48	12.24	2.80	11.63	3.15	11.02	3.50
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE120MXTP*H	-20	9.20	3.64	8.94	3.90	8.52	4.38	8.18	4.67	7.85	5.16				
	-15	10.47	4.07	10.17	4.37	9.69	4.91	9.51	5.22	9.44	5.42	9.15	5.70		
	-10	11.79	4.05	11.47	4.33	10.92	4.68	10.59	5.42	10.26	5.91	9.96	6.19	9.24	6.60
	-7	11.45	3.25	11.13	3.40	10.60	3.69	10.37	4.33	10.15	4.75	9.79	4.77	9.50	4.65
	-2	11.91	3.14	11.58	3.30	11.03	3.63	10.60	4.06	10.17	4.38	9.66	4.72	9.15	5.15
	2	12.38	2.90	12.03	3.11	11.46	3.47	10.82	3.65	10.19	3.88	9.68	4.32	9.17	4.69
	7	12.96	2.26	12.60	2.47	12.00	2.72	11.60	3.07	11.20	3.30	10.96	3.68	10.72	3.91
	10	13.88	2.33	13.48	2.49	12.85	2.79	12.49	3.12	12.13	3.44	11.52	3.87	10.92	4.29
	15	15.83	2.36	15.39	2.53	14.65	2.84	14.36	3.15	14.06	3.55	13.36	3.99	12.66	4.44
	20	18.14	2.34	17.64	2.51	16.80	2.82	16.56	3.18	16.32	3.59	15.50	4.04	14.69	4.49
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE160MXTP*H	-20	11.97	5.54	11.64	5.66	11.08	6.36	10.66	6.79	10.22	7.49				
	-15	13.62	5.92	13.24	6.35	12.62	7.13	12.39	7.58	12.28	7.87	11.92	8.27		
	-10	15.55	5.85	15.12	6.29	14.40	6.74	13.97	7.81	13.54	8.55	13.13	8.92	12.18	9.59
	-7	15.12	4.72	14.70	4.87	14.00	5.08	13.70	6.14	13.40	6.76	12.87	6.64	12.33	6.61
	-2	15.27	4.30	14.84	4.57	14.14	4.90	13.59	5.53	13.04	6.05	12.39	6.57	11.74	7.15
	2	15.41	3.87	14.98	4.19	14.27	4.60	13.48	4.88	12.69	5.15	12.05	5.78	11.42	6.24
	7	17.28	3.28	16.80	3.59	16.00	3.95	15.50	4.42	15.00	4.71	14.80	5.12	14.60	5.32
	10	18.50	3.38	17.98	3.62	17.13	4.06	16.68	4.50	16.23	4.93	15.42	5.54	14.60	6.15
	15	21.10	3.42	20.52	3.67	19.54	4.12	19.16	4.55	18.78	5.12	17.84	5.76	16.90	6.41
	20	24.19	3.40	23.52	3.65	22.40	4.10	22.08	4.61	21.76	5.22	20.67	5.87	19.58	6.52

1. Heating capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for heated water range △t = 3~8°C
2. Cooling capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for chilled water range △t = 3~8°C
3. Power input : Power input is according to Eurovent rating standard OM-3-2015.
4. Peak value : Tested without defrost operation in accordance with EN14511

※ The real capacity would be changed according to the install environment.

2. Outdoor Units

2-8. Capacity table (A2W)

2) Maximum Heating Capacity (Integrated Value)

LWT (Leaving Water Temp.), Tamb (Ambient Temp.), HC (Heating Capacity), PI (Power input)

Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE044MXTPEH	-20	3.37	1.24	3.27	1.33	3.12	1.50	3.00	1.60	2.88	1.76				
	-15	3.84	1.40	3.73	1.49	3.55	1.68	3.48	1.79	3.46	1.85	3.35	1.95		
	-10	4.10	1.36	3.99	1.45	3.80	1.64	3.80	1.83	3.68	1.98	3.58	2.08	3.39	2.17
	-7	3.84	1.28	3.73	1.31	3.67	1.33	3.66	1.63	3.58	1.81	3.44	1.79	3.30	1.72
	-2	3.97	1.12	3.87	1.19	3.68	1.29	3.72	1.46	3.57	1.59	3.39	1.73	3.21	1.90
	2	4.23	0.99	4.12	1.06	3.92	1.19	3.78	1.26	3.56	1.32	3.38	1.49	3.20	1.63
	7	4.75	0.77	4.62	0.85	4.40	0.93	4.20	1.07	4.00	1.16	3.91	1.30	3.83	1.37
	10	5.09	0.80	4.95	0.85	4.71	0.96	4.54	1.08	4.37	1.20	4.15	1.35	3.93	1.50
	15	5.80	0.81	5.64	0.87	5.37	0.97	5.24	1.08	5.12	1.22	4.86	1.38	4.61	1.53
	20	6.65	0.80	6.47	0.86	6.16	0.97	6.07	1.09	5.98	1.23	5.68	1.38	5.39	1.54
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE066MXTPEH	-20	5.06	1.97	4.92	2.11	4.68	2.37	4.50	2.53	4.32	2.79				
	-15	5.76	2.21	5.60	2.36	5.33	2.66	5.23	2.82	5.18	2.93	5.04	3.08		
	-10	6.04	2.15	5.87	2.30	5.60	2.59	5.60	2.88	5.42	3.14	5.26	3.30	4.88	3.53
	-7	5.61	1.92	5.46	1.91	5.36	1.96	5.36	2.39	5.24	2.66	4.63	2.49	4.02	2.28
	-2	5.79	1.69	5.62	1.78	5.36	1.94	5.42	2.19	5.20	2.39	4.94	2.60	4.68	2.84
	2	6.13	1.52	5.97	1.64	5.68	1.84	5.48	1.94	5.16	2.05	4.90	2.31	4.64	2.51
	7	7.13	1.22	6.93	1.34	6.60	1.47	6.35	1.68	6.10	1.83	5.45	1.88	4.80	1.85
	10	7.63	1.25	7.42	1.35	7.07	1.51	6.85	1.70	6.62	1.90	6.30	2.13	5.97	2.37
	15	8.70	1.28	8.47	1.37	8.06	1.53	7.89	1.71	7.71	1.94	7.33	2.18	6.94	2.42
	20	9.98	1.27	9.70	1.36	9.24	1.53	9.11	1.72	8.98	1.94	8.53	2.18	8.08	2.43
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE090MXTP*H	-20	6.89	2.83	6.70	3.04	6.38	3.41	6.13	3.64	5.89	4.02				
	-15	7.85	3.18	7.63	3.41	7.27	3.83	7.13	4.06	7.08	4.22	6.86	4.44		
	-10	8.41	3.10	8.17	3.32	7.78	3.73	7.78	4.16	7.55	4.53	7.32	4.75	6.79	5.10
	-7	7.29	2.49	7.09	2.49	6.96	2.54	6.95	3.10	6.80	3.46	6.53	3.40	6.26	3.29
	-2	7.59	2.18	7.38	2.29	7.03	2.50	7.11	2.82	6.82	3.07	6.48	3.35	6.14	3.66
	2	8.15	1.93	7.93	2.08	7.55	2.33	7.27	2.47	6.84	2.60	6.50	2.93	6.16	3.19
	7	9.72	1.76	9.45	1.93	9.00	2.12	8.65	2.36	8.30	2.50	8.12	2.78	7.95	2.96
	10	10.41	1.81	10.11	1.94	9.63	2.18	9.33	2.40	9.03	2.62	8.58	2.95	8.12	3.27
	15	11.87	1.84	11.54	1.97	11.00	2.21	10.75	2.44	10.51	2.73	9.99	3.08	9.46	3.43
	20	13.61	1.83	13.23	1.96	12.60	2.20	12.42	2.48	12.24	2.80	11.63	3.15	11.02	3.50
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE120MXTP*H	-20	9.20	3.64	8.94	3.90	8.52	4.38	8.18	4.67	7.85	5.16				
	-15	10.47	4.07	10.17	4.37	9.69	4.91	9.51	5.22	9.44	5.42	9.15	5.70		
	-10	11.20	3.97	10.90	4.26	10.37	4.57	10.38	5.34	10.05	5.81	9.76	6.09	9.06	6.55
	-7	10.44	3.12	10.15	3.20	10.08	3.60	9.96	4.26	9.74	4.65	9.35	4.59	8.96	4.43
	-2	10.87	3.04	10.56	3.20	10.48	3.50	10.17	3.93	9.76	4.28	9.27	4.67	8.78	5.09
	2	11.64	2.81	11.32	3.01	10.78	3.39	10.39	3.59	9.78	3.78	9.29	4.25	8.80	4.64
	7	12.96	2.26	12.60	2.47	12.00	2.72	11.60	3.07	11.20	3.30	10.96	3.68	10.72	3.91
	10	13.88	2.33	13.48	2.49	12.85	2.79	12.49	3.12	12.13	3.44	11.52	3.87	10.92	4.29
	15	15.83	2.36	15.39	2.53	14.65	2.84	14.36	3.15	14.06	3.55	13.36	3.99	12.66	4.44
	20	18.14	2.34	17.64	2.51	16.80	2.82	16.56	3.18	16.32	3.59	15.50	4.04	14.69	4.49
Model	LWT(°C)	25		30		35		40		45		50		55	
	Tamb(°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE160MXTP*H	-20	11.97	5.54	11.64	5.66	11.08	6.36	10.66	6.79	10.22	7.49				
	-15	13.62	5.92	13.24	6.35	12.62	7.13	12.39	7.58	12.28	7.87	11.92	8.27		
	-10	14.77	5.78	14.36	6.18	13.68	6.64	13.69	7.74	13.27	8.43	12.87	8.85	11.94	9.51
	-7	13.79	4.49	13.40	4.59	13.31	4.92	13.15	6.11	12.87	6.67	12.35	6.57	11.84	6.35
	-2	13.93	4.20	13.54	4.43	13.43	4.84	13.05	5.45	12.52	5.93	11.90	6.48	11.27	7.07
	2	14.50	3.75	14.10	4.02	13.43	4.52	12.94	4.78	12.18	5.04	11.57	5.67	10.96	6.18
	7	17.28	3.28	16.80	3.59	16.00	3.95	15.50	4.42	15.00	4.71	14.80	5.12	14.60	5.32
	10	18.50	3.38	17.98	3.62	17.13	4.06	16.68	4.50	16.23	4.93	15.42	5.54	14.60	6.15
	15	21.10	3.42	20.52	3.67	19.54	4.12	19.16	4.55	18.78	5.12	17.84	5.76	16.90	6.41
	20	24.19	3.40	23.52	3.65	22.40	4.10	22.08	4.61	21.76	5.22	20.67	5.87	19.58	6.52

1. Heating capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for heated water range △t = 3~8°C
2. Cooling capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for chilled water range △t = 3~8°C
3. Power input : Power input is according to Eurovent rating standard OM-3-2015.
4. Integrated value : Tested with defrost operation in accordance with EN14511

※ The real capacity would be changed according to the install environment.

2. Outdoor Units

2-8. Capacity table (A2W)

3) Cooling Capacity

LWT (Leaving Water Temp.), Tamb (Ambient Temp.), CC (Cooling Capacity), PI (Power input)

	LWT (°C)	7		10		13		15		18		25	
	Tamb (°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE044MXTPEH/EU	10	4.31	0.79	4.76	0.79	5.20	0.79	5.50	0.79	5.92	0.79	6.97	0.79
	20	3.99	0.89	4.41	0.89	4.85	0.89	5.18	0.89	5.61	0.89	6.61	0.89
	30	3.64	0.98	4.09	0.98	4.55	0.98	4.80	0.98	5.25	0.98	6.30	0.98
	35	3.50	1.03	3.94	1.03	4.37	1.03	4.66	1.03	5.10	1.03	6.12	1.03
	46	3.15	1.13	3.58	1.13	4.02	1.13	4.29	1.13	4.74	1.13	5.75	1.13
	LWT (°C)	7		10		13		15		18		25	
	Tamb (°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE066MXTPEH/EU	10	6.89	1.38	7.14	1.31	7.38	1.25	7.55	1.20	7.77	1.14	8.44	0.99
	20	6.38	1.54	6.61	1.47	6.88	1.39	7.10	1.35	7.37	1.27	7.99	1.10
	30	5.82	1.70	6.14	1.62	6.45	1.54	6.59	1.49	6.90	1.41	7.62	1.22
	35	5.60	1.79	5.90	1.71	6.20	1.62	6.40	1.56	6.70	1.48	7.40	1.28
	46	5.04	1.97	5.37	1.88	5.70	1.78	5.89	1.72	6.23	1.63	6.96	1.41
	LWT (°C)	7		10		13		15		18		25	
	Tamb (°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE090MXTPEH/E	10	7.39	1.22	8.07	1.25	8.77	1.26	9.18	1.27	9.92	1.28	11.43	1.32
	20	6.66	1.45	7.32	1.46	8.01	1.48	8.45	1.49	9.12	1.52	10.67	1.55
	30	5.94	1.68	6.63	1.70	7.25	1.71	7.71	1.72	8.40	1.74	9.91	1.77
	35	5.60	1.79	6.25	1.81	6.91	1.82	7.35	1.83	8.00	1.85	9.53	1.89
	46	4.82	2.04	5.44	2.06	6.08	2.06	6.54	2.09	7.20	2.11	8.67	2.13
	LWT (°C)	7		10		13		15		18		25	
	Tamb (°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE090MXTPGH/EU	10	7.52	1.19	8.16	1.23	8.83	1.25	9.22	1.26	9.92	1.28	11.36	1.35
	20	6.78	1.42	7.40	1.44	8.07	1.47	8.48	1.48	9.12	1.53	10.60	1.58
	30	6.04	1.65	6.71	1.67	7.30	1.70	7.74	1.72	8.40	1.75	9.84	1.81
	35	5.70	1.75	6.33	1.78	6.95	1.81	7.37	1.83	8.00	1.86	9.46	1.93
	46	4.90	2.00	5.50	2.03	6.12	2.05	6.56	2.09	7.20	2.12	8.61	2.18
	LWT (°C)	7		10		13		15		18		25	
	Tamb (°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE120MXTP※H/EU	10	11.35	1.90	12.29	1.95	13.28	1.97	13.84	1.98	14.88	2.00	17.00	2.08
	20	10.23	2.26	11.15	2.28	12.13	2.31	12.73	2.32	13.68	2.38	15.86	2.44
	30	9.12	2.62	10.10	2.65	10.98	2.68	11.63	2.70	12.60	2.73	14.73	2.79
	35	8.60	2.79	9.53	2.82	10.45	2.85	11.07	2.87	12.00	2.90	14.16	2.97
	46	7.40	3.18	8.29	3.21	9.20	3.22	9.85	3.27	10.80	3.31	12.89	3.36
	LWT (°C)	7		10		13		15		18		25	
	Tamb (°C)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)	HC(kW)	PI(kW)
AE160MXTP※H/EU	10	13.46	2.42	14.67	2.51	15.93	2.56	16.66	2.60	17.98	2.65	20.68	2.81
	20	12.14	2.88	13.31	2.95	14.55	3.01	15.33	3.05	16.53	3.15	19.30	3.29
	30	10.81	3.35	12.06	3.42	13.17	3.49	13.99	3.54	15.23	3.61	17.93	3.78
	35	10.20	3.56	11.37	3.64	12.55	3.71	13.33	3.76	14.50	3.84	17.24	4.02
	46	8.77	4.06	9.89	4.15	11.04	4.20	11.86	4.29	13.05	4.38	15.69	4.54

1. Heating capacity is according to Eurovent rating standard OM-3-2015 and valid for heated water range Δt = 3~8°C
2. Cooling capacity is according to Eurovent rating standard OM-3-2015 and valid for chilled water range Δt = 3~8°C
3. Power input is total of indoor and outdoor unit, according to Eurovent rating standard OM-3-2015.

※ The real capacity would be changed according to the install environment.

2. Outdoor Units

2-8. Capacity table (A2A)

AE044MXTPEH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	3.8	1.60	3.7	1.70	3.7	1.80	3.7	1.80	3.7	1.80	3.7	1.80
	-19	-19	3.9	1.70	3.9	1.70	3.8	1.80	3.9	1.80	3.9	1.80	3.9	1.80
	-17	-17	4.1	1.70	4.1	1.80	4.0	1.80	4.1	1.80	4.1	1.80	4.1	1.90
	-15	-15	4.4	1.80	4.4	1.80	4.3	1.90	4.3	1.90	4.3	2.00	4.1	1.80
	-13	-13	4.6	1.80	4.6	1.90	4.5	1.90	4.6	2.00	4.4	1.80	4.1	1.70
	-11	-11	4.9	1.90	4.9	1.90	4.6	1.90	4.6	1.80	4.4	1.70	4.1	1.60
	-10	-10	4.9	1.80	4.9	1.80	4.6	1.80	4.6	1.70	4.4	1.60	4.1	1.50
	-9	-9	5.1	1.80	5.0	1.80	4.6	1.70	4.6	1.60	4.4	1.60	4.1	1.40
	-7	-8	5.3	1.80	5.0	1.80	4.6	1.60	4.6	1.60	4.4	1.50	4.1	1.40
	-5	-6	5.3	1.80	5.0	1.70	4.6	1.60	4.6	1.50	4.4	1.40	4.1	1.30
	-3	-4	5.3	1.60	5.0	1.50	4.6	1.40	4.6	1.40	4.4	1.30	4.1	1.20
	0	-1	5.3	1.50	5.0	1.40	4.6	1.30	4.6	1.30	4.4	1.20	4.1	1.10
	3	2	5.3	1.40	5.0	1.30	4.6	1.30	4.6	1.20	4.4	1.10	4.1	1.10
	5	4	5.3	1.40	5.0	1.30	4.6	1.20	4.6	1.10	4.4	1.10	4.1	1.00
	7	6	5.3	1.30	4.9	1.20	4.6	1.12	4.5	1.10	4.3	1.10	4.1	1.00
	9	8	5.5	1.30	5.1	1.20	4.8	1.10	4.7	1.10	4.5	1.00	4.2	0.90
	11	10	5.5	1.20	5.1	1.10	4.8	1.10	4.7	1.00	4.5	1.00	4.2	0.90
	13	12	5.5	1.10	5.1	1.10	4.8	1.00	4.7	1.00	4.5	0.90	4.2	0.90
	15	14	5.5	1.10	5.1	1.10	4.8	1.00	4.7	0.90	4.5	0.90	4.2	0.90
90%	-20	-20	3.5	1.70	3.5	1.80	3.5	1.80	3.5	1.80	3.5	1.80	3.4	1.80
	-19	-19	3.6	1.80	3.6	1.80	3.6	1.80	3.6	1.80	3.6	1.90	3.4	1.80
	-17	-17	3.8	1.80	3.8	1.80	3.8	1.90	3.8	1.90	3.7	1.80	3.4	1.60
	-15	-15	4.0	1.90	4.0	1.90	3.9	1.90	3.8	1.80	3.7	1.70	3.4	1.60
	-13	-13	4.3	1.90	4.2	1.90	3.9	1.80	3.8	1.70	3.7	1.60	3.4	1.50
	-11	-11	4.4	1.90	4.2	1.80	3.9	1.60	3.8	1.60	3.7	1.50	3.4	1.40
	-10	-10	4.4	1.80	4.2	1.70	3.9	1.60	3.8	1.50	3.7	1.40	3.4	1.30
	-9	-9	4.4	1.80	4.2	1.60	3.9	1.50	3.8	1.40	3.7	1.40	3.4	1.30
	-7	-8	4.4	1.70	4.2	1.60	3.9	1.40	3.8	1.40	3.7	1.30	3.4	1.30
	-5	-6	4.4	1.60	4.2	1.50	3.9	1.40	3.8	1.30	3.7	1.30	3.4	1.20
	-3	-4	4.4	1.40	4.2	1.30	3.9	1.30	3.8	1.20	3.7	1.10	3.4	1.10
	0	-1	4.4	1.30	4.2	1.30	3.9	1.20	3.8	1.10	3.7	1.10	3.4	1.00
	3	2	4.4	1.30	4.2	1.20	3.9	1.10	3.8	1.10	3.7	1.00	3.4	0.90
	5	4	4.4	1.20	4.2	1.10	3.9	1.10	3.8	1.00	3.7	1.00	3.4	0.90
	7	6	4.7	1.10	4.5	1.10	4.2	1.00	4.1	1.00	3.9	0.90	3.7	0.90
	9	8	4.8	1.10	4.5	1.00	4.3	0.90	4.1	0.90	3.9	0.90	3.7	0.80
	11	10	4.8	1.10	4.5	1.00	4.3	0.90	4.1	0.90	3.9	0.90	3.7	0.80
	13	12	4.8	1.00	4.5	0.90	4.3	0.90	4.1	0.90	3.9	0.80	3.7	0.80
	15	14	4.8	1.00	4.5	0.90	4.3	0.90	4.1	0.90	3.9	0.80	3.7	0.70
80%	-20	-20	3.5	1.80	3.5	1.80	3.5	1.90	3.4	1.80	3.3	1.80	3.0	1.60
	-19	-19	3.6	1.80	3.6	1.80	3.5	1.80	3.4	1.80	3.3	1.70	3.0	1.50
	-17	-17	3.8	1.90	3.7	1.80	3.5	1.70	3.4	1.60	3.3	1.60	3.0	1.40
	-15	-15	3.9	1.90	3.7	1.80	3.5	1.60	3.4	1.60	3.3	1.50	3.0	1.40
	-13	-13	3.9	1.80	3.7	1.60	3.5	1.50	3.4	1.40	3.3	1.40	3.0	1.30
	-11	-11	3.9	1.60	3.7	1.60	3.5	1.40	3.4	1.40	3.3	1.30	3.0	1.20
	-10	-10	3.9	1.60	3.7	1.40	3.5	1.30	3.4	1.30	3.3	1.30	3.0	1.10
	-9	-9	3.9	1.50	3.7	1.40	3.5	1.30	3.4	1.30	3.3	1.20	3.0	1.10
	-7	-8	3.9	1.40	3.7	1.40	3.5	1.30	3.4	1.20	3.3	1.20	3.0	1.10
	-5	-6	3.9	1.40	3.7	1.30	3.5	1.20	3.4	1.10	3.3	1.10	3.0	1.00
	-3	-4	3.9	1.30	3.7	1.20	3.5	1.10	3.4	1.10	3.3	1.00	3.0	0.90
	0	-1	3.9	1.20	3.7	1.10	3.5	1.00	3.4	1.00	3.3	0.90	3.0	0.90
	3	2	3.9	1.10	3.7	1.00	3.5	0.90	3.4	0.90	3.3	0.90	3.0	0.80
	5	4	3.9	1.10	3.7	1.00	3.5	0.90	3.4	0.90	3.3	0.90	3.0	0.80
	7	6	4.2	1.00	3.9	0.90	3.7	0.90	3.6	0.90	3.5	0.80	3.2	0.70
	9	8	4.3	0.90	4.0	0.90	3.7	0.90	3.7	0.80	3.5	0.80	3.3	0.70
	11	10	4.3	0.90	4.0	0.90	3.7	0.80	3.7	0.80	3.5	0.70	3.3	0.70
	13	12	4.3	0.90	4.0	0.90	3.7	0.80	3.7	0.70	3.5	0.70	3.3	0.70
	15	14	4.3	0.90	4.0	0.80	3.7	0.70	3.7	0.70	3.5	0.70	3.3	0.70

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE044MXTPEH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	3.4	1.80	3.2	1.70	3.0	1.60	3.0	1.50	2.8	1.40	2.6	1.40
	-19	-19	3.4	1.80	3.2	1.60	3.0	1.50	3.0	1.50	2.8	1.40	2.6	1.30
	-17	-17	3.4	1.60	3.2	1.60	3.0	1.40	3.0	1.40	2.8	1.30	2.6	1.20
	-15	-15	3.4	1.60	3.2	1.50	3.0	1.40	3.0	1.30	2.8	1.30	2.6	1.20
	-13	-13	3.4	1.50	3.2	1.40	3.0	1.30	3.0	1.30	2.8	1.20	2.6	1.10
	-11	-11	3.4	1.40	3.2	1.30	3.0	1.30	3.0	1.20	2.8	1.10	2.6	1.10
	-10	-10	3.4	1.30	3.2	1.30	3.0	1.10	3.0	1.10	2.8	1.10	2.6	1.00
	-9	-9	3.4	1.30	3.2	1.20	3.0	1.10	3.0	1.10	2.8	1.10	2.6	0.90
	-7	-8	3.4	1.30	3.2	1.10	3.0	1.10	3.0	1.10	2.8	1.00	2.6	0.90
	-5	-6	3.4	1.20	3.2	1.10	3.0	1.00	3.0	1.00	2.8	0.90	2.6	0.90
	-3	-4	3.4	1.10	3.2	1.00	3.0	0.90	3.0	0.90	2.8	0.90	2.6	0.80
	0	-1	3.4	1.00	3.2	0.90	3.0	0.90	3.0	0.90	2.8	0.80	2.6	0.70
	3	2	3.4	0.90	3.2	0.90	3.0	0.80	3.0	0.80	2.8	0.80	2.6	0.70
	5	4	3.4	0.90	3.2	0.90	3.0	0.80	3.0	0.80	2.8	0.70	2.6	0.70
	7	6	3.7	0.90	3.5	0.80	3.3	0.70	3.2	0.70	3.0	0.70	2.8	0.70
	9	8	3.7	0.80	3.5	0.80	3.3	0.70	3.2	0.70	3.1	0.70	2.9	0.60
	11	10	3.7	0.80	3.5	0.70	3.3	0.70	3.2	0.70	3.1	0.70	2.9	0.60
	13	12	3.7	0.80	3.5	0.70	3.3	0.70	3.2	0.70	3.1	0.60	2.9	0.60
	15	14	3.7	0.70	3.5	0.70	3.3	0.70	3.2	0.70	3.1	0.60	2.9	0.60
60%	-20	-20	3.0	1.50	2.8	1.40	2.6	1.30	2.5	1.30	2.4	1.30	2.3	1.10
	-19	-19	3.0	1.50	2.8	1.40	2.6	1.30	2.5	1.30	2.4	1.20	2.3	1.10
	-17	-17	3.0	1.40	2.8	1.30	2.6	1.20	2.5	1.10	2.4	1.10	2.3	1.00
	-15	-15	3.0	1.30	2.8	1.30	2.6	1.10	2.5	1.10	2.4	1.10	2.3	1.00
	-13	-13	3.0	1.30	2.8	1.20	2.6	1.10	2.5	1.10	2.4	1.00	2.3	0.90
	-11	-11	3.0	1.20	2.8	1.10	2.6	1.00	2.5	1.00	2.4	0.90	2.3	0.90
	-10	-10	3.0	1.10	2.8	1.10	2.6	1.00	2.5	0.90	2.4	0.90	2.3	0.80
	-9	-9	3.0	1.10	2.8	1.00	2.6	0.90	2.5	0.90	2.4	0.90	2.3	0.80
	-7	-8	3.0	1.10	2.8	1.00	2.6	0.90	2.5	0.90	2.4	0.90	2.3	0.80
	-5	-6	3.0	1.00	2.8	0.90	2.6	0.90	2.5	0.80	2.4	0.80	2.3	0.70
	-3	-4	3.0	0.90	2.8	0.90	2.6	0.80	2.5	0.70	2.4	0.70	2.3	0.70
	0	-1	3.0	0.90	2.8	0.80	2.6	0.70	2.5	0.70	2.4	0.70	2.3	0.70
	3	2	3.0	0.80	2.8	0.70	2.6	0.70	2.5	0.70	2.4	0.70	2.3	0.60
	5	4	3.0	0.70	2.8	0.70	2.6	0.70	2.5	0.70	2.4	0.60	2.3	0.60
	7	6	3.2	0.70	3.0	0.70	2.8	0.70	2.7	0.60	2.6	0.60	2.4	0.50
	9	8	3.2	0.70	3.0	0.70	2.8	0.60	2.8	0.60	2.6	0.60	2.5	0.50
	11	10	3.2	0.70	3.0	0.70	2.8	0.60	2.8	0.60	2.6	0.50	2.5	0.50
	13	12	3.2	0.70	3.0	0.60	2.8	0.60	2.8	0.50	2.6	0.50	2.5	0.50
	15	14	3.2	0.70	3.0	0.60	2.8	0.50	2.8	0.50	2.6	0.50	2.5	0.50
50%	-20	-20	2.4	1.30	2.3	1.10	2.2	1.10	2.1	1.10	2.0	1.00	1.9	0.90
	-19	-19	2.4	1.20	2.3	1.10	2.2	1.10	2.1	1.00	2.0	0.90	1.9	0.90
	-17	-17	2.4	1.10	2.3	1.10	2.2	1.00	2.1	0.90	2.0	0.90	1.9	0.90
	-15	-15	2.4	1.10	2.3	1.00	2.2	0.90	2.1	0.90	2.0	0.90	1.9	0.80
	-13	-13	2.4	1.00	2.3	0.90	2.2	0.90	2.1	0.90	2.0	0.80	1.9	0.70
	-11	-11	2.4	0.90	2.3	0.90	2.2	0.90	2.1	0.80	2.0	0.80	1.9	0.70
	-10	-10	2.4	0.90	2.3	0.90	2.2	0.80	2.1	0.70	2.0	0.70	1.9	0.70
	-9	-9	2.4	0.90	2.3	0.80	2.2	0.80	2.1	0.70	2.0	0.70	1.9	0.70
	-7	-8	2.4	0.90	2.3	0.80	2.2	0.70	2.1	0.70	2.0	0.70	1.9	0.70
	-5	-6	2.4	0.80	2.3	0.70	2.2	0.70	2.1	0.70	2.0	0.70	1.9	0.60
	-3	-4	2.4	0.70	2.3	0.70	2.2	0.70	2.1	0.60	2.0	0.60	1.9	0.50
	0	-1	2.4	0.70	2.3	0.70	2.2	0.60	2.1	0.60	2.0	0.60	1.9	0.50
	3	2	2.4	0.70	2.3	0.60	2.2	0.60	2.1	0.50	2.0	0.50	1.9	0.50
	5	4	2.4	0.60	2.3	0.60	2.2	0.50	2.1	0.50	2.0	0.50	1.9	0.50
	7	6	2.6	0.60	2.5	0.60	2.3	0.50	2.2	0.50	2.2	0.50	2.0	0.50
	9	8	2.7	0.60	2.5	0.50	2.4	0.50	2.3	0.50	2.2	0.50	2.0	0.50
	11	10	2.7	0.50	2.5	0.50	2.4	0.50	2.3	0.50	2.2	0.50	2.0	0.50
	13	12	2.7	0.50	2.5	0.50	2.4	0.50	2.3	0.50	2.2	0.50	2.0	0.40
	15	14	2.7	0.50	2.5	0.50	2.4	0.50	2.3	0.50	2.2	0.50	2.0	0.40

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE066MXTPEH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	5.8	2.50	5.7	2.50	5.6	2.60	5.7	2.60	5.7	2.70	5.7	2.80
	-19	-19	6.0	2.50	6.0	2.60	5.8	2.60	5.9	2.70	5.9	2.70	5.9	2.80
	-17	-17	6.3	2.60	6.3	2.60	6.1	2.70	6.2	2.80	6.2	2.80	6.2	2.90
	-15	-15	6.6	2.70	6.6	2.80	6.5	2.90	6.6	2.90	6.6	2.90	6.2	2.70
	-13	-13	7.0	2.80	7.0	2.90	6.7	2.90	6.9	2.90	6.6	2.80	6.2	2.50
	-11	-11	7.3	2.90	7.3	2.90	6.9	2.90	6.9	2.70	6.6	2.60	6.2	2.40
	-10	-10	7.5	2.80	7.5	2.80	6.9	2.60	6.9	2.50	6.6	2.50	6.2	2.20
	-9	-9	7.7	2.80	7.6	2.80	6.9	2.60	6.9	2.50	6.6	2.40	6.2	2.20
	-7	-8	7.9	2.80	7.6	2.70	6.9	2.50	6.9	2.40	6.6	2.30	6.2	2.10
	-5	-6	8.1	2.70	7.6	2.50	6.9	2.40	6.9	2.30	6.6	2.20	6.2	1.90
	-3	-4	8.1	2.50	7.6	2.30	6.9	2.10	6.9	2.00	6.6	1.90	6.2	1.80
	0	-1	8.1	2.30	7.6	2.10	6.9	1.90	6.9	1.90	6.6	1.80	6.2	1.70
	3	2	8.1	2.10	7.6	2.00	6.9	1.90	6.9	1.80	6.6	1.70	6.2	1.60
	5	4	8.1	2.00	7.6	1.90	6.9	1.80	6.9	1.70	6.6	1.60	6.2	1.50
	7	6	7.9	1.90	7.5	1.80	6.9	1.69	6.8	1.60	6.6	1.50	6.1	1.40
	9	8	8.2	1.90	7.8	1.70	7.2	1.60	7.1	1.50	6.8	1.50	6.4	1.40
	11	10	8.2	1.80	7.8	1.70	7.2	1.50	7.1	1.50	6.8	1.40	6.4	1.40
	13	12	8.2	1.70	7.8	1.60	7.2	1.50	7.1	1.40	6.8	1.40	6.4	1.30
	15	14	8.2	1.70	7.8	1.50	7.2	1.40	7.1	1.40	6.8	1.40	6.4	1.30
90%	-20	-20	5.3	2.60	5.3	2.70	5.3	2.70	5.3	2.80	5.3	2.80	5.2	2.80
	-19	-19	5.5	2.60	5.5	2.70	5.5	2.80	5.5	2.80	5.5	2.80	5.2	2.70
	-17	-17	5.7	2.70	5.7	2.80	5.7	2.80	5.7	2.90	5.5	2.70	5.2	2.50
	-15	-15	6.1	2.90	6.0	2.90	6.0	2.90	5.7	2.70	5.5	2.60	5.2	2.40
	-13	-13	6.4	2.90	6.3	2.90	6.0	2.60	5.7	2.50	5.5	2.50	5.2	2.20
	-11	-11	6.7	2.90	6.3	2.70	6.0	2.50	5.7	2.40	5.5	2.30	5.2	2.10
	-10	-10	6.7	2.70	6.3	2.50	6.0	2.30	5.7	2.20	5.5	2.10	5.2	1.90
	-9	-9	6.7	2.60	6.3	2.50	6.0	2.30	5.7	2.20	5.5	2.10	5.2	1.90
	-7	-8	6.7	2.50	6.3	2.40	6.0	2.20	5.7	2.10	5.5	2.00	5.2	1.90
	-5	-6	6.7	2.40	6.3	2.20	6.0	2.00	5.7	1.90	5.5	1.90	5.2	1.80
	-3	-4	6.7	2.20	6.3	2.00	6.0	1.90	5.7	1.80	5.5	1.70	5.2	1.60
	0	-1	6.7	2.00	6.3	1.90	6.0	1.80	5.7	1.70	5.5	1.60	5.2	1.40
	3	2	6.7	1.90	6.3	1.80	6.0	1.60	5.7	1.50	5.5	1.50	5.2	1.40
	5	4	6.7	1.80	6.3	1.70	6.0	1.50	5.7	1.50	5.5	1.40	5.2	1.40
	7	6	7.2	1.70	6.7	1.60	6.4	1.50	6.1	1.40	6.0	1.40	5.5	1.30
	9	8	7.2	1.60	6.8	1.50	6.5	1.40	6.2	1.40	6.0	1.40	5.6	1.20
	11	10	7.2	1.60	6.8	1.40	6.5	1.40	6.2	1.40	6.0	1.30	5.6	1.20
	13	12	7.2	1.50	6.8	1.40	6.5	1.40	6.2	1.30	6.0	1.30	5.6	1.10
	15	14	7.2	1.40	6.8	1.40	6.5	1.30	6.2	1.30	6.0	1.20	5.6	1.10
80%	-20	-20	5.3	2.70	5.3	2.80	5.3	2.90	5.1	2.70	4.9	2.60	4.6	2.40
	-19	-19	5.5	2.80	5.5	2.80	5.3	2.70	5.1	2.60	4.9	2.50	4.6	2.30
	-17	-17	5.7	2.80	5.6	2.80	5.3	2.50	5.1	2.50	4.9	2.40	4.6	2.10
	-15	-15	6.0	2.90	5.6	2.60	5.3	2.50	5.1	2.40	4.9	2.30	4.6	2.00
	-13	-13	6.0	2.60	5.6	2.50	5.3	2.30	5.1	2.20	4.9	2.10	4.6	1.90
	-11	-11	6.0	2.50	5.6	2.30	5.3	2.10	5.1	2.00	4.9	1.90	4.6	1.80
	-10	-10	6.0	2.40	5.6	2.20	5.3	2.00	5.1	1.90	4.9	1.90	4.6	1.70
	-9	-9	6.0	2.30	5.6	2.10	5.3	1.90	5.1	1.90	4.9	1.80	4.6	1.70
	-7	-8	6.0	2.20	5.6	2.00	5.3	1.90	5.1	1.80	4.9	1.80	4.6	1.60
	-5	-6	6.0	2.00	5.6	1.90	5.3	1.80	5.1	1.70	4.9	1.60	4.6	1.50
	-3	-4	6.0	1.90	5.6	1.80	5.3	1.60	5.1	1.50	4.9	1.50	4.6	1.40
	0	-1	6.0	1.80	5.6	1.60	5.3	1.50	5.1	1.40	4.9	1.40	4.6	1.30
	3	2	6.0	1.60	5.6	1.50	5.3	1.40	5.1	1.40	4.9	1.40	4.6	1.20
	5	4	6.0	1.60	5.6	1.40	5.3	1.40	5.1	1.40	4.9	1.30	4.6	1.20
	7	6	6.4	1.50	6.0	1.40	5.6	1.30	5.5	1.30	5.3	1.20	4.9	1.10
	9	8	6.5	1.40	6.0	1.40	5.7	1.30	5.5	1.20	5.4	1.20	4.9	1.10
	11	10	6.5	1.40	6.0	1.30	5.7	1.20	5.5	1.20	5.4	1.10	4.9	1.00
	13	12	6.5	1.40	6.0	1.30	5.7	1.20	5.5	1.10	5.4	1.10	4.9	1.00
	15	14	6.5	1.30	6.0	1.20	5.7	1.10	5.5	1.10	5.4	1.00	4.9	0.90

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE066MXTPEH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	5.2	2.80	4.9	2.60	4.6	2.40	4.4	2.30	4.3	2.20	4.0	2.00
	-19	-19	5.2	2.70	4.9	2.50	4.6	2.30	4.4	2.20	4.3	2.10	4.0	1.90
	-17	-17	5.2	2.50	4.9	2.40	4.6	2.10	4.4	2.00	4.3	1.90	4.0	1.90
	-15	-15	5.2	2.40	4.9	2.20	4.6	2.00	4.4	1.90	4.3	1.90	4.0	1.80
	-13	-13	5.2	2.30	4.9	2.10	4.6	1.90	4.4	1.90	4.3	1.80	4.0	1.60
	-11	-11	5.2	2.10	4.9	1.90	4.6	1.90	4.4	1.80	4.3	1.70	4.0	1.50
	-10	-10	5.2	1.90	4.9	1.90	4.6	1.70	4.4	1.60	4.3	1.60	4.0	1.40
	-9	-9	5.2	1.90	4.9	1.80	4.6	1.70	4.4	1.60	4.3	1.50	4.0	1.40
	-7	-8	5.2	1.90	4.9	1.70	4.6	1.60	4.4	1.50	4.3	1.50	4.0	1.40
	-5	-6	5.2	1.80	4.9	1.60	4.6	1.50	4.4	1.40	4.3	1.40	4.0	1.30
	-3	-4	5.2	1.60	4.9	1.50	4.6	1.40	4.4	1.40	4.3	1.30	4.0	1.20
	0	-1	5.2	1.50	4.9	1.40	4.6	1.30	4.4	1.30	4.3	1.20	4.0	1.10
	3	2	5.2	1.40	4.9	1.30	4.6	1.20	4.4	1.20	4.3	1.10	4.0	1.00
	5	4	5.2	1.40	4.9	1.30	4.6	1.20	4.4	1.10	4.3	1.10	4.0	1.00
	7	6	5.5	1.30	5.3	1.20	4.9	1.10	4.8	1.10	4.6	1.00	4.3	0.90
	9	8	5.6	1.20	5.3	1.20	5.0	1.10	4.9	1.00	4.7	1.00	4.3	0.90
	11	10	5.6	1.20	5.3	1.10	5.0	1.00	4.9	1.00	4.7	0.90	4.3	0.90
	13	12	5.6	1.10	5.3	1.10	5.0	1.00	4.9	0.90	4.7	0.90	4.3	0.80
	15	14	5.6	1.10	5.3	1.00	5.0	1.00	4.9	0.90	4.7	0.90	4.3	0.80
60%	-20	-20	4.4	2.30	4.2	2.10	3.9	2.00	3.8	1.90	3.7	1.90	3.4	1.70
	-19	-19	4.4	2.20	4.2	2.00	3.9	1.90	3.8	1.90	3.7	1.80	3.4	1.60
	-17	-17	4.4	2.00	4.2	1.90	3.9	1.80	3.8	1.70	3.7	1.60	3.4	1.50
	-15	-15	4.4	1.90	4.2	1.90	3.9	1.70	3.8	1.70	3.7	1.60	3.4	1.40
	-13	-13	4.4	1.90	4.2	1.80	3.9	1.60	3.8	1.50	3.7	1.50	3.4	1.40
	-11	-11	4.4	1.80	4.2	1.60	3.9	1.50	3.8	1.40	3.7	1.40	3.4	1.30
	-10	-10	4.4	1.60	4.2	1.50	3.9	1.40	3.8	1.40	3.7	1.40	3.4	1.20
	-9	-9	4.4	1.60	4.2	1.50	3.9	1.40	3.8	1.40	3.7	1.30	3.4	1.20
	-7	-8	4.4	1.50	4.2	1.40	3.9	1.40	3.8	1.30	3.7	1.30	3.4	1.20
	-5	-6	4.4	1.40	4.2	1.40	3.9	1.30	3.8	1.30	3.7	1.20	3.4	1.10
	-3	-4	4.4	1.40	4.2	1.30	3.9	1.20	3.8	1.10	3.7	1.10	3.4	1.00
	0	-1	4.4	1.30	4.2	1.20	3.9	1.10	3.8	1.00	3.7	1.00	3.4	0.90
	3	2	4.4	1.20	4.2	1.10	3.9	1.00	3.8	1.00	3.7	0.90	3.4	0.90
	5	4	4.4	1.10	4.2	1.10	3.9	1.00	3.8	0.90	3.7	0.90	3.4	0.80
	7	6	4.8	1.10	4.5	1.00	4.3	0.90	4.1	0.90	3.9	0.80	3.7	0.80
	9	8	4.9	1.00	4.6	0.90	4.3	0.90	4.2	0.80	4.0	0.80	3.7	0.80
	11	10	4.9	1.00	4.6	0.90	4.3	0.80	4.2	0.80	4.0	0.80	3.7	0.80
	13	12	4.9	0.90	4.6	0.90	4.3	0.80	4.2	0.80	4.0	0.80	3.7	0.80
	15	14	4.9	0.90	4.6	0.80	4.3	0.80	4.2	0.80	4.0	0.80	3.7	0.80
50%	-20	-20	3.7	1.90	3.5	1.70	3.3	1.60	3.2	1.50	3.1	1.50	2.9	1.40
	-19	-19	3.7	1.80	3.5	1.70	3.3	1.50	3.2	1.50	3.1	1.40	2.9	1.40
	-17	-17	3.7	1.70	3.5	1.50	3.3	1.40	3.2	1.40	3.1	1.40	2.9	1.30
	-15	-15	3.7	1.60	3.5	1.50	3.3	1.40	3.2	1.40	3.1	1.30	2.9	1.20
	-13	-13	3.7	1.50	3.5	1.40	3.3	1.40	3.2	1.30	3.1	1.20	2.9	1.10
	-11	-11	3.7	1.40	3.5	1.40	3.3	1.30	3.2	1.20	3.1	1.20	2.9	1.10
	-10	-10	3.7	1.40	3.5	1.30	3.3	1.20	3.2	1.10	3.1	1.10	2.9	1.00
	-9	-9	3.7	1.30	3.5	1.20	3.3	1.10	3.2	1.10	3.1	1.10	2.9	1.00
	-7	-8	3.7	1.30	3.5	1.20	3.3	1.10	3.2	1.10	3.1	1.00	2.9	0.90
	-5	-6	3.7	1.20	3.5	1.10	3.3	1.00	3.2	1.00	3.1	1.00	2.9	0.90
	-3	-4	3.7	1.10	3.5	1.00	3.3	0.90	3.2	0.90	3.1	0.90	2.9	0.80
	0	-1	3.7	1.00	3.5	0.90	3.3	0.90	3.2	0.80	3.1	0.80	2.9	0.80
	3	2	3.7	0.90	3.5	0.90	3.3	0.80	3.2	0.80	3.1	0.80	2.9	0.80
	5	4	3.7	0.90	3.5	0.80	3.3	0.80	3.2	0.80	3.1	0.80	2.9	0.80
	7	6	4.0	0.90	3.7	0.80	3.5	0.80	3.4	0.80	3.3	0.80	3.1	0.70
	9	8	4.0	0.80	3.8	0.80	3.6	0.80	3.5	0.80	3.3	0.70	3.2	0.70
	11	10	4.0	0.80	3.8	0.80	3.6	0.80	3.5	0.70	3.3	0.70	3.2	0.70
	13	12	4.0	0.80	3.8	0.80	3.6	0.70	3.5	0.70	3.3	0.70	3.2	0.60
	15	14	4.0	0.80	3.8	0.80	3.6	0.70	3.5	0.70	3.3	0.70	3.2	0.60

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPEH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	7.9	3.50	7.9	3.70	7.7	3.80	7.9	3.80	7.9	3.80	7.9	3.90
	-19	-19	8.2	3.50	8.2	3.70	7.9	3.80	8.1	3.80	8.1	3.90	8.1	4.00
	-17	-17	8.6	3.70	8.6	3.80	8.4	3.90	8.6	3.90	8.6	4.00	8.6	4.00
	-15	-15	9.1	3.90	9.1	4.00	8.8	4.10	9.0	4.10	9.0	4.10	8.6	3.90
	-13	-13	9.5	4.00	9.5	4.00	9.3	4.10	9.5	4.10	9.2	4.00	8.6	3.50
	-11	-11	10.0	4.00	10.0	4.10	9.5	4.00	9.5	3.90	9.2	3.70	8.6	3.30
	-10	-10	10.2	3.90	10.2	4.00	9.5	3.80	9.5	3.50	9.2	3.40	8.6	3.10
	-9	-9	10.5	4.00	10.4	4.00	9.5	3.70	9.5	3.50	9.2	3.30	8.6	3.00
	-7	-8	10.9	4.00	10.4	3.80	9.5	3.40	9.5	3.30	9.2	3.20	8.6	2.90
	-5	-6	11.0	3.90	10.4	3.50	9.5	3.30	9.5	3.10	9.2	3.00	8.6	2.80
	-3	-4	11.0	3.40	10.4	3.20	9.5	3.00	9.5	2.90	9.2	2.70	8.6	2.50
	0	-1	11.0	3.20	10.4	3.00	9.5	2.80	9.5	2.70	9.2	2.60	8.6	2.40
	3	2	11.0	3.00	10.4	2.80	9.5	2.60	9.5	2.50	9.2	2.40	8.6	2.20
	5	4	11.0	2.90	10.4	2.70	9.5	2.50	9.5	2.40	9.2	2.30	8.6	2.10
	7	6	10.9	2.70	10.3	2.60	9.5	2.40	7.9	3.50	7.9	3.50	7.9	3.50
	9	8	11.2	2.60	10.6	2.40	10.0	2.30	9.7	2.20	9.3	2.10	8.7	2.00
	11	10	11.2	2.50	10.6	2.40	10.0	2.20	9.7	2.10	9.3	2.00	8.7	1.90
	13	12	11.2	2.40	10.6	2.30	10.0	2.10	9.7	2.00	9.3	2.00	8.7	1.80
	15	14	11.2	2.30	10.6	2.20	10.0	2.10	9.7	2.00	9.3	1.90	8.7	1.80
90%	-20	-20	7.3	3.70	7.3	3.80	7.3	3.90	7.3	3.90	7.3	4.00	7.0	4.00
	-19	-19	7.5	3.80	7.5	3.90	7.5	3.90	7.5	4.00	7.5	4.00	7.0	3.80
	-17	-17	7.9	3.90	7.9	3.90	7.9	4.00	7.9	4.00	7.6	3.90	7.0	3.50
	-15	-15	8.4	4.00	8.3	4.10	8.2	4.00	7.9	3.90	7.6	3.70	7.0	3.30
	-13	-13	8.8	4.10	8.7	4.10	8.2	3.80	7.9	3.50	7.6	3.40	7.0	3.10
	-11	-11	9.2	4.10	8.7	3.80	8.2	3.50	7.9	3.30	7.6	3.20	7.0	2.90
	-10	-10	9.2	3.90	8.7	3.50	8.2	3.20	7.9	3.10	7.6	3.00	7.0	2.70
	-9	-9	9.2	3.80	8.7	3.40	8.2	3.20	7.9	3.00	7.6	2.90	7.0	2.70
	-7	-8	9.2	3.50	8.7	3.30	8.2	3.00	7.9	2.90	7.6	2.80	7.0	2.60
	-5	-6	9.2	3.30	8.7	3.10	8.2	2.90	7.9	2.80	7.6	2.70	7.0	2.50
	-3	-4	9.2	3.00	8.7	2.80	8.2	2.60	7.9	2.50	7.6	2.40	7.0	2.20
	0	-1	9.2	2.80	8.7	2.60	8.2	2.40	7.9	2.40	7.6	2.30	7.0	2.10
	3	2	9.2	2.60	8.7	2.50	8.2	2.30	7.9	2.20	7.6	2.10	7.0	2.00
	5	4	9.2	2.50	8.7	2.40	8.2	2.20	7.9	2.10	7.6	2.10	7.0	1.90
	7	6	9.8	2.40	9.3	2.30	8.8	2.10	8.4	2.00	8.1	2.00	7.6	1.80
	9	8	9.9	2.30	9.4	2.20	8.9	2.00	8.6	1.90	8.2	1.90	7.7	1.70
	11	10	9.9	2.20	9.4	2.10	8.9	2.00	8.6	1.90	8.2	1.80	7.7	1.70
	13	12	9.9	2.20	9.4	2.00	8.9	1.90	8.6	1.80	8.2	1.80	7.7	1.60
	15	14	9.9	2.10	9.4	2.00	8.9	1.80	8.6	1.80	8.2	1.70	7.7	1.60
80%	-20	-20	7.3	3.90	7.3	4.00	7.3	4.00	6.9	3.90	6.7	3.70	6.3	3.30
	-19	-19	7.5	3.90	7.5	4.00	7.3	3.90	6.9	3.80	6.7	3.50	6.3	3.20
	-17	-17	7.9	4.00	7.7	3.90	7.3	3.50	6.9	3.40	6.7	3.30	6.3	3.00
	-15	-15	8.2	4.00	7.7	3.80	7.3	3.40	6.9	3.30	6.7	3.10	6.3	2.90
	-13	-13	8.2	3.80	7.7	3.40	7.3	3.20	6.9	3.10	6.7	2.90	6.3	2.70
	-11	-11	8.2	3.50	7.7	3.20	7.3	3.00	6.9	2.90	6.7	2.80	6.3	2.60
	-10	-10	8.2	3.30	7.7	3.00	7.3	2.80	6.9	2.70	6.7	2.60	6.3	2.40
	-9	-9	8.2	3.20	7.7	3.00	7.3	2.70	6.9	2.60	6.7	2.50	6.3	2.30
	-7	-8	8.2	3.00	7.7	2.80	7.3	2.60	6.9	2.50	6.7	2.40	6.3	2.30
	-5	-6	8.2	2.90	7.7	2.70	7.3	2.50	6.9	2.40	6.7	2.30	6.3	2.10
	-3	-4	8.2	2.60	7.7	2.50	7.3	2.30	6.9	2.20	6.7	2.10	6.3	2.00
	0	-1	8.2	2.50	7.7	2.30	7.3	2.10	6.9	2.10	6.7	2.00	6.3	1.80
	3	2	8.2	2.30	7.7	2.20	7.3	2.00	6.9	1.90	6.7	1.90	6.3	1.70
	5	4	8.2	2.20	7.7	2.10	7.3	1.90	6.9	1.90	6.7	1.80	6.3	1.70
	7	6	8.8	2.10	8.2	2.00	7.8	1.90	7.5	1.80	7.3	1.70	6.7	1.60
	9	8	8.9	2.00	8.3	1.90	7.9	1.80	7.6	1.70	7.4	1.70	6.8	1.50
	11	10	8.9	2.00	8.3	1.80	7.9	1.70	7.6	1.70	7.4	1.60	6.8	1.50
	13	12	8.9	1.90	8.3	1.80	7.9	1.70	7.6	1.60	7.4	1.60	6.8	1.50
	15	14	8.9	1.80	8.3	1.70	7.9	1.60	7.6	1.60	7.4	1.50	6.8	1.40

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPEH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	7.2	4.00	6.7	3.70	6.3	3.40	6.1	3.20	5.9	3.10	5.5	2.80
	-19	-19	7.2	3.80	6.7	3.50	6.3	3.20	6.1	3.10	5.9	3.00	5.5	2.70
	-17	-17	7.2	3.50	6.7	3.20	6.3	3.00	6.1	2.90	5.9	2.80	5.5	2.60
	-15	-15	7.2	3.30	6.7	3.10	6.3	2.90	6.1	2.80	5.9	2.70	5.5	2.50
	-13	-13	7.2	3.10	6.7	2.90	6.3	2.70	6.1	2.60	5.9	2.50	5.5	2.30
	-11	-11	7.2	3.00	6.7	2.80	6.3	2.60	6.1	2.50	5.9	2.40	5.5	2.20
	-10	-10	7.2	2.80	6.7	2.60	6.3	2.40	6.1	2.30	5.9	2.20	5.5	2.10
	-9	-9	7.2	2.70	6.7	2.50	6.3	2.40	6.1	2.30	5.9	2.20	5.5	2.00
	-7	-8	7.2	2.60	6.7	2.40	6.3	2.30	6.1	2.20	5.9	2.10	5.5	2.00
	-5	-6	7.2	2.50	6.7	2.30	6.3	2.20	6.1	2.10	5.9	2.00	5.5	1.90
	-3	-4	7.2	2.30	6.7	2.10	6.3	2.00	6.1	1.90	5.9	1.80	5.5	1.70
	0	-1	7.2	2.10	6.7	2.00	6.3	1.80	6.1	1.80	5.9	1.70	5.5	1.60
	3	2	7.2	2.00	6.7	1.90	6.3	1.70	6.1	1.70	5.9	1.60	5.5	1.50
	5	4	7.2	1.90	6.7	1.80	6.3	1.70	6.1	1.60	5.9	1.60	5.5	1.50
	7	6	7.7	1.80	7.2	1.70	6.7	1.60	6.5	1.60	6.3	1.50	5.9	1.40
	9	8	7.8	1.80	7.3	1.60	6.8	1.50	6.6	1.50	6.4	1.50	5.9	1.40
	11	10	7.8	1.70	7.3	1.60	6.8	1.50	6.6	1.50	6.4	1.40	5.9	1.30
	13	12	7.8	1.60	7.3	1.50	6.8	1.50	6.6	1.40	6.4	1.40	5.9	1.30
	15	14	7.8	1.60	7.3	1.50	6.8	1.40	6.6	1.40	6.4	1.30	5.9	1.10
60%	-20	-20	6.1	3.20	5.7	3.00	5.4	2.80	5.2	2.70	5.1	2.60	4.7	2.40
	-19	-19	6.1	3.10	5.7	2.90	5.4	2.70	5.2	2.60	5.1	2.50	4.7	2.30
	-17	-17	6.1	2.90	5.7	2.70	5.4	2.50	5.2	2.40	5.1	2.30	4.7	2.20
	-15	-15	6.1	2.80	5.7	2.60	5.4	2.40	5.2	2.30	5.1	2.20	4.7	2.10
	-13	-13	6.1	2.60	5.7	2.40	5.4	2.30	5.2	2.20	5.1	2.10	4.7	2.00
	-11	-11	6.1	2.50	5.7	2.30	5.4	2.20	5.2	2.10	5.1	2.00	4.7	1.90
	-10	-10	6.1	2.30	5.7	2.20	5.4	2.00	5.2	2.00	5.1	1.90	4.7	1.80
	-9	-9	6.1	2.30	5.7	2.10	5.4	2.00	5.2	1.90	5.1	1.90	4.7	1.70
	-7	-8	6.1	2.20	5.7	2.00	5.4	1.90	5.2	1.90	5.1	1.80	4.7	1.70
	-5	-6	6.1	2.10	5.7	2.00	5.4	1.80	5.2	1.80	5.1	1.70	4.7	1.60
	-3	-4	6.1	1.90	5.7	1.80	5.4	1.70	5.2	1.60	5.1	1.60	4.7	1.50
	0	-1	6.1	1.80	5.7	1.70	5.4	1.60	5.2	1.50	5.1	1.50	4.7	1.40
	3	2	6.1	1.70	5.7	1.60	5.4	1.50	5.2	1.40	5.1	1.40	4.7	1.30
	5	4	6.1	1.60	5.7	1.50	5.4	1.40	5.2	1.40	5.1	1.40	4.7	1.30
	7	6	6.5	1.60	6.1	1.50	5.8	1.40	5.6	1.30	5.4	1.30	5.0	1.10
	9	8	6.6	1.50	6.2	1.40	5.8	1.30	5.7	1.30	5.5	1.10	5.1	1.10
	11	10	6.6	1.50	6.2	1.40	5.8	1.30	5.7	1.30	5.5	1.10	5.1	1.00
	13	12	6.6	1.40	6.2	1.30	5.8	1.30	5.7	1.10	5.5	1.10	5.1	1.00
	15	14	6.6	1.40	6.2	1.30	5.8	1.10	5.7	1.10	5.5	1.00	5.1	1.00
50%	-20	-20	5.1	2.60	4.8	2.40	4.5	2.30	4.4	2.20	4.2	2.10	4.0	1.90
	-19	-19	5.1	2.50	4.8	2.30	4.5	2.20	4.4	2.10	4.2	2.00	4.0	1.90
	-17	-17	5.1	2.30	4.8	2.20	4.5	2.00	4.4	2.00	4.2	1.90	4.0	1.80
	-15	-15	5.1	2.30	4.8	2.10	4.5	2.00	4.4	1.90	4.2	1.80	4.0	1.70
	-13	-13	5.1	2.10	4.8	2.00	4.5	1.90	4.4	1.80	4.2	1.70	4.0	1.60
	-11	-11	5.1	2.00	4.8	1.90	4.5	1.80	4.4	1.70	4.2	1.70	4.0	1.60
	-10	-10	5.1	1.90	4.8	1.80	4.5	1.70	4.4	1.60	4.2	1.60	4.0	1.50
	-9	-9	5.1	1.90	4.8	1.80	4.5	1.60	4.4	1.60	4.2	1.50	4.0	1.40
	-7	-8	5.1	1.80	4.8	1.70	4.5	1.60	4.4	1.50	4.2	1.50	4.0	1.40
	-5	-6	5.1	1.70	4.8	1.60	4.5	1.50	4.4	1.50	4.2	1.40	4.0	1.30
	-3	-4	5.1	1.60	4.8	1.50	4.5	1.40	4.4	1.40	4.2	1.30	4.0	1.10
	0	-1	5.1	1.50	4.8	1.40	4.5	1.30	4.4	1.30	4.2	1.10	4.0	1.10
	3	2	5.1	1.40	4.8	1.30	4.5	1.30	4.4	1.10	4.2	1.10	4.0	1.00
	5	4	5.1	1.40	4.8	1.30	4.5	1.10	4.4	1.10	4.2	1.00	4.0	1.00
	7	6	5.4	1.30	5.1	1.10	4.8	1.10	4.7	1.00	4.5	1.00	4.2	0.90
	9	8	5.5	1.30	5.2	1.10	4.9	1.00	4.7	1.00	4.6	1.00	4.3	0.90
	11	10	5.5	1.10	5.2	1.10	4.9	1.00	4.7	1.00	4.6	0.90	4.3	0.90
	13	12	5.5	1.10	5.2	1.00	4.9	1.00	4.7	0.90	4.6	0.90	4.3	0.80
	15	14	5.5	1.10	5.2	1.00	4.9	0.90	4.7	0.90	4.6	0.90	4.3	0.80

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPGH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	7.9	3.70	7.9	3.80	7.7	3.90	7.9	3.90	7.9	3.90	7.9	4.10
	-19	-19	8.2	3.70	8.2	3.80	7.9	3.90	8.1	3.90	8.1	4.10	8.1	4.20
	-17	-17	8.6	3.80	8.6	3.90	8.4	4.10	8.6	4.10	8.6	4.20	8.6	4.20
	-15	-15	9.1	4.10	9.1	4.20	8.8	4.30	9.0	4.30	9.0	4.30	8.6	4.10
	-13	-13	9.5	4.20	9.5	4.20	9.3	4.30	9.5	4.30	9.2	4.20	8.6	3.70
	-11	-11	10.0	4.20	10.0	4.30	9.5	4.20	9.5	4.10	9.2	3.80	8.6	3.50
	-10	-10	10.2	4.10	10.2	4.20	9.5	3.90	9.5	3.70	9.2	3.60	8.6	3.30
	-9	-9	10.5	4.20	10.4	4.20	9.5	3.80	9.5	3.70	9.2	3.50	8.6	3.20
	-7	-8	10.9	4.20	10.4	3.90	9.5	3.60	9.5	3.50	9.2	3.40	8.6	3.10
	-5	-6	11.0	4.10	10.4	3.70	9.5	3.50	9.5	3.30	9.2	3.20	8.6	3.00
	-3	-4	11.0	3.60	10.4	3.40	9.5	3.20	9.5	3.10	9.2	2.80	8.6	2.60
	0	-1	11.0	3.40	10.4	3.20	9.5	3.00	9.5	2.80	9.2	2.70	8.6	2.50
	3	2	11.0	3.20	10.4	3.00	9.5	2.70	9.5	2.60	9.2	2.50	8.6	2.30
	5	4	11.0	3.10	10.4	2.80	9.5	2.60	9.5	2.50	9.2	2.40	8.6	2.20
	7	6	10.9	2.80	10.3	2.70	9.5	2.52	9.4	2.40	9.1	2.30	8.4	2.10
	9	8	11.2	2.70	10.6	2.50	10.0	2.40	9.7	2.30	9.3	2.20	8.7	2.10
	11	10	11.2	2.60	10.6	2.50	10.0	2.30	9.7	2.20	9.3	2.10	8.7	2.00
	13	12	11.2	2.50	10.6	2.40	10.0	2.20	9.7	2.10	9.3	2.10	8.7	1.90
	15	14	11.2	2.40	10.6	2.30	10.0	2.20	9.7	2.10	9.3	2.00	8.7	1.90
90%	-20	-20	7.3	3.80	7.3	3.90	7.3	4.10	7.3	4.10	7.3	4.20	7.0	4.20
	-19	-19	7.5	3.90	7.5	4.10	7.5	4.10	7.5	4.20	7.5	4.20	7.0	3.90
	-17	-17	7.9	4.10	7.9	4.10	7.9	4.20	7.9	4.20	7.6	4.10	7.0	3.70
	-15	-15	8.4	4.20	8.3	4.30	8.2	4.20	7.9	4.10	7.6	3.80	7.0	3.50
	-13	-13	8.8	4.30	8.7	4.30	8.2	3.90	7.9	3.70	7.6	3.60	7.0	3.30
	-11	-11	9.2	4.30	8.7	3.90	8.2	3.70	7.9	3.50	7.6	3.40	7.0	3.10
	-10	-10	9.2	4.10	8.7	3.70	8.2	3.40	7.9	3.30	7.6	3.20	7.0	2.80
	-9	-9	9.2	3.90	8.7	3.60	8.2	3.40	7.9	3.20	7.6	3.10	7.0	2.80
	-7	-8	9.2	3.70	8.7	3.50	8.2	3.20	7.9	3.10	7.6	3.00	7.0	2.70
	-5	-6	9.2	3.50	8.7	3.30	8.2	3.10	7.9	3.00	7.6	2.80	7.0	2.60
	-3	-4	9.2	3.20	8.7	3.00	8.2	2.70	7.9	2.60	7.6	2.50	7.0	2.30
	0	-1	9.2	3.00	8.7	2.70	8.2	2.50	7.9	2.50	7.6	2.40	7.0	2.20
	3	2	9.2	2.70	8.7	2.60	8.2	2.40	7.9	2.30	7.6	2.20	7.0	2.10
	5	4	9.2	2.60	8.7	2.50	8.2	2.30	7.9	2.20	7.6	2.20	7.0	2.00
	7	6	9.8	2.50	9.3	2.40	8.8	2.20	8.4	2.10	8.1	2.10	7.6	1.90
	9	8	9.9	2.40	9.4	2.30	8.9	2.10	8.6	2.00	8.2	2.00	7.7	1.80
	11	10	9.9	2.30	9.4	2.20	8.9	2.10	8.6	2.00	8.2	1.90	7.7	1.80
	13	12	9.9	2.30	9.4	2.10	8.9	2.00	8.6	1.90	8.2	1.90	7.7	1.60
	15	14	9.9	2.20	9.4	2.10	8.9	1.90	8.6	1.90	8.2	1.80	7.7	1.60
80%	-20	-20	7.3	4.10	7.3	4.20	7.3	4.20	6.9	4.10	6.7	3.80	6.3	3.50
	-19	-19	7.5	4.10	7.5	4.20	7.3	4.10	6.9	3.90	6.7	3.70	6.3	3.40
	-17	-17	7.9	4.20	7.7	4.10	7.3	3.70	6.9	3.60	6.7	3.50	6.3	3.20
	-15	-15	8.2	4.20	7.7	3.90	7.3	3.60	6.9	3.50	6.7	3.30	6.3	3.10
	-13	-13	8.2	3.90	7.7	3.60	7.3	3.40	6.9	3.30	6.7	3.10	6.3	2.80
	-11	-11	8.2	3.70	7.7	3.40	7.3	3.20	6.9	3.10	6.7	3.00	6.3	2.70
	-10	-10	8.2	3.50	7.7	3.20	7.3	3.00	6.9	2.80	6.7	2.70	6.3	2.50
	-9	-9	8.2	3.40	7.7	3.20	7.3	2.80	6.9	2.70	6.7	2.60	6.3	2.40
	-7	-8	8.2	3.20	7.7	3.00	7.3	2.70	6.9	2.60	6.7	2.50	6.3	2.40
	-5	-6	8.2	3.10	7.7	2.80	7.3	2.60	6.9	2.50	6.7	2.40	6.3	2.20
	-3	-4	8.2	2.70	7.7	2.60	7.3	2.40	6.9	2.30	6.7	2.20	6.3	2.10
	0	-1	8.2	2.60	7.7	2.40	7.3	2.20	6.9	2.20	6.7	2.10	6.3	1.90
	3	2	8.2	2.40	7.7	2.30	7.3	2.10	6.9	2.00	6.7	2.00	6.3	1.80
	5	4	8.2	2.30	7.7	2.20	7.3	2.00	6.9	2.00	6.7	1.90	6.3	1.80
	7	6	8.8	2.20	8.2	2.10	7.8	2.00	7.5	1.90	7.3	1.80	6.7	1.60
	9	8	8.9	2.10	8.3	2.00	7.9	1.90	7.6	1.80	7.4	1.80	6.8	1.50
	11	10	8.9	2.10	8.3	1.90	7.9	1.80	7.6	1.80	7.4	1.60	6.8	1.50
	13	12	8.9	2.00	8.3	1.90	7.9	1.80	7.6	1.60	7.4	1.60	6.8	1.50
	15	14	8.9	1.90	8.3	1.80	7.9	1.60	7.6	1.60	7.4	1.50	6.8	1.40

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPGH/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	7.2	4.20	6.7	3.80	6.3	3.60	6.1	3.40	5.9	3.30	5.5	3.00
	-19	-19	7.2	3.90	6.7	3.70	6.3	3.40	6.1	3.30	5.9	3.20	5.5	2.80
	-17	-17	7.2	3.70	6.7	3.40	6.3	3.20	6.1	3.10	5.9	3.00	5.5	2.70
	-15	-15	7.2	3.50	6.7	3.30	6.3	3.10	6.1	3.00	5.9	2.80	5.5	2.60
	-13	-13	7.2	3.30	6.7	3.10	6.3	2.80	6.1	2.70	5.9	2.60	5.5	2.40
	-11	-11	7.2	3.20	6.7	3.00	6.3	2.70	6.1	2.60	5.9	2.50	5.5	2.30
	-10	-10	7.2	3.00	6.7	2.70	6.3	2.50	6.1	2.40	5.9	2.30	5.5	2.20
	-9	-9	7.2	2.80	6.7	2.60	6.3	2.50	6.1	2.40	5.9	2.30	5.5	2.10
	-7	-8	7.2	2.70	6.7	2.50	6.3	2.40	6.1	2.30	5.9	2.20	5.5	2.10
	-5	-6	7.2	2.60	6.7	2.40	6.3	2.30	6.1	2.20	5.9	2.10	5.5	2.00
	-3	-4	7.2	2.40	6.7	2.20	6.3	2.10	6.1	2.00	5.9	1.90	5.5	1.80
	0	-1	7.2	2.20	6.7	2.10	6.3	1.90	6.1	1.90	5.9	1.80	5.5	1.60
	3	2	7.2	2.10	6.7	2.00	6.3	1.80	6.1	1.80	5.9	1.60	5.5	1.50
	5	4	7.2	2.00	6.7	1.90	6.3	1.80	6.1	1.60	5.9	1.60	5.5	1.50
	7	6	7.7	1.90	7.2	1.80	6.7	1.60	6.5	1.60	6.3	1.50	5.9	1.40
	9	8	7.8	1.90	7.3	1.60	6.8	1.50	6.6	1.50	6.4	1.50	5.9	1.40
	11	10	7.8	1.80	7.3	1.60	6.8	1.50	6.6	1.50	6.4	1.40	5.9	1.30
	13	12	7.8	1.60	7.3	1.50	6.8	1.50	6.6	1.40	6.4	1.40	5.9	1.30
	15	14	7.8	1.60	7.3	1.50	6.8	1.40	6.6	1.40	6.4	1.30	5.9	1.20
60%	-20	-20	6.1	3.40	5.7	3.20	5.4	3.00	5.2	2.80	5.1	2.70	4.7	2.50
	-19	-19	6.1	3.30	5.7	3.10	5.4	2.80	5.2	2.70	5.1	2.60	4.7	2.40
	-17	-17	6.1	3.10	5.7	2.80	5.4	2.60	5.2	2.50	5.1	2.40	4.7	2.30
	-15	-15	6.1	3.00	5.7	2.70	5.4	2.50	5.2	2.40	5.1	2.30	4.7	2.20
	-13	-13	6.1	2.70	5.7	2.50	5.4	2.40	5.2	2.30	5.1	2.20	4.7	2.10
	-11	-11	6.1	2.60	5.7	2.40	5.4	2.30	5.2	2.20	5.1	2.10	4.7	2.00
	-10	-10	6.1	2.40	5.7	2.30	5.4	2.10	5.2	2.10	5.1	2.00	4.7	1.90
	-9	-9	6.1	2.40	5.7	2.20	5.4	2.10	5.2	2.00	5.1	2.00	4.7	1.80
	-7	-8	6.1	2.30	5.7	2.10	5.4	2.00	5.2	2.00	5.1	1.90	4.7	1.80
	-5	-6	6.1	2.20	5.7	2.10	5.4	1.90	5.2	1.90	5.1	1.80	4.7	1.60
	-3	-4	6.1	2.00	5.7	1.90	5.4	1.80	5.2	1.60	5.1	1.60	4.7	1.50
	0	-1	6.1	1.90	5.7	1.80	5.4	1.60	5.2	1.50	5.1	1.50	4.7	1.40
	3	2	6.1	1.80	5.7	1.60	5.4	1.50	5.2	1.40	5.1	1.40	4.7	1.30
	5	4	6.1	1.60	5.7	1.50	5.4	1.40	5.2	1.40	5.1	1.40	4.7	1.30
	7	6	6.5	1.60	6.1	1.50	5.8	1.40	5.6	1.30	5.4	1.30	5.0	1.20
	9	8	6.6	1.50	6.2	1.40	5.8	1.30	5.7	1.30	5.5	1.20	5.1	1.20
	11	10	6.6	1.50	6.2	1.40	5.8	1.30	5.7	1.30	5.5	1.20	5.1	1.10
	13	12	6.6	1.40	6.2	1.30	5.8	1.30	5.7	1.20	5.5	1.20	5.1	1.10
	15	14	6.6	1.40	6.2	1.30	5.8	1.20	5.7	1.20	5.5	1.10	5.1	1.10
50%	-20	-20	5.1	2.70	4.8	2.50	4.5	2.40	4.4	2.30	4.2	2.20	4.0	2.00
	-19	-19	5.1	2.60	4.8	2.40	4.5	2.30	4.4	2.20	4.2	2.10	4.0	2.00
	-17	-17	5.1	2.40	4.8	2.30	4.5	2.10	4.4	2.10	4.2	2.00	4.0	1.90
	-15	-15	5.1	2.40	4.8	2.20	4.5	2.10	4.4	2.00	4.2	1.90	4.0	1.80
	-13	-13	5.1	2.20	4.8	2.10	4.5	2.00	4.4	1.90	4.2	1.80	4.0	1.60
	-11	-11	5.1	2.10	4.8	2.00	4.5	1.90	4.4	1.80	4.2	1.80	4.0	1.60
	-10	-10	5.1	2.00	4.8	1.90	4.5	1.80	4.4	1.60	4.2	1.60	4.0	1.50
	-9	-9	5.1	2.00	4.8	1.90	4.5	1.60	4.4	1.60	4.2	1.50	4.0	1.40
	-7	-8	5.1	1.90	4.8	1.80	4.5	1.60	4.4	1.50	4.2	1.50	4.0	1.40
	-5	-6	5.1	1.80	4.8	1.60	4.5	1.50	4.4	1.50	4.2	1.40	4.0	1.30
	-3	-4	5.1	1.60	4.8	1.50	4.5	1.40	4.4	1.40	4.2	1.30	4.0	1.20
	0	-1	5.1	1.50	4.8	1.40	4.5	1.30	4.4	1.30	4.2	1.20	4.0	1.20
	3	2	5.1	1.40	4.8	1.30	4.5	1.30	4.4	1.20	4.2	1.20	4.0	1.10
	5	4	5.1	1.40	4.8	1.30	4.5	1.20	4.4	1.20	4.2	1.10	4.0	1.10
	7	6	5.4	1.30	5.1	1.20	4.8	1.20	4.7	1.10	4.5	1.10	4.2	1.00
	9	8	5.5	1.30	5.2	1.20	4.9	1.10	4.7	1.10	4.6	1.10	4.3	1.00
	11	10	5.5	1.20	5.2	1.20	4.9	1.10	4.7	1.10	4.6	1.00	4.3	1.00
	13	12	5.5	1.20	5.2	1.10	4.9	1.10	4.7	1.00	4.6	1.00	4.3	0.90
	15	14	5.5	1.20	5.2	1.10	4.9	1.00	4.7	1.00	4.6	1.00	4.3	0.90

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE120MXTP⁎H/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	10.6	4.80	10.5	5.00	10.5	5.10	10.5	5.20	10.5	5.20	10.5	5.30
	-19	-19	10.9	4.90	10.9	5.00	10.8	5.20	10.8	5.20	10.8	5.30	10.8	5.40
	-17	-17	11.5	5.00	11.5	5.20	11.4	5.30	11.4	5.30	11.4	5.40	11.4	5.50
	-15	-15	12.1	5.30	12.1	5.40	12.1	5.50	12.0	5.60	12.0	5.60	11.4	5.30
	-13	-13	12.8	5.40	12.8	5.50	12.5	5.60	12.7	5.60	12.3	5.40	11.4	4.90
	-11	-11	13.4	5.50	13.4	5.60	12.7	5.50	12.7	5.30	12.3	5.10	11.4	4.60
	-10	-10	13.7	5.30	13.7	5.40	12.7	5.10	12.7	4.90	12.3	4.70	11.4	4.40
	-9	-9	14.0	5.40	13.9	5.40	12.7	5.00	12.7	4.80	12.3	4.60	11.4	4.30
	-7	-8	14.5	5.40	13.9	5.20	12.7	4.80	12.7	4.60	12.3	4.40	11.4	4.00
	-5	-6	14.7	5.30	13.9	4.90	12.7	4.60	12.7	4.40	12.3	4.20	11.4	3.80
	-3	-4	14.7	4.80	13.9	4.50	12.7	4.20	12.7	3.90	12.3	3.80	11.4	3.50
	0	-1	14.7	4.50	13.9	4.20	12.7	3.80	12.7	3.70	12.3	3.50	11.4	3.20
	3	2	14.7	4.20	13.9	3.80	12.7	3.60	12.7	3.40	12.3	3.30	11.4	3.10
	5	4	14.7	3.90	13.9	3.70	12.7	3.40	12.7	3.30	12.3	3.20	11.4	2.90
	7	6	14.7	3.80	13.9	3.50	12.7	3.30	12.7	3.20	12.3	3.00	11.4	2.80
	9	8	14.7	3.60	13.9	3.40	13.0	3.10	12.7	3.00	12.3	2.90	11.4	2.70
	11	10	14.7	3.50	13.9	3.20	13.0	3.00	12.7	2.90	12.3	2.80	11.4	2.60
	13	12	14.7	3.30	13.9	3.10	13.0	2.90	12.7	2.80	12.3	2.70	11.4	2.40
	15	14	14.7	3.20	13.9	3.00	13.0	2.80	12.7	2.70	12.3	2.60	11.4	2.30
90%	-20	-20	10.5	5.60	10.5	5.70	10.5	5.90	10.5	6.00	10.5	6.00	10.3	6.00
	-19	-19	10.8	5.60	10.8	5.70	10.8	6.00	10.8	6.00	10.8	6.10	10.3	5.70
	-17	-17	11.4	5.70	11.4	6.00	11.4	6.10	11.4	6.10	11.0	5.90	10.3	5.30
	-15	-15	12.1	6.10	12.0	6.20	11.8	6.10	11.4	5.90	11.0	5.50	10.3	5.10
	-13	-13	12.8	6.20	12.6	6.20	11.8	5.60	11.4	5.40	11.0	5.20	10.3	4.80
	-11	-11	13.3	6.30	12.6	5.70	11.8	5.30	11.4	5.10	11.0	4.90	10.3	4.50
	-10	-10	13.3	5.90	12.6	5.40	11.8	5.00	11.4	4.80	11.0	4.60	10.3	4.20
	-9	-9	13.3	5.60	12.6	5.20	11.8	4.90	11.4	4.70	11.0	4.50	10.3	4.20
	-7	-8	13.3	5.40	12.6	5.00	11.8	4.70	11.4	4.50	11.0	4.30	10.3	3.90
	-5	-6	13.3	5.10	12.6	4.80	11.8	4.40	11.4	4.30	11.0	4.00	10.3	3.70
	-3	-4	13.3	4.70	12.6	4.30	11.8	4.00	11.4	3.80	11.0	3.70	10.3	3.40
	0	-1	13.3	4.30	12.6	4.00	11.8	3.70	11.4	3.60	11.0	3.40	10.3	3.20
	3	2	13.3	4.00	12.6	3.70	11.8	3.50	11.4	3.30	11.0	3.20	10.3	3.00
	5	4	13.3	3.80	12.6	3.60	11.8	3.30	11.4	3.20	11.0	3.10	10.3	2.90
	7	6	13.3	3.70	12.6	3.40	11.8	3.20	11.4	3.10	11.0	3.00	10.3	2.80
	9	8	13.3	3.50	12.6	3.30	11.8	3.10	11.4	2.90	11.0	2.90	10.3	2.60
	11	10	13.3	3.40	12.6	3.20	11.8	3.00	11.4	2.90	11.0	2.80	10.3	2.60
	13	12	13.3	3.30	12.6	3.10	11.8	2.90	11.4	2.80	11.0	2.70	10.3	2.40
	15	14	13.3	3.20	12.6	3.00	11.8	2.80	11.4	2.70	11.0	2.60	10.3	2.30
80%	-20	-20	10.5	5.90	10.5	6.00	10.5	6.10	10.2	5.90	9.8	5.60	9.1	5.10
	-19	-19	10.8	6.00	10.8	6.10	10.5	5.90	10.2	5.60	9.8	5.40	9.1	4.90
	-17	-17	11.4	6.10	11.1	6.00	10.5	5.40	10.2	5.20	9.8	5.00	9.1	4.60
	-15	-15	11.8	6.10	11.1	5.60	10.5	5.20	10.2	5.00	9.8	4.80	9.1	4.40
	-13	-13	11.8	5.70	11.1	5.30	10.5	4.90	10.2	4.70	9.8	4.50	9.1	4.20
	-11	-11	11.8	5.30	11.1	5.00	10.5	4.60	10.2	4.50	9.8	4.30	9.1	3.90
	-10	-10	11.8	5.00	11.1	4.70	10.5	4.30	10.2	4.20	9.8	3.90	9.1	3.60
	-9	-9	11.8	4.90	11.1	4.60	10.5	4.20	10.2	4.00	9.8	3.80	9.1	3.50
	-7	-8	11.8	4.70	11.1	4.40	10.5	4.00	10.2	3.80	9.8	3.70	9.1	3.40
	-5	-6	11.8	4.50	11.1	4.20	10.5	3.80	10.2	3.70	9.8	3.50	9.1	3.30
	-3	-4	11.8	4.00	11.1	3.70	10.5	3.50	10.2	3.30	9.8	3.20	9.1	3.00
	0	-1	11.8	3.70	11.1	3.50	10.5	3.20	10.2	3.10	9.8	3.00	9.1	2.80
	3	2	11.8	3.50	11.1	3.30	10.5	3.10	10.2	2.90	9.8	2.80	9.1	2.60
	5	4	11.8	3.40	11.1	3.10	10.5	2.90	10.2	2.80	9.8	2.70	9.1	2.60
	7	6	11.8	3.20	11.1	3.00	10.5	2.80	10.2	2.70	9.8	2.60	9.1	2.40
	9	8	11.8	3.10	11.1	2.90	10.5	2.70	10.2	2.60	9.8	2.40	9.1	2.30
	11	10	11.8	3.00	11.1	2.80	10.5	2.60	10.2	2.40	9.8	2.30	9.1	2.20
	13	12	11.8	2.90	11.1	2.70	10.5	2.40	10.2	2.30	9.8	2.30	9.1	2.10
	15	14	11.8	2.80	11.1	2.60	10.5	2.40	10.2	2.30	9.8	2.20	9.1	2.10

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE120MXTP※H/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	10.4	6.10	9.8	5.50	9.1	5.10	8.8	5.00	8.5	4.80	8.0	4.40
	-19	-19	10.4	5.70	9.8	5.30	9.1	5.00	8.8	4.80	8.5	4.60	8.0	4.20
	-17	-17	10.4	5.30	9.8	5.00	9.1	4.60	8.8	4.50	8.5	4.30	8.0	3.90
	-15	-15	10.4	5.10	9.8	4.80	9.1	4.50	8.8	4.30	8.5	4.00	8.0	3.70
	-13	-13	10.4	4.80	9.8	4.50	9.1	4.20	8.8	4.00	8.5	3.80	8.0	3.50
	-11	-11	10.4	4.60	9.8	4.30	9.1	3.90	8.8	3.70	8.5	3.60	8.0	3.30
	-10	-10	10.4	4.30	9.8	3.90	9.1	3.60	8.8	3.50	8.5	3.40	8.0	3.10
	-9	-9	10.4	4.20	9.8	3.80	9.1	3.60	8.8	3.40	8.5	3.30	8.0	3.10
	-7	-8	10.4	3.90	9.8	3.70	9.1	3.40	8.8	3.30	8.5	3.20	8.0	3.00
	-5	-6	10.4	3.70	9.8	3.50	9.1	3.30	8.8	3.20	8.5	3.00	8.0	2.80
	-3	-4	10.4	3.40	9.8	3.20	9.1	3.00	8.8	2.90	8.5	2.80	8.0	2.60
	0	-1	10.4	3.20	9.8	3.00	9.1	2.80	8.8	2.70	8.5	2.60	8.0	2.30
	3	2	10.4	3.00	9.8	2.80	9.1	2.70	8.8	2.60	8.5	2.40	8.0	2.20
	5	4	10.4	2.90	9.8	2.70	9.1	2.60	8.8	2.40	8.5	2.30	8.0	2.10
	7	6	10.4	2.80	9.8	2.60	9.1	2.40	8.8	2.30	8.5	2.20	8.0	2.00
	9	8	10.4	2.70	9.8	2.40	9.1	2.30	8.8	2.20	8.5	2.10	8.0	2.00
	11	10	10.4	2.60	9.8	2.30	9.1	2.20	8.8	2.10	8.5	2.00	8.0	1.90
	13	12	10.4	2.40	9.8	2.30	9.1	2.10	8.8	2.10	8.5	2.00	8.0	1.80
	15	14	10.4	2.30	9.8	2.20	9.1	2.10	8.8	2.00	8.5	1.90	8.0	1.80
60%	-20	-20	8.8	5.00	8.3	4.60	7.8	4.30	7.6	4.00	7.3	3.90	6.8	3.60
	-19	-19	8.8	4.80	8.3	4.50	7.8	4.20	7.6	3.90	7.3	3.80	6.8	3.50
	-17	-17	8.8	4.50	8.3	4.20	7.8	3.80	7.6	3.70	7.3	3.50	6.8	3.30
	-15	-15	8.8	4.30	8.3	3.90	7.8	3.70	7.6	3.50	7.3	3.40	6.8	3.10
	-13	-13	8.8	3.90	8.3	3.70	7.8	3.50	7.6	3.30	7.3	3.20	6.8	3.00
	-11	-11	8.8	3.70	8.3	3.50	7.8	3.30	7.6	3.20	7.3	3.10	6.8	2.80
	-10	-10	8.8	3.50	8.3	3.30	7.8	3.10	7.6	3.00	7.3	2.90	6.8	2.70
	-9	-9	8.8	3.40	8.3	3.20	7.8	3.00	7.6	2.90	7.3	2.80	6.8	2.60
	-7	-8	8.8	3.30	8.3	3.10	7.8	2.90	7.6	2.80	7.3	2.70	6.8	2.40
	-5	-6	8.8	3.20	8.3	3.00	7.8	2.80	7.6	2.70	7.3	2.60	6.8	2.30
	-3	-4	8.8	2.90	8.3	2.70	7.8	2.40	7.6	2.40	7.3	2.30	6.8	2.10
	0	-1	8.8	2.70	8.3	2.60	7.8	2.30	7.6	2.20	7.3	2.10	6.8	2.00
	3	2	8.8	2.60	8.3	2.30	7.8	2.20	7.6	2.10	7.3	2.00	6.8	1.90
	5	4	8.8	2.40	8.3	2.20	7.8	2.10	7.6	2.00	7.3	2.00	6.8	1.80
	7	6	8.8	2.30	8.3	2.10	7.8	2.00	7.6	2.00	7.3	1.90	6.8	1.80
	9	8	8.8	2.20	8.3	2.10	7.8	1.90	7.6	1.90	7.3	1.80	6.8	1.70
	11	10	8.8	2.10	8.3	2.00	7.8	1.90	7.6	1.80	7.3	1.80	6.8	1.60
	13	12	8.8	2.10	8.3	1.90	7.8	1.80	7.6	1.80	7.3	1.70	6.8	1.60
	15	14	8.8	2.00	8.3	1.90	7.8	1.80	7.6	1.70	7.3	1.70	6.8	1.60
50%	-20	-20	7.4	3.90	6.9	3.70	6.5	3.40	6.3	3.30	6.1	3.20	5.7	3.00
	-19	-19	7.4	3.80	6.9	3.50	6.5	3.30	6.3	3.20	6.1	3.10	5.7	2.90
	-17	-17	7.4	3.50	6.9	3.30	6.5	3.10	6.3	3.00	6.1	2.90	5.7	2.70
	-15	-15	7.4	3.40	6.9	3.20	6.5	3.00	6.3	2.90	6.1	2.80	5.7	2.60
	-13	-13	7.4	3.20	6.9	3.00	6.5	2.80	6.3	2.70	6.1	2.70	5.7	2.40
	-11	-11	7.4	3.10	6.9	2.90	6.5	2.70	6.3	2.60	6.1	2.40	5.7	2.30
	-10	-10	7.4	2.90	6.9	2.70	6.5	2.40	6.3	2.40	6.1	2.30	5.7	2.10
	-9	-9	7.4	2.80	6.9	2.70	6.5	2.40	6.3	2.30	6.1	2.20	5.7	2.10
	-7	-8	7.4	2.70	6.9	2.60	6.5	2.30	6.3	2.20	6.1	2.20	5.7	2.00
	-5	-6	7.4	2.60	6.9	2.40	6.5	2.20	6.3	2.10	6.1	2.10	5.7	1.90
	-3	-4	7.4	2.30	6.9	2.20	6.5	2.00	6.3	2.00	6.1	1.90	5.7	1.80
	0	-1	7.4	2.20	6.9	2.00	6.5	1.90	6.3	1.90	6.1	1.80	5.7	1.70
	3	2	7.4	2.00	6.9	1.90	6.5	1.80	6.3	1.80	6.1	1.70	5.7	1.60
	5	4	7.4	2.00	6.9	1.90	6.5	1.80	6.3	1.70	6.1	1.70	5.7	1.60
	7	6	7.4	1.90	6.9	1.80	6.5	1.70	6.3	1.60	6.1	1.60	5.7	1.50
	9	8	7.4	1.80	6.9	1.70	6.5	1.60	6.3	1.60	6.1	1.50	5.7	1.40
	11	10	7.4	1.80	6.9	1.70	6.5	1.60	6.3	1.50	6.1	1.50	5.7	1.40
	13	12	7.4	1.70	6.9	1.60	6.5	1.50	6.3	1.50	6.1	1.40	5.7	1.40
	15	14	7.4	1.70	6.9	1.60	6.5	1.50	6.3	1.50	6.1	1.40	5.7	1.30

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE160MXTP✳H/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	-20	-20	10.9	3.60	10.9	3.80	10.9	4.00	10.9	4.10	10.9	4.20	10.9	4.40
	-19	-19	11.2	3.70	11.0	3.90	10.9	4.10	11.0	4.20	11.0	4.30	10.9	4.40
	-17	-17	11.8	3.90	11.8	4.10	11.7	4.30	11.8	4.30	11.8	4.40	11.8	4.60
	-15	-15	12.3	4.20	12.2	4.40	12.2	4.50	12.3	4.60	12.3	4.70	12.3	4.80
	-13	-13	13.0	4.40	12.8	4.50	12.6	4.70	13.0	4.70	13.0	4.80	12.8	5.00
	-11	-11	13.6	4.50	13.6	4.60	13.3	4.80	13.6	4.90	13.4	4.90	13.4	5.00
	-10	-10	13.9	4.40	14.2	4.50	13.6	4.60	13.8	4.70	13.8	4.80	13.8	4.90
	-9	-9	14.1	4.40	14.4	4.60	13.8	4.70	14.1	4.80	14.1	4.80	13.9	5.00
	-7	-8	14.6	4.50	14.6	4.60	13.9	4.80	14.4	4.80	14.4	4.90	14.4	5.00
	-5	-6	15.0	4.60	14.9	4.70	14.6	4.90	15.0	4.90	15.0	5.00	14.9	5.00
	-3	-4	15.2	4.50	15.0	4.60	14.7	4.70	15.1	4.80	15.1	4.80	14.4	4.60
	0	-1	16.1	4.60	16.0	4.70	15.6	4.80	15.9	4.80	15.4	4.60	14.4	4.20
	3	2	17.0	4.70	17.0	4.80	16.0	4.70	15.9	4.50	15.4	4.30	14.4	3.90
	5	4	17.6	4.80	17.5	4.90	16.0	4.50	15.9	4.30	15.4	4.10	14.4	3.80
	7	6	18.1	4.80	17.6	4.60	16.0	4.30	15.9	4.10	15.4	3.90	14.4	3.60
	9	8	18.6	4.70	17.6	4.40	16.2	4.00	15.9	3.90	15.4	3.70	14.4	3.50
	11	10	18.6	4.50	17.6	4.20	16.2	3.90	15.9	3.70	15.4	3.60	14.4	3.40
	13	12	18.6	4.40	17.6	4.00	16.2	3.70	15.9	3.60	15.4	3.50	14.4	3.20
	15	14	18.6	4.20	17.6	3.90	16.2	3.60	15.9	3.60	15.4	3.40	14.4	3.10
90%	-20	-20	10.9	4.00	10.9	4.10	10.9	4.30	10.9	4.40	10.9	4.40	10.9	4.60
	-19	-19	11.0	4.00	11.0	4.20	11.0	4.40	10.9	4.40	10.9	4.50	10.9	4.70
	-17	-17	11.8	4.20	11.8	4.40	11.8	4.50	11.8	4.60	11.8	4.70	11.8	4.80
	-15	-15	12.3	4.50	12.3	4.60	12.3	4.80	12.3	4.90	12.3	4.90	12.2	5.00
	-13	-13	13.0	4.60	13.0	4.80	13.0	4.90	12.8	5.00	12.8	5.00	12.8	5.10
	-11	-11	13.6	4.70	13.6	4.90	13.4	5.00	13.4	5.00	13.4	5.00	13.4	5.20
	-10	-10	13.8	4.60	13.8	4.70	13.8	4.90	13.8	4.90	13.8	5.00	13.6	5.00
	-9	-9	14.1	4.70	14.1	4.80	14.1	4.90	13.9	5.00	13.9	5.00	13.6	4.90
	-7	-8	14.4	4.70	14.4	4.90	14.4	5.00	14.4	5.00	14.4	5.00	13.4	4.70
	-5	-6	15.0	4.80	15.0	4.90	15.0	5.00	14.9	5.00	14.4	4.80	13.4	4.40
	-3	-4	15.1	4.70	15.1	4.80	14.8	4.70	14.4	4.50	14.0	4.40	12.9	4.00
	0	-1	16.0	4.80	15.7	4.80	14.8	4.40	14.4	4.20	14.0	4.00	12.9	3.70
	3	2	16.7	4.80	15.7	4.40	14.8	4.10	14.4	3.90	14.0	3.80	12.9	3.50
	5	4	16.7	4.60	15.7	4.20	14.8	3.90	14.4	3.80	14.0	3.60	12.9	3.40
	7	6	16.7	4.30	15.7	4.00	14.8	3.70	14.4	3.60	14.0	3.50	12.9	3.20
	9	8	16.7	4.10	15.7	3.80	14.8	3.60	14.4	3.50	14.0	3.40	12.9	3.10
	11	10	16.7	4.00	15.7	3.70	14.8	3.50	14.4	3.40	14.0	3.20	12.9	3.00
	13	12	16.7	3.80	15.7	3.60	14.8	3.40	14.4	3.20	14.0	3.10	12.9	2.90
	15	14	16.7	3.70	15.7	3.50	14.8	3.30	14.4	3.10	14.0	3.00	12.9	2.80
80%	-20	-20	10.9	4.30	10.9	4.40	10.9	4.60	10.9	4.60	10.7	4.70	10.7	4.90
	-19	-19	11.0	4.40	10.9	4.50	10.9	4.60	10.9	4.70	10.9	4.80	10.9	4.90
	-17	-17	11.8	4.50	11.8	4.60	11.8	4.80	11.8	4.80	11.7	4.90	11.7	5.00
	-15	-15	12.3	4.80	12.3	4.90	12.2	5.00	12.2	5.00	12.2	5.10	12.2	5.20
	-13	-13	13.0	4.90	12.8	5.00	12.8	5.00	12.8	5.10	12.8	5.20	12.2	4.90
	-11	-11	13.4	5.00	13.4	5.00	13.4	5.10	13.3	5.20	13.0	5.00	12.2	4.60
	-10	-10	13.8	4.90	13.8	5.00	13.8	5.00	13.3	4.90	13.0	4.70	12.2	4.30
	-9	-9	14.1	4.90	13.9	5.00	13.8	5.00	13.3	4.80	13.0	4.60	12.2	4.20
	-7	-8	14.4	5.00	14.4	5.00	13.6	4.80	13.1	4.60	12.8	4.40	12.0	4.00
	-5	-6	15.0	5.00	14.6	4.90	13.6	4.50	13.1	4.30	12.8	4.20	12.0	3.80
	-3	-4	14.9	4.80	14.0	4.40	13.2	4.10	12.7	3.90	12.4	3.70	11.5	3.50
	0	-1	14.9	4.40	14.0	4.10	13.2	3.80	12.7	3.60	12.4	3.60	11.5	3.30
	3	2	14.9	4.10	14.0	3.80	13.2	3.60	12.7	3.50	12.4	3.30	11.5	3.10
	5	4	14.9	3.90	14.0	3.70	13.2	3.50	12.7	3.30	12.4	3.20	11.5	3.00
	7	6	14.9	3.70	14.0	3.60	13.2	3.30	12.7	3.20	12.4	3.10	11.5	2.80
	9	8	14.9	3.60	14.0	3.40	13.2	3.20	12.7	3.00	12.4	2.90	11.5	2.70
	11	10	14.9	3.50	14.0	3.30	13.2	3.00	12.7	2.90	12.4	2.80	11.5	2.60
	13	12	14.9	3.40	14.0	3.20	13.2	2.90	12.7	2.80	12.4	2.70	11.5	2.50
	15	14	14.9	3.30	14.0	3.10	13.2	2.80	12.7	2.70	12.4	2.60	11.5	2.40

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE160MXTP⁎H/EU

Heating

Combination % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (DB, °C)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-20	-20	10.7	4.70	10.7	4.80	10.6	4.90	10.6	5.00	10.4	4.90	9.8	4.40
	-19	-19	10.7	4.80	10.7	4.90	10.7	5.00	10.6	4.90	10.2	4.70	9.6	4.20
	-17	-17	11.7	4.90	11.5	5.00	11.0	4.70	10.7	4.50	10.4	4.30	9.8	3.90
	-15	-15	12.0	5.00	11.5	4.90	10.9	4.50	10.6	4.30	10.2	4.10	9.6	3.80
	-13	-13	12.2	4.90	11.5	4.60	10.9	4.20	10.6	4.00	10.2	3.90	9.6	3.60
	-11	-11	12.2	4.60	11.5	4.30	10.9	3.90	10.6	3.80	10.2	3.60	9.6	3.40
	-10	-10	12.2	4.30	11.5	4.00	10.9	3.70	10.6	3.60	10.2	3.50	9.6	3.20
	-9	-9	12.2	4.20	11.5	3.90	10.9	3.60	10.6	3.50	10.2	3.40	9.6	3.10
	-7	-8	12.0	4.00	11.4	3.70	10.7	3.50	10.4	3.40	10.1	3.30	9.4	3.00
	-5	-6	12.0	3.80	11.4	3.60	10.7	3.30	10.4	3.20	10.1	3.10	9.4	2.80
	-3	-4	11.6	3.50	10.9	3.30	10.2	3.00	9.9	2.90	9.6	2.80	9.0	2.60
	0	-1	11.6	3.30	10.9	3.00	10.2	2.80	9.9	2.70	9.6	2.60	9.0	2.40
	3	2	11.6	3.00	10.9	2.80	10.2	2.60	9.9	2.50	9.6	2.40	9.0	2.20
	5	4	11.6	2.90	10.9	2.70	10.2	2.50	9.9	2.40	9.6	2.30	9.0	2.20
	7	6	11.6	2.80	10.9	2.60	10.2	2.40	9.9	2.30	9.6	2.20	9.0	2.20
	9	8	11.6	2.60	10.9	2.50	10.2	2.30	9.9	2.20	9.6	2.20	9.0	2.10
	11	10	11.6	2.50	10.9	2.40	10.2	2.20	9.9	2.20	9.6	2.10	9.0	2.00
	13	12	11.6	2.50	10.9	2.30	10.2	2.20	9.9	2.10	9.6	2.10	9.0	1.90
	15	14	11.6	2.40	10.9	2.20	10.2	2.20	9.9	2.10	9.6	2.00	9.0	1.90
60%	-20	-20	9.8	5.00	9.3	4.70	8.8	4.30	8.5	4.10	8.2	4.00	7.6	3.60
	-19	-19	9.9	4.90	9.3	4.50	8.8	4.20	8.5	4.00	8.2	3.80	7.6	3.60
	-17	-17	9.9	4.50	9.3	4.20	8.8	3.80	8.5	3.70	8.2	3.60	7.6	3.30
	-15	-15	9.9	4.30	9.3	4.00	8.8	3.70	8.5	3.60	8.2	3.50	7.6	3.20
	-13	-13	9.9	4.00	9.3	3.70	8.8	3.60	8.5	3.40	8.2	3.30	7.6	3.00
	-11	-11	9.9	3.80	9.3	3.60	8.8	3.40	8.5	3.20	8.2	3.10	7.6	2.80
	-10	-10	9.9	3.60	9.3	3.40	8.8	3.10	8.5	3.00	8.2	2.90	7.6	2.70
	-9	-9	9.9	3.50	9.3	3.30	8.8	3.00	8.5	2.90	8.2	2.80	7.6	2.60
	-7	-8	9.9	3.40	9.3	3.10	8.8	2.90	8.5	2.80	8.2	2.70	7.6	2.50
	-5	-6	9.9	3.20	9.3	3.00	8.8	2.80	8.5	2.70	8.2	2.60	7.6	2.40
	-3	-4	9.9	2.90	9.3	2.70	8.8	2.50	8.5	2.40	8.2	2.30	7.6	2.20
	0	-1	9.9	2.70	9.3	2.50	8.8	2.30	8.5	2.30	8.2	2.20	7.6	2.10
	3	2	9.9	2.50	9.3	2.40	8.8	2.20	8.5	2.20	8.2	2.10	7.6	2.00
	5	4	9.9	2.40	9.3	2.30	8.8	2.20	8.5	2.10	8.2	2.10	7.6	1.90
	7	6	9.9	2.30	9.3	2.20	8.8	2.10	8.5	2.00	8.2	2.00	7.6	1.80
	9	8	9.9	2.20	9.3	2.20	8.8	2.00	8.5	2.00	8.2	1.90	7.6	1.70
	11	10	9.9	2.20	9.3	2.10	8.8	2.00	8.5	1.90	8.2	1.80	7.6	1.70
	13	12	9.9	2.10	9.3	2.00	8.8	1.90	8.5	1.80	8.2	1.80	7.6	1.60
	15	14	9.9	2.10	9.3	2.00	8.8	1.80	8.5	1.80	8.2	1.70	7.6	1.60
50%	-20	-20	8.3	4.00	7.8	3.70	7.3	3.50	7.1	3.40	6.8	3.20	6.4	3.00
	-19	-19	8.3	3.80	7.8	3.60	7.3	3.40	7.1	3.30	6.8	3.10	6.4	2.90
	-17	-17	8.3	3.60	7.8	3.40	7.3	3.20	7.1	3.00	6.8	2.90	6.4	2.70
	-15	-15	8.3	3.50	7.8	3.30	7.3	3.00	7.1	2.90	6.8	2.80	6.4	2.60
	-13	-13	8.3	3.30	7.8	3.10	7.3	2.90	7.1	2.70	6.8	2.60	6.4	2.40
	-11	-11	8.3	3.10	7.8	2.90	7.3	2.70	7.1	2.60	6.8	2.50	6.4	2.30
	-10	-10	8.3	2.90	7.8	2.70	7.3	2.50	7.1	2.40	6.8	2.30	6.4	2.20
	-9	-9	8.3	2.80	7.8	2.60	7.3	2.50	7.1	2.40	6.8	2.30	6.4	2.20
	-7	-8	8.3	2.70	7.8	2.50	7.3	2.40	7.1	2.30	6.8	2.20	6.4	2.10
	-5	-6	8.3	2.60	7.8	2.40	7.3	2.20	7.1	2.20	6.8	2.20	6.4	2.00
	-3	-4	8.3	2.30	7.8	2.20	7.3	2.10	7.1	2.10	6.8	2.00	6.4	1.80
	0	-1	8.3	2.20	7.8	2.10	7.3	2.00	7.1	1.90	6.8	1.90	6.4	1.70
	3	2	8.3	2.10	7.8	2.00	7.3	1.90	7.1	1.80	6.8	1.80	6.4	1.60
	5	4	8.3	2.10	7.8	1.90	7.3	1.80	7.1	1.80	6.8	1.70	6.4	1.60
	7	6	8.3	2.00	7.8	1.90	7.3	1.70	7.1	1.70	6.8	1.60	6.4	1.50
	9	8	8.3	1.90	7.8	1.80	7.3	1.70	7.1	1.60	6.8	1.50	6.4	1.40
	11	10	8.3	1.80	7.8	1.70	7.3	1.60	7.1	1.60	6.8	1.50	6.4	1.40
	13	12	8.3	1.80	7.8	1.70	7.3	1.60	7.1	1.50	6.8	1.50	6.4	1.40
	15	14	8.3	1.70	7.8	1.60	7.3	1.50	7.1	1.50	6.8	1.40	6.4	1.30

※ Peak value : Tested without defrost operation in accordance with EN14511

2. Outdoor Units

2-8. Capacity table (A2A)

AE044MXTPEH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	10	3.0	0.47	3.6	0.53	4.2	0.65	4.5	0.70	4.7	0.76	5.3	0.82	5.9	0.94
	12	3.0	0.47	3.6	0.53	4.2	0.65	4.5	0.70	4.7	0.76	5.3	0.88	5.9	0.94
	14	3.0	0.47	3.6	0.53	4.1	0.65	4.5	0.70	4.7	0.76	5.3	0.88	5.9	1.00
	16	3.0	0.47	3.6	0.59	4.1	0.65	4.5	0.70	4.7	0.76	5.3	0.88	5.9	1.00
	18	3.0	0.47	3.6	0.59	4.1	0.70	4.5	0.76	4.7	0.82	5.3	0.94	5.9	1.11
	20	3.0	0.47	3.6	0.59	4.1	0.70	4.5	0.76	4.7	0.88	5.3	1.00	5.8	1.17
	21	3.0	0.47	3.6	0.59	4.1	0.70	4.5	0.82	4.7	0.88	5.3	1.06	5.8	1.23
	23	3.0	0.53	3.6	0.65	4.1	0.76	4.5	0.88	4.7	0.94	5.3	1.11	5.8	1.29
	25	3.0	0.53	3.6	0.70	4.1	0.82	4.4	0.94	4.7	1.00	5.3	1.23	5.7	1.35
	27	3.0	0.59	3.6	0.70	4.1	0.88	4.4	1.00	4.7	1.06	5.3	1.29	5.7	1.41
	29	3.0	0.59	3.6	0.76	4.1	0.94	4.4	1.06	4.7	1.17	5.3	1.41	5.6	1.47
	31	3.0	0.65	3.6	0.82	4.1	1.00	4.4	1.11	4.7	1.23	5.3	1.47	5.5	1.52
	33	3.0	0.70	3.6	0.88	4.1	1.06	4.4	1.17	4.7	1.29	5.3	1.58	5.3	1.58
	35	3.0	0.70	3.5	0.94	4.1	1.17	4.4	1.29	4.7	1.41	5.2	1.64	5.3	1.64
	37	2.9	0.76	3.5	1.00	4.0	1.23	4.3	1.35	4.5	1.52	4.9	1.70	5.0	1.70
	39	2.8	0.82	3.4	1.06	3.9	1.29	4.2	1.47	4.5	1.58	4.7	1.76	4.8	1.76
	42	2.8	0.88	3.4	1.11	3.9	1.41	4.2	1.52	4.5	1.70	4.7	1.82	4.8	1.82
	44	2.8	0.94	3.4	1.17	3.9	1.47	4.2	1.64	4.5	1.82	4.6	1.88	4.7	1.88
	46	2.8	0.94	3.4	1.23	3.9	1.52	4.2	1.70	4.5	1.88	4.5	1.94	4.7	1.94
90%	10	2.7	0.41	3.2	0.47	3.8	0.59	4.0	0.59	4.3	0.65	4.8	0.76	5.3	0.82
	12	2.7	0.41	3.2	0.47	3.8	0.59	4.0	0.65	4.3	0.65	4.8	0.76	5.3	0.88
	14	2.7	0.41	3.2	0.47	3.8	0.59	4.0	0.65	4.3	0.70	4.8	0.76	5.3	0.88
	16	2.7	0.41	3.2	0.53	3.8	0.59	4.0	0.65	4.3	0.70	4.8	0.76	5.3	0.88
	18	2.7	0.41	3.2	0.53	3.8	0.59	4.0	0.65	4.3	0.70	4.8	0.82	5.3	0.94
	20	2.7	0.41	3.2	0.53	3.7	0.65	4.0	0.65	4.3	0.70	4.8	0.88	5.3	1.00
	21	2.7	0.41	3.2	0.53	3.7	0.65	4.0	0.70	4.2	0.76	4.8	0.88	5.3	1.06
	23	2.7	0.47	3.2	0.53	3.7	0.65	4.0	0.76	4.2	0.82	4.8	0.94	5.3	1.11
	25	2.7	0.47	3.2	0.59	3.7	0.70	4.0	0.76	4.2	0.88	4.8	1.06	5.3	1.23
	27	2.7	0.47	3.2	0.65	3.7	0.76	4.0	0.82	4.2	0.94	4.7	1.11	5.3	1.29
	29	2.7	0.53	3.2	0.65	3.7	0.82	4.0	0.88	4.2	1.00	4.7	1.17	5.3	1.35
	31	2.7	0.59	3.2	0.70	3.7	0.88	4.0	0.94	4.2	1.06	4.7	1.23	5.3	1.47
	33	2.7	0.59	3.2	0.76	3.7	0.94	4.0	1.00	4.2	1.11	4.7	1.35	5.3	1.58
	35	2.7	0.65	3.2	0.82	3.7	1.00	4.0	1.11	4.2	1.17	4.7	1.41	5.2	1.64
	37	2.6	0.65	3.1	0.88	3.6	1.06	3.8	1.17	4.1	1.29	4.6	1.52	4.9	1.70
	39	2.5	0.70	3.0	0.88	3.5	1.11	3.8	1.23	4.0	1.35	4.5	1.64	4.7	1.76
	42	2.5	0.76	3.0	0.94	3.5	1.17	3.8	1.29	4.0	1.47	4.5	1.70	4.7	1.82
	44	2.5	0.76	3.0	1.00	3.5	1.23	3.8	1.41	4.0	1.52	4.5	1.82	4.6	1.88
	46	2.5	0.82	3.0	1.06	3.5	1.35	3.8	1.47	4.0	1.58	4.5	1.94	4.5	1.94
80%	10	2.4	0.35	2.9	0.41	3.3	0.47	3.6	0.53	3.8	0.59	4.3	0.65	4.7	0.70
	12	2.4	0.35	2.9	0.41	3.3	0.53	3.6	0.53	3.8	0.59	4.3	0.65	4.7	0.76
	14	2.4	0.35	2.9	0.41	3.3	0.53	3.6	0.53	3.8	0.59	4.3	0.65	4.7	0.76
	16	2.4	0.35	2.9	0.47	3.3	0.53	3.6	0.59	3.8	0.59	4.3	0.70	4.7	0.76
	18	2.4	0.35	2.9	0.47	3.3	0.53	3.6	0.59	3.8	0.59	4.3	0.70	4.7	0.76
	20	2.4	0.35	2.9	0.47	3.3	0.53	3.6	0.59	3.8	0.65	4.3	0.70	4.7	0.82
	21	2.4	0.41	2.8	0.47	3.3	0.53	3.6	0.59	3.8	0.65	4.2	0.76	4.7	0.88
	23	2.4	0.41	2.8	0.47	3.3	0.59	3.5	0.65	3.8	0.70	4.2	0.82	4.7	0.94
	25	2.4	0.41	2.8	0.53	3.3	0.59	3.5	0.65	3.8	0.70	4.2	0.88	4.7	1.00
	27	2.4	0.41	2.8	0.53	3.3	0.65	3.5	0.70	3.8	0.76	4.2	0.94	4.7	1.06
	29	2.4	0.47	2.8	0.59	3.3	0.70	3.5	0.76	3.8	0.82	4.2	1.00	4.7	1.17
	31	2.4	0.47	2.8	0.59	3.3	0.76	3.5	0.82	3.8	0.88	4.2	1.06	4.7	1.23
	33	2.4	0.53	2.8	0.65	3.3	0.76	3.5	0.88	3.8	0.94	4.2	1.11	4.7	1.29
	35	2.4	0.53	2.8	0.70	3.3	0.82	3.5	0.94	3.8	1.00	4.2	1.17	4.7	1.41
	37	2.3	0.59	2.8	0.70	3.2	0.88	3.4	1.00	3.6	1.06	4.1	1.29	4.5	1.47
	39	2.3	0.59	2.7	0.76	3.1	0.94	3.3	1.06	3.6	1.11	4.0	1.35	4.5	1.58
	42	2.3	0.65	2.7	0.82	3.1	1.00	3.3	1.11	3.6	1.23	4.0	1.47	4.5	1.70
	44	2.3	0.70	2.7	0.88	3.1	1.06	3.3	1.17	3.6	1.29	4.0	1.52	4.5	1.76
	46	2.3	0.70	2.7	0.88	3.1	1.11	3.3	1.23	3.6	1.35	4.0	1.58	4.5	1.88

2. Outdoor Units

2-8. Capacity table (A2A)

AE044MXTPEH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	10	2.1	0.29	2.5	0.35	2.9	0.41	3.1	0.47	3.3	0.47	3.7	0.59	4.1	0.65
	12	2.1	0.29	2.5	0.35	2.9	0.41	3.1	0.47	3.3	0.53	3.7	0.59	4.1	0.65
	14	2.1	0.29	2.5	0.35	2.9	0.47	3.1	0.47	3.3	0.53	3.7	0.59	4.1	0.65
	16	2.1	0.29	2.5	0.41	2.9	0.47	3.1	0.47	3.3	0.53	3.7	0.59	4.1	0.65
	18	2.1	0.35	2.5	0.41	2.9	0.47	3.1	0.47	3.3	0.53	3.7	0.59	4.1	0.70
	20	2.1	0.35	2.5	0.41	2.9	0.47	3.1	0.53	3.3	0.53	3.7	0.59	4.1	0.70
	21	2.1	0.35	2.5	0.41	2.9	0.47	3.1	0.53	3.3	0.53	3.7	0.65	4.1	0.70
	23	2.1	0.35	2.5	0.41	2.9	0.47	3.1	0.53	3.3	0.59	3.7	0.65	4.1	0.76
	25	2.1	0.35	2.5	0.41	2.9	0.53	3.1	0.59	3.3	0.59	3.7	0.70	4.1	0.82
	27	2.1	0.35	2.5	0.47	2.9	0.53	3.1	0.59	3.3	0.65	3.7	0.76	4.1	0.88
	29	2.1	0.41	2.5	0.47	2.9	0.59	3.1	0.65	3.3	0.70	3.7	0.82	4.1	0.94
	31	2.1	0.41	2.5	0.53	2.9	0.65	3.1	0.70	3.3	0.76	3.7	0.88	4.1	1.00
	33	2.1	0.41	2.5	0.53	2.9	0.65	3.1	0.70	3.3	0.76	3.7	0.94	4.1	1.06
	35	2.1	0.47	2.5	0.59	2.9	0.70	3.1	0.76	3.3	0.82	3.7	1.00	4.1	1.11
	37	2.0	0.47	2.4	0.59	2.8	0.76	3.0	0.82	3.2	0.88	3.6	1.06	4.0	1.23
	39	1.9	0.53	2.3	0.65	2.8	0.76	3.0	0.88	3.1	0.94	3.5	1.11	3.9	1.29
	42	1.9	0.53	2.3	0.70	2.8	0.82	3.0	0.94	3.1	1.00	3.5	1.17	3.9	1.35
	44	1.9	0.59	2.3	0.70	2.8	0.88	3.0	0.94	3.1	1.06	3.5	1.23	3.9	1.47
	46	1.9	0.59	2.3	0.76	2.8	0.94	3.0	1.00	3.1	1.11	3.5	1.29	3.9	1.52
60%	10	1.8	0.29	2.1	0.29	2.5	0.35	2.7	0.41	2.8	0.41	3.2	0.47	3.5	0.53
	12	1.8	0.29	2.1	0.29	2.5	0.35	2.7	0.41	2.8	0.41	3.2	0.47	3.5	0.53
	14	1.8	0.29	2.1	0.35	2.5	0.35	2.7	0.41	2.8	0.41	3.2	0.47	3.5	0.53
	16	1.8	0.29	2.1	0.35	2.5	0.41	2.7	0.41	2.8	0.41	3.2	0.47	3.5	0.53
	18	1.8	0.29	2.1	0.35	2.5	0.41	2.6	0.41	2.8	0.47	3.2	0.53	3.5	0.59
	20	1.8	0.29	2.1	0.35	2.5	0.41	2.6	0.41	2.8	0.47	3.2	0.53	3.5	0.59
	21	1.8	0.29	2.1	0.35	2.5	0.41	2.6	0.41	2.8	0.47	3.2	0.53	3.5	0.59
	23	1.8	0.29	2.1	0.35	2.5	0.41	2.6	0.41	2.8	0.47	3.2	0.53	3.5	0.65
	25	1.8	0.29	2.1	0.35	2.5	0.41	2.6	0.47	2.8	0.47	3.2	0.59	3.5	0.65
	27	1.8	0.29	2.1	0.35	2.5	0.47	2.6	0.47	2.8	0.53	3.1	0.59	3.5	0.70
	29	1.8	0.35	2.1	0.41	2.5	0.47	2.6	0.53	2.8	0.59	3.1	0.65	3.5	0.76
	31	1.8	0.35	2.1	0.41	2.5	0.53	2.6	0.53	2.8	0.59	3.1	0.70	3.5	0.82
	33	1.8	0.35	2.1	0.47	2.5	0.53	2.6	0.59	2.8	0.65	3.1	0.76	3.5	0.88
	35	1.8	0.41	2.1	0.47	2.5	0.59	2.6	0.65	2.8	0.70	3.1	0.76	3.5	0.94
	37	1.8	0.41	2.1	0.53	2.4	0.59	2.6	0.65	2.7	0.70	3.1	0.82	3.4	1.00
	39	1.7	0.41	2.0	0.53	2.3	0.65	2.5	0.70	2.7	0.76	3.0	0.88	3.3	1.06
	42	1.7	0.47	2.0	0.59	2.3	0.70	2.5	0.76	2.7	0.82	3.0	0.94	3.3	1.11
	44	1.7	0.47	2.0	0.59	2.3	0.70	2.5	0.76	2.7	0.82	3.0	1.00	3.3	1.17
	46	1.7	0.53	2.0	0.65	2.3	0.76	2.5	0.82	2.7	0.88	3.0	1.06	3.3	1.23
50%	10	1.5	0.23	1.8	0.29	2.1	0.29	2.3	0.35	2.4	0.35	2.6	0.41	3.0	0.41
	12	1.5	0.23	1.8	0.29	2.1	0.29	2.2	0.35	2.4	0.35	2.6	0.41	3.0	0.41
	14	1.5	0.23	1.8	0.29	2.1	0.29	2.2	0.35	2.4	0.35	2.6	0.41	3.0	0.47
	16	1.5	0.23	1.8	0.29	2.1	0.29	2.2	0.35	2.4	0.35	2.6	0.41	3.0	0.47
	18	1.5	0.23	1.8	0.29	2.1	0.35	2.2	0.35	2.4	0.35	2.6	0.41	3.0	0.47
	20	1.5	0.23	1.8	0.29	2.1	0.35	2.2	0.35	2.4	0.35	2.6	0.41	3.0	0.47
	21	1.5	0.23	1.8	0.29	2.1	0.35	2.2	0.35	2.4	0.35	2.6	0.41	3.0	0.47
	23	1.5	0.23	1.8	0.29	2.1	0.35	2.2	0.35	2.4	0.41	2.6	0.41	3.0	0.47
	25	1.5	0.23	1.8	0.29	2.1	0.35	2.2	0.35	2.4	0.41	2.6	0.47	3.0	0.53
	27	1.5	0.23	1.8	0.29	2.1	0.35	2.2	0.41	2.3	0.41	2.6	0.47	3.0	0.53
	29	1.5	0.29	1.8	0.35	2.1	0.41	2.2	0.41	2.3	0.47	2.6	0.53	3.0	0.59
	31	1.5	0.29	1.8	0.35	2.1	0.41	2.2	0.47	2.3	0.47	2.6	0.53	3.0	0.65
	33	1.5	0.29	1.8	0.35	2.1	0.41	2.2	0.47	2.3	0.53	2.6	0.59	3.0	0.65
	35	1.5	0.35	1.8	0.41	2.1	0.47	2.2	0.47	2.3	0.53	2.6	0.65	2.9	0.70
	37	1.4	0.35	1.7	0.41	2.0	0.47	2.1	0.53	2.3	0.59	2.6	0.65	2.8	0.76
	39	1.4	0.35	1.7	0.41	1.9	0.53	2.1	0.59	2.2	0.59	2.5	0.70	2.8	0.82
	42	1.4	0.35	1.7	0.47	1.9	0.53	2.1	0.59	2.2	0.65	2.5	0.76	2.8	0.82
	44	1.4	0.41	1.7	0.47	1.9	0.59	2.1	0.65	2.2	0.65	2.5	0.76	2.8	0.88
	46	1.4	0.41	1.7	0.53	1.9	0.59	2.1	0.65	2.2	0.70	2.5	0.82	2.8	0.94

2. Outdoor Units

2-8. Capacity table (A2A)

AE066MXTPEH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	10	4.5	0.67	5.4	0.84	6.2	1.01	6.7	1.01	7.1	1.10	8.0	1.27	8.9	1.43
	12	4.5	0.67	5.4	0.84	6.2	1.01	6.7	1.10	7.1	1.18	8.0	1.35	8.8	1.52
	14	4.5	0.67	5.4	0.84	6.2	1.01	6.7	1.10	7.1	1.18	8.0	1.35	8.8	1.52
	16	4.5	0.67	5.4	0.84	6.2	1.01	6.7	1.10	7.1	1.18	8.0	1.35	8.8	1.60
	18	4.5	0.76	5.4	0.84	6.2	1.01	6.7	1.10	7.1	1.18	8.0	1.43	8.8	1.69
	20	4.5	0.76	5.4	0.93	6.2	1.10	6.7	1.18	7.0	1.35	8.0	1.52	8.8	1.86
	21	4.5	0.76	5.4	0.93	6.2	1.10	6.7	1.27	7.0	1.35	8.0	1.60	8.8	1.86
	23	4.5	0.76	5.4	1.01	6.2	1.18	6.7	1.35	7.0	1.43	7.9	1.77	8.7	2.02
	25	4.5	0.84	5.4	1.01	6.2	1.27	6.7	1.43	7.0	1.52	7.9	1.86	8.6	2.11
	27	4.5	0.84	5.4	1.10	6.2	1.35	6.6	1.52	7.0	1.69	7.9	2.02	8.4	2.19
	29	4.5	0.93	5.4	1.18	6.2	1.43	6.6	1.60	7.0	1.77	7.9	2.11	8.4	2.28
	31	4.5	1.01	5.4	1.27	6.2	1.60	6.6	1.69	7.0	1.94	7.9	2.28	8.2	2.36
	33	4.5	1.01	5.4	1.35	6.2	1.69	6.6	1.86	7.0	2.02	7.9	2.45	8.0	2.45
	35	4.5	1.10	5.3	1.43	6.2	1.77	6.6	1.94	7.0	2.19	7.7	2.53	7.9	2.53
	37	4.3	1.18	5.2	1.52	6.0	1.86	6.4	2.11	6.8	2.28	7.4	2.61	7.6	2.61
	39	4.2	1.27	5.0	1.60	5.9	2.02	6.2	2.28	6.7	2.45	7.1	2.70	7.3	2.70
	42	4.2	1.35	5.0	1.69	5.9	2.11	6.2	2.36	6.7	2.61	7.0	2.78	7.1	2.78
	44	4.2	1.43	5.0	1.77	5.9	2.28	6.2	2.53	6.7	2.78	6.9	2.87	7.0	2.87
	46	4.2	1.52	5.0	1.94	5.9	2.36	6.2	2.61	6.7	2.95	6.8	2.95	7.0	2.95
90%	10	4.0	0.59	4.8	0.76	5.6	0.84	6.1	0.93	6.4	1.01	7.2	1.18	8.0	1.27
	12	4.0	0.59	4.8	0.76	5.6	0.84	6.1	0.93	6.4	1.01	7.1	1.18	8.0	1.35
	14	4.0	0.59	4.8	0.76	5.6	0.93	6.1	0.93	6.4	1.01	7.1	1.18	8.0	1.35
	16	4.0	0.67	4.8	0.76	5.6	0.93	6.0	1.01	6.4	1.10	7.1	1.18	8.0	1.35
	18	4.0	0.67	4.8	0.76	5.6	0.93	6.0	1.01	6.3	1.10	7.1	1.27	8.0	1.43
	20	4.0	0.67	4.8	0.76	5.6	0.93	6.0	1.01	6.3	1.10	7.1	1.35	8.0	1.52
	21	4.0	0.67	4.8	0.84	5.6	0.93	6.0	1.10	6.3	1.18	7.1	1.35	8.0	1.60
	23	4.0	0.67	4.8	0.84	5.6	1.01	6.0	1.10	6.3	1.27	7.1	1.43	7.9	1.69
	25	4.0	0.67	4.8	0.93	5.6	1.10	6.0	1.18	6.3	1.35	7.1	1.60	7.9	1.86
	27	4.0	0.76	4.8	0.93	5.5	1.18	6.0	1.27	6.3	1.43	7.1	1.69	7.9	1.94
	29	4.0	0.84	4.8	1.01	5.5	1.27	6.0	1.35	6.3	1.52	7.1	1.77	7.9	2.11
	31	4.0	0.84	4.8	1.10	5.5	1.35	6.0	1.52	6.3	1.60	7.1	1.94	7.9	2.28
	33	4.0	0.93	4.8	1.18	5.5	1.43	6.0	1.60	6.3	1.77	7.1	2.02	7.9	2.45
	35	4.0	1.01	4.8	1.27	5.5	1.52	6.0	1.69	6.3	1.86	7.0	2.19	7.7	2.53
	37	3.9	1.01	4.7	1.35	5.4	1.60	5.8	1.77	6.2	1.94	6.9	2.36	7.4	2.61
	39	3.8	1.10	4.6	1.43	5.3	1.69	5.6	1.94	6.0	2.11	6.7	2.53	7.1	2.70
	42	3.8	1.18	4.6	1.52	5.3	1.86	5.6	2.02	6.0	2.19	6.7	2.70	7.0	2.78
	44	3.8	1.18	4.6	1.60	5.3	1.94	5.6	2.11	6.0	2.36	6.7	2.78	6.9	2.87
	46	3.8	1.27	4.6	1.69	5.3	2.02	5.6	2.28	6.0	2.45	6.7	2.95	6.8	2.95
80%	10	3.6	0.51	4.3	0.67	5.0	0.76	5.4	0.84	5.7	0.84	6.4	1.01	7.1	1.10
	12	3.6	0.51	4.3	0.67	5.0	0.76	5.4	0.84	5.7	0.93	6.4	1.01	7.1	1.18
	14	3.6	0.59	4.3	0.67	5.0	0.76	5.4	0.84	5.7	0.93	6.4	1.01	7.1	1.18
	16	3.6	0.59	4.3	0.67	5.0	0.76	5.4	0.84	5.7	0.93	6.4	1.10	7.1	1.18
	18	3.6	0.59	4.3	0.67	5.0	0.84	5.4	0.84	5.7	0.93	6.3	1.10	7.1	1.18
	20	3.6	0.59	4.3	0.67	5.0	0.84	5.4	0.93	5.7	0.93	6.3	1.10	7.0	1.27
	21	3.6	0.59	4.3	0.67	5.0	0.84	5.4	0.93	5.6	1.01	6.3	1.18	7.0	1.35
	23	3.6	0.59	4.3	0.76	5.0	0.84	5.3	0.93	5.6	1.01	6.3	1.27	7.0	1.43
	25	3.6	0.59	4.3	0.76	5.0	0.93	5.3	1.01	5.6	1.10	6.3	1.35	7.0	1.52
	27	3.6	0.67	4.3	0.84	4.9	1.01	5.3	1.10	5.6	1.18	6.3	1.43	7.0	1.69
	29	3.6	0.67	4.3	0.84	4.9	1.10	5.3	1.18	5.6	1.27	6.3	1.52	7.0	1.77
	31	3.6	0.76	4.2	0.93	4.9	1.10	5.3	1.27	5.6	1.35	6.3	1.60	7.0	1.86
	33	3.6	0.76	4.2	1.01	4.9	1.18	5.3	1.35	5.6	1.43	6.3	1.69	7.0	2.02
	35	3.6	0.84	4.2	1.01	4.9	1.27	5.3	1.43	5.6	1.52	6.3	1.86	7.0	2.11
	37	3.4	0.93	4.1	1.10	4.8	1.35	5.1	1.52	5.5	1.69	6.2	1.94	6.8	2.28
	39	3.3	0.93	4.0	1.18	4.7	1.43	5.0	1.60	5.4	1.77	6.0	2.11	6.7	2.45
	42	3.3	1.01	4.0	1.27	4.7	1.52	5.0	1.69	5.4	1.86	6.0	2.19	6.7	2.61
	44	3.3	1.01	4.0	1.35	4.7	1.60	5.0	1.77	5.4	1.94	6.0	2.36	6.7	2.78
	46	3.3	1.10	4.0	1.35	4.7	1.69	5.0	1.86	5.4	2.02	6.0	2.45	6.7	2.87

2. Outdoor Units

2-8. Capacity table (A2A)

AE066MXTPEH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	10	3.2	0.51	3.8	0.59	4.4	0.67	4.7	0.67	5.0	0.76	5.6	0.84	6.2	0.93
	12	3.2	0.51	3.8	0.59	4.4	0.67	4.7	0.67	5.0	0.76	5.6	0.84	6.2	1.01
	14	3.2	0.51	3.8	0.59	4.4	0.67	4.7	0.76	5.0	0.76	5.6	0.93	6.2	1.01
	16	3.2	0.51	3.8	0.59	4.4	0.67	4.7	0.76	5.0	0.76	5.5	0.93	6.2	1.01
	18	3.2	0.51	3.8	0.59	4.4	0.67	4.7	0.76	5.0	0.84	5.5	0.93	6.2	1.01
	20	3.2	0.51	3.8	0.59	4.4	0.67	4.7	0.76	4.9	0.84	5.5	0.93	6.2	1.10
	21	3.2	0.51	3.8	0.59	4.4	0.76	4.7	0.76	4.9	0.84	5.5	0.93	6.2	1.10
	23	3.2	0.51	3.8	0.59	4.3	0.76	4.7	0.84	4.9	0.84	5.5	1.01	6.2	1.18
	25	3.2	0.51	3.8	0.67	4.3	0.76	4.7	0.84	4.9	0.93	5.5	1.10	6.2	1.27
	27	3.2	0.59	3.8	0.67	4.3	0.84	4.7	0.93	4.9	1.01	5.5	1.18	6.2	1.35
	29	3.2	0.59	3.7	0.76	4.3	0.93	4.7	1.01	4.9	1.10	5.5	1.27	6.2	1.43
	31	3.2	0.67	3.7	0.76	4.3	0.93	4.7	1.01	4.9	1.10	5.5	1.35	6.2	1.52
	33	3.2	0.67	3.7	0.84	4.3	1.01	4.7	1.10	4.9	1.18	5.5	1.43	6.2	1.69
	35	3.1	0.67	3.7	0.84	4.3	1.10	4.7	1.18	4.9	1.27	5.5	1.52	6.2	1.77
	37	3.0	0.76	3.6	0.93	4.2	1.18	4.5	1.27	4.8	1.35	5.4	1.60	6.0	1.86
	39	3.0	0.76	3.5	1.01	4.1	1.18	4.4	1.35	4.7	1.43	5.3	1.69	5.8	2.02
	42	3.0	0.84	3.5	1.01	4.1	1.27	4.4	1.43	4.7	1.52	5.3	1.77	5.8	2.11
	44	3.0	0.84	3.5	1.10	4.1	1.35	4.4	1.52	4.7	1.60	5.3	1.94	5.8	2.19
	46	3.0	0.93	3.5	1.18	4.1	1.43	4.4	1.60	4.7	1.69	5.3	2.02	5.8	2.36
60%	10	2.7	0.42	3.3	0.51	3.8	0.59	4.0	0.59	4.3	0.67	4.8	0.76	5.3	0.84
	12	2.7	0.42	3.3	0.51	3.8	0.59	4.0	0.59	4.3	0.67	4.8	0.76	5.3	0.84
	14	2.7	0.42	3.3	0.51	3.8	0.59	4.0	0.59	4.3	0.67	4.8	0.76	5.3	0.84
	16	2.7	0.42	3.3	0.51	3.8	0.59	4.0	0.59	4.3	0.67	4.8	0.76	5.3	0.84
	18	2.7	0.42	3.3	0.51	3.8	0.59	4.0	0.67	4.2	0.67	4.8	0.76	5.3	0.84
	20	2.7	0.42	3.3	0.51	3.7	0.59	4.0	0.67	4.2	0.67	4.8	0.76	5.3	0.93
	21	2.7	0.42	3.3	0.51	3.7	0.59	4.0	0.67	4.2	0.67	4.8	0.76	5.3	0.93
	23	2.7	0.42	3.3	0.51	3.7	0.59	4.0	0.67	4.2	0.76	4.8	0.84	5.3	0.93
	25	2.7	0.42	3.2	0.51	3.7	0.67	4.0	0.67	4.2	0.76	4.8	0.93	5.3	1.01
	27	2.7	0.51	3.2	0.59	3.7	0.67	4.0	0.76	4.2	0.84	4.8	0.93	5.3	1.10
	29	2.7	0.51	3.2	0.59	3.7	0.76	4.0	0.76	4.2	0.84	4.8	1.01	5.3	1.18
	31	2.7	0.51	3.2	0.67	3.7	0.76	4.0	0.84	4.2	0.93	4.8	1.10	5.3	1.27
	33	2.6	0.59	3.2	0.67	3.7	0.84	4.0	0.93	4.2	1.01	4.8	1.18	5.3	1.35
	35	2.6	0.59	3.2	0.76	3.7	0.84	4.0	0.93	4.2	1.01	4.8	1.18	5.3	1.43
	37	2.6	0.67	3.1	0.76	3.6	0.93	3.9	1.01	4.1	1.10	4.6	1.27	5.1	1.52
	39	2.6	0.67	3.0	0.84	3.5	1.01	3.8	1.10	4.0	1.18	4.5	1.35	5.0	1.60
	42	2.6	0.67	3.0	0.84	3.5	1.01	3.8	1.10	4.0	1.27	4.5	1.43	5.0	1.69
	44	2.6	0.76	3.0	0.93	3.5	1.10	3.8	1.18	4.0	1.27	4.5	1.52	5.0	1.77
	46	2.6	0.76	3.0	0.93	3.5	1.18	3.8	1.27	4.0	1.35	4.5	1.60	5.0	1.86
50%	10	2.3	0.34	2.7	0.42	3.2	0.51	3.3	0.51	3.6	0.51	4.0	0.59	4.4	0.67
	12	2.3	0.34	2.7	0.42	3.2	0.51	3.3	0.51	3.5	0.51	4.0	0.59	4.4	0.67
	14	2.3	0.34	2.7	0.42	3.2	0.51	3.3	0.51	3.5	0.51	4.0	0.59	4.4	0.67
	16	2.3	0.34	2.7	0.42	3.2	0.51	3.3	0.51	3.5	0.59	4.0	0.59	4.4	0.67
	18	2.3	0.34	2.7	0.42	3.1	0.51	3.3	0.51	3.5	0.59	4.0	0.67	4.4	0.67
	20	2.3	0.34	2.7	0.42	3.1	0.51	3.3	0.51	3.5	0.59	4.0	0.67	4.4	0.76
	21	2.3	0.34	2.6	0.42	3.1	0.51	3.3	0.51	3.5	0.59	4.0	0.67	4.4	0.76
	23	2.3	0.42	2.6	0.42	3.1	0.51	3.3	0.59	3.5	0.59	4.0	0.67	4.4	0.76
	25	2.2	0.42	2.6	0.42	3.1	0.51	3.3	0.59	3.5	0.59	4.0	0.67	4.4	0.76
	27	2.2	0.42	2.6	0.51	3.1	0.59	3.3	0.59	3.5	0.67	4.0	0.76	4.4	0.84
	29	2.2	0.42	2.6	0.51	3.1	0.59	3.3	0.67	3.5	0.67	4.0	0.76	4.4	0.93
	31	2.2	0.42	2.6	0.51	3.1	0.59	3.3	0.67	3.5	0.76	4.0	0.84	4.4	0.93
	33	2.2	0.51	2.6	0.59	3.1	0.67	3.3	0.76	3.5	0.76	4.0	0.93	4.4	1.01
	35	2.2	0.51	2.6	0.59	3.1	0.67	3.3	0.76	3.5	0.84	4.0	0.93	4.4	1.10
	37	2.2	0.51	2.6	0.59	3.0	0.76	3.2	0.84	3.4	0.84	3.8	1.01	4.2	1.18
	39	2.1	0.59	2.6	0.67	2.9	0.76	3.2	0.84	3.3	0.93	3.8	1.10	4.1	1.27
	42	2.1	0.59	2.6	0.67	2.9	0.84	3.2	0.93	3.3	1.01	3.8	1.10	4.1	1.27
	44	2.1	0.59	2.6	0.76	2.9	0.84	3.2	0.93	3.3	1.01	3.8	1.18	4.1	1.35
	46	2.1	0.67	2.6	0.76	2.9	0.93	3.2	1.01	3.3	1.10	3.8	1.27	4.1	1.43

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPEH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	10	6.2	0.97	7.3	1.08	8.6	1.29	9.1	1.40	9.7	1.51	10.9	1.72	12.0	1.94
	12	6.2	0.97	7.3	1.18	8.6	1.40	9.1	1.51	9.7	1.61	10.9	1.83	12.0	2.04
	14	6.2	0.97	7.3	1.18	8.6	1.40	9.1	1.51	9.7	1.61	10.9	1.83	12.0	2.04
	16	6.2	0.97	7.3	1.18	8.6	1.40	9.1	1.51	9.7	1.61	10.9	1.83	12.0	2.15
	18	6.2	0.97	7.3	1.18	8.6	1.40	9.1	1.51	9.7	1.61	10.9	1.94	12.0	2.26
	20	6.2	0.97	7.3	1.18	8.6	1.51	9.1	1.61	9.7	1.83	10.9	2.15	12.0	2.47
	21	6.1	1.08	7.3	1.29	8.6	1.51	9.1	1.72	9.7	1.83	10.9	2.15	12.0	2.58
	23	6.1	1.08	7.3	1.29	8.6	1.61	9.1	1.83	9.7	1.94	10.8	2.37	11.9	2.69
	25	6.1	1.08	7.3	1.40	8.6	1.72	9.1	1.94	9.7	2.15	10.8	2.58	11.7	2.80
	27	6.1	1.18	7.3	1.51	8.4	1.83	9.0	2.04	9.7	2.26	10.8	2.69	11.6	3.01
	29	6.1	1.29	7.3	1.61	8.4	2.04	9.0	2.15	9.6	2.47	10.8	2.91	11.4	3.12
	31	6.1	1.40	7.3	1.72	8.4	2.15	9.0	2.37	9.6	2.58	10.8	3.12	11.3	3.23
	33	6.1	1.40	7.3	1.83	8.4	2.26	9.0	2.47	9.6	2.80	10.8	3.34	10.9	3.34
	35	6.1	1.51	7.2	1.94	8.4	2.47	9.0	2.69	9.6	2.91	10.6	3.44	10.8	3.44
	37	5.9	1.61	7.0	2.04	8.2	2.58	8.8	2.91	9.2	3.12	10.0	3.55	10.2	3.55
	39	5.7	1.72	6.9	2.15	8.0	2.80	8.6	3.01	9.1	3.34	9.7	3.66	9.9	3.66
	42	5.7	1.83	6.9	2.37	8.0	2.91	8.6	3.23	9.1	3.55	9.6	3.77	9.8	3.77
	44	5.7	1.94	6.9	2.47	8.0	3.12	8.6	3.44	9.1	3.77	9.3	3.87	9.7	3.98
	46	5.7	2.04	6.9	2.58	8.0	3.23	8.6	3.66	9.1	3.98	9.2	3.98	9.5	4.09
90%	10	5.5	0.86	6.6	0.97	7.7	1.18	8.2	1.29	8.8	1.40	9.8	1.51	10.9	1.72
	12	5.5	0.86	6.6	0.97	7.7	1.18	8.2	1.29	8.7	1.40	9.8	1.61	10.9	1.83
	14	5.5	0.86	6.6	1.08	7.7	1.18	8.2	1.29	8.7	1.40	9.8	1.61	10.9	1.83
	16	5.5	0.86	6.6	1.08	7.7	1.29	8.2	1.29	8.7	1.40	9.8	1.61	10.9	1.83
	18	5.5	0.86	6.6	1.08	7.7	1.29	8.2	1.40	8.7	1.51	9.8	1.72	10.9	1.94
	20	5.5	0.86	6.6	1.08	7.7	1.29	8.2	1.40	8.7	1.51	9.8	1.83	10.9	2.15
	21	5.5	0.86	6.5	1.08	7.7	1.29	8.2	1.40	8.7	1.61	9.7	1.83	10.9	2.15
	23	5.5	0.97	6.5	1.18	7.7	1.40	8.2	1.51	8.7	1.72	9.7	2.04	10.8	2.37
	25	5.5	0.97	6.5	1.18	7.7	1.51	8.2	1.61	8.7	1.83	9.7	2.15	10.8	2.47
	27	5.5	1.08	6.5	1.29	7.7	1.61	8.2	1.72	8.7	1.94	9.7	2.26	10.8	2.69
	29	5.5	1.08	6.5	1.40	7.7	1.72	8.2	1.94	8.7	2.04	9.7	2.47	10.8	2.91
	31	5.5	1.18	6.5	1.51	7.7	1.83	8.1	2.04	8.7	2.26	9.7	2.58	10.8	3.12
	33	5.5	1.29	6.5	1.61	7.5	1.94	8.1	2.15	8.7	2.37	9.7	2.80	10.8	3.34
	35	5.5	1.29	6.5	1.72	7.5	2.04	8.1	2.26	8.6	2.47	9.7	3.01	10.6	3.44
	37	5.3	1.40	6.3	1.83	7.3	2.26	7.9	2.47	8.3	2.69	9.3	3.23	10.0	3.55
	39	5.2	1.51	6.2	1.94	7.2	2.37	7.8	2.58	8.2	2.80	9.1	3.44	9.7	3.66
	42	5.2	1.61	6.2	2.04	7.2	2.47	7.8	2.80	8.2	3.01	9.1	3.66	9.6	3.77
	44	5.2	1.61	6.2	2.15	7.2	2.58	7.8	2.91	8.2	3.23	9.1	3.87	9.3	3.87
	46	5.2	1.72	6.2	2.26	7.2	2.80	7.8	3.01	8.2	3.34	9.1	4.09	9.2	3.98
80%	10	5.0	0.75	5.9	0.86	6.9	1.08	7.3	1.08	7.8	1.18	8.8	1.40	9.7	1.51
	12	5.0	0.75	5.9	0.86	6.9	1.08	7.3	1.18	7.8	1.18	8.7	1.40	9.7	1.61
	14	5.0	0.75	5.9	0.86	6.9	1.08	7.3	1.18	7.8	1.18	8.7	1.40	9.7	1.61
	16	5.0	0.75	5.9	0.97	6.9	1.08	7.3	1.18	7.8	1.29	8.7	1.40	9.7	1.61
	18	5.0	0.75	5.9	0.97	6.9	1.08	7.3	1.18	7.8	1.29	8.7	1.51	9.7	1.61
	20	5.0	0.75	5.9	0.97	6.8	1.18	7.3	1.18	7.8	1.29	8.7	1.51	9.7	1.72
	21	5.0	0.75	5.9	0.97	6.8	1.18	7.3	1.18	7.8	1.29	8.7	1.61	9.7	1.83
	23	5.0	0.86	5.9	0.97	6.8	1.18	7.3	1.29	7.8	1.40	8.7	1.72	9.7	1.94
	25	5.0	0.86	5.9	1.08	6.8	1.29	7.2	1.40	7.8	1.51	8.7	1.83	9.7	2.15
	27	4.8	0.86	5.9	1.08	6.8	1.40	7.2	1.51	7.8	1.61	8.7	1.94	9.7	2.26
	29	4.8	0.97	5.9	1.18	6.8	1.51	7.2	1.61	7.7	1.72	8.7	2.04	9.6	2.37
	31	4.8	0.97	5.9	1.29	6.8	1.51	7.2	1.72	7.7	1.83	8.7	2.15	9.6	2.58
	33	4.8	1.08	5.9	1.40	6.8	1.61	7.2	1.83	7.7	1.94	8.7	2.37	9.6	2.80
	35	4.8	1.18	5.9	1.40	6.8	1.72	7.2	1.94	7.7	2.15	8.6	2.47	9.6	2.91
	37	4.7	1.18	5.6	1.51	6.5	1.83	7.0	2.04	7.4	2.26	8.3	2.69	9.2	3.12
	39	4.6	1.29	5.5	1.61	6.4	1.94	6.9	2.15	7.3	2.37	8.2	2.80	9.1	3.34
	42	4.6	1.40	5.5	1.72	6.4	2.04	6.9	2.37	7.3	2.58	8.2	3.01	9.1	3.55
	44	4.6	1.40	5.5	1.83	6.4	2.26	6.9	2.47	7.3	2.69	8.2	3.23	9.1	3.77
	46	4.6	1.51	5.5	1.94	6.4	2.37	6.9	2.58	7.3	2.80	8.2	3.34	9.1	3.98

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPEH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	10	4.3	0.65	5.2	0.75	6.0	0.86	6.4	0.97	6.9	1.08	7.7	1.18	8.4	1.29
	12	4.3	0.65	5.2	0.75	6.0	0.86	6.4	0.97	6.8	1.08	7.7	1.18	8.4	1.29
	14	4.3	0.65	5.2	0.75	6.0	0.97	6.4	0.97	6.8	1.08	7.7	1.18	8.4	1.40
	16	4.3	0.65	5.2	0.75	6.0	0.97	6.4	0.97	6.8	1.08	7.7	1.18	8.4	1.40
	18	4.3	0.65	5.2	0.86	6.0	0.97	6.4	1.08	6.8	1.08	7.7	1.29	8.4	1.40
	20	4.3	0.65	5.2	0.86	6.0	0.97	6.4	1.08	6.8	1.18	7.7	1.29	8.4	1.51
	21	4.3	0.75	5.1	0.86	6.0	0.97	6.4	1.08	6.8	1.18	7.7	1.29	8.4	1.51
	23	4.3	0.75	5.1	0.86	6.0	0.97	6.3	1.08	6.8	1.18	7.5	1.40	8.4	1.61
	25	4.3	0.75	5.1	0.86	6.0	1.08	6.3	1.18	6.8	1.29	7.5	1.51	8.4	1.72
	27	4.3	0.75	5.1	0.97	6.0	1.18	6.3	1.29	6.8	1.40	7.5	1.61	8.4	1.83
	29	4.3	0.86	5.1	0.97	6.0	1.18	6.3	1.29	6.8	1.40	7.5	1.72	8.4	1.94
	31	4.3	0.86	5.1	1.08	6.0	1.29	6.3	1.40	6.8	1.51	7.5	1.83	8.4	2.15
	33	4.3	0.97	5.1	1.18	6.0	1.40	6.3	1.51	6.8	1.61	7.5	1.94	8.4	2.26
	35	4.3	0.97	5.1	1.18	5.9	1.51	6.3	1.61	6.8	1.72	7.5	2.04	8.3	2.37
	37	4.2	1.08	5.0	1.29	5.7	1.51	6.1	1.72	6.5	1.83	7.3	2.15	8.1	2.58
	39	4.1	1.08	4.8	1.40	5.6	1.61	6.0	1.83	6.4	1.94	7.2	2.37	8.0	2.69
	42	4.1	1.18	4.8	1.40	5.6	1.72	6.0	1.94	6.4	2.04	7.2	2.47	8.0	2.91
	44	4.1	1.18	4.8	1.51	5.6	1.83	6.0	2.04	6.4	2.15	7.2	2.58	8.0	3.01
	46	4.1	1.29	4.8	1.61	5.6	1.94	6.0	2.15	6.4	2.37	7.2	2.80	8.0	3.23
60%	10	3.7	0.54	4.4	0.65	5.2	0.75	5.5	0.86	5.9	0.86	6.5	0.97	7.3	1.08
	12	3.7	0.54	4.4	0.65	5.1	0.75	5.5	0.86	5.9	0.86	6.5	0.97	7.2	1.08
	14	3.7	0.54	4.4	0.65	5.1	0.75	5.5	0.86	5.9	0.86	6.5	1.08	7.2	1.18
	16	3.7	0.54	4.4	0.65	5.1	0.75	5.5	0.86	5.9	0.97	6.5	1.08	7.2	1.18
	18	3.7	0.65	4.4	0.75	5.1	0.86	5.5	0.86	5.9	0.97	6.5	1.08	7.2	1.18
	20	3.7	0.65	4.4	0.75	5.1	0.86	5.4	0.86	5.9	0.97	6.5	1.08	7.2	1.18
	21	3.7	0.65	4.4	0.75	5.1	0.86	5.4	0.86	5.9	0.97	6.5	1.08	7.2	1.18
	23	3.7	0.65	4.4	0.75	5.1	0.86	5.4	0.97	5.9	0.97	6.5	1.18	7.2	1.29
	25	3.7	0.65	4.4	0.75	5.1	0.86	5.4	0.97	5.9	1.08	6.5	1.18	7.2	1.40
	27	3.7	0.65	4.4	0.75	5.1	0.97	5.4	1.08	5.7	1.08	6.5	1.29	7.2	1.51
	29	3.7	0.65	4.4	0.86	5.1	0.97	5.4	1.08	5.7	1.18	6.5	1.40	7.2	1.61
	31	3.7	0.75	4.4	0.86	5.1	1.08	5.4	1.18	5.7	1.29	6.5	1.51	7.2	1.72
	33	3.7	0.75	4.4	0.97	5.1	1.18	5.4	1.18	5.7	1.29	6.5	1.51	7.2	1.83
	35	3.6	0.86	4.4	0.97	5.1	1.18	5.4	1.29	5.7	1.40	6.4	1.61	7.2	1.94
	37	3.5	0.86	4.2	1.08	5.0	1.29	5.3	1.40	5.6	1.51	6.3	1.72	7.0	2.04
	39	3.5	0.97	4.2	1.08	4.8	1.40	5.2	1.51	5.5	1.61	6.1	1.83	6.8	2.15
	42	3.5	0.97	4.2	1.18	4.8	1.40	5.2	1.51	5.5	1.72	6.1	1.94	6.8	2.26
	44	3.5	0.97	4.2	1.29	4.8	1.51	5.2	1.61	5.5	1.83	6.1	2.04	6.8	2.47
	46	3.5	1.08	4.2	1.29	4.8	1.61	5.2	1.72	5.5	1.83	6.1	2.15	6.8	2.58
50%	10	3.0	0.43	3.7	0.54	4.3	0.65	4.6	0.65	4.8	0.75	5.5	0.86	6.1	0.86
	12	3.0	0.54	3.7	0.54	4.3	0.65	4.6	0.65	4.8	0.75	5.4	0.86	6.1	0.97
	14	3.0	0.54	3.7	0.54	4.3	0.65	4.6	0.75	4.8	0.75	5.4	0.86	6.1	0.97
	16	3.0	0.54	3.7	0.54	4.3	0.65	4.5	0.75	4.8	0.75	5.4	0.86	6.1	0.97
	18	3.0	0.54	3.7	0.54	4.3	0.65	4.5	0.75	4.8	0.75	5.4	0.86	6.1	0.97
	20	3.0	0.54	3.7	0.65	4.3	0.65	4.5	0.75	4.8	0.75	5.4	0.86	6.1	0.97
	21	3.0	0.54	3.7	0.65	4.3	0.65	4.5	0.75	4.8	0.75	5.4	0.86	6.0	0.97
	23	3.0	0.54	3.6	0.65	4.3	0.75	4.5	0.75	4.8	0.86	5.4	0.86	6.0	1.08
	25	3.0	0.54	3.6	0.65	4.3	0.75	4.5	0.75	4.8	0.86	5.4	0.97	6.0	1.08
	27	3.0	0.54	3.6	0.65	4.3	0.75	4.5	0.86	4.8	0.86	5.4	0.97	6.0	1.18
	29	3.0	0.54	3.6	0.65	4.3	0.86	4.5	0.86	4.8	0.97	5.4	1.08	6.0	1.18
	31	3.0	0.65	3.6	0.75	4.3	0.86	4.5	0.97	4.8	0.97	5.4	1.18	6.0	1.29
	33	3.0	0.65	3.6	0.75	4.3	0.86	4.5	0.97	4.8	1.08	5.4	1.18	6.0	1.40
	35	3.0	0.65	3.6	0.86	4.2	0.97	4.5	1.08	4.8	1.08	5.4	1.29	6.0	1.51
	37	2.9	0.75	3.5	0.86	4.1	0.97	4.4	1.08	4.6	1.18	5.2	1.40	5.7	1.61
	39	2.9	0.75	3.5	0.86	4.1	1.08	4.3	1.18	4.5	1.29	5.1	1.51	5.6	1.72
	42	2.9	0.75	3.5	0.97	4.1	1.18	4.3	1.18	4.5	1.29	5.1	1.51	5.6	1.83
	44	2.9	0.86	3.5	0.97	4.1	1.18	4.3	1.29	4.5	1.40	5.1	1.61	5.6	1.83
	46	2.9	0.86	3.5	1.08	4.1	1.29	4.3	1.40	4.5	1.51	5.1	1.72	5.6	1.94

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPGH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	10	6.2	0.99	7.3	1.10	8.6	1.32	9.1	1.43	9.7	1.54	10.9	1.76	12.0	1.98
	12	6.2	0.99	7.3	1.21	8.6	1.43	9.1	1.54	9.7	1.65	10.9	1.87	12.0	2.09
	14	6.2	0.99	7.3	1.21	8.6	1.43	9.1	1.54	9.7	1.65	10.9	1.87	12.0	2.09
	16	6.2	0.99	7.3	1.21	8.6	1.43	9.1	1.54	9.7	1.65	10.9	1.87	12.0	2.20
	18	6.2	0.99	7.3	1.21	8.6	1.43	9.1	1.54	9.7	1.65	10.9	1.98	12.0	2.31
	20	6.2	0.99	7.3	1.21	8.6	1.54	9.1	1.65	9.7	1.87	10.9	2.20	12.0	2.53
	21	6.1	1.10	7.3	1.32	8.6	1.54	9.1	1.76	9.7	1.87	10.9	2.20	12.0	2.64
	23	6.1	1.10	7.3	1.32	8.6	1.65	9.1	1.87	9.7	1.98	10.8	2.42	11.9	2.75
	25	6.1	1.10	7.3	1.43	8.6	1.76	9.1	1.98	9.7	2.20	10.8	2.64	11.7	2.86
	27	6.1	1.21	7.3	1.54	8.4	1.87	9.0	2.09	9.7	2.31	10.8	2.75	11.6	3.08
	29	6.1	1.32	7.3	1.65	8.4	2.09	9.0	2.20	9.6	2.53	10.8	2.97	11.4	3.19
	31	6.1	1.43	7.3	1.76	8.4	2.20	9.0	2.42	9.6	2.64	10.8	3.19	11.3	3.30
	33	6.1	1.43	7.3	1.87	8.4	2.31	9.0	2.53	9.6	2.86	10.8	3.41	10.9	3.41
	35	6.1	1.54	7.2	1.98	8.4	2.53	9.0	2.75	9.6	2.97	10.6	3.52	10.8	3.52
	37	5.9	1.65	7.0	2.09	8.2	2.64	8.8	2.97	9.2	3.19	10.0	3.63	10.2	3.63
	39	5.7	1.76	6.9	2.20	8.0	2.86	8.6	3.08	9.1	3.41	9.7	3.74	9.9	3.74
	42	5.7	1.87	6.9	2.42	8.0	2.97	8.6	3.30	9.1	3.63	9.6	3.85	9.8	3.85
	44	5.7	1.98	6.9	2.53	8.0	3.19	8.6	3.52	9.1	3.85	9.3	3.96	9.7	4.07
	46	5.7	2.09	6.9	2.64	8.0	3.30	8.6	3.74	9.1	4.07	9.2	4.07	9.5	4.18
90%	10	5.5	0.88	6.6	0.99	7.7	1.21	8.2	1.32	8.8	1.43	9.8	1.54	10.9	1.76
	12	5.5	0.88	6.6	0.99	7.7	1.21	8.2	1.32	8.7	1.43	9.8	1.65	10.9	1.87
	14	5.5	0.88	6.6	1.10	7.7	1.21	8.2	1.32	8.7	1.43	9.8	1.65	10.9	1.87
	16	5.5	0.88	6.6	1.10	7.7	1.32	8.2	1.32	8.7	1.43	9.8	1.65	10.9	1.87
	18	5.5	0.88	6.6	1.10	7.7	1.32	8.2	1.43	8.7	1.54	9.8	1.76	10.9	1.98
	20	5.5	0.88	6.6	1.10	7.7	1.32	8.2	1.43	8.7	1.54	9.8	1.87	10.9	2.20
	21	5.5	0.88	6.5	1.10	7.7	1.32	8.2	1.43	8.7	1.65	9.7	1.87	10.9	2.20
	23	5.5	0.99	6.5	1.21	7.7	1.43	8.2	1.54	8.7	1.76	9.7	2.09	10.8	2.42
	25	5.5	0.99	6.5	1.21	7.7	1.54	8.2	1.65	8.7	1.87	9.7	2.20	10.8	2.53
	27	5.5	1.10	6.5	1.32	7.7	1.65	8.2	1.76	8.7	1.98	9.7	2.31	10.8	2.75
	29	5.5	1.10	6.5	1.43	7.7	1.76	8.2	1.98	8.7	2.09	9.7	2.53	10.8	2.97
	31	5.5	1.21	6.5	1.54	7.7	1.87	8.1	2.09	8.7	2.31	9.7	2.64	10.8	3.19
	33	5.5	1.32	6.5	1.65	7.5	1.98	8.1	2.20	8.7	2.42	9.7	2.86	10.8	3.41
	35	5.5	1.32	6.5	1.76	7.5	2.09	8.1	2.31	8.6	2.53	9.7	3.08	10.6	3.52
	37	5.3	1.43	6.3	1.87	7.3	2.31	7.9	2.53	8.3	2.75	9.3	3.30	10.0	3.63
	39	5.2	1.54	6.2	1.98	7.2	2.42	7.8	2.64	8.2	2.86	9.1	3.52	9.7	3.74
	42	5.2	1.65	6.2	2.09	7.2	2.53	7.8	2.86	8.2	3.08	9.1	3.74	9.6	3.85
	44	5.2	1.65	6.2	2.20	7.2	2.64	7.8	2.97	8.2	3.30	9.1	3.96	9.3	3.96
	46	5.2	1.76	6.2	2.31	7.2	2.86	7.8	3.08	8.2	3.41	9.1	4.18	9.2	4.07
80%	10	5.0	0.77	5.9	0.88	6.9	1.10	7.3	1.10	7.8	1.21	8.8	1.43	9.7	1.54
	12	5.0	0.77	5.9	0.88	6.9	1.10	7.3	1.21	7.8	1.21	8.7	1.43	9.7	1.65
	14	5.0	0.77	5.9	0.88	6.9	1.10	7.3	1.21	7.8	1.21	8.7	1.43	9.7	1.65
	16	5.0	0.77	5.9	0.99	6.9	1.10	7.3	1.21	7.8	1.32	8.7	1.43	9.7	1.65
	18	5.0	0.77	5.9	0.99	6.9	1.10	7.3	1.21	7.8	1.32	8.7	1.54	9.7	1.65
	20	5.0	0.77	5.9	0.99	6.8	1.21	7.3	1.21	7.8	1.32	8.7	1.54	9.7	1.76
	21	5.0	0.77	5.9	0.99	6.8	1.21	7.3	1.21	7.8	1.32	8.7	1.65	9.7	1.87
	23	5.0	0.88	5.9	0.99	6.8	1.21	7.3	1.32	7.8	1.43	8.7	1.76	9.7	1.98
	25	5.0	0.88	5.9	1.10	6.8	1.32	7.2	1.43	7.8	1.54	8.7	1.87	9.7	2.20
	27	4.8	0.88	5.9	1.10	6.8	1.43	7.2	1.54	7.8	1.65	8.7	1.98	9.7	2.31
	29	4.8	0.99	5.9	1.21	6.8	1.54	7.2	1.65	7.7	1.76	8.7	2.09	9.6	2.42
	31	4.8	0.99	5.9	1.32	6.8	1.54	7.2	1.76	7.7	1.87	8.7	2.20	9.6	2.64
	33	4.8	1.10	5.9	1.43	6.8	1.65	7.2	1.87	7.7	1.98	8.7	2.42	9.6	2.86
	35	4.8	1.21	5.9	1.43	6.8	1.76	7.2	1.98	7.7	2.20	8.6	2.53	9.6	2.97
	37	4.7	1.21	5.6	1.54	6.5	1.87	7.0	2.09	7.4	2.31	8.3	2.75	9.2	3.19
	39	4.6	1.32	5.5	1.65	6.4	1.98	6.9	2.20	7.3	2.42	8.2	2.86	9.1	3.41
	42	4.6	1.43	5.5	1.76	6.4	2.09	6.9	2.42	7.3	2.64	8.2	3.08	9.1	3.63
	44	4.6	1.43	5.5	1.87	6.4	2.31	6.9	2.53	7.3	2.75	8.2	3.30	9.1	3.85
	46	4.6	1.54	5.5	1.98	6.4	2.42	6.9	2.64	7.3	2.86	8.2	3.41	9.1	4.07

2. Outdoor Units

2-8. Capacity table (A2A)

AE090MXTPGH/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	10	4.3	0.66	5.2	0.77	6.0	0.88	6.4	0.99	6.9	1.10	7.7	1.21	8.4	1.32
	12	4.3	0.66	5.2	0.77	6.0	0.88	6.4	0.99	6.8	1.10	7.7	1.21	8.4	1.32
	14	4.3	0.66	5.2	0.77	6.0	0.99	6.4	0.99	6.8	1.10	7.7	1.21	8.4	1.43
	16	4.3	0.66	5.2	0.77	6.0	0.99	6.4	0.99	6.8	1.10	7.7	1.21	8.4	1.43
	18	4.3	0.66	5.2	0.88	6.0	0.99	6.4	1.10	6.8	1.10	7.7	1.32	8.4	1.43
	20	4.3	0.66	5.2	0.88	6.0	0.99	6.4	1.10	6.8	1.21	7.7	1.32	8.4	1.54
	21	4.3	0.77	5.1	0.88	6.0	0.99	6.4	1.10	6.8	1.21	7.7	1.32	8.4	1.54
	23	4.3	0.77	5.1	0.88	6.0	0.99	6.3	1.10	6.8	1.21	7.5	1.43	8.4	1.65
	25	4.3	0.77	5.1	0.88	6.0	1.10	6.3	1.21	6.8	1.32	7.5	1.54	8.4	1.76
	27	4.3	0.77	5.1	0.99	6.0	1.21	6.3	1.32	6.8	1.43	7.5	1.65	8.4	1.87
	29	4.3	0.88	5.1	0.99	6.0	1.21	6.3	1.32	6.8	1.43	7.5	1.76	8.4	1.98
	31	4.3	0.88	5.1	1.10	6.0	1.32	6.3	1.43	6.8	1.54	7.5	1.87	8.4	2.20
	33	4.3	0.99	5.1	1.21	6.0	1.43	6.3	1.54	6.8	1.65	7.5	1.98	8.4	2.31
	35	4.3	0.99	5.1	1.21	5.9	1.54	6.3	1.65	6.8	1.76	7.5	2.09	8.3	2.42
	37	4.2	1.10	5.0	1.32	5.7	1.54	6.1	1.76	6.5	1.87	7.3	2.20	8.1	2.64
	39	4.1	1.10	4.8	1.43	5.6	1.65	6.0	1.87	6.4	1.98	7.2	2.42	8.0	2.75
	42	4.1	1.21	4.8	1.43	5.6	1.76	6.0	1.98	6.4	2.09	7.2	2.53	8.0	2.97
	44	4.1	1.21	4.8	1.54	5.6	1.87	6.0	2.09	6.4	2.20	7.2	2.64	8.0	3.08
	46	4.1	1.32	4.8	1.65	5.6	1.98	6.0	2.20	6.4	2.42	7.2	2.86	8.0	3.30
60%	10	3.7	0.55	4.4	0.66	5.2	0.77	5.5	0.88	5.9	0.88	6.5	0.99	7.3	1.10
	12	3.7	0.55	4.4	0.66	5.1	0.77	5.5	0.88	5.9	0.88	6.5	0.99	7.2	1.10
	14	3.7	0.55	4.4	0.66	5.1	0.77	5.5	0.88	5.9	0.88	6.5	1.10	7.2	1.21
	16	3.7	0.55	4.4	0.66	5.1	0.77	5.5	0.88	5.9	0.99	6.5	1.10	7.2	1.21
	18	3.7	0.66	4.4	0.77	5.1	0.88	5.5	0.88	5.9	0.99	6.5	1.10	7.2	1.21
	20	3.7	0.66	4.4	0.77	5.1	0.88	5.4	0.88	5.9	0.99	6.5	1.10	7.2	1.21
	21	3.7	0.66	4.4	0.77	5.1	0.88	5.4	0.88	5.9	0.99	6.5	1.10	7.2	1.21
	23	3.7	0.66	4.4	0.77	5.1	0.88	5.4	0.99	5.9	0.99	6.5	1.21	7.2	1.32
	25	3.7	0.66	4.4	0.77	5.1	0.88	5.4	0.99	5.9	1.10	6.5	1.21	7.2	1.43
	27	3.7	0.66	4.4	0.77	5.1	0.99	5.4	1.10	5.7	1.10	6.5	1.32	7.2	1.54
	29	3.7	0.66	4.4	0.88	5.1	0.99	5.4	1.10	5.7	1.21	6.5	1.43	7.2	1.65
	31	3.7	0.77	4.4	0.88	5.1	1.10	5.4	1.21	5.7	1.32	6.5	1.54	7.2	1.76
	33	3.7	0.77	4.4	0.99	5.1	1.21	5.4	1.21	5.7	1.32	6.5	1.54	7.2	1.87
	35	3.6	0.88	4.4	0.99	5.1	1.21	5.4	1.32	5.7	1.43	6.4	1.65	7.2	1.98
	37	3.5	0.88	4.2	1.10	5.0	1.32	5.3	1.43	5.6	1.54	6.3	1.76	7.0	2.09
	39	3.5	0.99	4.2	1.10	4.8	1.43	5.2	1.54	5.5	1.65	6.1	1.87	6.8	2.20
	42	3.5	0.99	4.2	1.21	4.8	1.43	5.2	1.54	5.5	1.76	6.1	1.98	6.8	2.31
	44	3.5	0.99	4.2	1.32	4.8	1.54	5.2	1.65	5.5	1.87	6.1	2.09	6.8	2.53
	46	3.5	1.10	4.2	1.32	4.8	1.65	5.2	1.76	5.5	1.87	6.1	2.20	6.8	2.64
50%	10	3.0	0.44	3.7	0.55	4.3	0.66	4.6	0.66	4.8	0.77	5.5	0.88	6.1	0.88
	12	3.0	0.55	3.7	0.55	4.3	0.66	4.6	0.66	4.8	0.77	5.4	0.88	6.1	0.99
	14	3.0	0.55	3.7	0.55	4.3	0.66	4.6	0.77	4.8	0.77	5.4	0.88	6.1	0.99
	16	3.0	0.55	3.7	0.55	4.3	0.66	4.5	0.77	4.8	0.77	5.4	0.88	6.1	0.99
	18	3.0	0.55	3.7	0.55	4.3	0.66	4.5	0.77	4.8	0.77	5.4	0.88	6.1	0.99
	20	3.0	0.55	3.7	0.66	4.3	0.66	4.5	0.77	4.8	0.77	5.4	0.88	6.1	0.99
	21	3.0	0.55	3.7	0.66	4.3	0.66	4.5	0.77	4.8	0.77	5.4	0.88	6.0	0.99
	23	3.0	0.55	3.6	0.66	4.3	0.77	4.5	0.77	4.8	0.88	5.4	0.88	6.0	1.10
	25	3.0	0.55	3.6	0.66	4.3	0.77	4.5	0.77	4.8	0.88	5.4	0.99	6.0	1.10
	27	3.0	0.55	3.6	0.66	4.3	0.77	4.5	0.88	4.8	0.88	5.4	0.99	6.0	1.21
	29	3.0	0.55	3.6	0.66	4.3	0.88	4.5	0.88	4.8	0.99	5.4	1.10	6.0	1.21
	31	3.0	0.66	3.6	0.77	4.3	0.88	4.5	0.99	4.8	0.99	5.4	1.21	6.0	1.32
	33	3.0	0.66	3.6	0.77	4.3	0.88	4.5	0.99	4.8	1.10	5.4	1.21	6.0	1.43
	35	3.0	0.66	3.6	0.88	4.2	0.99	4.5	1.10	4.8	1.10	5.4	1.32	6.0	1.54
	37	2.9	0.77	3.5	0.88	4.1	0.99	4.4	1.10	4.6	1.21	5.2	1.43	5.7	1.65
	39	2.9	0.77	3.5	0.88	4.1	1.10	4.3	1.21	4.5	1.32	5.1	1.54	5.6	1.76
	42	2.9	0.77	3.5	0.99	4.1	1.21	4.3	1.21	4.5	1.32	5.1	1.54	5.6	1.87
	44	2.9	0.88	3.5	0.99	4.1	1.21	4.3	1.32	4.5	1.43	5.1	1.65	5.6	1.87
	46	2.9	0.88	3.5	1.10	4.1	1.32	4.3	1.43	4.5	1.54	5.1	1.76	5.6	1.98

2. Outdoor Units

2-8. Capacity table (A2A)

AE120MXTP✱H/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	10	8.3	1.22	9.9	1.59	11.6	1.84	12.3	1.96	13.1	2.08	14.7	2.45	16.2	2.69
	12	8.3	1.35	9.8	1.59	11.5	1.84	12.3	1.96	13.1	2.20	14.7	2.45	16.2	2.81
	14	8.3	1.35	9.8	1.59	11.5	1.84	12.2	2.08	13.1	2.20	14.7	2.45	16.2	2.81
	16	8.3	1.35	9.8	1.59	11.5	1.96	12.2	2.08	13.0	2.20	14.7	2.57	16.2	2.94
	18	8.2	1.35	9.8	1.59	11.5	1.96	12.2	2.08	13.0	2.32	14.6	2.69	16.2	3.18
	20	8.2	1.35	9.8	1.71	11.5	2.08	12.2	2.20	13.0	2.45	14.6	2.94	16.1	3.43
	21	8.2	1.35	9.8	1.71	11.5	2.08	12.2	2.32	13.0	2.57	14.6	3.06	16.1	3.55
	23	8.2	1.47	9.8	1.84	11.5	2.20	12.2	2.45	13.0	2.69	14.6	3.18	16.0	3.79
	25	8.2	1.47	9.8	1.96	11.5	2.45	12.2	2.69	13.0	2.94	14.6	3.43	15.8	3.91
	27	8.2	1.59	9.8	2.08	11.5	2.57	12.2	2.81	13.0	3.06	14.6	3.67	15.6	4.04
	29	8.2	1.71	9.8	2.20	11.5	2.69	12.2	3.06	13.0	3.30	14.6	3.91	15.3	4.16
	31	8.2	1.84	9.8	2.32	11.3	2.94	12.1	3.18	12.9	3.55	14.6	4.28	15.1	4.40
	33	8.2	1.96	9.7	2.45	11.3	3.06	12.1	3.43	12.9	3.79	14.5	4.53	14.7	4.53
	35	8.2	2.08	9.7	2.69	11.3	3.30	12.1	3.67	12.9	4.04	14.3	4.65	14.5	4.77
	37	7.9	2.20	9.4	2.81	11.0	3.55	11.8	3.91	12.4	4.28	13.5	4.89	13.8	4.89
	39	7.8	2.32	9.3	3.06	10.8	3.79	11.5	4.16	12.2	4.65	13.1	5.02	13.4	5.02
	42	5.9	1.71	7.0	2.20	8.2	2.81	12.1	4.40	9.3	3.43	9.7	3.55	9.9	3.67
	44	5.9	1.84	7.0	2.32	8.2	2.94	12.1	4.65	9.3	3.55	9.6	3.67	9.8	3.79
	46	8.2	3.06	9.7	3.91	11.3	4.89	12.1	5.38	12.9	5.87	13.1	5.99	13.4	6.12
90%	10	7.5	1.10	8.9	1.35	10.4	1.59	11.1	1.71	11.8	1.84	13.2	2.08	14.7	2.45
	12	7.5	1.10	8.9	1.35	10.4	1.59	11.0	1.71	11.7	1.96	13.2	2.20	14.7	2.45
	14	7.5	1.22	8.9	1.47	10.3	1.71	11.0	1.84	11.7	1.96	13.2	2.20	14.7	2.45
	16	7.5	1.22	8.9	1.47	10.3	1.71	11.0	1.84	11.7	1.96	13.1	2.20	14.7	2.57
	18	7.5	1.22	8.9	1.47	10.3	1.71	11.0	1.84	11.7	2.08	13.1	2.32	14.6	2.69
	20	7.5	1.22	8.9	1.47	10.3	1.71	11.0	1.96	11.7	2.08	13.1	2.45	14.6	2.94
	21	7.5	1.22	8.9	1.47	10.3	1.84	11.0	1.96	11.7	2.20	13.1	2.57	14.6	2.94
	23	7.5	1.22	8.9	1.59	10.3	1.96	11.0	2.08	11.7	2.32	13.1	2.69	14.6	3.18
	25	7.3	1.35	8.9	1.71	10.3	2.08	11.0	2.32	11.7	2.45	13.1	2.94	14.6	3.43
	27	7.3	1.47	8.9	1.84	10.3	2.20	11.0	2.45	11.7	2.69	13.1	3.18	14.6	3.67
	29	7.3	1.47	8.9	1.96	10.3	2.32	11.0	2.57	11.7	2.81	13.1	3.43	14.6	3.91
	31	7.3	1.59	8.8	2.08	10.3	2.45	10.9	2.81	11.6	3.06	13.0	3.55	14.6	4.28
	33	7.3	1.71	8.8	2.20	10.2	2.69	10.9	2.94	11.6	3.18	13.0	3.79	14.5	4.53
	35	7.3	1.84	8.8	2.32	10.2	2.81	10.9	3.18	11.6	3.43	13.0	4.16	14.3	4.65
	37	7.1	1.96	8.5	2.45	9.8	3.06	10.6	3.30	11.2	3.67	12.5	4.40	13.5	4.89
	39	7.0	2.08	8.3	2.57	9.6	3.18	10.4	3.55	11.0	3.91	12.3	4.65	13.1	5.02
	42	7.0	2.20	8.3	2.81	9.6	3.43	10.4	3.79	11.0	4.16	12.3	5.02	12.9	5.14
	44	7.0	2.32	8.3	2.94	9.6	3.55	10.4	4.04	11.0	4.40	12.3	5.26	12.6	5.38
	46	7.3	2.57	8.8	3.30	10.2	4.16	10.9	4.53	11.6	5.02	13.0	5.99	13.1	5.99
80%	10	6.6	0.98	7.9	1.22	9.2	1.47	9.8	1.47	10.5	1.59	11.8	1.84	13.1	2.08
	12	6.6	0.98	7.9	1.22	9.2	1.47	9.8	1.59	10.5	1.71	11.7	1.96	13.1	2.20
	14	6.6	0.98	7.9	1.22	9.2	1.47	9.8	1.59	10.5	1.71	11.7	1.96	13.1	2.20
	16	6.6	1.10	7.9	1.22	9.2	1.47	9.8	1.59	10.5	1.71	11.7	1.96	13.0	2.20
	18	6.6	1.10	7.9	1.35	9.2	1.47	9.8	1.59	10.4	1.71	11.7	1.96	13.0	2.32
	20	6.6	1.10	7.9	1.35	9.2	1.59	9.7	1.71	10.4	1.84	11.7	2.08	13.0	2.45
	21	6.6	1.10	7.9	1.35	9.2	1.59	9.7	1.71	10.4	1.84	11.7	2.20	13.0	2.57
	23	6.6	1.10	7.9	1.35	9.1	1.59	9.7	1.84	10.4	1.96	11.7	2.32	13.0	2.69
	25	6.6	1.10	7.9	1.47	9.1	1.71	9.7	1.96	10.4	2.08	11.7	2.45	13.0	2.94
	27	6.6	1.22	7.9	1.59	9.1	1.84	9.7	2.08	10.4	2.20	11.7	2.69	13.0	3.06
	29	6.6	1.35	7.8	1.59	9.1	1.96	9.7	2.20	10.4	2.45	11.7	2.81	13.0	3.30
	31	6.6	1.35	7.8	1.71	9.1	2.08	9.7	2.32	10.4	2.57	11.6	3.06	12.9	3.55
	33	6.6	1.47	7.8	1.84	9.1	2.20	9.7	2.45	10.4	2.69	11.6	3.18	12.9	3.79
	35	6.6	1.59	7.8	1.96	9.1	2.45	9.7	2.69	10.3	2.94	11.6	3.43	12.9	4.04
	37	6.4	1.71	7.6	2.08	8.8	2.57	9.4	2.81	10.0	3.06	11.2	3.67	12.4	4.28
	39	6.2	1.71	7.3	2.20	8.6	2.69	9.2	2.94	9.8	3.30	11.0	3.91	12.2	4.53
	42	6.2	1.84	7.3	2.32	8.6	2.81	9.2	3.18	9.8	3.43	11.0	4.16	12.2	4.89
	44	6.2	1.96	7.3	2.45	8.6	3.06	9.2	3.30	9.8	3.67	11.0	4.40	12.2	5.14
	46	6.6	2.20	7.8	2.81	9.1	3.43	9.7	3.91	10.3	4.16	11.6	5.02	12.9	5.87

2. Outdoor Units

2-8. Capacity table (A2A)

AE120MXTP✱H/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	10	5.8	0.86	6.9	1.10	8.0	1.22	8.6	1.35	9.2	1.47	10.3	1.59	11.5	1.84
	12	5.8	0.86	6.9	1.10	8.0	1.22	8.5	1.35	9.2	1.47	10.3	1.59	11.3	1.84
	14	5.8	0.86	6.9	1.10	8.0	1.22	8.5	1.35	9.2	1.47	10.3	1.71	11.3	1.84
	16	5.8	0.98	6.9	1.10	8.0	1.35	8.5	1.35	9.2	1.47	10.3	1.71	11.3	1.96
	18	5.7	0.98	6.9	1.10	8.0	1.35	8.5	1.47	9.1	1.47	10.3	1.71	11.3	1.96
	20	5.7	0.98	6.9	1.10	8.0	1.35	8.5	1.47	9.1	1.59	10.3	1.71	11.3	1.96
	21	5.7	0.98	6.9	1.10	8.0	1.35	8.5	1.47	9.1	1.59	10.3	1.84	11.3	2.08
	23	5.7	0.98	6.9	1.22	8.0	1.35	8.5	1.47	9.1	1.59	10.2	1.96	11.3	2.20
	25	5.7	0.98	6.9	1.22	8.0	1.47	8.5	1.59	9.1	1.71	10.2	2.08	11.3	2.32
	27	5.7	1.10	6.8	1.35	8.0	1.59	8.5	1.71	9.1	1.84	10.2	2.20	11.3	2.57
	29	5.7	1.10	6.8	1.35	8.0	1.71	8.5	1.84	9.1	1.96	10.2	2.32	11.3	2.69
	31	5.7	1.22	6.8	1.47	8.0	1.71	8.5	1.96	9.1	2.08	10.2	2.45	11.2	2.94
	33	5.7	1.22	6.8	1.59	8.0	1.84	8.5	2.08	9.1	2.20	10.2	2.69	11.2	3.06
	35	5.7	1.35	6.8	1.59	7.9	1.96	8.4	2.20	9.1	2.45	10.2	2.81	11.2	3.30
	37	5.5	1.47	6.6	1.71	7.7	2.08	8.2	2.32	8.8	2.57	9.8	2.94	10.9	3.55
	39	5.4	1.47	6.5	1.84	7.6	2.20	8.0	2.45	8.5	2.69	9.6	3.18	10.7	3.67
	42	5.4	1.59	6.5	1.96	7.6	2.32	8.0	2.57	8.5	2.81	9.6	3.43	10.7	3.91
	44	5.4	1.59	6.5	2.08	7.6	2.45	8.0	2.81	8.5	3.06	9.6	3.55	10.7	4.16
	46	5.7	1.84	6.8	2.32	7.9	2.81	8.4	3.18	9.1	3.43	10.2	4.16	11.2	4.77
60%	10	5.0	0.73	5.9	0.86	6.9	1.10	7.3	1.10	7.9	1.22	8.9	1.35	9.7	1.47
	12	5.0	0.73	5.9	0.98	6.9	1.10	7.3	1.10	7.9	1.22	8.8	1.35	9.7	1.59
	14	5.0	0.73	5.9	0.98	6.9	1.10	7.3	1.10	7.9	1.22	8.8	1.35	9.7	1.59
	16	5.0	0.86	5.9	0.98	6.9	1.10	7.3	1.22	7.8	1.22	8.8	1.47	9.7	1.59
	18	5.0	0.86	5.9	0.98	6.8	1.10	7.3	1.22	7.8	1.22	8.8	1.47	9.7	1.59
	20	5.0	0.86	5.9	0.98	6.8	1.10	7.3	1.22	7.8	1.35	8.8	1.47	9.7	1.71
	21	5.0	0.86	5.9	0.98	6.8	1.10	7.3	1.22	7.8	1.35	8.8	1.47	9.7	1.71
	23	5.0	0.86	5.9	0.98	6.8	1.22	7.3	1.22	7.8	1.35	8.8	1.59	9.7	1.84
	25	5.0	0.86	5.8	0.98	6.8	1.22	7.3	1.35	7.8	1.47	8.8	1.71	9.7	1.96
	27	5.0	0.86	5.8	1.10	6.8	1.35	7.3	1.35	7.8	1.47	8.8	1.71	9.7	2.08
	29	5.0	0.98	5.8	1.10	6.8	1.35	7.3	1.47	7.8	1.59	8.8	1.84	9.6	2.20
	31	5.0	0.98	5.8	1.22	6.8	1.47	7.2	1.59	7.8	1.71	8.8	1.96	9.6	2.32
	33	5.0	1.10	5.8	1.35	6.8	1.59	7.2	1.71	7.8	1.84	8.8	2.08	9.6	2.45
	35	4.9	1.10	5.8	1.35	6.8	1.59	7.2	1.84	7.8	1.96	8.6	2.32	9.6	2.57
	37	4.8	1.22	5.6	1.47	6.6	1.71	7.0	1.96	7.5	2.08	8.4	2.45	9.3	2.81
	39	4.6	1.22	5.5	1.59	6.5	1.84	6.9	1.96	7.3	2.20	8.2	2.57	9.2	2.94
	42	4.6	1.35	5.5	1.59	6.5	1.96	6.9	2.08	7.3	2.32	8.2	2.69	9.2	3.18
	44	4.6	1.35	5.5	1.71	6.5	2.08	6.9	2.20	7.3	2.45	8.2	2.81	9.2	3.30
	46	4.9	1.59	5.8	1.96	6.8	2.45	7.2	2.57	7.8	2.81	8.6	3.30	9.6	3.79
50%	10	4.1	0.61	5.0	0.73	5.7	0.86	6.2	0.98	6.5	0.98	7.3	1.10	8.1	1.22
	12	4.1	0.73	5.0	0.73	5.7	0.86	6.2	0.98	6.5	0.98	7.3	1.10	8.1	1.22
	14	4.1	0.73	5.0	0.73	5.7	0.86	6.2	0.98	6.5	0.98	7.3	1.10	8.1	1.22
	16	4.1	0.73	5.0	0.86	5.7	0.98	6.2	0.98	6.5	1.10	7.3	1.22	8.1	1.35
	18	4.1	0.73	5.0	0.86	5.7	0.98	6.2	0.98	6.5	1.10	7.3	1.22	8.1	1.35
	20	4.1	0.73	5.0	0.86	5.7	0.98	6.2	0.98	6.5	1.10	7.3	1.22	8.1	1.35
	21	4.1	0.73	5.0	0.86	5.7	0.98	6.2	0.98	6.5	1.10	7.3	1.22	8.1	1.35
	23	4.1	0.73	4.9	0.86	5.7	0.98	6.1	1.10	6.5	1.10	7.2	1.22	8.1	1.35
	25	4.1	0.73	4.9	0.86	5.7	0.98	6.1	1.10	6.5	1.10	7.2	1.35	8.1	1.47
	27	4.1	0.73	4.9	0.86	5.7	1.10	6.1	1.10	6.5	1.22	7.2	1.35	8.1	1.59
	29	4.1	0.73	4.9	0.98	5.7	1.10	6.1	1.22	6.5	1.35	7.2	1.47	8.1	1.71
	31	4.1	0.86	4.9	0.98	5.7	1.22	6.1	1.22	6.5	1.35	7.2	1.59	8.0	1.84
	33	4.1	0.86	4.9	1.10	5.7	1.22	6.1	1.35	6.5	1.47	7.2	1.71	8.0	1.96
	35	4.1	0.98	4.9	1.10	5.6	1.35	6.1	1.47	6.5	1.59	7.2	1.84	8.0	2.08
	37	4.0	0.98	4.8	1.22	5.5	1.35	5.8	1.47	6.3	1.59	7.0	1.84	7.8	2.20
	39	3.9	0.98	4.6	1.22	5.4	1.47	5.7	1.59	6.2	1.71	6.9	1.96	7.6	2.32
	42	3.9	1.10	4.6	1.35	5.4	1.59	5.7	1.71	6.2	1.84	6.9	2.08	7.6	2.45
	44	3.9	1.10	4.6	1.35	5.4	1.59	5.7	1.84	6.2	1.96	6.9	2.20	7.6	2.57
	46	3.9	1.10	4.6	1.35	5.4	1.59	5.7	1.84	6.2	1.96	6.9	2.20	7.6	2.57

2. Outdoor Units

2-8. Capacity table (A2A)

AE160MXTP✱H/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
100%	10	10.6	1.65	12.6	1.96	14.6	2.37	15.6	2.47	16.6	2.68	18.7	3.09	20.4	3.40
	12	10.5	1.65	12.6	1.96	14.6	2.37	15.6	2.58	16.6	2.78	18.7	3.19	20.2	3.40
	14	10.5	1.65	12.6	2.06	14.6	2.37	15.6	2.58	16.6	2.78	18.6	3.19	19.9	3.30
	16	10.5	1.75	12.6	2.06	14.6	2.47	15.6	2.68	16.6	2.89	18.6	3.30	19.5	3.40
	18	10.5	1.75	12.5	2.06	14.6	2.47	15.6	2.68	16.6	2.89	18.6	3.50	19.3	3.61
	20	10.5	1.75	12.5	2.16	14.5	2.58	15.6	2.89	16.6	3.09	18.6	3.71	19.0	3.71
	21	10.5	1.75	12.5	2.16	14.5	2.68	15.5	2.99	16.5	3.19	18.5	3.81	18.9	3.81
	23	10.5	1.85	12.5	2.37	14.5	2.89	15.5	3.19	16.5	3.50	18.1	4.02	18.5	4.02
	25	10.5	1.96	12.5	2.47	14.5	3.09	15.5	3.40	16.5	3.71	17.9	4.12	18.3	4.22
	27	10.5	2.06	12.5	2.68	14.5	3.30	15.5	3.61	16.5	4.02	17.6	4.33	18.0	4.33
	29	10.5	2.27	12.5	2.78	14.5	3.50	15.5	3.92	16.5	4.22	17.4	4.53	17.7	4.53
	31	10.4	2.37	12.5	2.99	14.5	3.71	15.5	4.12	16.5	4.53	17.1	4.64	17.5	4.74
	33	10.4	2.47	12.4	3.19	14.4	4.02	15.4	4.43	16.4	4.84	16.8	4.84	17.2	4.95
	35	10.4	2.68	12.4	3.40	14.4	4.22	15.4	4.74	16.1	4.95	16.5	5.05	16.8	5.05
	37	10.1	2.68	12.0	3.40	14.0	4.33	14.9	4.74	15.3	4.95	15.7	4.95	16.1	4.95
	39	9.9	2.68	11.8	3.50	13.7	4.33	14.6	4.84	14.8	4.84	15.1	4.84	15.5	4.95
	42	9.9	2.89	11.8	3.71	13.7	4.64	14.6	5.05	14.6	4.95	14.8	5.05	15.2	5.05
	44	9.9	2.99	11.8	3.92	13.7	4.84	14.6	5.36	14.4	5.15	14.5	5.15	14.9	5.26
	46	9.9	3.19	11.8	4.12	13.7	5.15	14.6	5.67	14.2	5.26	14.2	5.36	14.6	5.46
90%	10	9.5	1.44	11.3	1.75	13.1	2.06	14.1	2.27	15.0	2.37	16.9	2.78	18.7	3.09
	12	9.4	1.44	11.3	1.75	13.1	2.06	14.1	2.27	15.0	2.47	16.8	2.78	18.7	3.09
	14	9.4	1.55	11.2	1.85	13.1	2.16	14.1	2.27	15.0	2.47	16.8	2.89	18.6	3.19
	16	9.4	1.55	11.2	1.85	13.1	2.16	14.1	2.37	15.0	2.58	16.8	2.89	18.6	3.30
	18	9.4	1.55	11.2	1.85	13.0	2.27	14.1	2.37	15.0	2.58	16.8	2.99	18.6	3.40
	20	9.4	1.55	11.2	1.96	13.0	2.27	14.0	2.47	14.9	2.68	16.8	3.19	18.6	3.71
	21	9.4	1.55	11.2	1.96	13.0	2.27	14.0	2.58	14.9	2.78	16.8	3.30	18.5	3.81
	23	9.4	1.65	11.2	2.06	13.0	2.47	14.0	2.68	14.9	2.99	16.7	3.50	18.1	4.02
	25	9.4	1.75	11.2	2.16	13.0	2.68	14.0	2.89	14.9	3.19	16.7	3.81	17.9	4.12
	27	9.4	1.85	11.2	2.27	13.0	2.78	14.0	3.09	14.9	3.40	16.7	4.02	17.6	4.33
	29	9.4	1.96	11.2	2.47	13.0	2.99	14.0	3.30	14.9	3.61	16.7	4.33	17.3	4.53
	31	9.3	2.06	11.1	2.58	13.0	3.19	14.0	3.50	14.9	3.92	16.7	4.64	17.1	4.64
	33	9.3	2.16	11.1	2.78	12.9	3.40	13.9	3.81	14.8	4.12	16.4	4.84	16.8	4.84
	35	9.3	2.37	11.1	2.99	12.9	3.61	13.9	4.02	14.8	4.43	16.1	4.95	16.5	5.05
	37	9.0	2.37	10.8	2.99	12.5	3.71	13.5	4.02	14.4	4.43	15.4	4.95	15.7	4.95
	39	8.8	2.37	10.5	2.99	12.3	3.71	13.2	4.12	14.1	4.53	14.8	4.84	15.1	4.84
	42	8.8	2.47	10.5	3.19	12.3	3.92	13.2	4.33	14.1	4.74	14.5	4.95	14.8	5.05
	44	8.8	2.58	10.5	3.30	12.3	4.12	13.2	4.64	14.1	5.05	14.2	5.15	14.5	5.15
	46	8.8	2.78	10.5	3.50	12.3	4.43	13.2	4.84	14.1	5.36	14.0	5.26	14.2	5.36
80%	10	8.4	1.24	10.1	1.55	11.7	1.85	12.5	1.96	13.3	2.06	14.9	2.37	16.5	2.68
	12	8.4	1.34	10.0	1.55	11.7	1.85	12.5	1.96	13.3	2.16	14.9	2.47	16.5	2.78
	14	8.4	1.34	10.0	1.55	11.7	1.85	12.5	2.06	13.3	2.16	14.9	2.47	16.5	2.78
	16	8.4	1.34	10.0	1.65	11.6	1.96	12.4	2.06	13.3	2.16	14.9	2.58	16.5	2.89
	18	8.4	1.34	10.0	1.65	11.6	1.96	12.4	2.06	13.2	2.27	14.9	2.58	16.5	2.89
	20	8.4	1.44	10.0	1.65	11.6	1.96	12.4	2.16	13.2	2.27	14.8	2.68	16.5	3.09
	21	8.3	1.44	10.0	1.75	11.6	1.96	12.4	2.16	13.2	2.37	14.8	2.78	16.4	3.19
	23	8.3	1.44	10.0	1.75	11.6	2.06	12.4	2.27	13.2	2.47	14.8	2.99	16.4	3.40
	25	8.3	1.44	10.0	1.85	11.6	2.27	12.4	2.47	13.2	2.68	14.8	3.19	16.4	3.71
	27	8.3	1.55	10.0	1.96	11.6	2.37	12.4	2.68	13.2	2.89	14.8	3.40	16.4	3.92
	29	8.3	1.65	10.0	2.06	11.6	2.58	12.4	2.78	13.2	3.09	14.8	3.61	16.4	4.22
	31	8.3	1.75	9.9	2.27	11.5	2.68	12.3	2.99	13.2	3.30	14.8	3.81	16.4	4.53
	33	8.3	1.85	9.9	2.37	11.5	2.89	12.3	3.19	13.1	3.50	14.7	4.12	16.3	4.84
	35	8.3	1.96	9.9	2.47	11.5	3.09	12.3	3.40	13.1	3.71	14.7	4.43	16.1	4.95
	37	8.0	2.06	9.6	2.58	11.2	3.09	11.9	3.40	12.7	3.71	14.3	4.43	15.3	4.95
	39	7.9	2.06	9.4	2.58	10.9	3.09	11.7	3.40	12.4	3.81	14.0	4.53	14.8	4.84
	42	7.9	2.16	9.4	2.68	10.9	3.30	11.7	3.61	12.4	4.02	14.0	4.74	14.6	4.95
	44	7.9	2.27	9.4	2.78	10.9	3.50	11.7	3.81	12.4	4.22	14.0	5.05	14.4	5.15
	46	7.9	2.37	9.4	2.99	10.9	3.71	11.7	4.02	12.4	4.43	14.0	5.36	14.2	5.26

2. Outdoor Units

2-8. Capacity table (A2A)

AE160MXTP✱H/EU

Cooling

Combination % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (WB, °C)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	10	7.4	1.13	8.8	1.34	10.2	1.55	11.0	1.65	11.7	1.75	13.1	2.06	14.5	2.27
	12	7.4	1.13	8.8	1.34	10.1	1.55	11.0	1.75	11.7	1.85	13.1	2.06	14.5	2.37
	14	7.4	1.13	8.7	1.34	10.1	1.65	10.9	1.75	11.7	1.85	13.1	2.16	14.5	2.37
	16	7.4	1.13	8.7	1.44	10.1	1.65	10.9	1.75	11.6	1.85	13.1	2.16	14.5	2.47
	18	7.4	1.24	8.7	1.44	10.1	1.65	10.9	1.85	11.6	1.96	13.0	2.16	14.5	2.47
	20	7.4	1.24	8.7	1.44	10.1	1.75	10.9	1.85	11.6	1.96	13.0	2.27	14.4	2.58
	21	7.4	1.24	8.7	1.44	10.1	1.75	10.9	1.85	11.6	1.96	13.0	2.27	14.4	2.68
	23	7.4	1.24	8.7	1.55	10.1	1.75	10.9	1.96	11.6	2.06	13.0	2.47	14.4	2.89
	25	7.4	1.24	8.7	1.55	10.1	1.85	10.9	2.06	11.6	2.27	13.0	2.58	14.4	2.99
	27	7.4	1.34	8.7	1.65	10.1	2.06	10.9	2.16	11.6	2.37	13.0	2.78	14.4	3.19
	29	7.4	1.44	8.7	1.75	10.1	2.16	10.9	2.37	11.6	2.58	13.0	2.99	14.4	3.50
	31	7.3	1.55	8.7	1.85	10.0	2.27	10.8	2.47	11.5	2.68	13.0	3.19	14.4	3.71
	33	7.3	1.65	8.7	1.96	10.0	2.37	10.8	2.68	11.5	2.89	12.9	3.40	14.3	3.92
	35	7.3	1.75	8.6	2.06	10.0	2.58	10.8	2.78	11.5	3.09	12.9	3.61	14.3	4.22
	37	7.1	1.75	8.4	2.16	9.7	2.58	10.5	2.89	11.2	3.09	12.5	3.61	13.9	4.22
	39	7.0	1.75	8.2	2.16	9.5	2.58	10.3	2.89	10.9	3.09	12.3	3.71	13.6	4.33
	42	7.0	1.85	8.2	2.27	9.5	2.78	10.3	2.99	10.9	3.30	12.3	3.92	13.6	4.53
	44	7.0	1.85	8.2	2.37	9.5	2.89	10.3	3.19	10.9	3.50	12.3	4.12	13.6	4.84
	46	7.0	1.96	8.2	2.47	9.5	3.09	10.3	3.40	10.9	3.71	12.3	4.33	13.6	5.05
60%	10	6.4	1.03	7.6	1.13	8.7	1.34	9.3	1.44	9.9	1.55	11.2	1.75	12.4	1.96
	12	6.4	1.03	7.6	1.13	8.7	1.34	9.3	1.44	9.9	1.55	11.2	1.75	12.4	1.96
	14	6.4	1.03	7.6	1.24	8.7	1.34	9.3	1.44	9.9	1.55	11.1	1.75	12.4	2.06
	16	6.4	1.03	7.6	1.24	8.7	1.44	9.3	1.55	9.9	1.65	11.1	1.85	12.3	2.06
	18	6.3	1.03	7.6	1.24	8.7	1.44	9.3	1.55	9.9	1.65	11.1	1.85	12.3	2.06
	20	6.3	1.03	7.6	1.24	8.7	1.44	9.3	1.55	9.9	1.65	11.1	1.85	12.3	2.16
	21	6.3	1.03	7.6	1.24	8.7	1.44	9.3	1.55	9.9	1.65	11.1	1.96	12.3	2.16
	23	6.3	1.13	7.5	1.24	8.7	1.44	9.3	1.65	9.9	1.75	11.1	1.96	12.3	2.27
	25	6.3	1.13	7.5	1.34	8.7	1.55	9.3	1.65	9.9	1.85	11.1	2.16	12.3	2.47
	27	6.3	1.13	7.5	1.34	8.7	1.65	9.3	1.75	9.9	1.96	11.1	2.27	12.3	2.58
	29	6.3	1.24	7.5	1.44	8.6	1.75	9.2	1.96	9.8	2.06	11.1	2.37	12.3	2.78
	31	6.3	1.24	7.5	1.55	8.6	1.85	9.2	2.06	9.8	2.16	11.0	2.58	12.2	2.99
	33	6.3	1.34	7.5	1.65	8.6	1.96	9.2	2.16	9.8	2.37	11.0	2.68	12.2	3.19
	35	6.3	1.44	7.5	1.75	8.6	2.06	9.2	2.27	9.8	2.47	11.0	2.89	12.2	3.40
	37	6.1	1.44	7.3	1.75	8.3	2.16	8.9	2.27	9.5	2.47	10.7	2.89	11.8	3.40
	39	6.0	1.44	7.1	1.75	8.2	2.16	8.7	2.37	9.3	2.58	10.4	2.99	11.6	3.40
	42	6.0	1.55	7.1	1.85	8.2	2.27	8.7	2.47	9.3	2.68	10.4	3.09	11.6	3.61
	44	6.0	1.65	7.1	1.96	8.2	2.37	8.7	2.58	9.3	2.78	10.4	3.30	11.6	3.81
	46	6.0	1.65	7.1	2.06	8.2	2.47	8.7	2.68	9.3	2.99	10.4	3.50	11.6	4.02
50%	10	5.3	0.82	6.3	0.93	7.4	1.13	7.8	1.24	8.3	1.24	9.3	1.44	10.4	1.55
	12	5.3	0.82	6.3	1.03	7.4	1.13	7.8	1.24	8.3	1.34	9.3	1.44	10.3	1.65
	14	5.3	0.82	6.3	1.03	7.3	1.13	7.8	1.24	8.3	1.34	9.3	1.44	10.3	1.65
	16	5.3	0.93	6.3	1.03	7.3	1.13	7.7	1.24	8.2	1.34	9.3	1.55	10.3	1.65
	18	5.3	0.93	6.3	1.03	7.3	1.24	7.7	1.24	8.2	1.34	9.3	1.55	10.3	1.75
	20	5.3	0.93	6.3	1.03	7.3	1.24	7.7	1.34	8.2	1.34	9.3	1.55	10.3	1.75
	21	5.3	0.93	6.3	1.03	7.3	1.24	7.7	1.34	8.2	1.44	9.2	1.55	10.3	1.75
	23	5.3	0.93	6.3	1.03	7.3	1.24	7.7	1.34	8.2	1.44	9.2	1.65	10.3	1.75
	25	5.3	0.93	6.3	1.13	7.3	1.24	7.7	1.34	8.2	1.44	9.2	1.65	10.3	1.96
	27	5.3	0.93	6.3	1.13	7.3	1.34	7.7	1.44	8.2	1.55	9.2	1.75	10.3	2.06
	29	5.3	1.03	6.3	1.24	7.3	1.44	7.7	1.55	8.2	1.65	9.2	1.85	10.3	2.16
	31	5.3	1.03	6.3	1.24	7.3	1.55	7.7	1.65	8.2	1.75	9.2	2.06	10.2	2.27
	33	5.2	1.13	6.3	1.34	7.3	1.55	7.7	1.75	8.2	1.85	9.2	2.16	10.2	2.47
	35	5.2	1.13	6.2	1.44	7.3	1.65	7.7	1.85	8.2	1.96	9.2	2.27	10.2	2.58
	37	5.1	1.24	6.1	1.44	7.0	1.65	7.5	1.85	7.9	1.96	8.9	2.27	9.9	2.68
	39	5.0	1.24	5.9	1.44	6.9	1.75	7.4	1.85	7.7	1.96	8.7	2.27	9.7	2.68
	42	5.0	1.24	5.9	1.55	6.9	1.75	7.4	1.96	7.7	2.06	8.7	2.47	9.7	2.78
	44	5.0	1.34	5.9	1.55	6.9	1.85	7.4	2.06	7.7	2.16	8.7	2.58	9.7	2.99
	46	5.0	1.34	5.9	1.65	6.9	1.96	7.4	2.16	7.7	2.27	8.7	2.68	9.7	3.09

2. Outdoor Units

2-9. Capacity correction

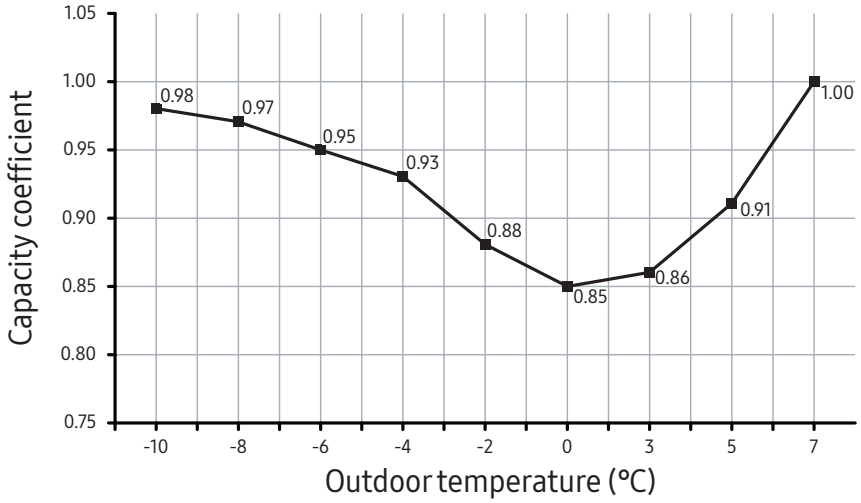
2-9-1. Defrosting correction factor

◆ 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

Corrected Heating Capacity = heating Capacity X Capacity coefficient

Capacity coefficient of outdoor unit on defrost operation

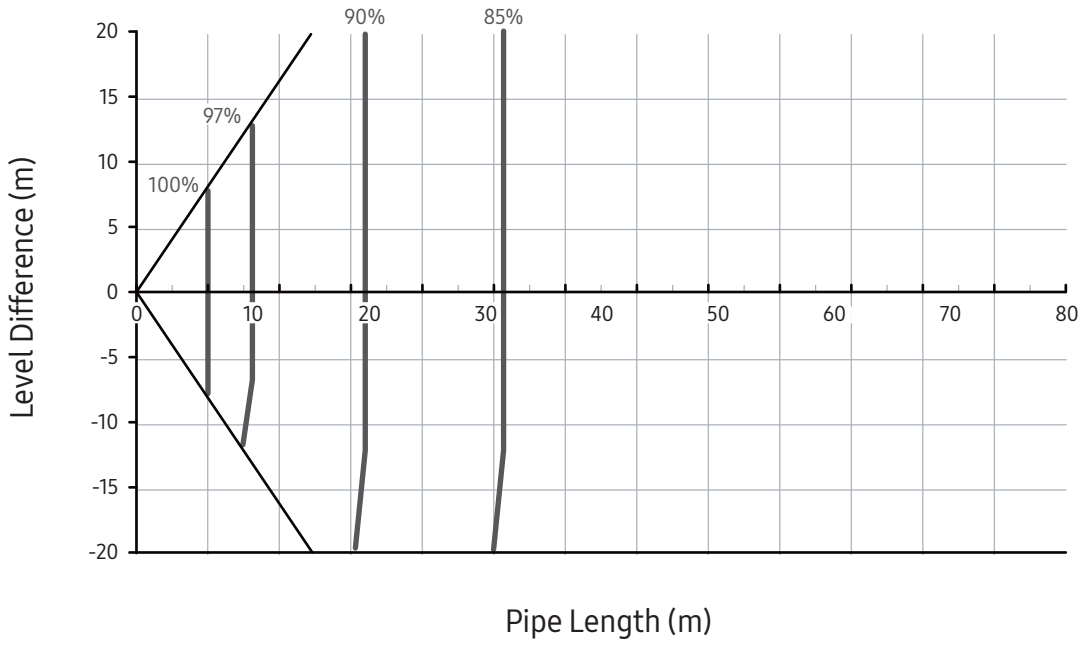


2. Outdoor Units

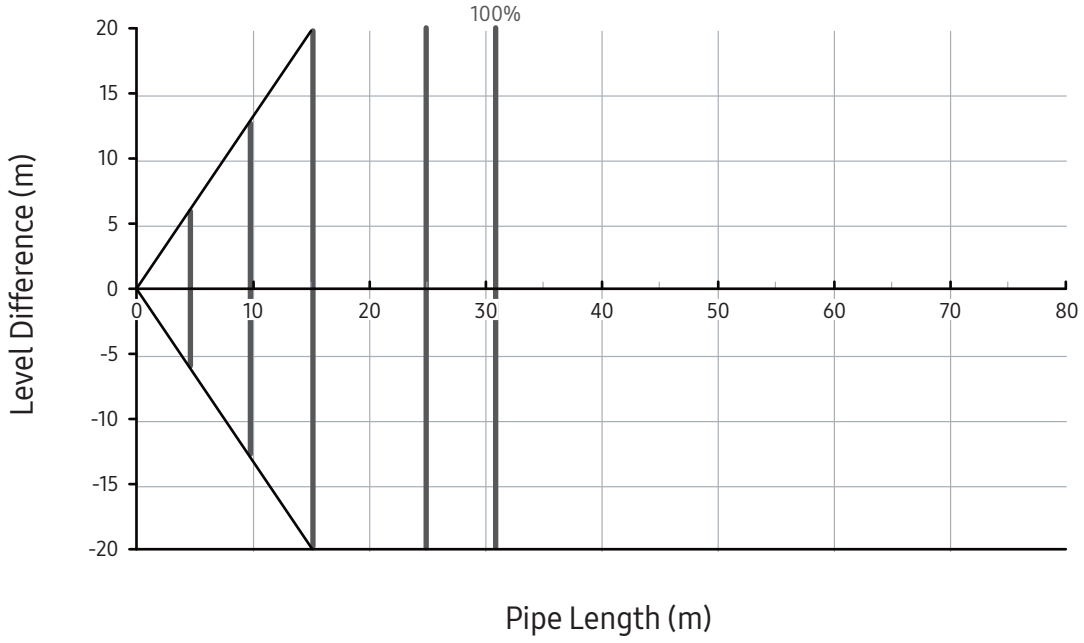
2-9. Capacity correction

2-9-2. AE044/066/090MXTP*H

1) Cooling



2) Heating

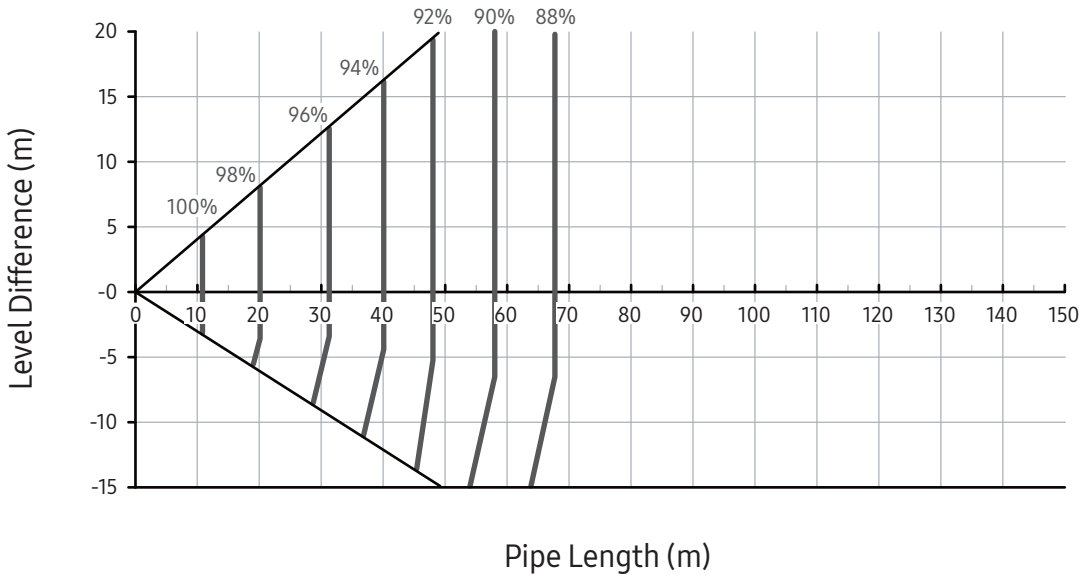


2. Outdoor Units

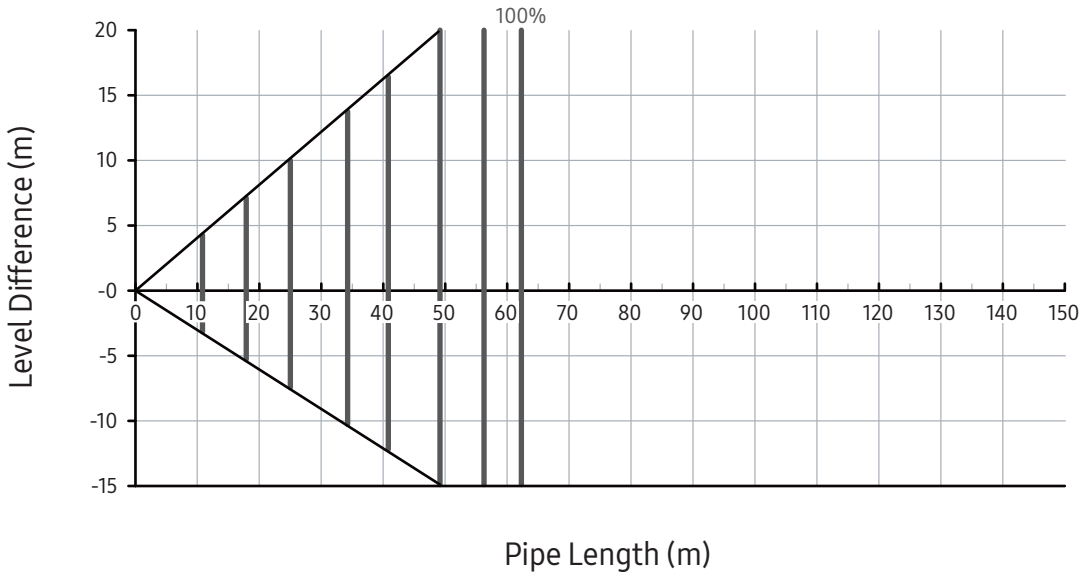
2-9. Capacity correction

2-9-2. AE120/160MXTP*H

1) Cooling



2) Heating



3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit			AE200DNXTPH/EU	AE200DNXTPH/EU
	Outdoor Unit			AE***MXTPEH/EU	AE***MXTPGH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
Mode			-	Heat Pump (A2W)	Heat Pump (A2W)
Power input	Cooling (Nominal)		kW	0.3	3Φ - / 1Φ 0.3
	Heating (Nominal)		kW	0.3	3Φ - / 1Φ 0.3
	Cooling (Max)		kW	0.3	3Φ - / 1Φ 0.3
	Heating (Max)		kW	4.3	3Φ 6.0/ 1Φ 0.3
Current Input	Cooling (Nominal)		A	1.3	3Φ - / 1Φ 1.3
	Heating (Nominal)		A	1.3	3Φ - / 1Φ 1.3
	Cooling (Max)		A	1.3	3Φ - / 1Φ 1.3
	Heating (Max)		A	18.7	3Φ 8.7 / 1Φ 1.3
Field Wiring	MCA		A	18.7	3Φ 8.7 / 1Φ 1.3
	MFA			23.4	3Φ 10.9 / 1Φ 1.6
Water Connections	Water pipe (Space heating)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
	Water pipe (DHW)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22
		Outlet	Φ, mm	22	22
	Water pipe (Secondary water return)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22
Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare nut	Flare nut
		Liquid	Φ, mm	9.52	9.52
		Gas(A2W)		15.88	15.88
		Gas(A2A)	Φ, mm	15.88	15.88
DHW Tank	Nominal Water Volume		liter	200	200
	Net Water Volume		liter	194	194
	Material		-	SUS 316L	SUS 316L
	Max. water pressure		bar	10	10
	Max. water temperature		°C	70	70
	Corrosion protection		-	Anode bar	Anode bar
	Insulation		-	Inner EPP+VIP+Outer EPS	Inner EPP+VIP+Outer EPS
	Coil surface area		m²	2.09	2.09
	Coil diameter		mm	22.0	22.0
	Coil length		m	29.2	29.2
	Internal coil volume		L	9.5	9.5
Water Pump (Primary)	Type		-	BLDC Inv(PWM)	BLDC Inv(PWM)
	Motor Input		W	95	95
	Max static pressure		mAq	9.0	9.0
	Max water flow		LPM	75	75
Water Pump (2-zone)	Type		-	BLDC Inv(Fixed)	BLDC Inv(Fixed)
	Motor Input		W	95	95
	Max static pressure		mAq	9.0	9.0
	Max water flow		LPM	75	75
Water Heat Exchanger	Type		-	Brazed Plate Exchager	Brazed Plate Exchager
	Quantity		EA	1	1
	Internal water volume		L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)
	Insulation material		-	EPP	EPP
Water flow rate (AE044/066/090MXTP*H)		Min.	l/min	7	7
		Max.	l/min	48	48
Water flow rate (AE120/160MXTP*H)		Min.	l/min	12	12
		Max.	l/min	58	58
Backup Heater	Power		-	1Φ 2/4kW	3Φ 6kW
	Thermostat		°C	85±4	85±4
	Thermostat (Thermal Fuse)		°C	98 +0 -5	98 +0 -5

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit			AE200DNXTPH/EU	AE200DNXTPH/EU
	Outdoor Unit			AE***MXTPEH/EU	AE***MXTPGH/EU
Safety device	Pressure relief valve		bar	2.9	2.9
	Flow Sensor		LPM	5~60	5~60
	Temperature & Pressure relief valve (Tank)		-	10bar, 90℃	10bar, 90℃
Expansion vessel	Internal water volume		liter	10	10
	Max. Working pressure		MPa	0.3	0.3
	Initial Charging Pressure		MPa	0.1	0.1
Expansion vessel(DHW)	Internal water volume		liter	10	10
	Max. Working pressure		MPa	1.0	1.0
	Initial Charging Pressure		MPa	0.3	0.3
Electric Expansion Vavle			-	EDM Φ3.2(Φ4.0) 1)*	EDM Φ3.2(Φ4.0) 1)*
Air Purge Valve			Φ, inch	BSPP male 3/8"	BSPP male 3/8"
Manometer			-	○	○
Magnetic filter			-	○	○
Strainer				○	○
Mixing valve			-	○	○
Check valve			-	○	○
IP Class			-	IPX1	IPX1
Sound Level	Sound Pressure Level	Heating	dB(A)	AE044/066/090MXTP*H: 31 AE120/160MXTP*H: 33	AE044/066/090MXTP*H: 31 AE120/160MXTP*H: 33
	Sound Power Level	Heating	dB(A)	AE044/066/090MXTP*H: 45 AE120/160MXTP*H: 47	AE044/066/090MXTP*H: 45 AE120/160MXTP*H: 47
Casing	Color		-	GREIGE	GREIGE
	Material		-	PCM	PCM
Packing	Material		-	EPS/BOX/Pallet	EPS/BOX/Pallet
	Packing Weight		kg	12.0	12.0
Pipe Insulation	Refrigerant		mm	8.0	8.0
	Water		mm	8	8
External Dimension	Net Weight		kg	145.0	145.0
	Shipping Weight		kg	157.5	157.5
	Net Dimensions (WxHxD)		mm	598 x 1,850 x 600	598 x 1,850 x 600
	Shipping Dimensions (WxHxD)		mm	676 x 2,050 x 740	676 x 2,050 x 740
Operating Temp. Range	Hydro unit ambient temperature		℃	4~35	4~35
	Heating		℃	15~55	15~55
	Cooling		℃	5~25	5~25
	D.Hot Water		℃	30~70	30~70
External Control	Back up Boiler		-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Room Thermostat		-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
	Solar Pump		-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Valves, 2 or 3way		-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
Fuction	WiFi Embedded		-	○	○
	7 inch Full touch display		-	○	○
	Energy Monitioring		-	○	○
	PV / SG Ready		-	○	○
	2 Zone Control		-	○	○

NOTE

- Specifications may be subject to change without prior notice.
  1)* The dimensions inside () correspond to the AE120/160MXTP*H/EU model.
- Select wire size based on the value of MCA

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit			AE200DNWTPH/EU	AE200DNWTPH/EU
	Outdoor Unit			AE***MXTPEH/EU	AE***MXTPGH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
Mode			-	Heat Pump (A2W)	Heat Pump (A2W)
Power input	Cooling (Nominal)		kW	0.2	3Φ - / 1Φ 0.2
	Heating (Nominal)		kW	0.2	3Φ - / 1Φ 0.2
	Cooling (Max)		kW	0.2	3Φ - / 1Φ 0.2
	Heating (Max)		kW	4.2	3Φ 6.0 / 1Φ 0.2
Current Input	Cooling (Nominal)		A	0.9	3Φ - / 1Φ 0.9
	Heating (Nominal)		A	0.9	3Φ - / 1Φ 0.9
	Cooling (Max)		A	0.9	3Φ - / 1Φ 0.9
	Heating (Max)		A	18.3	3Φ 8.7 / 1Φ 0.9
Field Wiring	MCA		A	18.3	3Φ 8.7 / 1Φ 0.9
	MFA			22.9	3Φ 10.9 / 1Φ 1.2
Water Connections	Water pipe (Space heating)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
	Water pipe (DHW)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22
		Outlet	Φ, mm	22	22
	Water pipe (Secondary water return)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22
Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare nut	Flare nut
		Liquid	Φ, mm	9.52	9.52
		Gas(A2W)		15.88	15.88
		Gas(A2A)	Φ, mm	15.88	15.88
DHW Tank	Nominal Water Volume		liter	200	200
	Net Water Volume		liter	194	194
	Material		-	SUS 316L	SUS 316L
	Max. water pressure		bar	10	10
	Max. water temperature		°C	70	70
	Corrosion protection		-	Anode bar	Anode bar
	Insulation		-	Inner EPP+VIP+Outer EPS	Inner EPP+VIP+Outer EPS
	Coil surface area		m²	2.09	2.09
	Coil diameter		mm	22.0	22.0
	Coil length		m	29.2	29.2
	Internal coil volume		L	9.5	9.5
Water Pump (Primary)	Type		-	BLDC Inv(PWM)	BLDC Inv(PWM)
	Motor Input		W	95	95
	Max static pressure		mAq	9.0	9.0
	Max water flow		LPM	75	75
Water Pump (2-zone)	Type		-	N/A	N/A
	Motor Input		W	N/A	N/A
	Max static pressure		mAq	N/A	N/A
	Max water flow		LPM	N/A	N/A
Water Heat Exchanger	Type		-	Brazed Plate Exchager	Brazed Plate Exchager
	Quantity		EA	1	1
	Internal water volume		L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)
	Insulation material		-	EPP	EPP
Water flow rate (AE044/066/090MXTP*H)		Min.	l/min	7	7
		Max.	l/min	48	48
Water flow rate (AE120/160MXTP*H)		Min.	l/min	12	12
		Max.	l/min	58	58
Backup Heater	Power		-	1Φ 2/4kW	3Φ 6kW
	Thermostat		°C	85±4	85±4
	Thermostat (Thermal Fuse)		°C	98 +0 -5	98 +0 -5

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit			AE200DNWTPH/EU	AE200DNWTPH/EU
	Outdoor Unit			AE***MXTPEH/EU	AE***MXTPGH/EU
Safety device	Pressure relief valve		bar	2.9	2.9
	Flow Sensor		LPM	5~60	5~60
	Temperature & Pressure relief valve (Tank)		-	10bar, 90℃	10bar, 90℃
Expansion vessel	Internal water volume		liter	10	10
	Max. Working pressure		MPa	0.3	0.3
	Initial Charging Pressure		MPa	0.1	0.1
Expansion vessel(DHW)	Internal water volume		liter	10	10
	Max. Working pressure		MPa	1.0	1.0
	Initial Charging Pressure		MPa	0.3	0.3
Electric Expansion Vavle			-	EDM Φ3.2(Φ4.0) 1)*	EDM Φ3.2(Φ4.0) 1)*
Air Purge Valve			Φ, inch	BSPP male 3/8"	BSPP male 3/8"
Manometer			-	○	○
Magnetic filter			-	○	○
Strainer				○	○
Mixing valve			-	N/A	N/A
Check valve			-	N/A	N/A
IP Class			-	IPX1	IPX1
Sound Level	Sound Pressure Level	Heating	dB(A)	AE044/066/090MXTP*H: 29 AE120/160MXTP*H: 31	AE044/066/090MXTP*H: 29 AE120/160MXTP*H: 31
	Sound Power Level	Heating	dB(A)	AE044/066/090MXTP*H: 43 AE120/160MXTP*H: 45	AE044/066/090MXTP*H: 43 AE120/160MXTP*H: 45
Casing	Color		-	GREIGE	GREIGE
	Material		-	PCM	PCM
Packing	Material		-	EPS/BOX/Pallet	EPS/BOX/Pallet
	Packing Weight		kg	12.0	12.0
Pipe Insulation	Refrigerant		mm	8.0	8.0
	Water		mm	8	8
External Dimension	Net Weight		kg	136.0	136.0
	Shipping Weight		kg	148.0	148.0
	Net Dimensions (WxHxD)		mm	598 x 1,850 x 600	598 x 1,850 x 600
	Shipping Dimensions (WxHxD)		mm	676 x 2,050 x 740	676 x 2,050 x 740
Operating Temp. Range	Hydro unit ambient temperature		°C	4~35	4~35
	Heating		°C	15~55	15~55
	Cooling		°C	5~25	5~25
	D.Hot Water		°C	30~70	30~70
External Control	Back up Boiler		-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Room Thermostat		-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
	Solar Pump		-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Valves, 2 or 3way		-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
Fuction	WiFi Embedded		-	○	○
	7 inch Full touch display		-	○	○
	Energy Monitioring		-	○	○
	PV / SG Ready		-	○	○
	2 Zone Control		-	○	○

NOTE

- Specifications may be subject to change without prior notice.
  1)* The dimensions inside () correspond to the AE120/160MXTP*H/EU model.
- Select wire size based on the value of MCA

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit			AE160DNZTPH/EU	AE160DNZTPH/EU
	Outdoor Unit			AE***MXTPEH/EU	AE***MXTPGH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
Mode			-	Heat Pump (A2W)	Heat Pump (A2W)
Power input	Cooling (Nominal)		kW	0.3	3Φ - / 1Φ 0.3
	Heating (Nominal)		kW	0.3	3Φ - / 1Φ 0.3
	Cooling (Max)		kW	0.3	3Φ - / 1Φ 0.3
	Heating (Max)		kW	4.3	3Φ 6.0/ 1Φ 0.3
Current Input	Cooling (Nominal)		A	1.3	3Φ - / 1Φ 1.3
	Heating (Nominal)		A	1.3	3Φ - / 1Φ 1.3
	Cooling (Max)		A	1.3	3Φ - / 1Φ 1.3
	Heating (Max)		A	18.7	3Φ 8.7 / 1Φ 1.3
Field Wiring	MCA		A	18.7	3Φ 8.7 / 1Φ 1.3
	MFA			23.4	3Φ 10.9 / 1Φ 1.6
Water Connections	Water pipe (Space heating)	Type	-	BSPP Female 1 1/4	BSPP Female 1 1/4
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
	Water pipe (Tank)	Type	-	BSPP Female 1 1/4	BSPP Female 1 1/4
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare nut	Flare nut
		Liquid	Φ, mm	9.52	9.52
		Gas(A2W)	Φ, mm	15.88	15.88
Water Pump (Primary)	Type		-	BLDC Inv(PWM)	BLDC Inv(PWM)
	Motor Input		W	95	95
	Max static pressure		mAq	9.0	9.0
	Max water flow		LPM	75	75
Water Pump (2-zone)	Type		-	BLDC Inv(Fixed)	BLDC Inv(Fixed)
	Motor Input		W	95	95
	Max static pressure		mAq	9.0	9.0
	Max water flow		LPM	75	75
Water Heat Exchanger	Type		-	Braszed Plate Exchager	Braszed Plate Exchager
	Quantity		EA	1	1
	Internal water volume		L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)
	Insulation material		-	EPP	EPP
Water flow rate (AE044/066/090MXTP*H)		Min.	l/min	7	7
		Max.	l/min	48	48
Water flow rate (AE120/160MXTP*H)		Min.	l/min	12	12
		Max.	l/min	58	58
Backup Heater	Power		-	1Φ 2/4kW	3Φ 6kW
	Thermostat		°C	85±4	85±4
	Thermostat (Thermal Fuse)		°C	98 +0 -5	98 +0 -5
Safety device	Pressure relief valve		bar	2.9	2.9
	Flow Sensor		LPM	5~60	5~60
	Temperature & Pressure relief		-	10bar, 90°C	10bar, 90°C
Expansion vessel	Internal water volume		liter	10	10
	Max. Working pressure		MPa	0.3	0.3
	Initial Charging Pressure		MPa	0.1	0.1
Electric Expantion Vavle			-	EDM Φ3.2(Φ4.0) 1)*	EDM Φ3.2(Φ4.0) 1)*
Air Purge Valve			Φ, inch	BSPP male 3/8"	BSPP male 3/8"
Manometer			-	○	○
Magnetic filter			-	○	○
Strainer				○	○
Mixing valve			-	○	○
Check valve			-	○	○
Sound Level	Sound Pressure Level	Heating	dB(A)	AE044/066/090MXTP*H: 31 AE120/160MXTP*H: 33	AE044/066/090MXTP*H: 31 AE120/160MXTP*H: 33
	Sound Power Level	Heating	dB(A)	AE044/066/090MXTP*H: 45 AE120/160MXTP*H: 47	AE044/066/090MXTP*H: 45 AE120/160MXTP*H: 47

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit		AE160DNZTPH/EU	AE160DNZTPH/EU
	Outdoor Unit		AE***MXTPEH/EU	AE***MXTPGH/EU
Casing	Color	-	GREIGE	GREIGE
	Material	-	PCM	PCM
Packing	Material	-	EPS/BOX	EPS/BOX
	Packing Weight	kg	3.7	3.7
Pipe Insulation	Refrigerant	mm	8	8
	Water	mm	8	8
External Dimension	Net Weight	kg	60.0	60.0
	Shipping Weight	kg	68.0	68.0
	Net Dimensions (WxHxD)	mm	530 x 840 x 350	530 x 840 x 350
	Shipping Dimensions (WxHxD)	mm	602 x 1,032 x 435	602 x 1,032 x 435
Operating Temp. Range	Hydro unit ambient temperature	°C	4~35	4~35
	Heating	°C	15~55	15~55
	Cooling	°C	5~25	5~25
	D.Hot Water	°C	30~70	30~70
External Control	Booster Heater	-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Back up Boiler	-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Room Thermostat	-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
	Solar Pump	-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Valves, 2 or 3way	-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
Fuction	WiFi Embedded	-	○	○
	7 inch Full touch display	-	○	○
	Energy Monitioring	-	○	○
	PV / SG Ready	-	○	○
	2 Zone Control	-	○	○

NOTE

- Specifications may be subject to change without prior notice.
  1)* The dimensions inside () correspond to the AE120/160MXTP*H/EU model.
- Select wire size based on the value of MCA

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit			AE160DNYTPH/EU	AE160DNYTPH/EU
	Outdoor Unit			AE***MXTPEH/EU	AE***MXTPGH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50
Mode			-	Heat Pump (A2W)	Heat Pump (A2W)
Power input	Cooling (Nominal)		kW	0.2	3Φ - / 1Φ 0.2
	Heating (Nominal)		kW	0.2	3Φ - / 1Φ 0.2
	Cooling (Max)		kW	0.2	3Φ - / 1Φ 0.2
	Heating (Max)		kW	4.2	3Φ 6.0 / 1Φ 0.2
Current Input	Cooling (Nominal)		A	0.9	3Φ - / 1Φ 0.9
	Heating (Nominal)		A	0.9	3Φ - / 1Φ 0.9
	Cooling (Max)		A	0.9	3Φ - / 1Φ 0.9
	Heating (Max)		A	18.3	3Φ 8.7 / 1Φ 0.9
Field Wiring	MCA		A	18.3	3Φ 8.7 / 1Φ 0.9
	MFA			22.9	3Φ 10.9 / 1Φ 1.2
Water Connections	Water pipe (Space heating)	Type	-	BSPP Female 1 1/4	BSPP Female 1 1/4
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
	Water pipe (Tank)	Type	-	BSPP Female 1 1/4	BSPP Female 1 1/4
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
Refrigerant Connections	Refrigerant pipe (To outdoor unit)	Type	-	Flare nut	Flare nut
		Liquid	Φ, mm	9.52	9.52
		Gas(A2W)	Φ, mm	15.88	15.88
Water Pump (Primary)	Type		-	BLDC Inv(PWM)	BLDC Inv(PWM)
	Motor Input		W	95	95
	Max static pressure		mAq	9.0	9.0
	Max water flow		LPM	75	75
Water Pump (2-zone)	Type		-	N/A	N/A
	Motor Input		W	N/A	N/A
	Max static pressure		mAq	N/A	N/A
	Max water flow		LPM	N/A	N/A
Water Heat Exchanger	Type		-	Braszed Plate Exchager	Braszed Plate Exchager
	Quantity		EA	1	1
	Internal water volume		L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)
	Insulation material		-	EPP	EPP
Water flow rate (AE044/066/090MXTP*H)		Min.	l/min	7	7
		Max.	l/min	48	48
Water flow rate (AE120/160MXTP*H)		Min.	l/min	12	12
		Max.	l/min	58	58
Backup Heater	Power		-	1Φ 2/4kW	3Φ 6kW
	Thermostat		°C	85±4	85±4
	Thermostat (Thermal Fuse)		°C	98 +0 -5	98 +0 -5
Safety device	Pressure relief valve		bar	2.9	2.9
	Flow Sensor		LPM	5~60	5~60
	Temperature & Pressure relief		-	10bar, 90°C	10bar, 90°C
Expansion vessel	Internal water volume		liter	10	10
	Max. Working pressure		MPa	0.3	0.3
	Initial Charging Pressure		MPa	0.1	0.1
Electric Expantion Vavle			-	EDM Φ3.2(Φ4.0) 1)*	EDM Φ3.2(Φ4.0) 1)*
Air Purge Valve			Φ, inch	BSPP male 3/8"	BSPP male 3/8"
Manometer			-	○	○
Magnetic filter			-	○	○
Strainer				○	○
Mixing valve			-	N/A	N/A
Check valve			-	N/A	N/A
Sound Level	Sound Pressure Level	Heating	dB(A)	AE044/066/090MXTP*H: 29 AE120/160MXTP*H: 31	AE044/066/090MXTP*H: 29 AE120/160MXTP*H: 31
	Sound Power Level	Heating	dB(A)	AE044/066/090MXTP*H: 43 AE120/160MXTP*H: 45	AE044/066/090MXTP*H: 43 AE120/160MXTP*H: 45

3. Hydro Units

3-1. Specifications

Model Name	Indoor Unit		AE160DNYTPH/EU	AE160DNYTPH/EU
	Outdoor Unit		AE***MXTPEH/EU	AE***MXTPGH/EU
Casing	Color	-	GREIGE	GREIGE
	Material	-	PCM	PCM
Packing	Material	-	EPS/BOX	EPS/BOX
	Packing Weight	kg	3.7	3.7
Pipe Insulation	Refrigerant	mm	8	8
	Water	mm	8	8
External Dimension	Net Weight	kg	53.0	53.0
	Shipping Weight	kg	60.0	60.0
	Net Dimensions (WxHxD)	mm	530 x 840 x 350	530 x 840 x 350
	Shipping Dimensions (WxHxD)	mm	602 x 1,032 x 435	602 x 1,032 x 435
Operating Temp. Range	Hydro unit ambient temperature	°C	4~35	4~35
	Heating	°C	15~55	15~55
	Cooling	°C	5~25	5~25
	D.Hot Water	°C	30~70	30~70
External Control	Booster Heater	-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Back up Boiler	-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Room Thermostat	-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
	Solar Pump	-	AC 230V (Max 10mA)	AC 230V (Max 10mA)
	Valves, 2 or 3way	-	AC 230V (Max 22mA)	AC 230V (Max 22mA)
Fuction	WiFi Embedded	-	○	○
	7 inch Full touch display	-	○	○
	Energy Monitioring	-	○	○
	PV / SG Ready	-	○	○
	2 Zone Control	-	○	○

NOTE

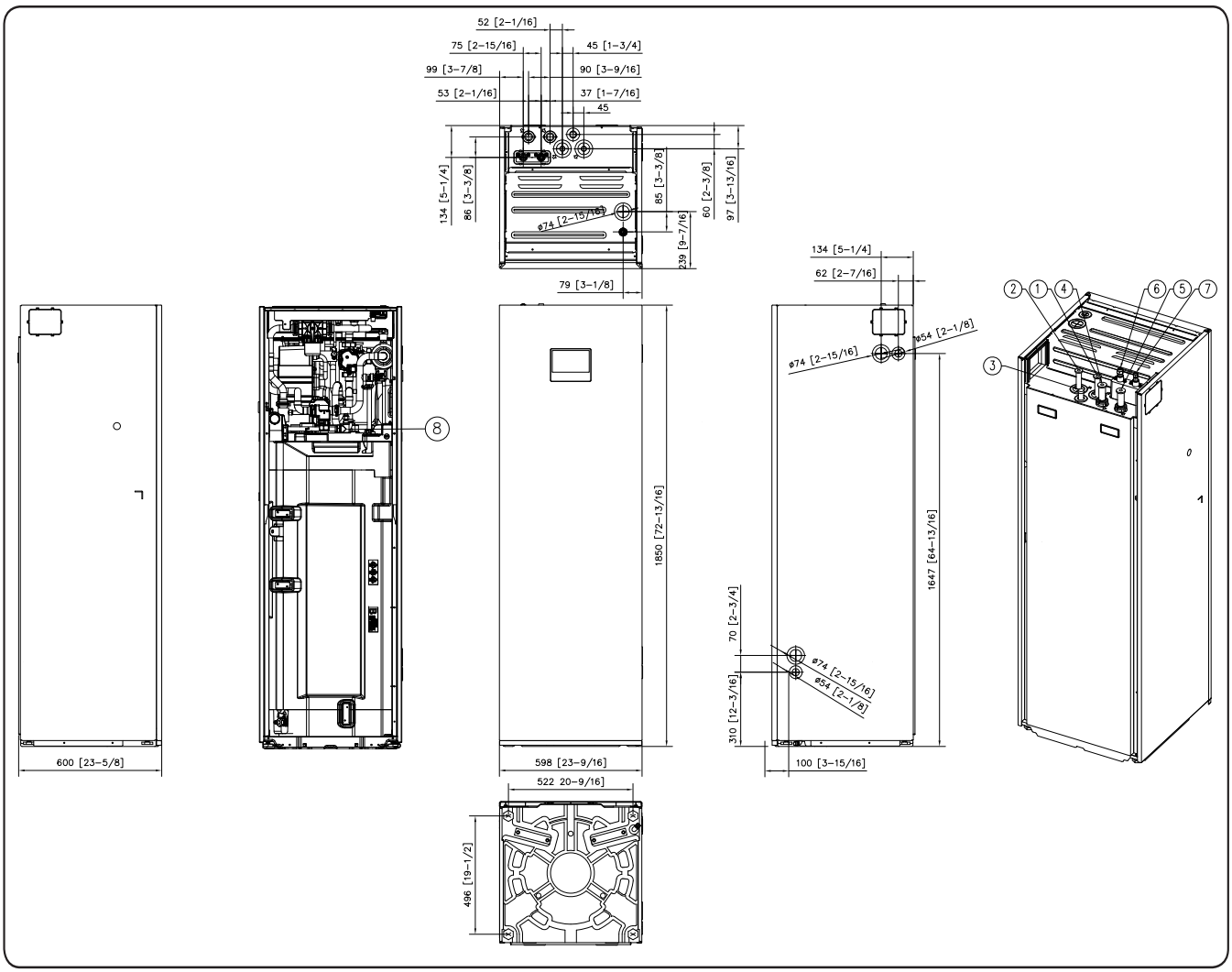
- Specifications may be subject to change without prior notice.
  1)* The dimensions inside () correspond to the AE120/160MXTP*H/EU model.
- Select wire size based on the value of MCA

3. Hydro Units

3-2. Dimensional drawing

AE200DNWTPH/EU

Unit : mm [inch]



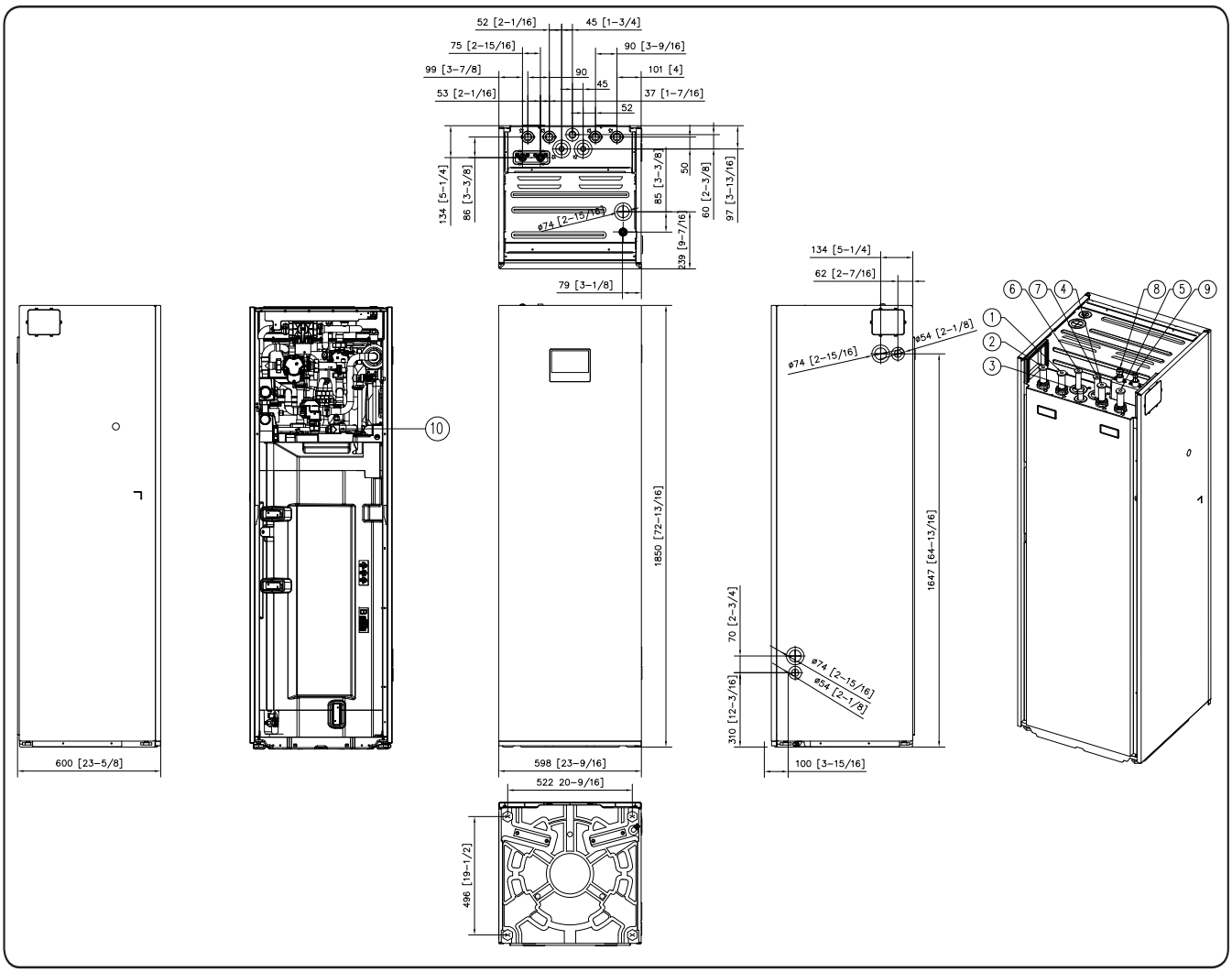
NO	Name	Description
01	Domestic Hot Water Tank Inlet	ø22, Straight pipe
02	Domestic Hot Water Tank Outlet	ø22, Straight pipe
03	Domestic Hot Water Return	ø22, Straight pipe
04	Space Heating Outlet	ø28, Straight pipe
05	Space Heating Inlet	ø28, Straight pipe
06	Outdoor inlet (From Outdoor Unit)	ø15.88, Flare Nut
07	Outdoor outlet (To Outdoor Unit)	ø9.52, Flare Nut
08	T/P valve	10bar, 90 °C

3. Hydro Units

3-2. Dimensional drawing

AE200DNXTPH/EU

Unit : mm [inch]



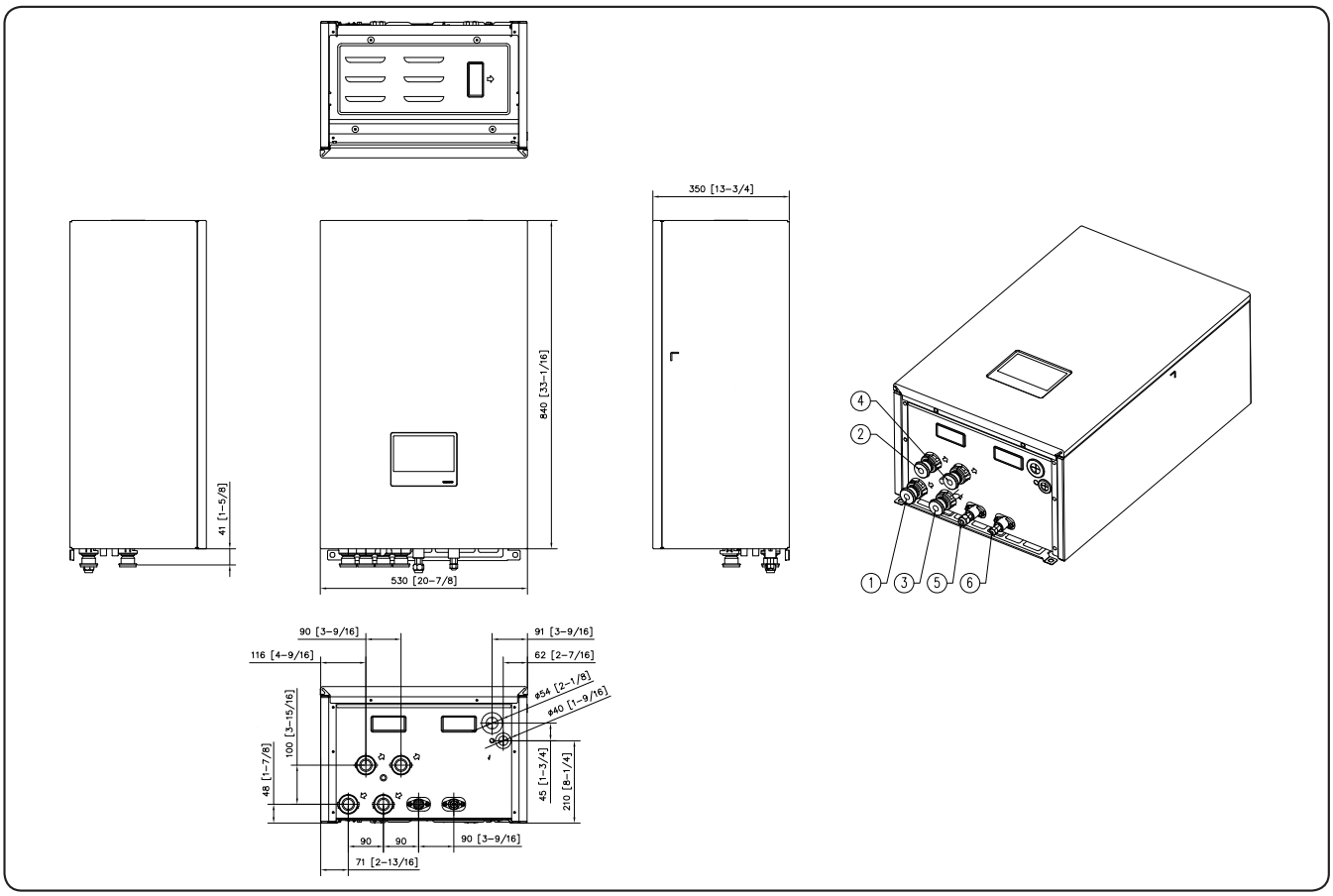
NO	Name	Description
01	Space Heating Outlet (Zone 1)	ø28, Straight pipe
02	Space Heating Inlet (Zone 1)	ø28, Straight pipe
03	Domestic Hot Water Return	ø22, Straight pipe
04	Space Heating Outlet (Zone 2)	ø28, Straight pipe
05	Space Heating Inlet (Zone 2)	ø28, Straight pipe
06	Domestic Hot Water Tank Outlet	ø22, Straight pipe
07	Domestic Hot Water Tank Inlet	ø22, Straight pipe
08	Outdoor inlet (From Outdoor Unit)	ø15.88, Flare Nut
09	Outdoor outlet (To Outdoor Unit)	ø9.52, Flare Nut
10	T/P valve	10bar, 90 °C

3. Hydro Units

3-2. Dimensional drawing

AE160DNYTPH/EU

Unit : mm [inch]



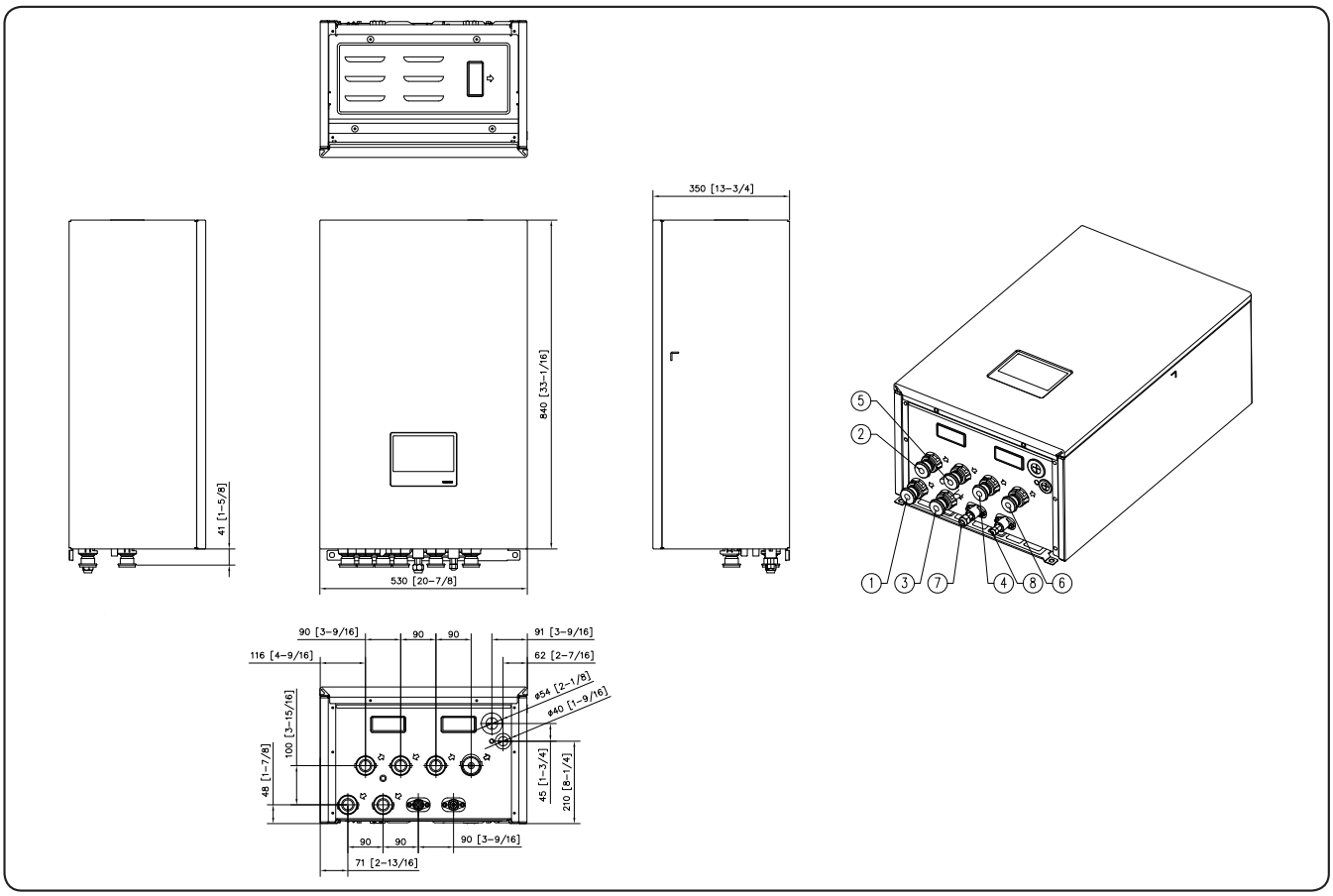
NO	Name	Description
01	Space Heating Inlet	Φ28, BSPP female, 1-1/4"
02	Space Heating Outlet	Φ28 BSPP female, 1-1/4"
03	Domestic Hot Water Tank Inlet	Φ28, BSPP female, 1-1/4"
04	Domestic Hot Water Tank Outlet	Φ28 BSPP female, 1-1/4"
05	Outdoor inlet (From Outdoor Unit)	ø15.88, Flare Nut
06	Outdoor outlet (To Outdoor Unit)	ø9.52, Flare Nut

3. Hydro Units

3-2. Dimensional drawing

AE160DNZTPH/EU

Unit : mm [inch]



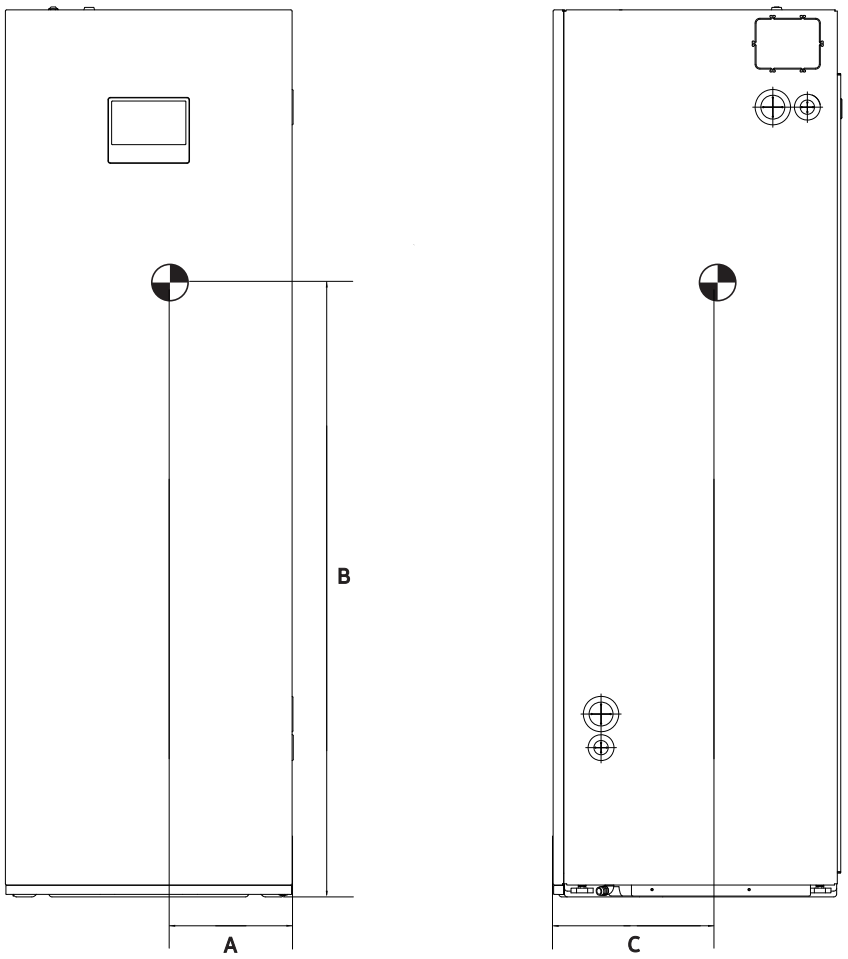
NO	Name	Description
01	Space Heating Inlet (Zone 2)	Φ28, BSPP female, 1-1/4"
02	Space Heating Outlet (Zone 2)	Φ28 BSPP female, 1-1/4"
03	Domestic Hot Water Tank Inlet	Φ28, BSPP female, 1-1/4"
04	Domestic Hot Water Tank Outlet	Φ28 BSPP female, 1-1/4"
05	Space Heating Inlet (Zone 1)	Φ28, BSPP female, 1-1/4"
06	Space Heating Outlet (Zone 1)	Φ28 BSPP female, 1-1/4"
07	Outdoor inlet (From Outdoor Unit)	ø15.88, Flare Nut
08	Outdoor outlet (To Outdoor Unit)	ø9.52, Flare Nut

3. Hydro Units

3-3. Center of Gravity

ClimateHub

Unit : mm [inch]



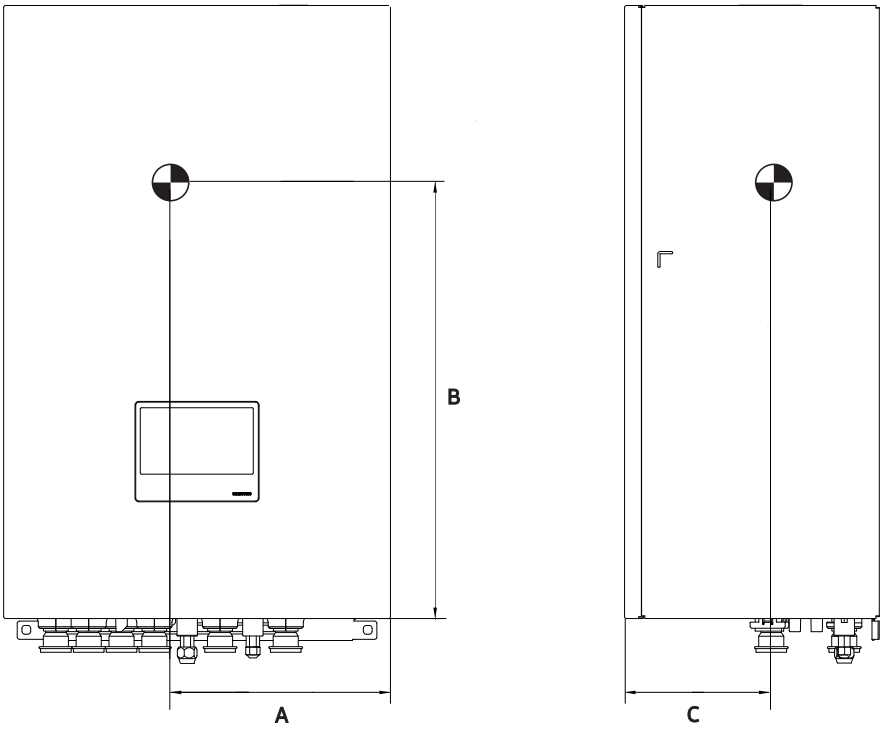
A	B	C
268 [10 - 9/16]	1,210 [47 - 5/8]	367 [14 - 7/16]

3. Hydro Units

3-3. Center of Gravity

Hydro Unit

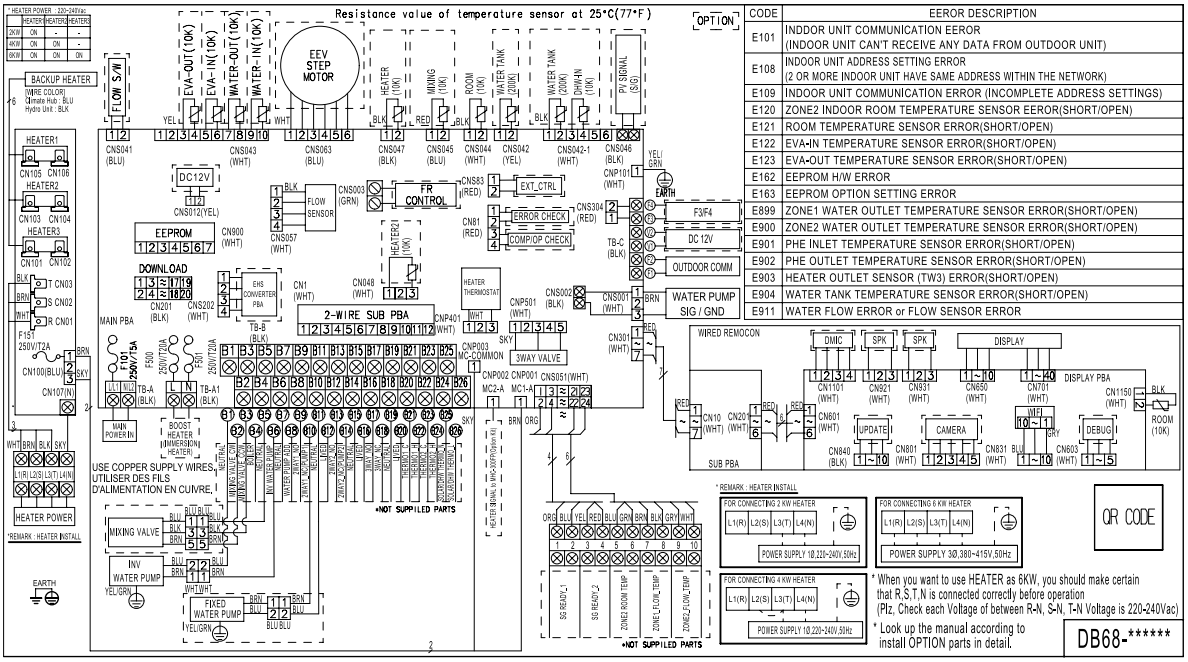
Unit : mm [inch]



A	B	C
339 [13 - 3/8]	605 [23 - 13/16]	130 [5 - 1/8]

3. Hydro Units

3-4. Electrical wiring diagram



CODE	EERROR DESCRIPTION
E101	INDDOR UNIT COMMUNICATION EERROR (INDOOR UNIT CAN'T RECEIVE ANY DATA FROM OUTDOOR UNIT)
E108	INDOOR UNIT ADDRESS SETTING ERROR (2 OR MORE INDOOR UNIT HAVE SAME ADDRESS WITHIN THE NETWORK)
E109	INDOOR UNIT COMMUNICATION ERROR (INCOMPLETE ADDRESS SETTINGS)
E120	ZONE2 INDOOR ROOM TEMPERATURE SENSOR EERORS(SHORT/OPEN)
E121	ROOM TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E122	EVA-IN TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E123	EVA-OUT TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E162	EEPROM H/W ERROR
E163	EEPROM OPTION SETTING ERROR
E899	ZONE1 WATER OUTLET TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E900	ZONE2 WATER OUTLET TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E901	PHE INLET TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E902	PHE OUTLET TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E903	HEATER OUTLET SENSOR (TW3) ERROR(SHORT/OPEN)
E904	WATER TANK TEMPERATURE SENSOR ERROR(SHORT/OPEN)
E911	WATER FLOW ERROR or FLOW SENSOR ERROR

250V T5A	FUSE of MAIN PBA	250V T20A	FUSE of BOOSTER HEATER	250V T2A	FUSE of HEATER PBA ON/OFF Signal
HEATER(10K)	Thermistor-BACKUP HEATER (10KΩ @25°C)	MIXING(10K)	Thermistor-MIXING (10KΩ @25°C)	ROOM(10K)	Thermistor-ROOM (10KΩ @25°C)
WATER TANK(200K)	Thermistor-WATER TANK (200KΩ @25°C)	DHW-IN(10K)	Thermistor-DHW IN 10KΩ @25°C)	HEATER2(10K)	Thermistor-3KW OPTION HEATER (10KΩ @25°C)
ZONE1_FLOW _TEMP	Thermistor-ZONE1 FLOW (10KΩ @25°C)	ZONE2_FLOW _TEMP	Thermistor-ZONE2 FLOW (10KΩ @25°C)	F1,F2 (COMMUNICATION)	Communication between Indoor and Outdoor

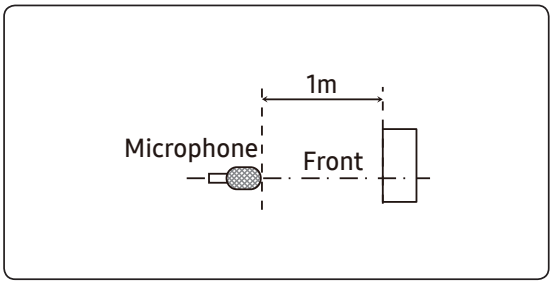
NOTES

1. This wiring diagram applies only to the Indoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

3. Hydro Units

3-5. Sound data

Sound Pressure level

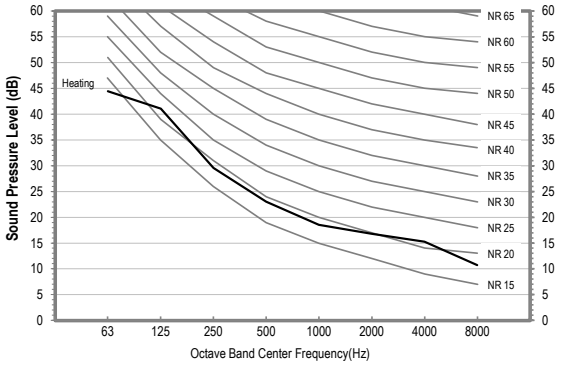


Unit: dB(A)

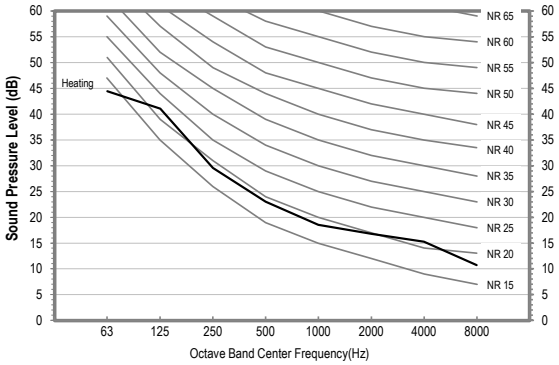
Model	Heating
AE200DNWTPH/EU+AE044MXTPEH/EU	29
AE200DNWTPH/EU+AE066MXTPEH/EU	29
AE200DNWTPH/EU+AE090MXTPEH/EU	29
AE200DNWTPH/EU+AE090MXTPGH/EU	29

- NR Curve

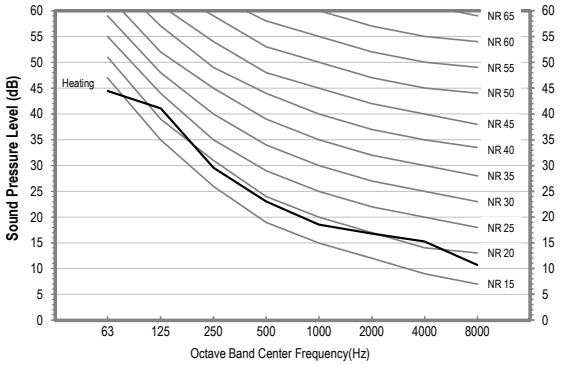
1) AE200DNWTPH/EU+AE044MXTPEH/EU



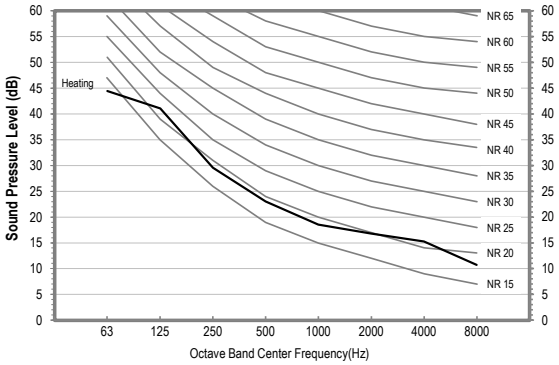
2) AE200DNWTPH/EU+AE066MXTPEH/EU



3) AE200DNWTPH/EU+AE090MXTPEH/EU



4) AE200DNWTPH/EU+AE090MXTPGH/EU



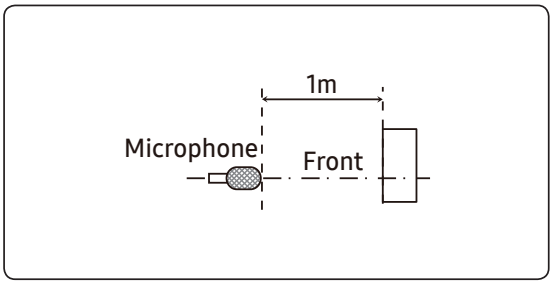
NOTE

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

3. Hydro Units

3-5. Sound data

Sound Pressure level

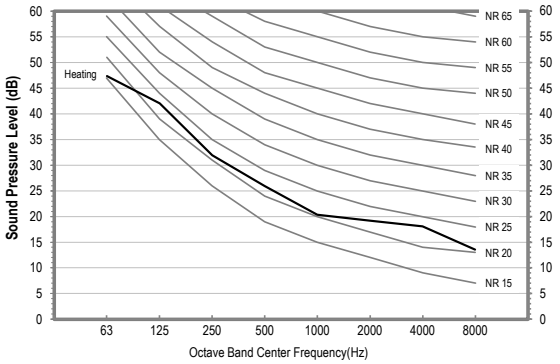


Unit: dB(A)

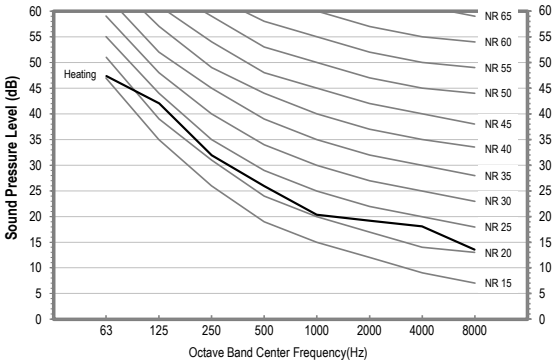
Model	Heating
AE200DNWTPH/EU+AE120MXTPEH/EU	31
AE200DNWTPH/EU+AE160MXTPEH/EU	31

- NR Curve

1) AE200DNWTPH/EU+AE120MXTPEH/EU



2) AE200DNWTPH/EU+AE160MXTPEH/EU



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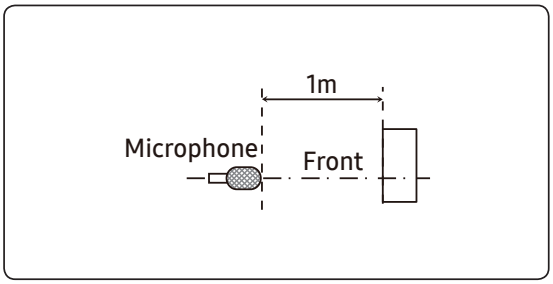
3. Hydro Units

3-5. Sound data

Sound Pressure level

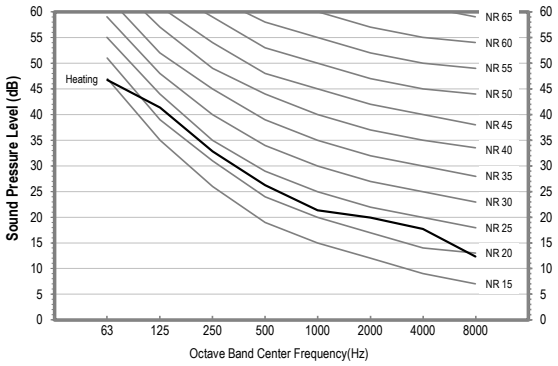


Unit: dB(A)

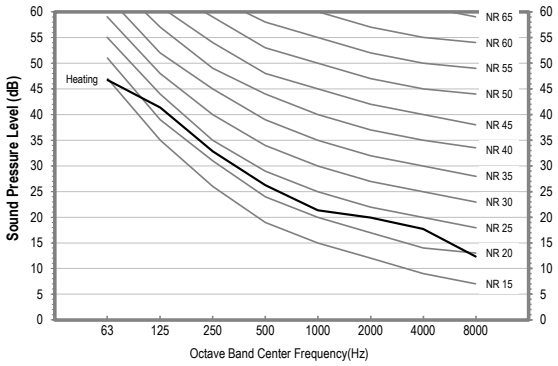
Model	Heating
AE200DNXTPH/EU+AE044MXTPEH/EU	31
AE200DNXTPH/EU+AE066MXTPEH/EU	31
AE200DNXTPH/EU+AE090MXTPEH/EU	31
AE200DNXTPH/EU+AE090MXTPGH/EU	31

- NR Curve

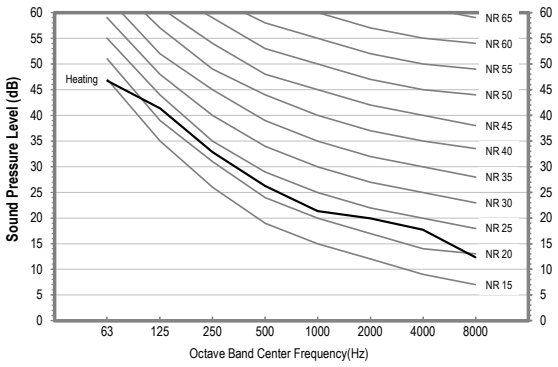
1) AE200DNXTPH/EU+AE044MXTPEH/EU



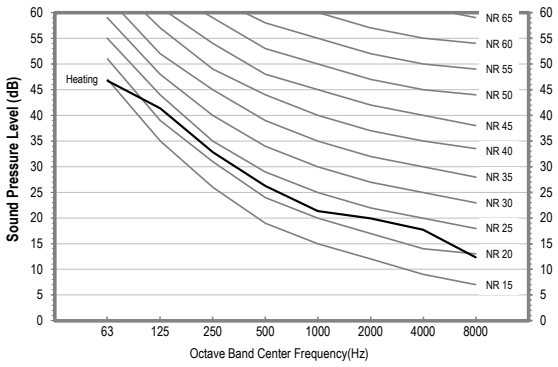
2) AE200DNXTPH/EU+AE066MXTPEH/EU



3) AE200DNXTPH/EU+AE090MXTPEH/EU



4) AE200DNXTPH/EU+AE090MXTPGH/EU



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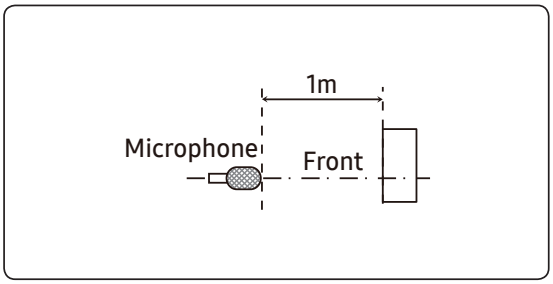
  - Reference acoustic pressure 0 dB = 20μPa

3. Hydro Units

3-5. Sound data

Sound Pressure level

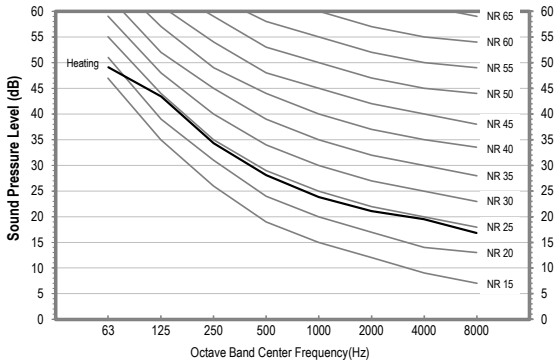


Unit: dB(A)

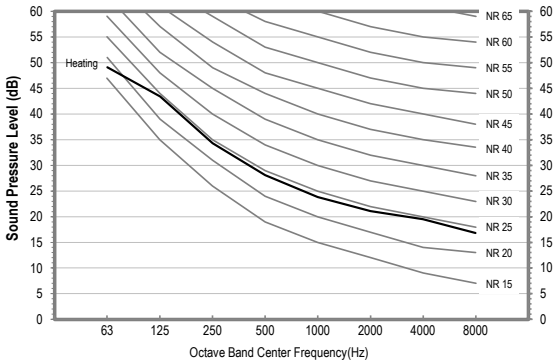
Model	Heating
AE200DNXTPH/EU+AE120MXTPEH/EU	33
AE200DNXTPH/EU+AE160MXTPEH/EU	33

- NR Curve

1) AE200DNXTPH/EU+AE120MXTPEH/EU



2) AE200DNXTPH/EU+AE160MXTPEH/EU



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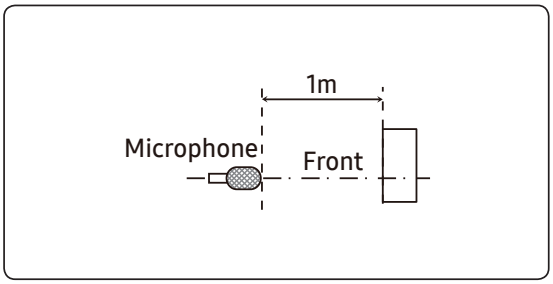
3. Hydro Units

3-5. Sound data

Sound Pressure level

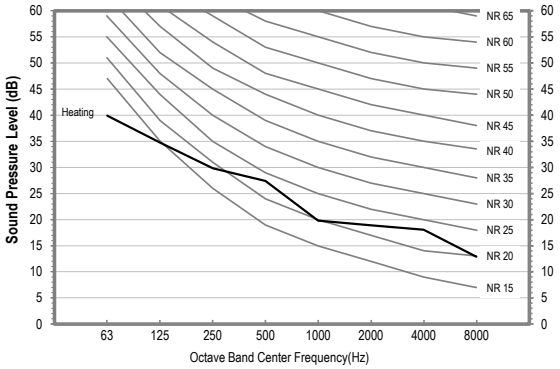


Unit: dB(A)

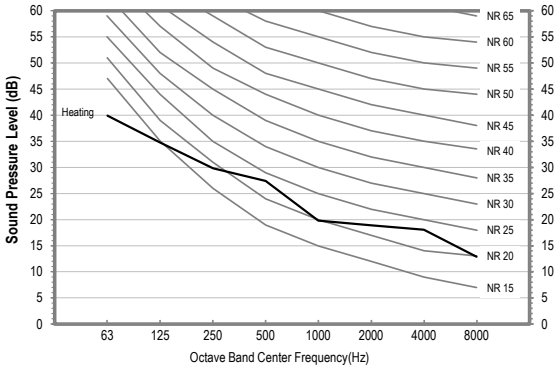
Model	Heating
AE160DNYTPH/EU+AE044MXTPEH/EU	29
AE160DNYTPH/EU+AE066MXTPEH/EU	29
AE160DNYTPH/EU+AE090MXTPEH/EU	29
AE160DNYTPH/EU+AE090MXTPGH/EU	29

- NR Curve

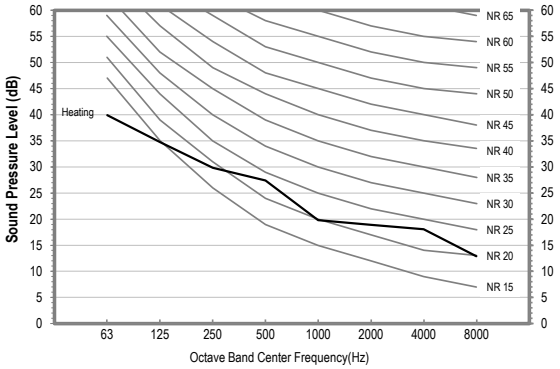
1) AE160DNYTPH/EU+AE044MXTPEH/EU



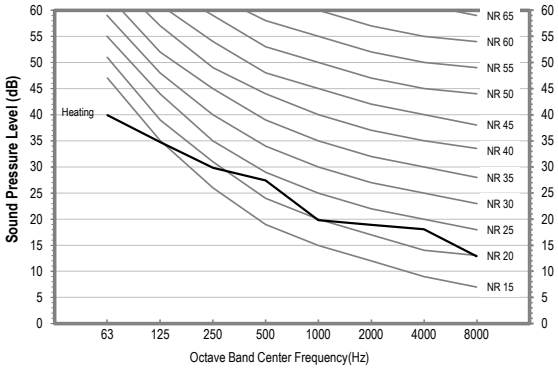
2) AE160DNYTPH/EU+AE066MXTPEH/EU



3) AE160DNYTPH/EU+AE090MXTPEH/EU



4) AE160DNYTPH/EU+AE090MXTPGH/EU



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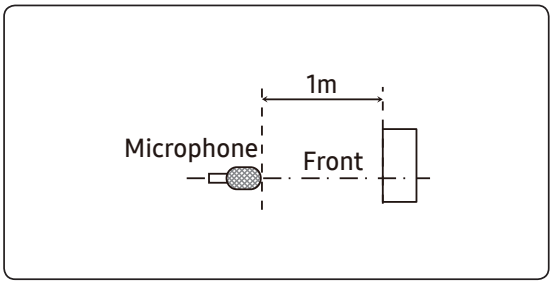
3. Hydro Units

3-5. Sound data

Sound Pressure level

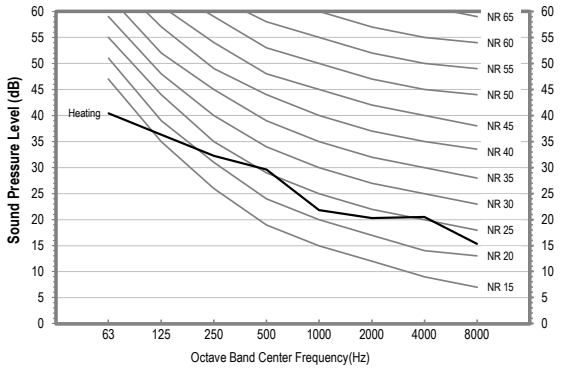


Unit: dB(A)

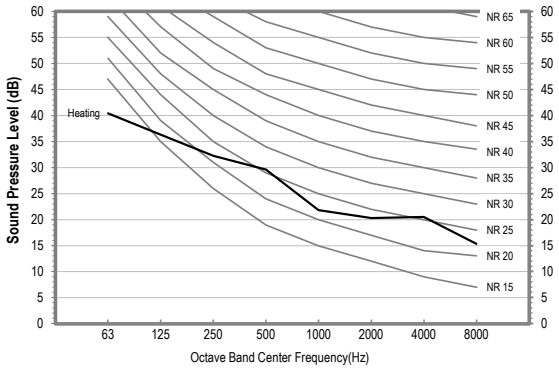
Model	Heating
AE160DNYTPH/EU+AE120MXTPEH/EU	31
AE160DNYTPH/EU+AE160MXTPEH/EU	31
AE160DNYTPH/EU+AE120MXTPGH/EU	31
AE160DNYTPH/EU+AE160MXTPGH/EU	31

- NR Curve

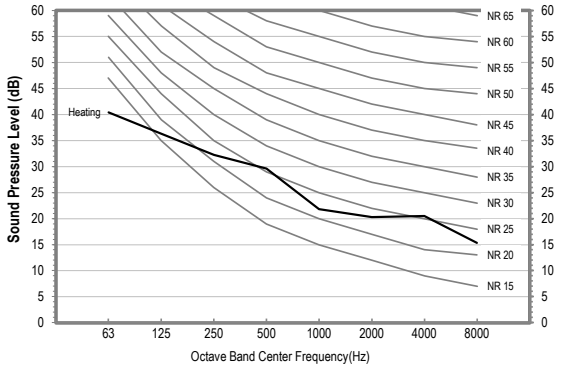
1) AE160DNYTPH/EU+AE120MXTPEH/EU



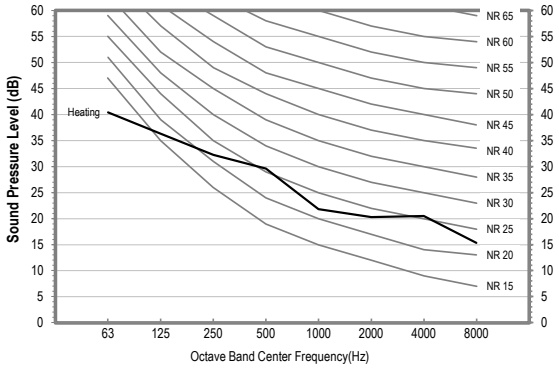
2) AE160DNYTPH/EU+AE160MXTPEH/EU



3) AE160DNYTPH/EU+AE120MXTPGH/EU



4) AE160DNYTPH/EU+AE160MXTPGH/EU



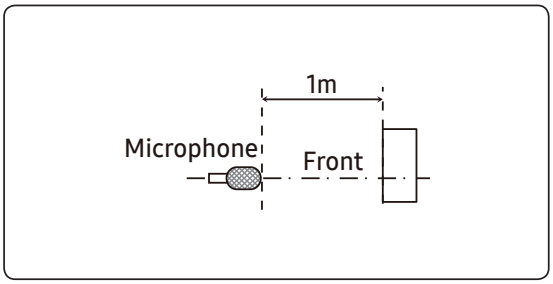
NOTE

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

3. Hydro Units

3-5. Sound data

Sound Pressure level

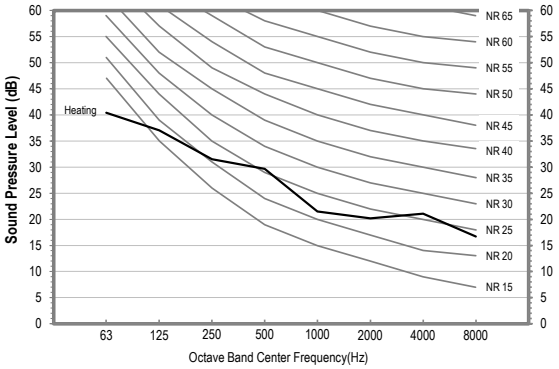


Unit: dB(A)

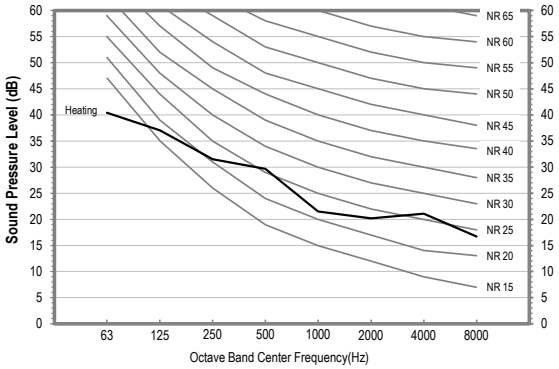
Model	Heating
AE160DNZTPH/EU+AE044MXTPEH/EU	31
AE160DNZTPH/EU+AE066MXTPEH/EU	31
AE160DNZTPH/EU+AE090MXTPEH/EU	31
AE160DNZTPH/EU+AE090MXTPGH/EU	31

- NR Curve

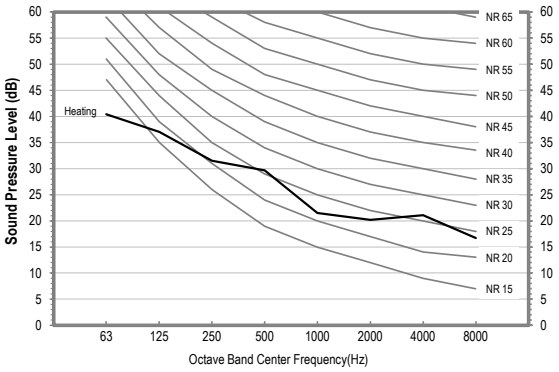
1) AE160DNZTPH/EU+AE044MXTPEH/EU



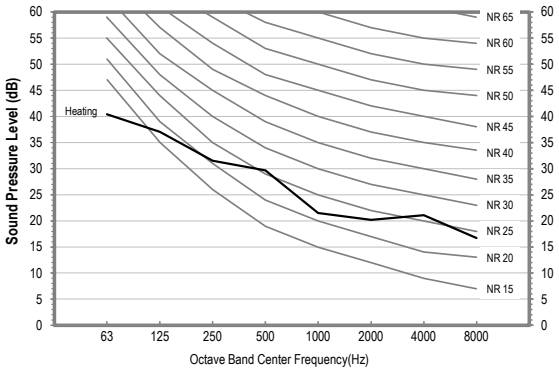
2) AE160DNZTPH/EU+AE066MXTPEH/EU



3) AE160DNZTPH/EU+AE090MXTPEH/EU



4) AE160DNZTPH/EU+AE090MXTPGH/EU



NOTE

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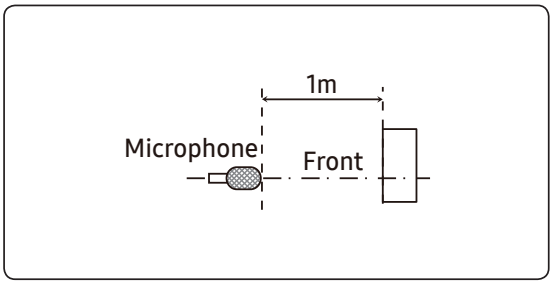
- Sound Pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

3. Hydro Units

3-5. Sound data

Sound Pressure level

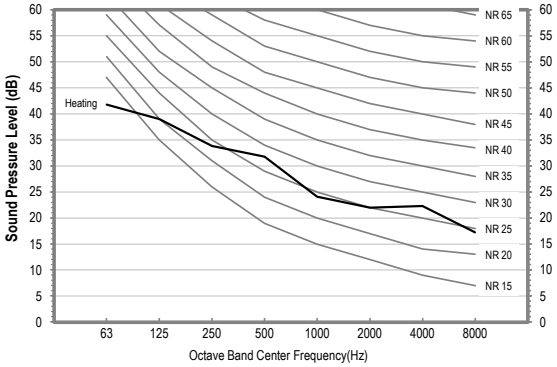


Unit: dB(A)

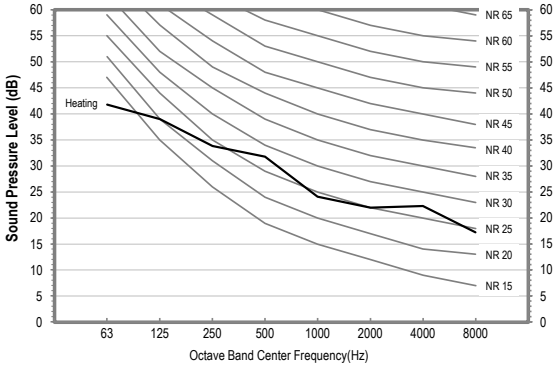
Model	Heating
AE160DNZTPH/EU+AE120MXTPEH/EU	33
AE160DNZTPH/EU+AE160MXTPEH/EU	33
AE160DNZTPH/EU+AE120MXTPGH/EU	33
AE160DNZTPH/EU+AE160MXTPGH/EU	33

- NR Curve

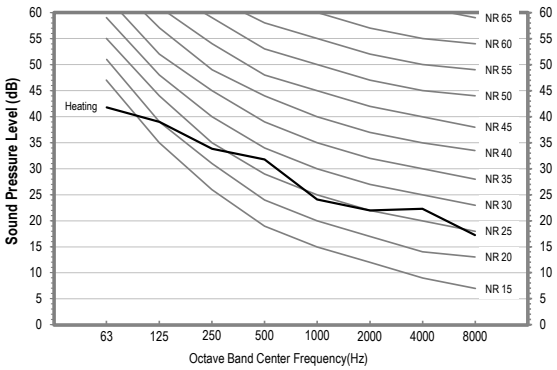
1) AE160DNZTPH/EU+AE120MXTPEH/EU



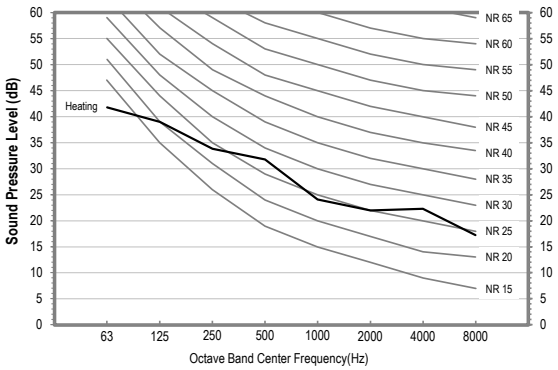
2) AE160DNZTPH/EU+AE160MXTPEH/EU



3) AE160DNZTPH/EU+AE120MXTPGH/EU



4) AE160DNZTPH/EU+AE090MXTPGH/EU



NOTE

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

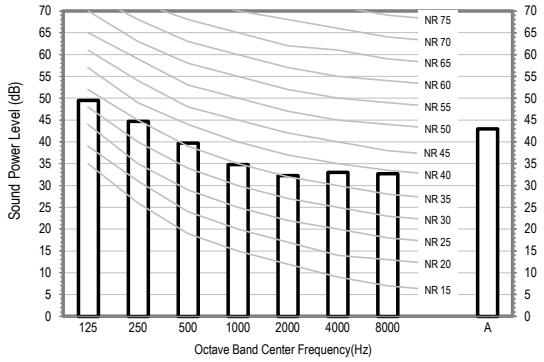
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

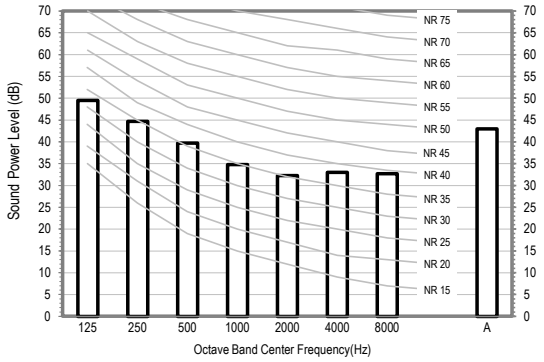
Model	Heating
AE200DNWTPH/EU+AE044MXTPEH/EU	43
AE200DNWTPH/EU+AE066MXTPEH/EU	43
AE200DNWTPH/EU+AE090MXTPEH/EU	43
AE200DNWTPH/EU+AE090MXTPGH/EU	43

- NR Curve

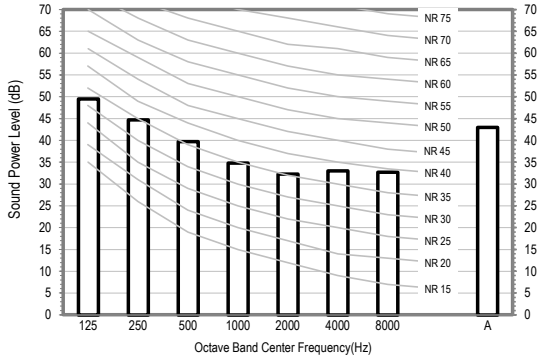
1) AE200DNWTPH/EU+AE044MXTPEH/EU



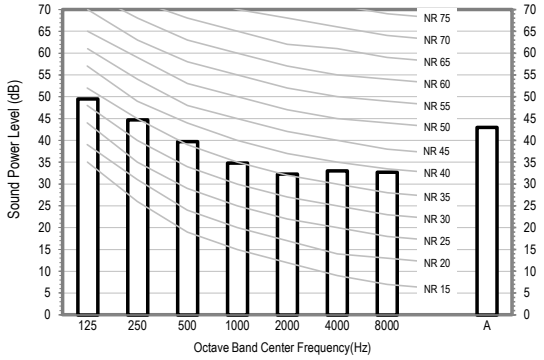
2) AE200DNWTPH/EU+AE066MXTPEH/EU



3) AE200DNWTPH/EU+AE090MXTPEH/EU



4) AE200DNWTPH/EU+AE090MXTPGH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

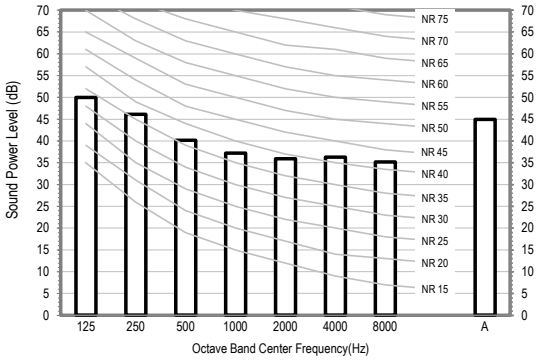
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

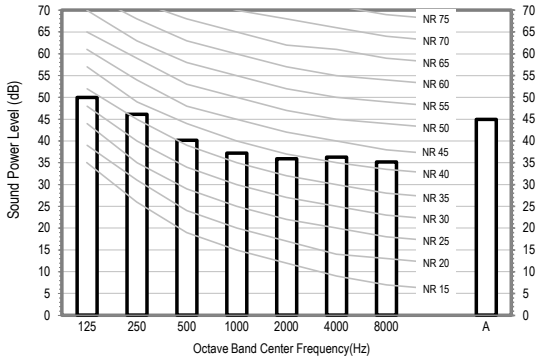
Model	Heating
AE200DNWTPH/EU+AE120MXTPEH/EU	45
AE200DNWTPH/EU+AE160MXTPEH/EU	45

- NR Curve

1) AE200DNWTPH/EU+AE120MXTPEH/EU



2) AE200DNWTPH/EU+AE160MXTPEH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

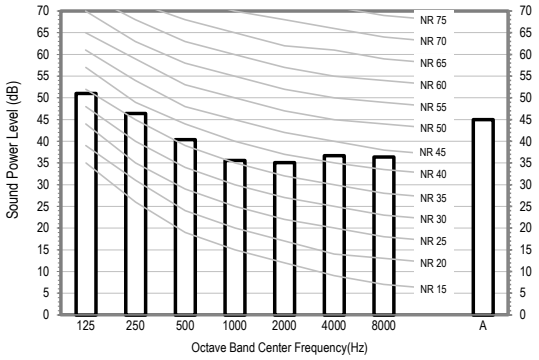
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

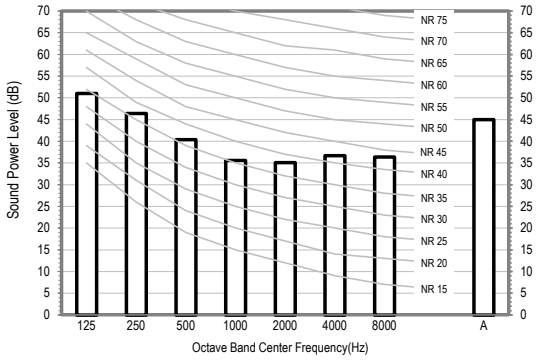
Model	Heating
AE200DNXTPH/EU+AE044MXTPEH/EU	45
AE200DNXTPH/EU+AE066MXTPEH/EU	45
AE200DNXTPH/EU+AE090MXTPEH/EU	45
AE200DNXTPH/EU+AE090MXTPGH/EU	45

- NR Curve

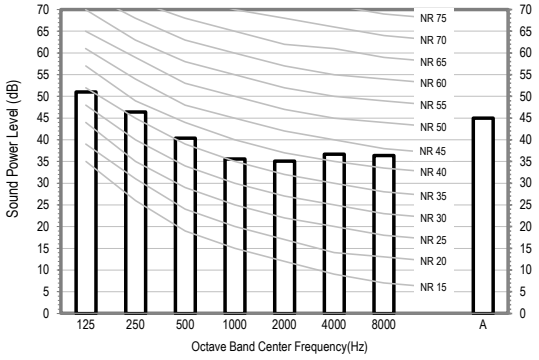
1) AE200DNXTPH/EU+AE044MXTPEH/EU



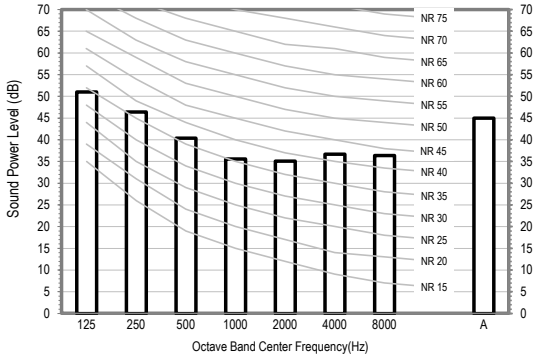
2) AE200DNXTPH/EU+AE066MXTPEH/EU



3) AE200DNXTPH/EU+AE090MXTPEH/EU



4) AE200DNXTPH/EU+AE090MXTPGH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

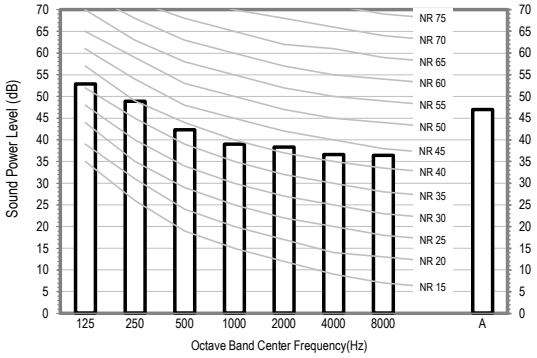
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

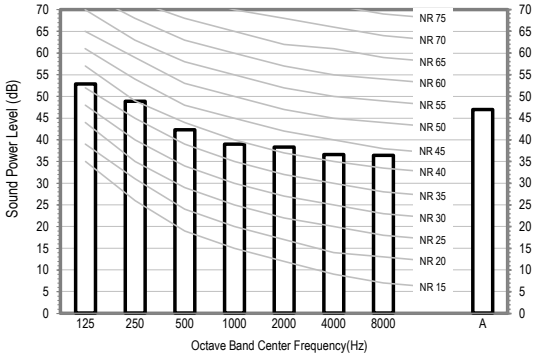
Model	Heating
AE200DNXTPH/EU+AE120MXTPEH/EU	47
AE200DNXTPH/EU+AE160MXTPEH/EU	47

- NR Curve

1) AE200DNXTPH/EU+AE120MXTPEH/EU



2) AE200DNXTPH/EU+AE160MXTPEH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

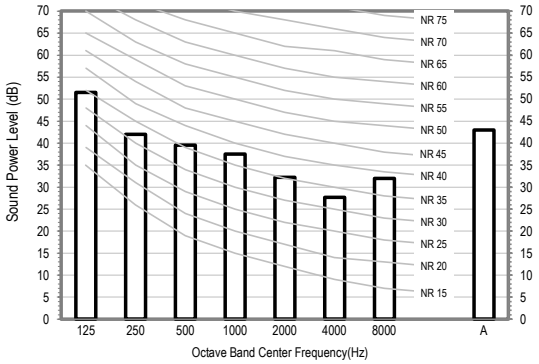
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

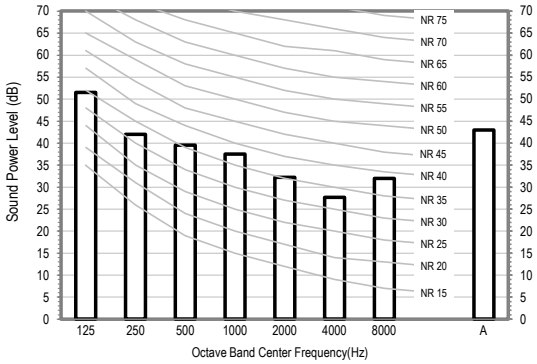
Model	Heating
AE160DNYTPH/EU+AE044MXTPEH/EU	43
AE160DNYTPH/EU+AE066MXTPEH/EU	43
AE160DNYTPH/EU+AE090MXTPEH/EU	43
AE160DNYTPH/EU+AE090MXTPGH/EU	43

- NR Curve

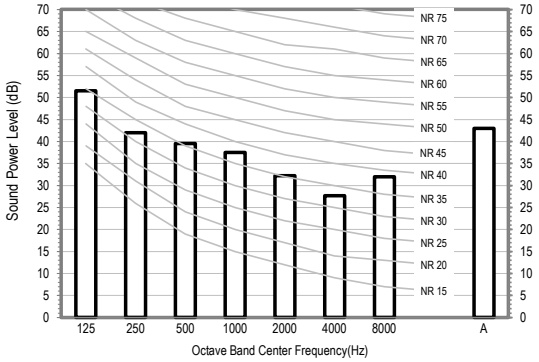
1) AE160DNYTPH/EU+AE044MXTPEH/EU



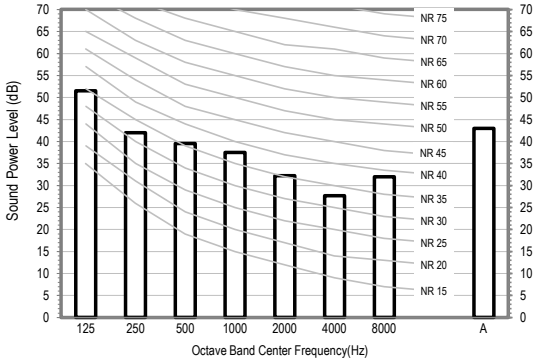
2) AE160DNYTPH/EU+AE066MXTPEH/EU



3) AE160DNYTPH/EU+AE090MXTPEH/EU



4) AE160DNYTPH/EU+AE090MXTPGH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

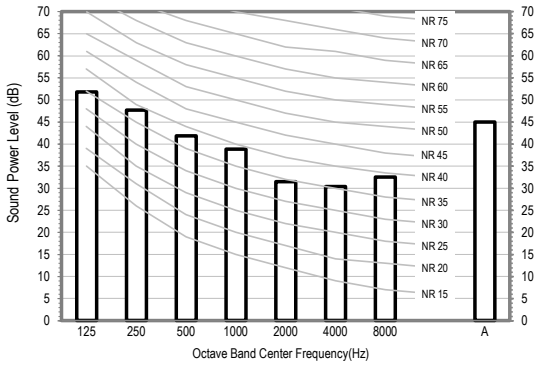
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

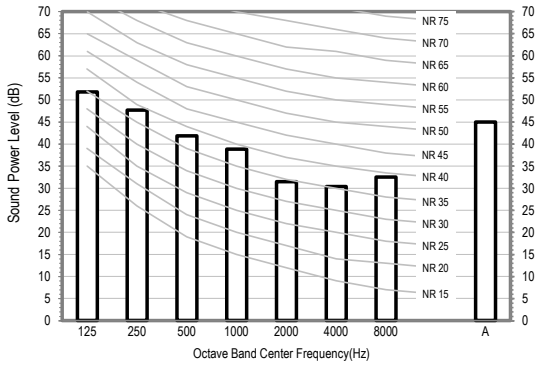
Model	Heating
AE160DNYTPH/EU+AE120MXTPEH/EU	45
AE160DNYTPH/EU+AE160MXTPEH/EU	45
AE160DNYTPH/EU+AE120MXTPGH/EU	45
AE160DNYTPH/EU+AE160MXTPGH/EU	45

- NR Curve

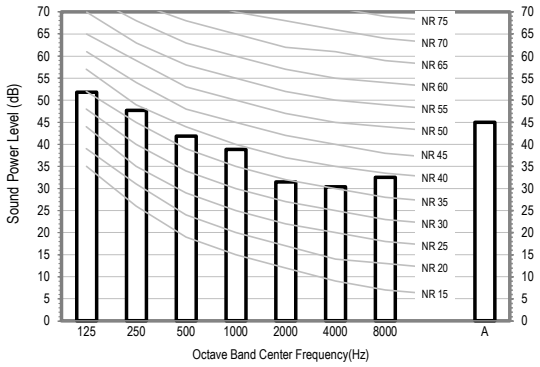
1) AE160DNYTPH/EU+AE120MXTPEH/EU



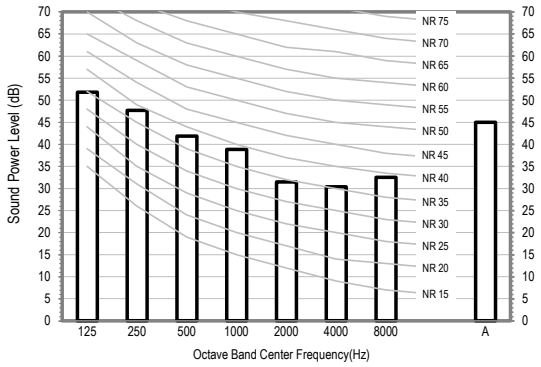
2) AE160DNYTPH/EU+AE160MXTPEH/EU



3) AE160DNYTPH/EU+AE120MXTPGH/EU



4) AE160DNYTPH/EU+AE160MXTPGH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

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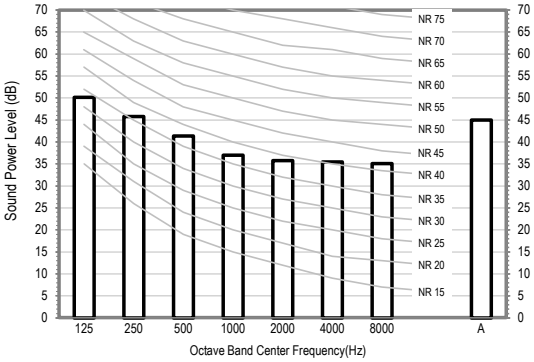
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

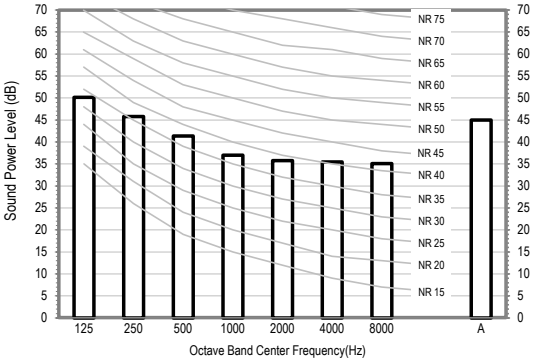
Model	Heating
AE160DNZTPH/EU+AE044MXTPEH/EU	45
AE160DNZTPH/EU+AE066MXTPEH/EU	45
AE160DNZTPH/EU+AE090MXTPEH/EU	45
AE160DNZTPH/EU+AE090MXTPGH/EU	45

- NR Curve

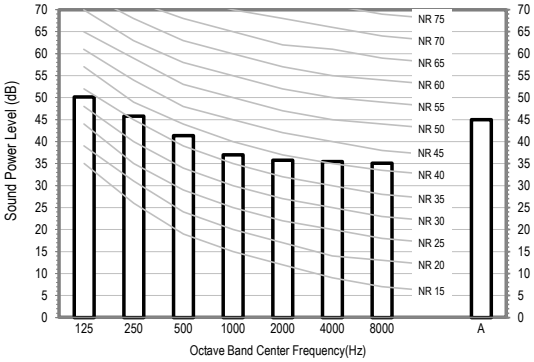
1) AE160DNZTPH/EU+AE044MXTPEH/EU



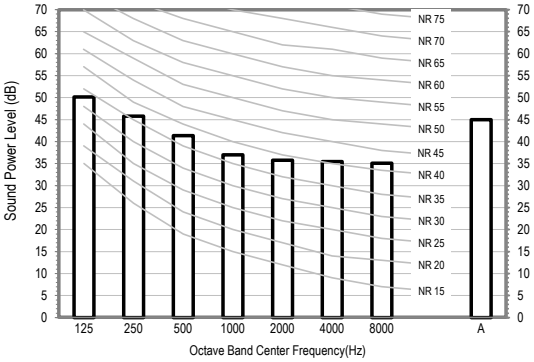
2) AE160DNZTPH/EU+AE066MXTPEH/EU



3) AE160DNZTPH/EU+AE090MXTPEH/EU



4) AE160DNZTPH/EU+AE090MXTPGH/EU



3. Hydro Units

3-5. Sound data

Sound Power level

NOTE

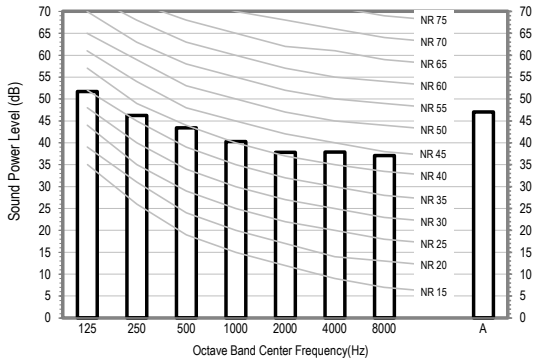
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

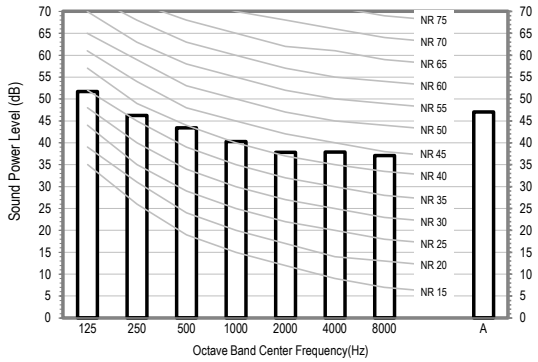
Model	Heating
AE160DNZTPH/EU+AE120MXTPEH/EU	47
AE160DNZTPH/EU+AE160MXTPEH/EU	47
AE160DNZTPH/EU+AE120MXTPGH/EU	47
AE160DNZTPH/EU+AE160MXTPGH/EU	47

- NR Curve

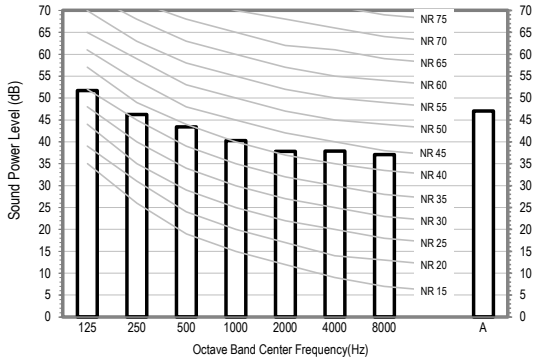
1) AE160DNZTPH/EU+AE120MXTPEH/EU



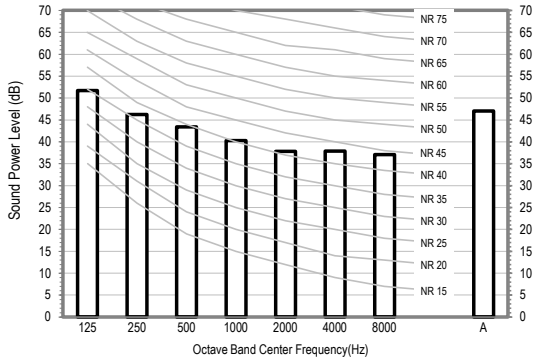
2) AE160DNZTPH/EU+AE160MXTPEH/EU



3) AE160DNZTPH/EU+AE120MXTPGH/EU



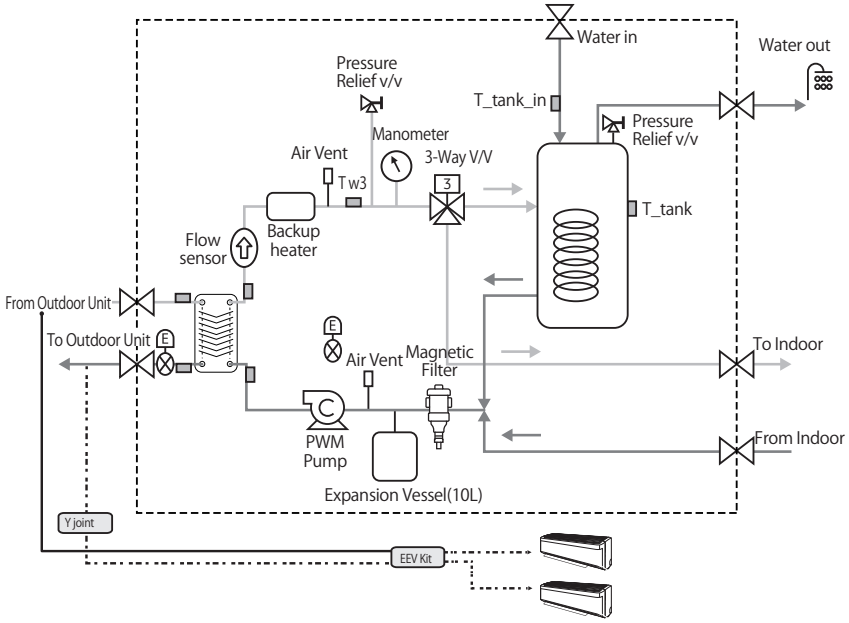
4) AE160DNZTPH/EU+AE160MXTPGH/EU



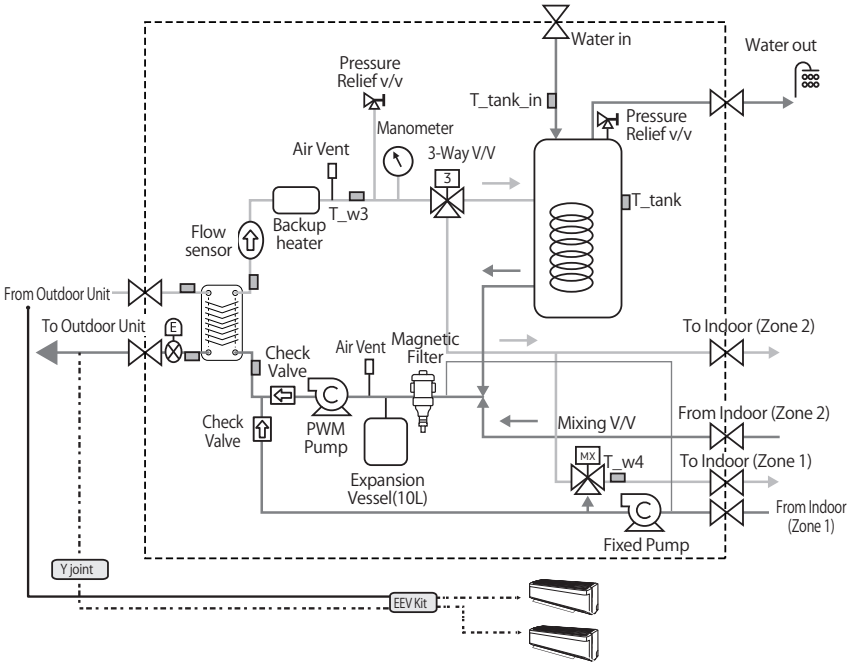
3. Hydro Units

3-6. Piping diagram

AE200DNWTPH/EU (Standard)



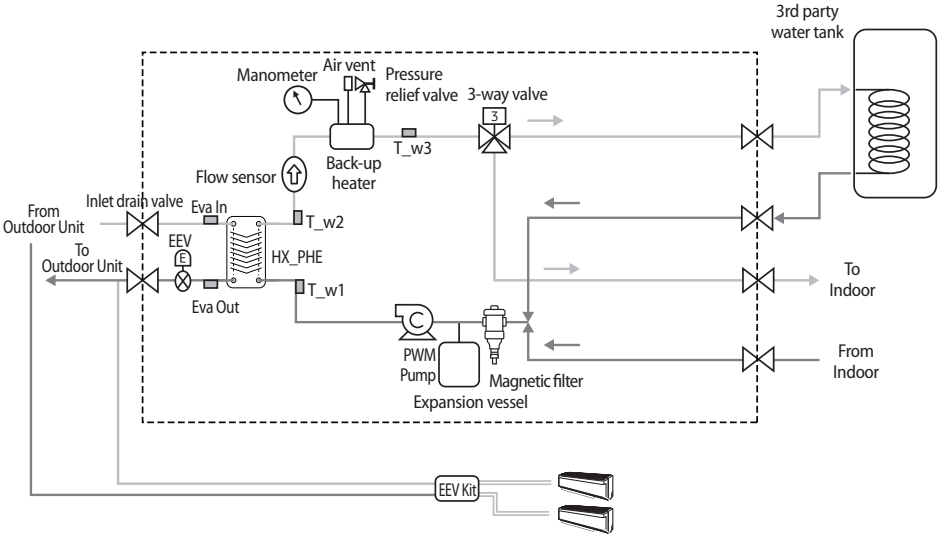
AE200DNXTPH/EU (2 Zone)



3. Hydro Units

3-6. Piping diagram

AE160DNYTPH/EU (Standard)



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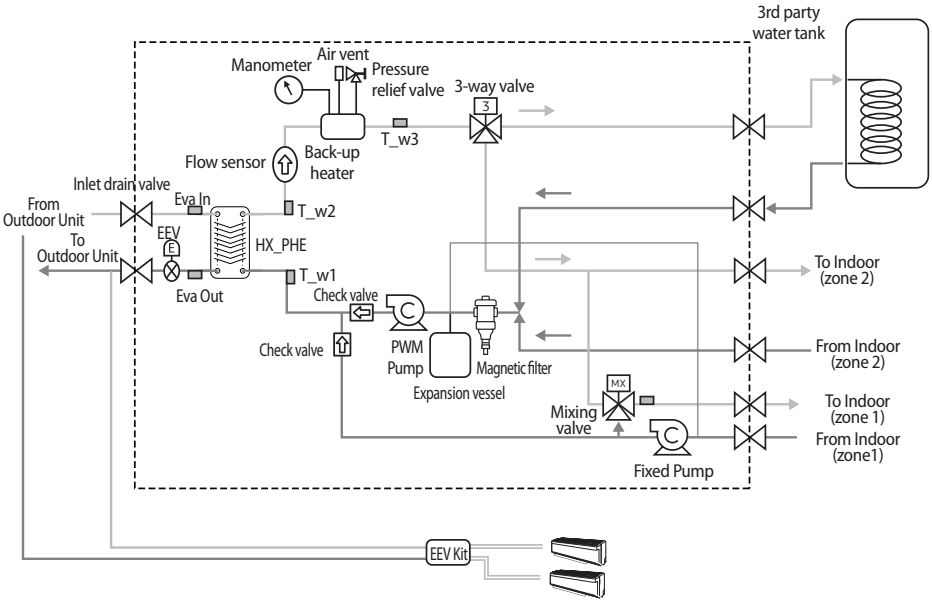


4. Indoor Units

4-1. Specifications

RAC (A3050)

Type				A3050	A3050	A3050
Model Name				AE022MNADEH/EU	AE028MNADEH/EU	AE036MNADEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Kw	2.2	2.8	3.6
		Heating	kW	2.5	3.2	4.0
Power	Power Input	Cooling	W	15	16	20
		Heating		18	24	28
	Current Input	Cooling	A	0.13	0.13	0.15
		Heating		0.15	0.19	0.20
Fan	Type		-	Cross flow Fan	Cross flow Fan	Cross flow Fan
	Quantity		EA	1	1	1
	Air Flow Rate	H/M/L (UL)	m³/min	5.4(C) / 6.5(H)	5.7(C) / 8.5(H)	7.1 (C) / 10.0 (H)
	External Pressure	Max. (Min/Std/Max)	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Feedback	BLDC Feedback	BLDC Feedback
	Output x n		W	27x1	27x1	27x1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose	ID18mm Hose
Wiring connections	For power supply Below 20m/over 20m	Min.	mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Communication	Min.	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	33 / 28 / 23	35 / 30 / 25	36 / 32 / 29
	Sound Power			50	53	54
Dimensions	Net Weight		kg	7.9	8.0	9.5
	Shipping Weight		kg	9.5	9.6	11.4
	Net Dimensions (W×H×D)		mm	750x249x246	750x249x246	826x261x261
	Shipping Dimensions (W×H×D)		mm	800x298x302	800x298x302	886x317x335
Optional Accessories	Drain pump	Model	-	-	-	-
		Option	-	-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-	-
	Virus Doctor		-	Included	Included	Included

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4. Indoor Units

4-1. Specifications

RAC (A3050)

Type				A3050	A3050
Model Name				AE056MNADEH/EU	AE071MNADEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Kw	5.6	7.1
		Heating	kW	6.3	8.0
Power	Power Input	Cooling	W	27	41
		Heating		31	53
	Current Input	Cooling	A	0.21	0.31
		Heating		0.29	0.41
Fan	Type		-	Cross flow Fan	Cross flow Fan
	Quantity		EA	1	1
	Air Flow Rate	H/M/L (UL)	m³/min	11.8 (C) / 15.0 (H)	14.8 (C) / 17.4 (H)
	External Pressure	Max. (Min/Std/Max)	mmAq	-	-
			Pa	-	-
Fan Motor	Type		-	BLDC Feedback	BLDC Feedback
	Output x n		W	27x1	27x1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4")	9.52 (3/8")
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2")	15.88 (5/8")
	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose
Wiring connections	For power supply Below 20m/over 20m	Min.	mm²	1.5/2.5	1.5/2.5
	Communication	Min.	mm²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	39 / 35 / 32	44 / 40 / 36
	Sound Power			57	61
Dimensions	Net Weight		kg	14.3	14.3
	Shipping Weight		kg	16.7	16.7
	Net Dimensions (W×H×D)		mm	1065x301x294	1065x301x294
	Shipping Dimensions (W×H×D)		mm	1123x354x384	1123x354x384
Optional Accessories	Drain pump	Model	-	-	-
		Option	-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-
	Virus Doctor		-	Included	Included

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4. Indoor Units

4-1. Specifications

Duct (Slim)

Type				Slim Duct	Slim Duct	Slim Duct	Slim Duct
Model Name				AE022ANLDEH/EU	AE028ANLDEH/EU	AE036ANLDEH/EU	AE056ANLDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Kw	2.2	2.8	3.6	5.6
		Heating	kW	2.5	3.2	4.0	6.3
Power	Power Input	Cooling	W	30	34	40	73
		Heating		30	36	42	68
	Current Input	Cooling	A	0.25	0.28	0.33	0.62
		Heating		0.25	0.30	0.35	0.58
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2	2
	Air Flow Rate	H/M/L (UL)	m³/min	6.00/4.90/3.80	7.05/5.15/4.35	8.20/6.50/4.90	15.5/12.5/9.5
	External Pressure	Max. (Min/Std/Max)	mmAq	0/1/3	0/1/3	0/1/3	0/2/4
			Pa	0/9.8/29.4	0/9.8/29.4	0/9.8/29.4	0/19.6/39.2
Fan Motor	Type		-	SSR non-feedback	SSR non-feedback	SSR non-feedback	SSR non-feedback
	Output x n		W	69x1	69x1	69x1	84x1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply Below 20m/ over 20m	Min.	mm²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Communication	Min.	mm²	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	26 / 24 / 21	27 / 25 / 23	29 / 26 / 23	34 / 30 / 26
	Sound Power			48	49	51	54
Dimensions	Net Weight		kg	15.3	15.7	15.7	18.9
	Shipping Weight		kg	18.2	18.6	18.6	21.8
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440	900x199x440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	949 x 280 x 544	949 x 280 x 544	1,151x280x544
Optional Accessories	Drain pump	Model	-	MDP-E075SEE3D (built-in)	MDP-E075SEE3D (built-in)	MDP-E075SEE3D (built-in)	MDP-E075SEE3D (built-in)
		Option	-	Option	Option	Option	Option
		Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Y	Y	Y	Y

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4. Indoor Units

4-1. Specifications

Duct (MSP)

Type				MSP Duct	MSP Duct	MSP Duct	MSP Duct
Model Name				AE036BNMPEH/EU	AE056BNMPEH/EU	AE071ANMPEH/EU	AE090ANMPEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Kw	3.6	5.6	7.1	9.0
		Heating	kW	4.0	6.3	8.0	10.0
Power	PowerInput	Cooling	W	45	70	110	135
		Heating		45	70	110	135
	Current Input	Cooling	A	0.4	0.6	1.0	1.20
		Heating		0.4	0.6	1.0	1.20
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2	2
	AirFlowRate	H/M/L (UL)	m³/min	12/9.5/7.5	16/13.5/9.0	21/18/13	27/22/16
	External Pressure	Max. (Min/Std/Max)	mmAq	0/2.5/15	0/3/15	0/3/15	0/4/15
			Pa	0/24.5/147	0/29.4/147	0/29.4/147.1	0/39.2/147.1
Fan Motor	Type		-	BLDC feedback	BLDC feedback	BLDC feedback	BLDC feedback
	Output x n		W	153 x 1	153 x 1	153x1	153x1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")
	Drain Pipe		Φ, mm	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)
Wiring connections	For power supply Below 20m/over 20m	Min.	mm²	-	-	-	-
	Communication	Min.	mm²	-	-	-	-
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EDM EEV3.2c Sanhua	EDM EEV3.2c Sanhua	EDM EEV3.2c Sanhua	EDM EEV3.2c Sanhua
Sound	Sound Pressure	H/M/L	dB(A)	30 / 27 / 24	32 / 29 / 25	36 / 32 / 27	37 / 33 / 29
	Sound Power			-	-	60	61
Dimensions	Net Weight		kg	27.9	27.9	27.9	35.4
	Shipping Weight		kg	32.0	32.0	32.0	40.5
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	850 x 250 x 700	850x250x700	1,200x250x700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1064 x 320 x 784	1,064x320x784	1,429x320x779
Optional Accessories	Drain pump	Model	-	-	-	-	-
		Option	-	-	-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-	-	-
	Virus Doctor		-	-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4. Indoor Units

4-1. Specifications

Console

Type				CONSOLE	CONSOLE	CONSOLE	CONSOLE
Model Name				AE022MNJDEH/EU	AE028MNJDEH/EU	AE036MNJDEH/EU	AE056MNJDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Kw	2.2	2.8	3.6	5.6
		Heating	kW	2.5	3.2	4.0	6.3
Power	Power Input	Cooling	W	16	30	35	62
		Heating		16	30	35	62
	Current Input	Cooling	A	0.13	0.25	0.29	0.49
		Heating		0.13	0.25	0.29	0.49
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		EA	1	1	1	1
	Air Flow Rate	H/M/L (UL)	m³/min	6.3/5.4/4.9	7.0/6.0/5.0	8.50/7.50/6.50	13.0/11.5/10.0
	External Pressure	Max. (Min/Std/Max)	mmAq	-	-	-	-
			Pa	-	-	-	-
Fan Motor	Type		-	BLDC feedback	BLDC feedback	BLDC feedback	BLDC feedback
	Output x n		W	37 x 1	37 x 1	37 x 1	37 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose	ID18mm Hose	ID18mm Hose
Wiring connections	For power supply Below 20m/ over 20m	Min.	mm²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Communication	Min.	mm²	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	34 / 32 / 30	38 / 36 / 34	39 / 37 / 34	43 / 40 / 37
	Sound Power			52	58	59	64
Dimensions	Net Weight		kg	15.5	16.0	16.0	16.0
	Shipping Weight		kg	20.5	21.0	21.0	21.0
	Net Dimensions (W×H×D)		mm	720x620x199	720x620x199	720x620x199	720x620x199
	Shipping Dimensions (W×H×D)		mm	810x710x295	810x710x295	810x710x295	810x710x295
Optional Accessories	Drain pump	Model	-	-	-	-	-
		Option	-	-	-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-	-	-
	Virus Doctor		-	Included	Included	Included	Included

NOTE

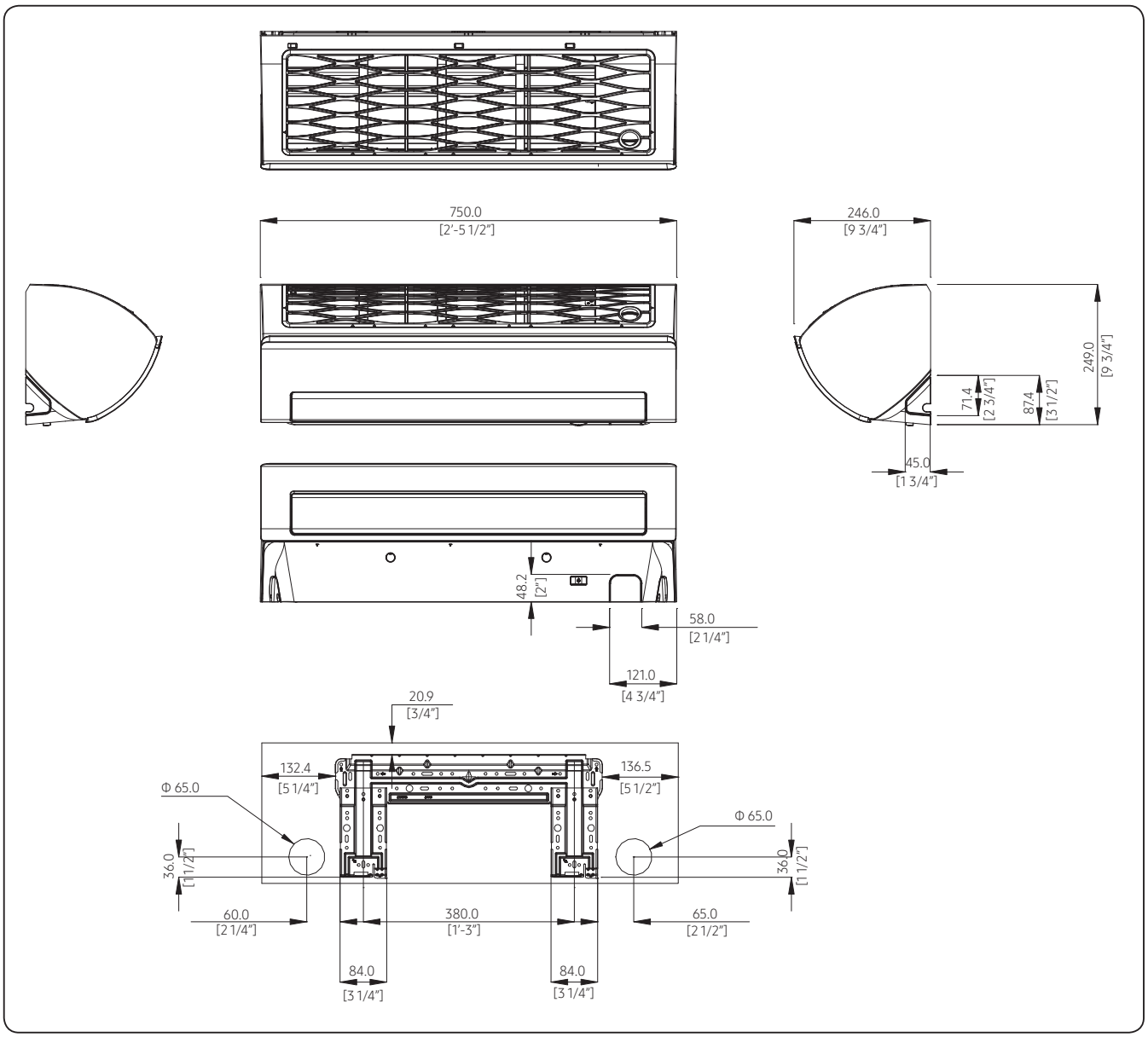
- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4. Indoor Units

4-2. Dimensional drawing

RAC (A3050) : AE022/028MNDEH✱✱

Unit : mm / inches



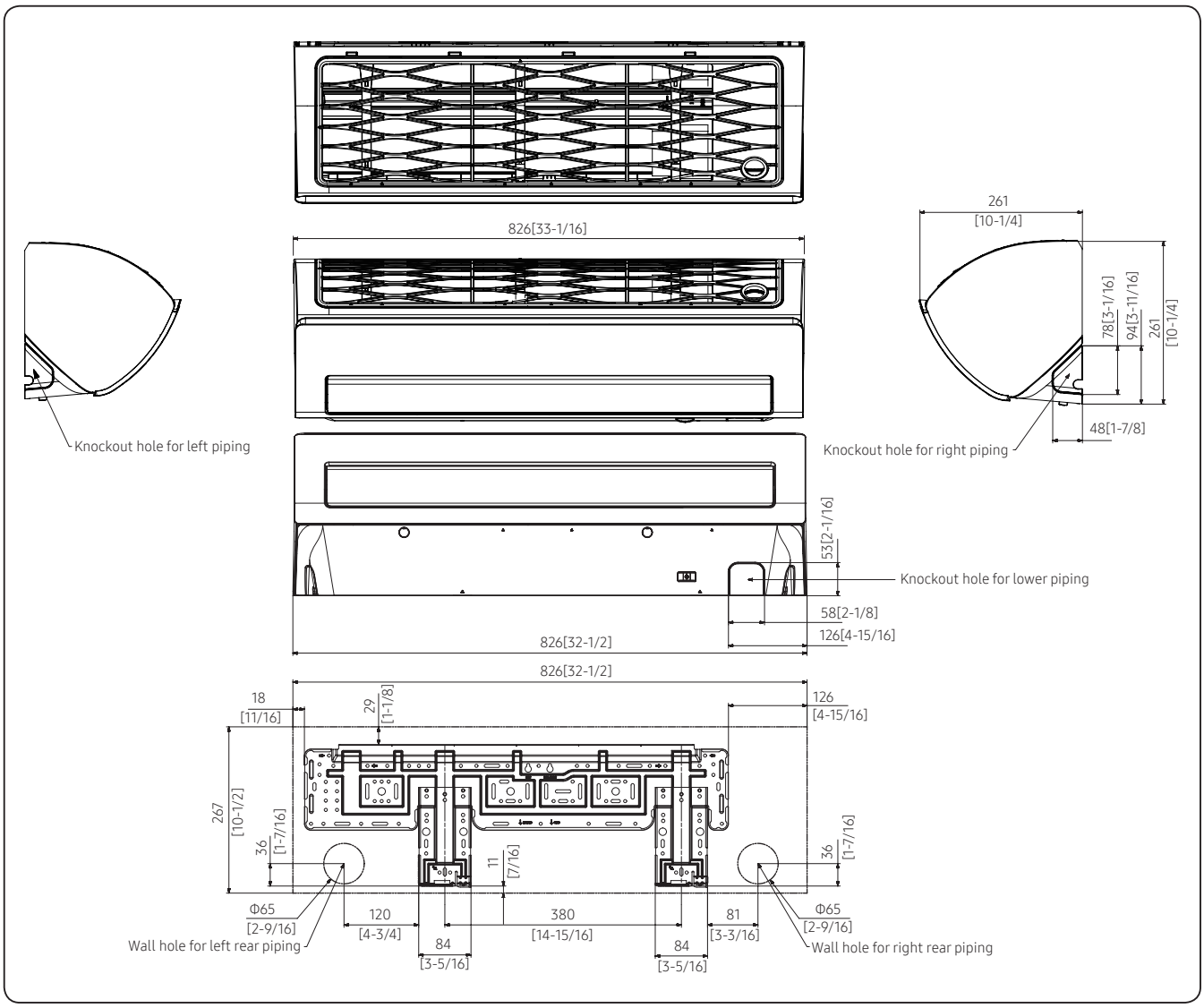
NO	Name	Description	
		2.2 kW	2.8 kW
1	Refrigerant gas pipe	Φ12.7 Flare	
2	Refrigerant liquid pipe	Φ6.35 Flare	
3	Drain pipe connection	ID 18 Hose	

4. Indoor Units

4-2. Dimensional drawing

RAC (A3050) : AE036MNDEH✳✳

Unit : mm / inches



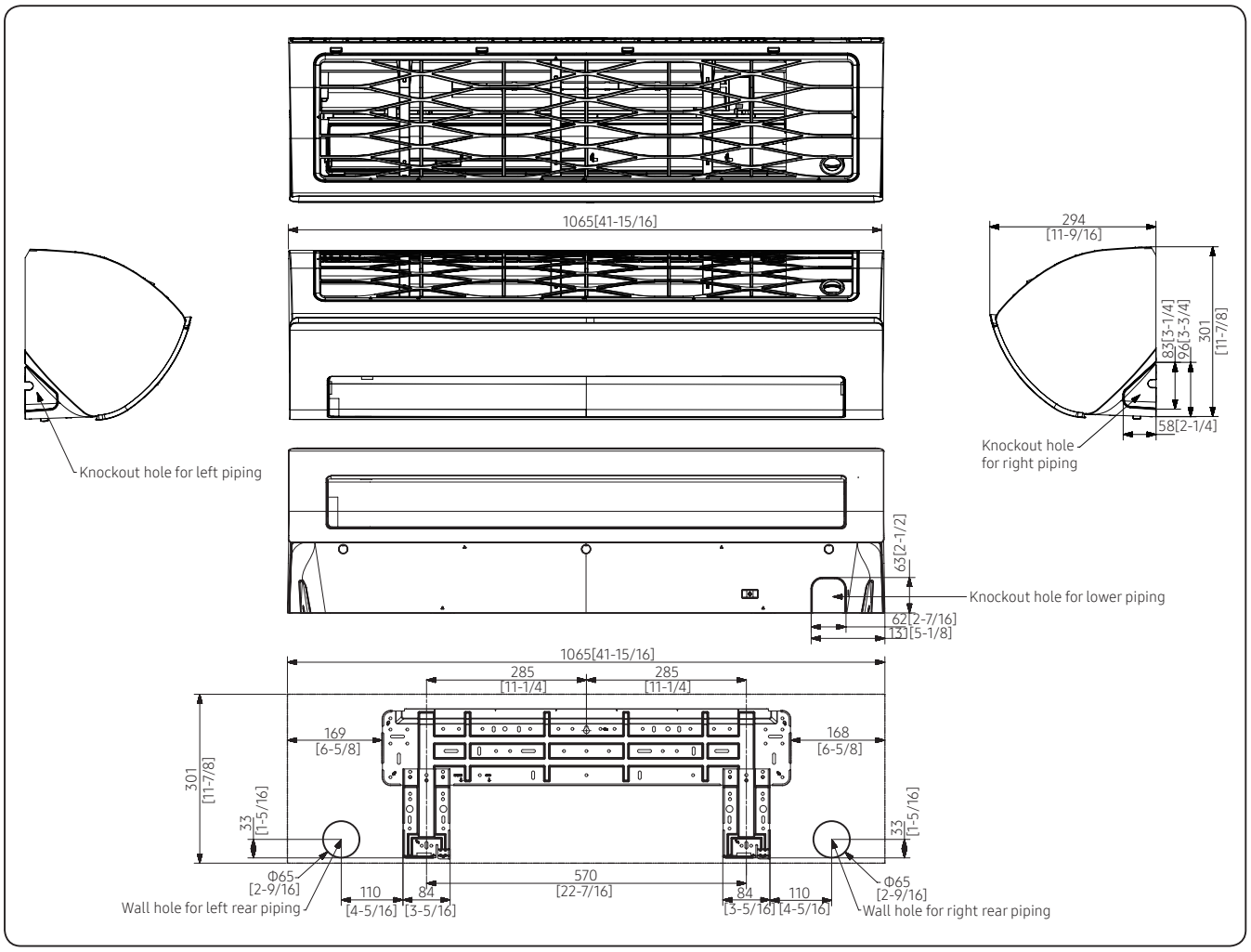
NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(Φ1/2)
3	Drain pipe connection	ID 18 Hose
4	Power & Communication wiring conduit	-

4. Indoor Units

4-2. Dimensional drawing

RAC (A3050) : AE056/071MNDEH✱✱

Unit : mm



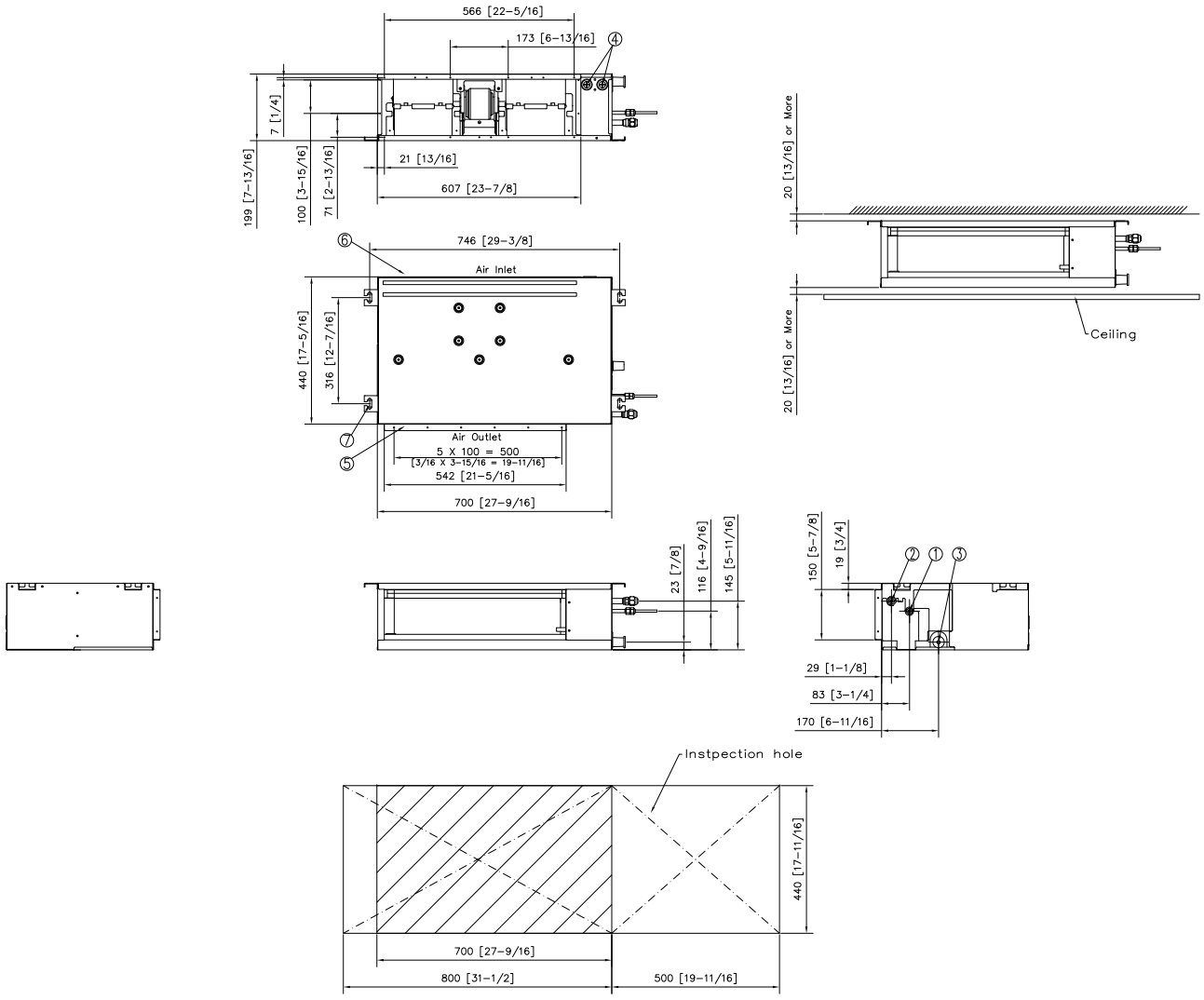
NO	Name	Description	
		5.6 kW	7.1 kW
1	Liquid pipe connection	Φ6.35(1/4)	Φ9.52(3/8)
2	Gas pipe connection	Φ12.7(Φ1/2)	Φ15.88(Φ5/8)
3	Drain pipe connection	ID 18 Hose	
4	Power & Communication wiring conduit	-	

4. Indoor Units

4-2. Dimensional drawing

Slim Duct : AE022/028/036ANLDEH✱✱

Unit : mm



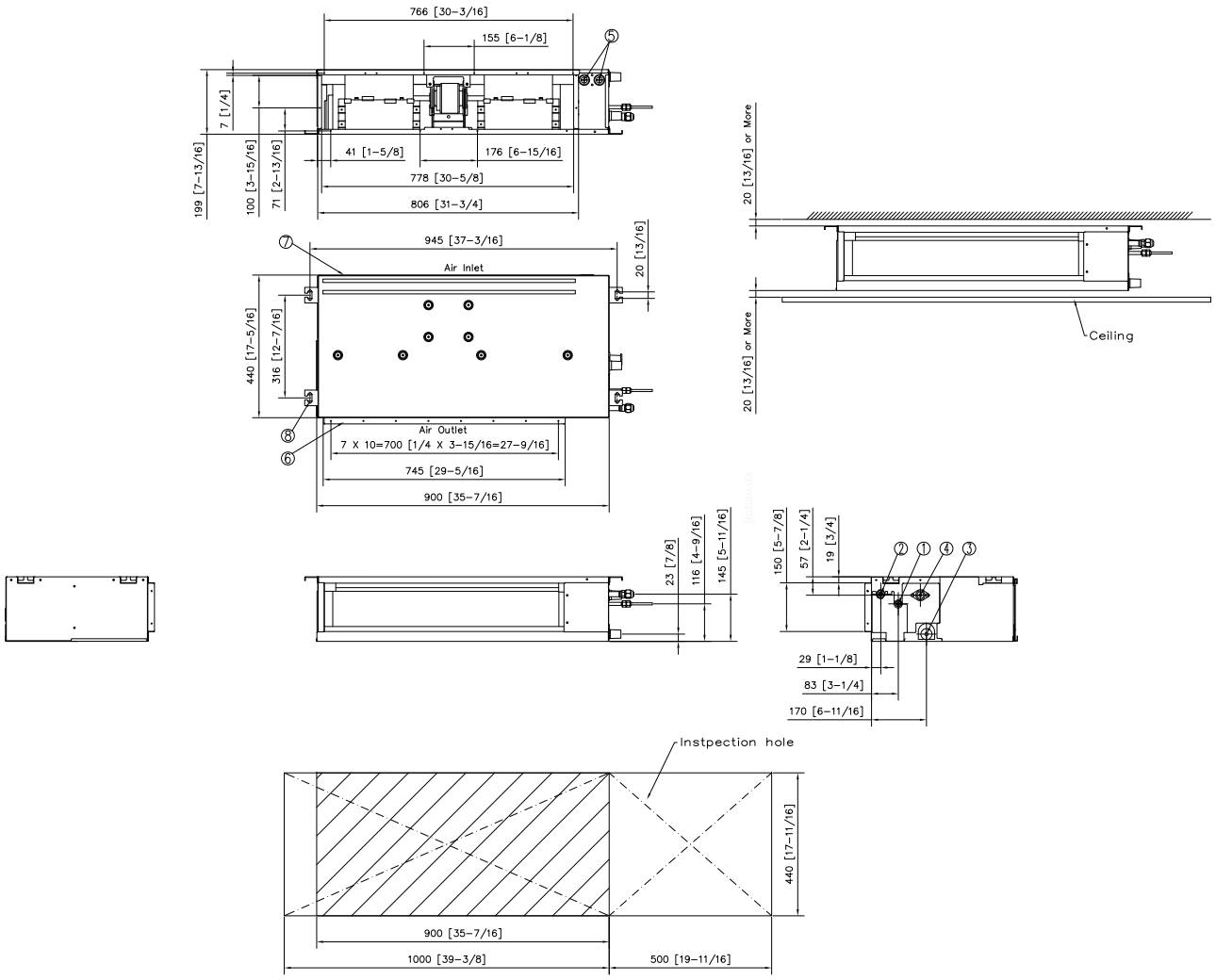
NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4")
2	Gas pipe connection	Φ12.70(1/2")
3	Drain pipe connection without drain pump	OD 25, ID 20
4	Drain pipe connection with drain pump	OD 25, ID 20
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	Φ9.52 or M10

4. Indoor Units

4-2. Dimensional drawing

Slim Duct : AE056ANLDEH✱✱

Unit : mm



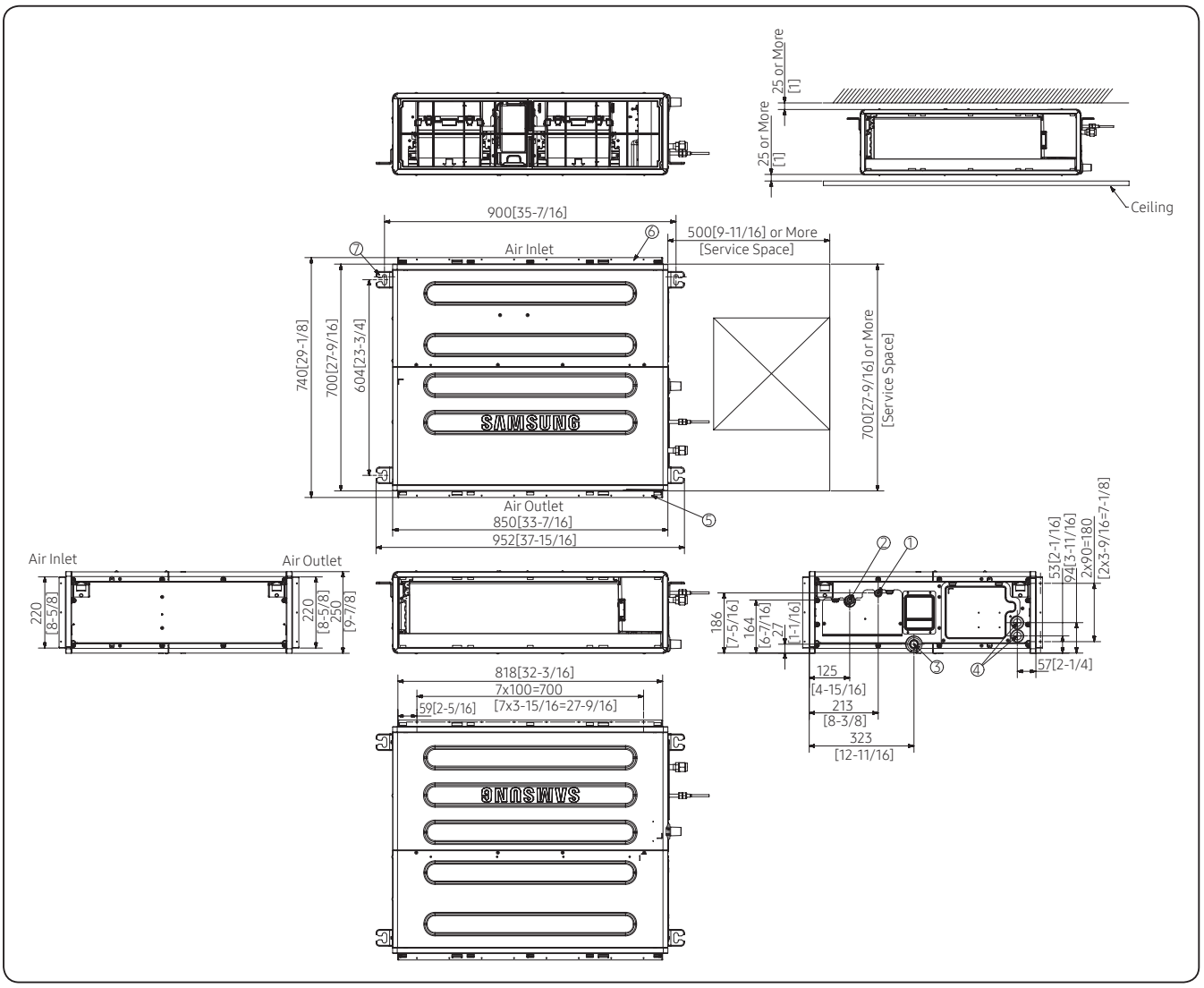
NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4")
2	Gas pipe connection	Φ12.70(1/2")
3	Drain pipe connection without drain pump	OD 25, ID 20
4	Drain pipe connection with drain pump	OD 25, ID 20
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	Φ9.52 or M10

4. Indoor Units

4-2. Dimensional drawing

MSP Duct : AE036/056BNMPEH✱✱, AE071ANMPEH✱✱

Units : mm [inches]



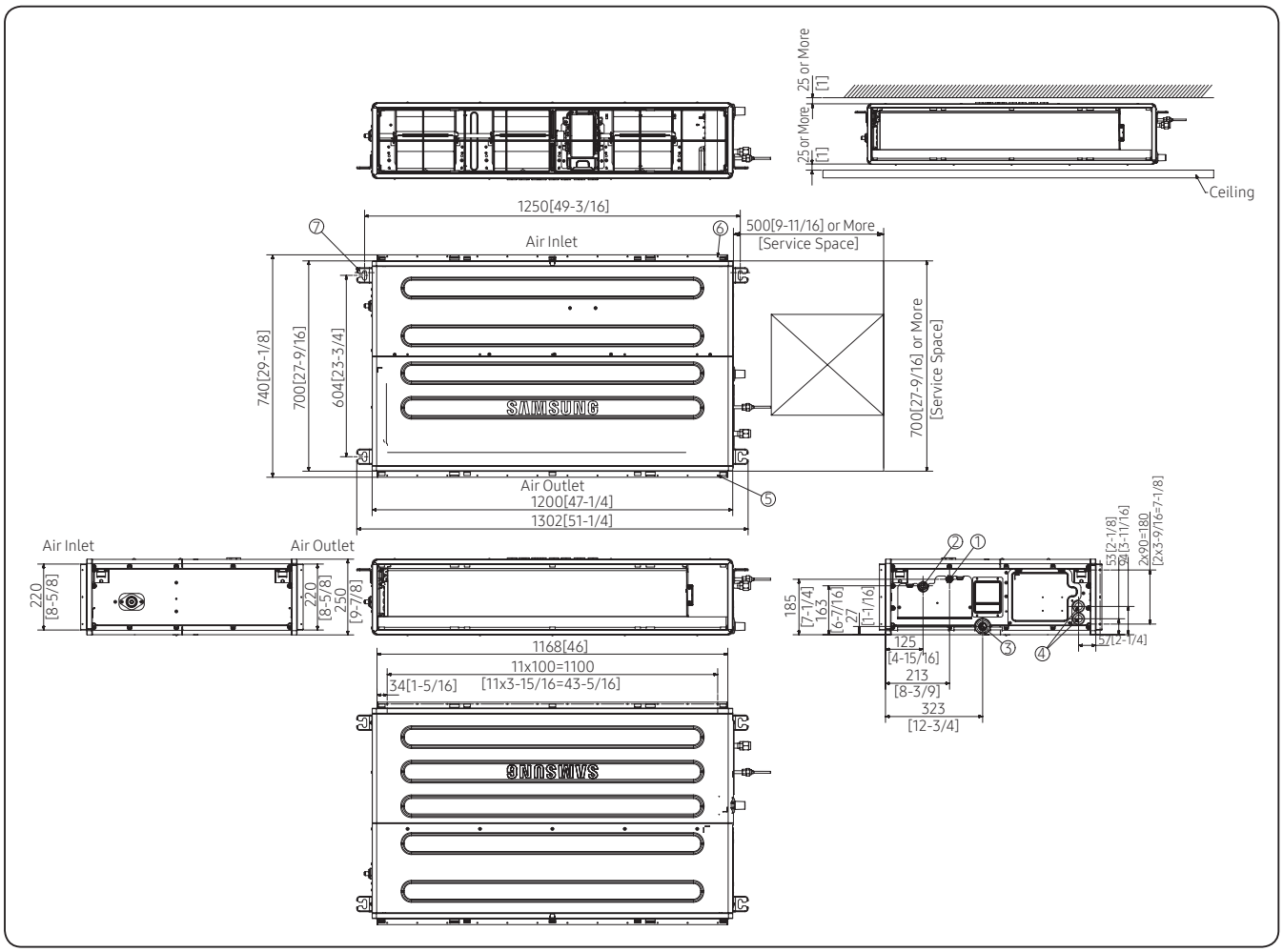
NO	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	OD 25, ID 20
4	Power supply & Communication wiring conduit	-
5	Air suction flange	-
6	Air discharge flange	-
7	Hook	Use M8~M10 bolt(4ea)

4. Indoor Units

4-2. Dimensional drawing

MSP Duct : AE090ANMPEH✳✳

Units : mm [inches]



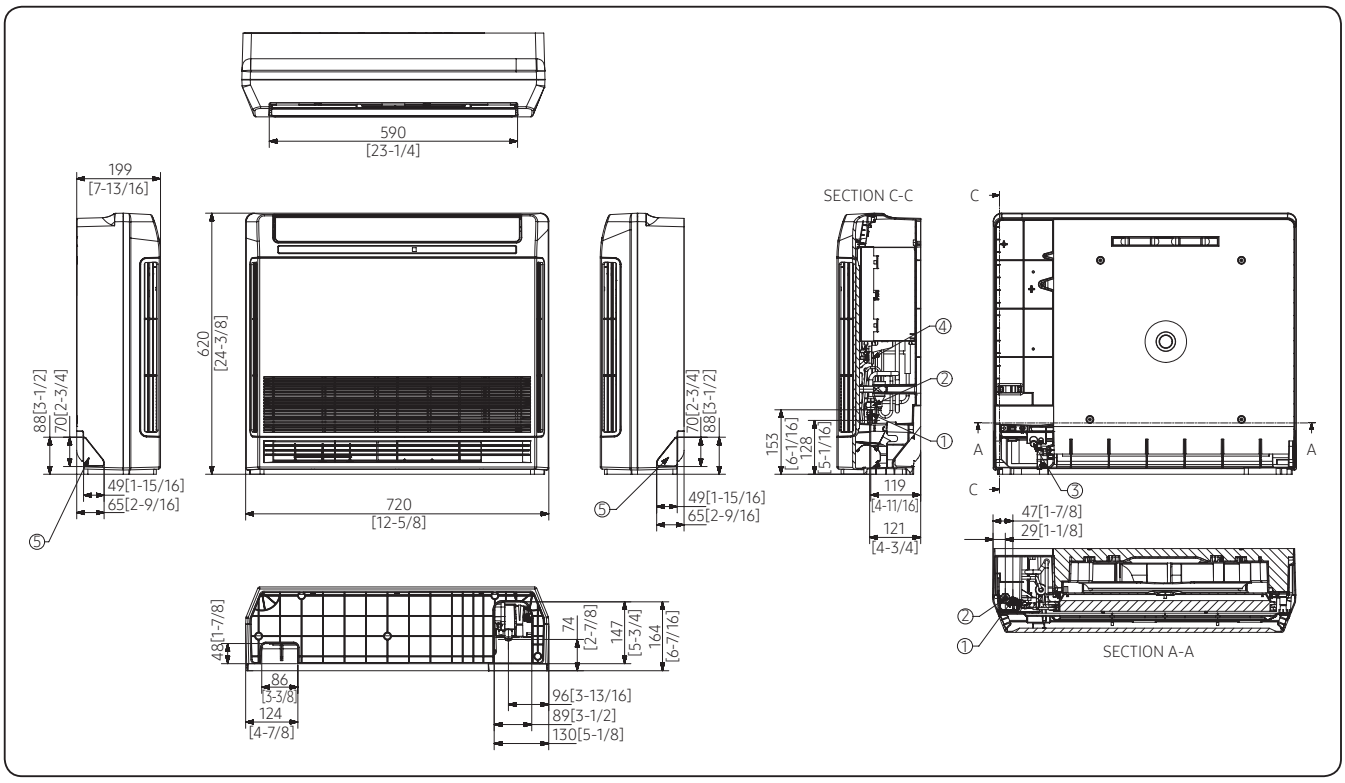
NO	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	OD 25, ID 20
4	Power supply & Communication wiring conduit	-
5	Air suction flange	-
6	Air discharge flange	-
7	Hook	Use M8~M10 bolt(4ea)

4. Indoor Units

4-2. Dimensional drawing

Console : AE022/028/036/056MNJDEH✱✱

Units : mm [inches]

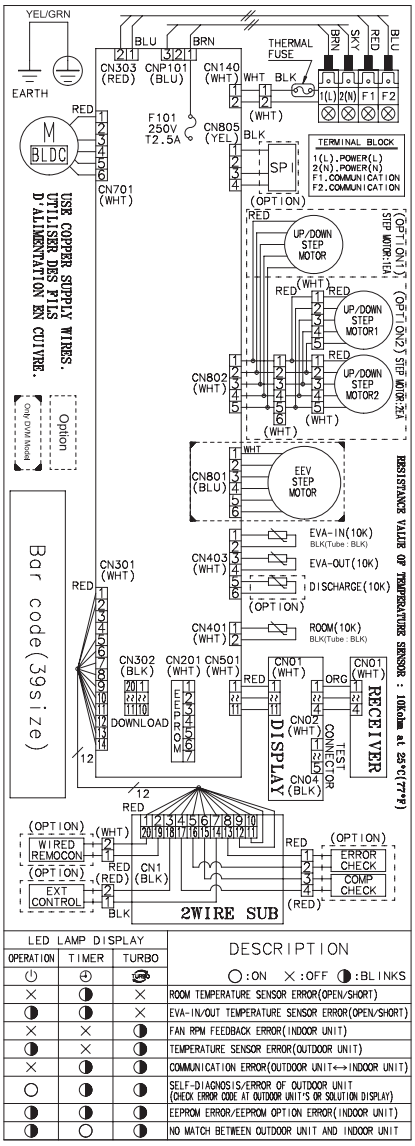


NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(1/2)
3	Drain pipe connection	ID 18mm[11/16 inch] Hose
4	Power supply & Communication wiring conduit	-
5	Knockout hole for drain hose	-

4. Indoor Units

4-3. Electrical wiring diagram

RAC (A3050)



M BLDC	BLDC FAN MOTOR	SPI	Super Plasma Ion
EVA-IN	Thermistor EVA-IN(10K)	EVA-OUT	Thermistor EVA-OUT(10K)
DISCHARGE	Thermistor DISCHARGE(10K)	ROOM	Thermistor ROOM(10K)
WIRED REMOCON	Wired Remote Controller	EXT CONTROL	External Controller

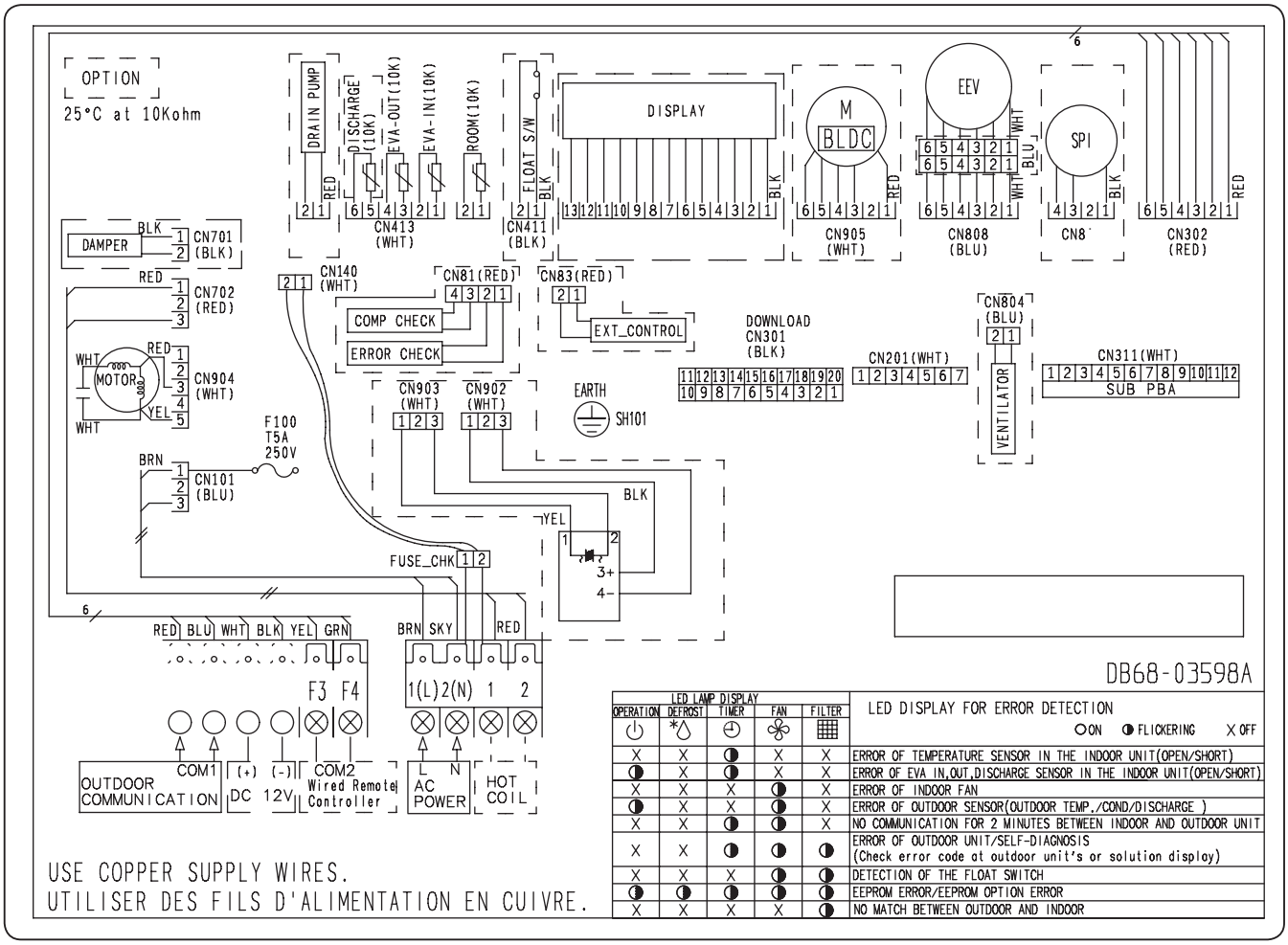
NOTES

1. This wiring diagram applies only to the Indoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

4. Indoor Units

4-3. Electrical wiring diagram

Duct (Slim)



M BLDC	BLDC FAN MOTOR	SPI	Super Plasma Ion
EVA-IN	Thermistor EVA-IN(10K)	EVA-OUT	Thermistor EVA-OUT(10K)
DISCHARGE	Thermistor DISCHARGE(10K)	ROOM	Thermistor ROOM(10K)
FLOAT S/W	FLOAT SWITCH	EXT CONTROL	External Controller

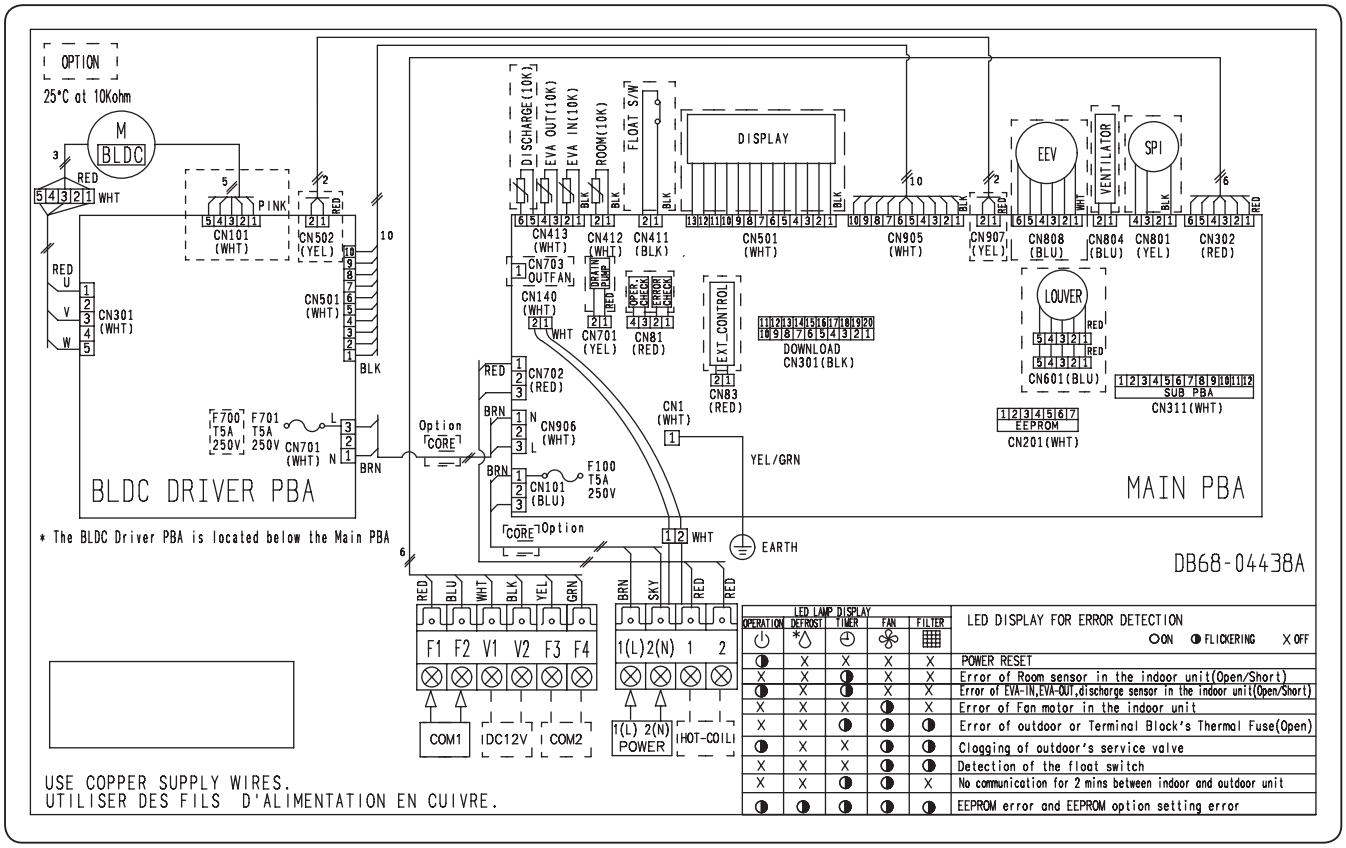
NOTES

1. This wiring diagram applies only to the Indoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

4. Indoor Units

4-3. Electrical wiring diagram

Duct (MSP)



M BLDC	BLDC FAN MOTOR	SPI	Super Plasma Ion
EVA-IN	Thermistor EVA-IN(10K)	EVA-OUT	Thermistor EVA-OUT(10K)
DISCHARGE	Thermistor DISCHARGE(10K)	ROOM	Thermistor ROOM(10K)
FLOAT S/W	FLOAT SWITCH	EXT CONTROL	External Controller

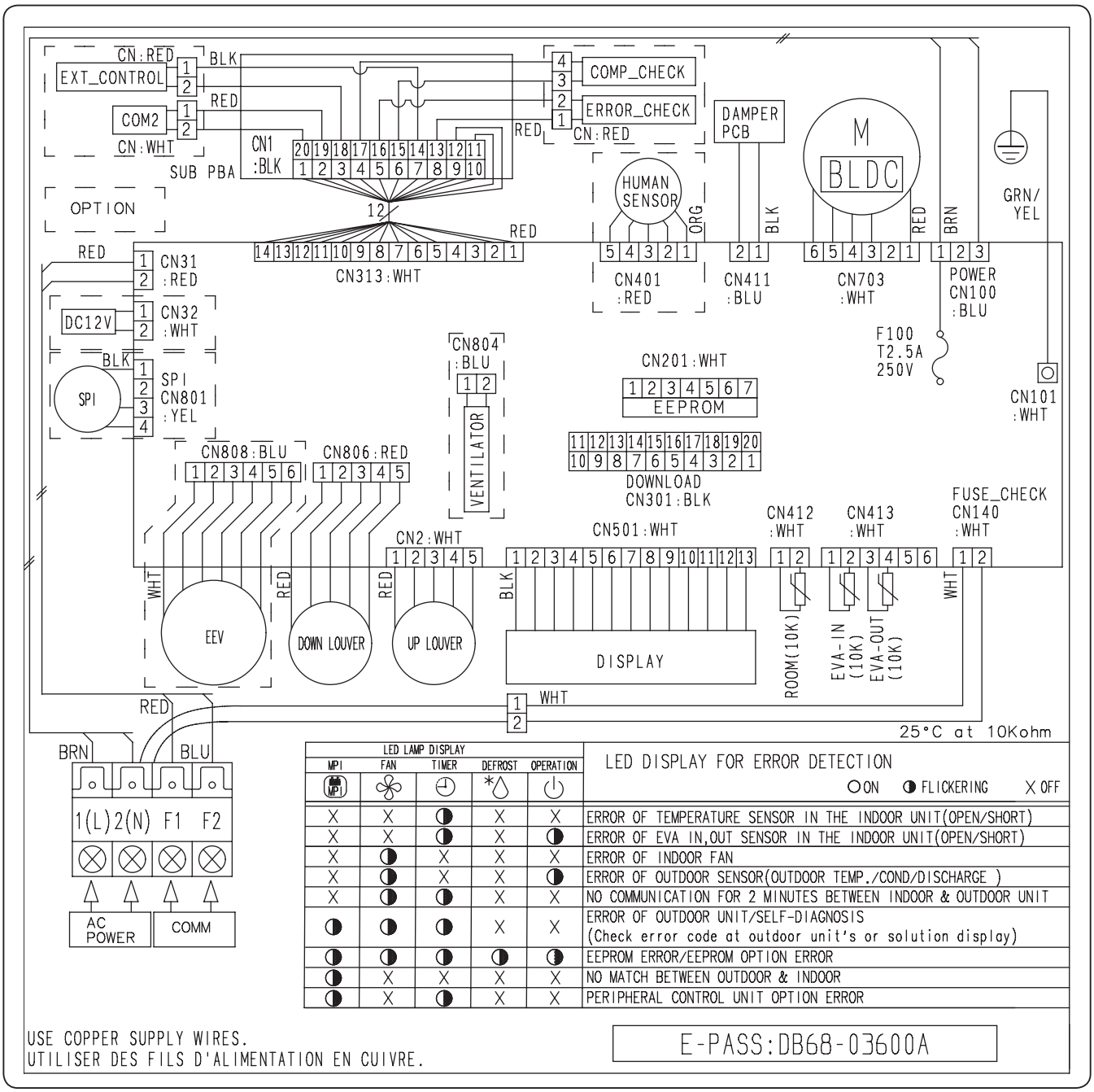
NOTES

1. This wiring diagram applies only to the Indoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

4. Indoor Units

4-3. Electrical wiring diagram

Console



LED LAMP DISPLAY					LED DISPLAY FOR ERROR DETECTION
MPI	FAN	TIMER	DEFROST	OPERATION	○ON ◑ FLICKERING X OFF
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	◑	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	◑	X	X	X	ERROR OF INDOOR FAN
X	◑	X	X	◑	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR & OUTDOOR UNIT
◑	◑	◑	X	X	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	X	X	X	X	NO MATCH BETWEEN OUTDOOR & INDOOR
◑	X	◑	X	X	PERIPHERAL CONTROL UNIT OPTION ERROR

M BLDC	BLDC FAN MOTOR	SPI	Super Plasma Ion
EVA-IN	Thermistor EVA-IN(10K)	EVA-OUT	Thermistor EVA-OUT(10K)
ROOM	Thermistor ROOM(10K)	EXT CONTROL	External Controller

NOTES

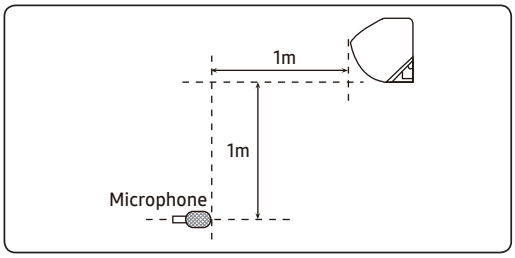
1. This wiring diagram applies only to the Indoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

4. Indoor Units

4-4. Sound data

Sound Pressure level

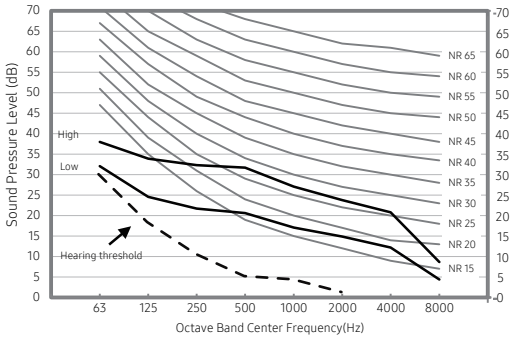
RAC (A3050)



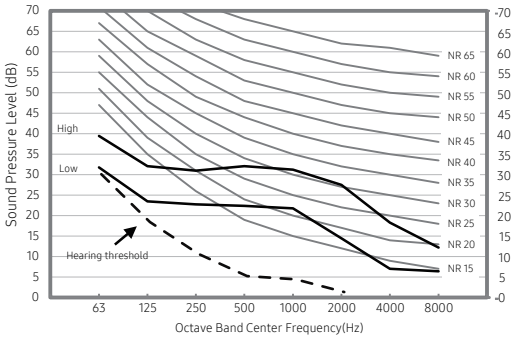
Model	dBA
AE022MNADEH/EU	33 / 28 / 23
AE028MNADEH/EU	35 / 30 / 25
AE036MNADEH/EU	36 / 32 / 29
AE056MNADEH/EU	39 / 35 / 32
AE071MNADEH/EU	44 / 40 / 36

- NR Curve

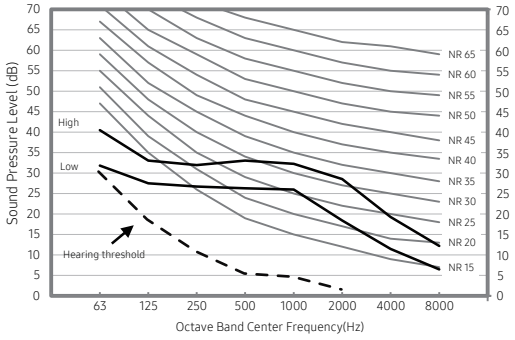
1) AE022MNADEH/EU



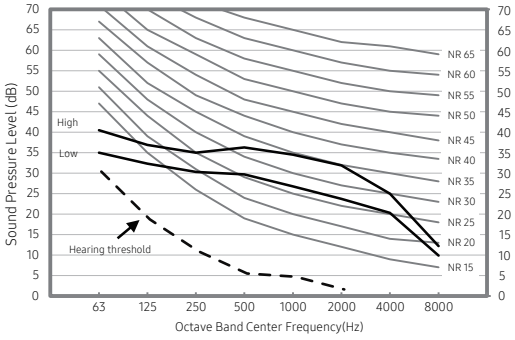
2) AE028MNADEH/EU



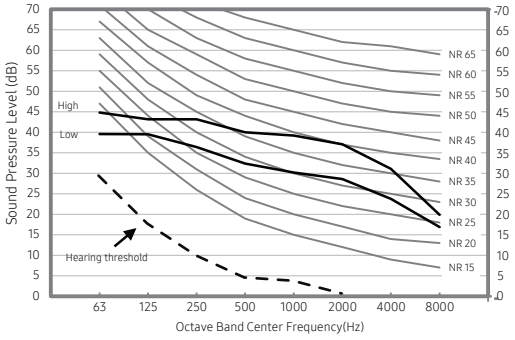
3) AE036MNADEH/EU



4) AE056MNADEH/EU



5) AE071MNADEH/EU

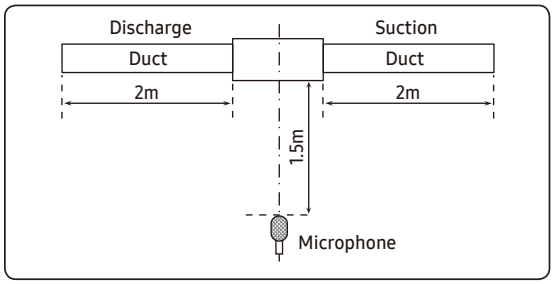


4. Indoor Units

4-4. Sound data

Sound Pressure level

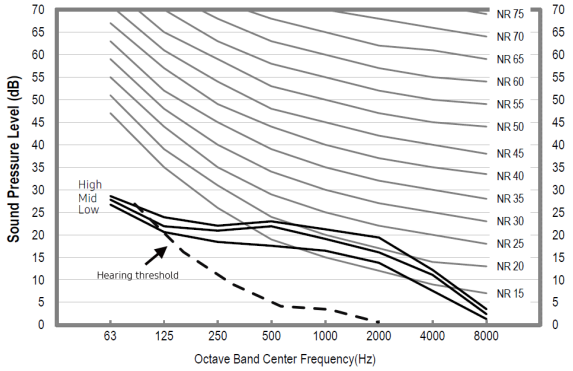
Duct (Slim & MSP)



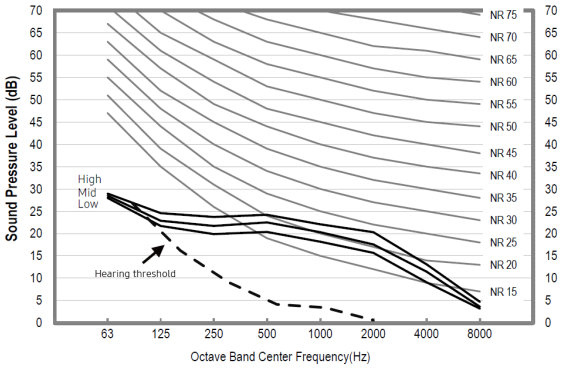
Model	dBA
AE022ANLDEH/EU	26 / 24 / 21
AE028ANLDEH/EU	27 / 25 / 23
AE036ANLDEH/EU	29 / 26 / 23
AE056ANLDEH/EU	34 / 30 / 26

- NR Curve

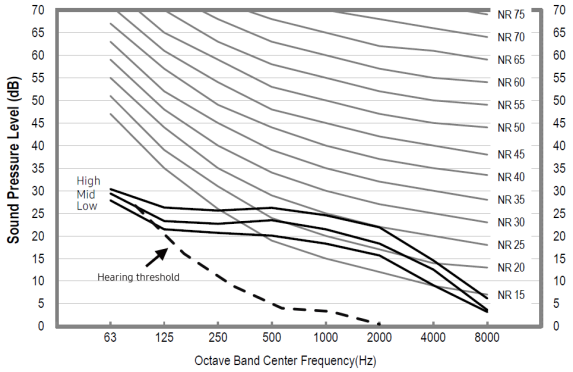
1) AE022ANLDEH/EU



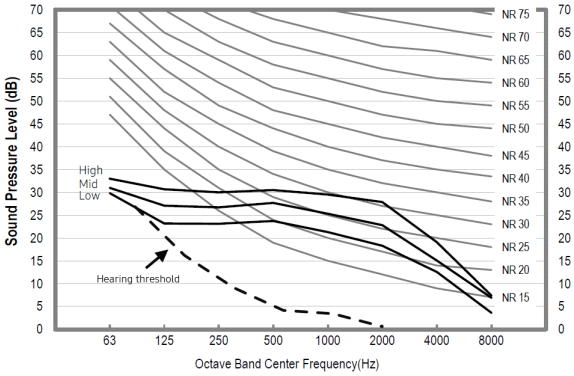
2) AE028ANLDEH/EU



3) AE036ANLDEH/EU



4) AE056ANLDEH/EU

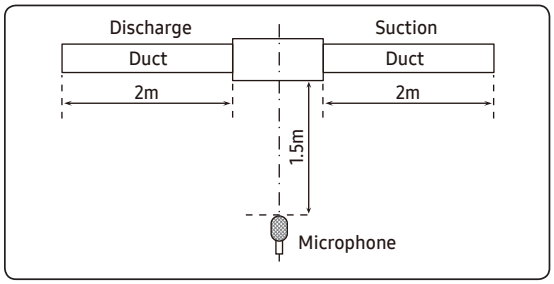


4. Indoor Units

4-4. Sound data

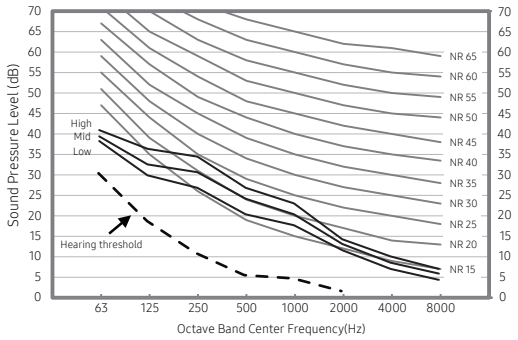
Sound Pressure level

Duct (Slim & MSP)

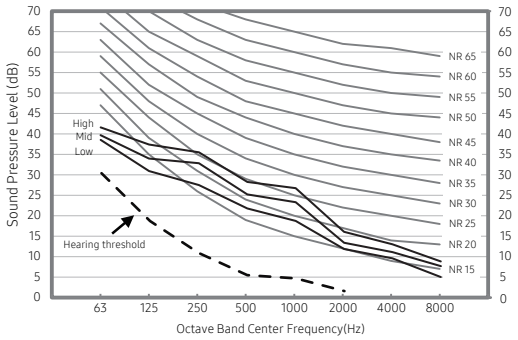


Model	dBA
AE036BNMPEH/EU	30 / 27 / 24
AE056BNMPEH/EU	32 / 29 / 25
AE071ANMPEH/EU	36 / 32 / 27
AE090ANMPEH/EU	37 / 32 / 27

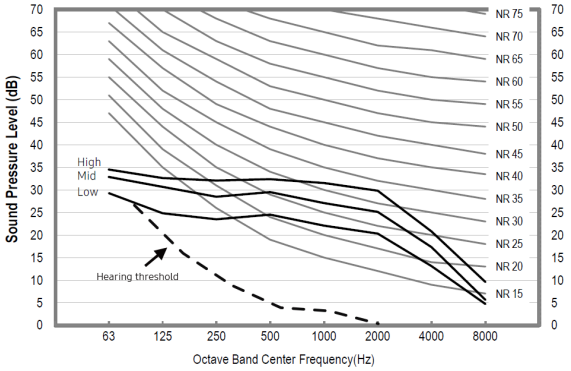
5) AE036BNMPEH/EU



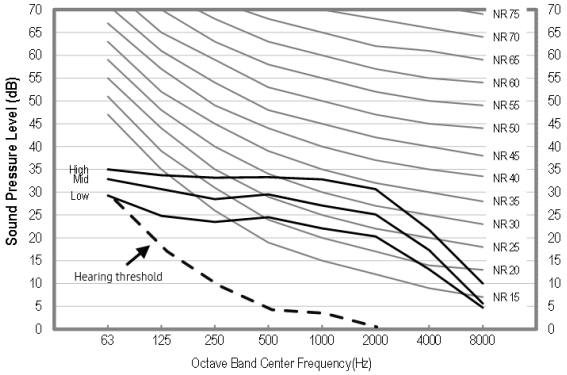
6) AE056BNMPEH/EU



7) AE071ANMPEH/EU



8) AE090ANMPEH/EU

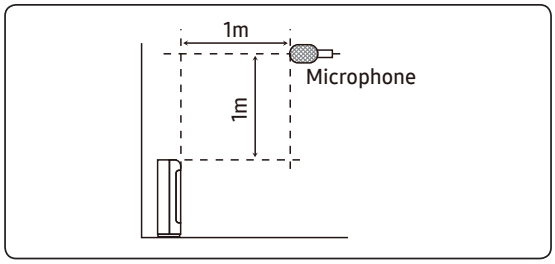


4. Indoor Units

4-4. Sound data

Sound Pressure level

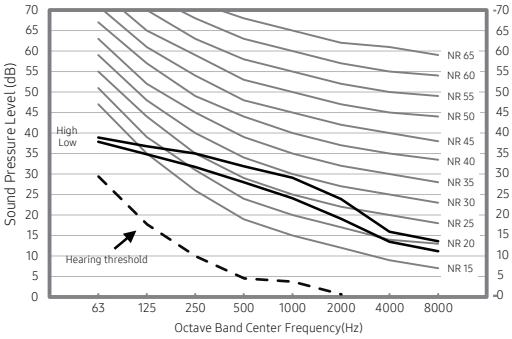
Console



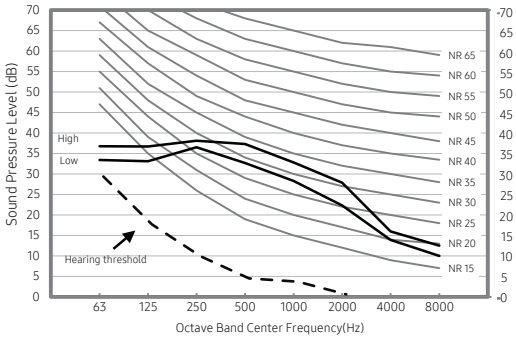
Model	dBA
AE022MNJDEH/EU	34 / 32 / 30
AE028MNJDEH/EU	38 / 36 / 34
AE036MNJDEH/EU	39 / 37 / 34
AE056MNJDEH/EU	43 / 40 / 37

- NR Curve

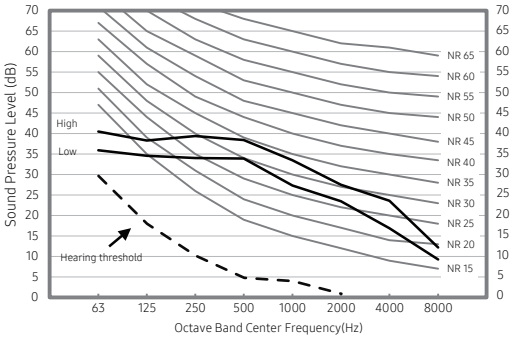
1) AE022MNJDEH/EU



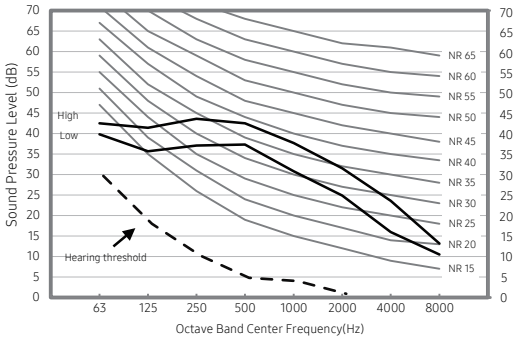
2) AE028MNJDEH/EU



3) AE036MNJDEH/EU



4) AE056MNJDEH/EU



NOTE

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

4. Indoor Units

4-4. Sound data

Sound Power level

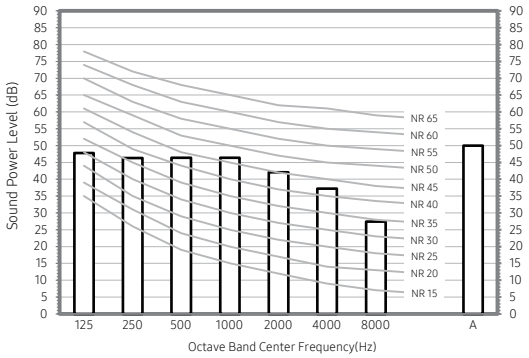
RAC (A3050)

NOTE

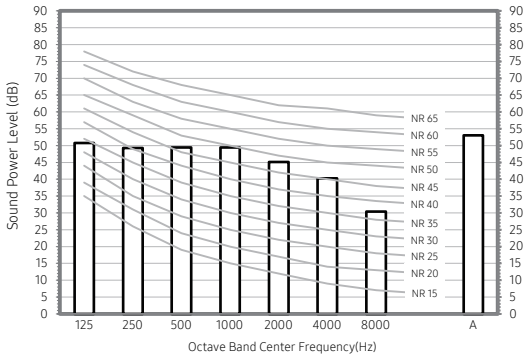
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Model	Power (dBA)
AE022MNADEH/EU	50
AE028MNADEH/EU	53
AE036MNADEH/EU	54
AE056MNADEH/EU	57
AE071MNADEH/EU	61

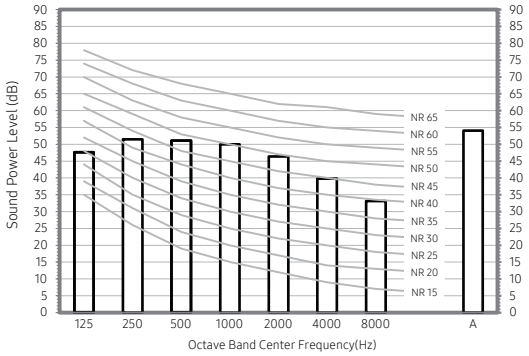
1) AE022MNADEH/EU



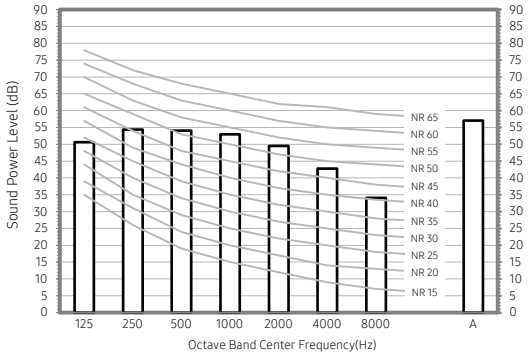
2) AE028MNADEH/EU



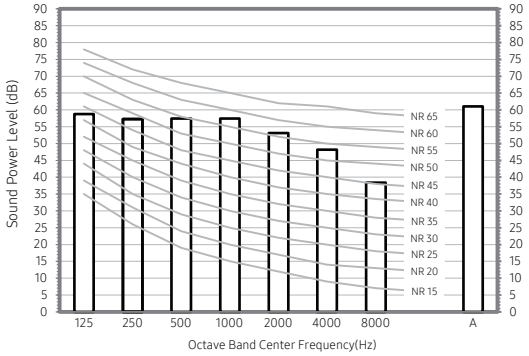
3) AE036MNADEH/EU



4) AE056MNADEH/EU



5) AE071MNADEH/EU



4. Indoor Units

4-4. Sound data

Sound Power level

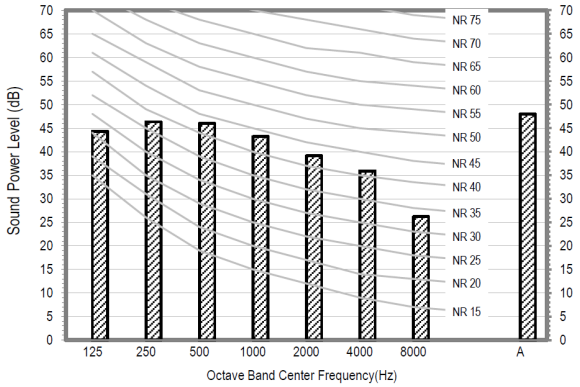
Duct (Slim & MSP)

NOTE

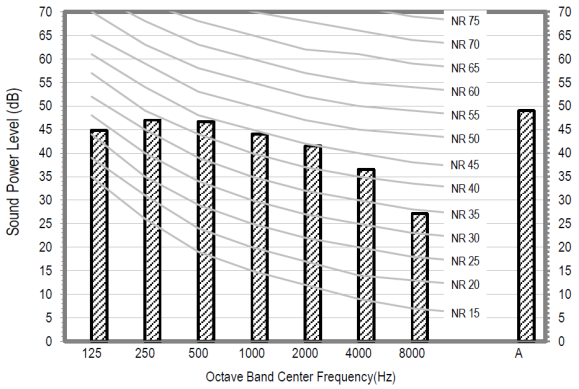
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Model	Power (dBA)
AE022ANLDEH/EU	48
AE028ANLDEH/EU	49
AE036ANLDEH/EU	51
AE056ANLDEH/EU	54

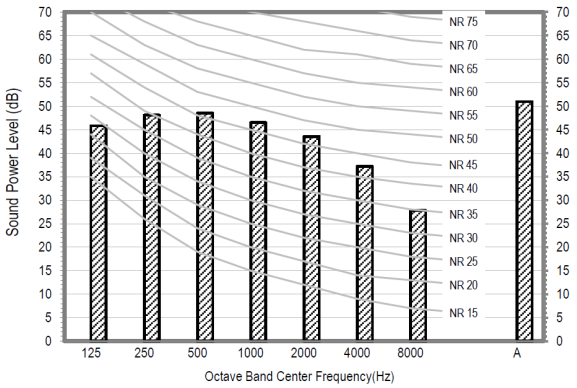
1) AE022ANLDEH/EU



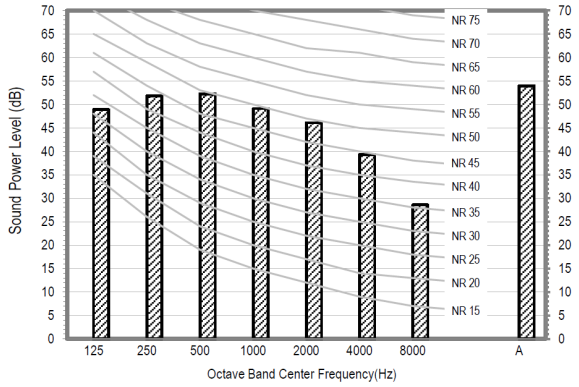
2) AE028ANLDEH/EU



3) AE036ANLDEH/EU



4) AE056ANLDEH/EU



4. Indoor Units

4-4. Sound data

Sound Power level

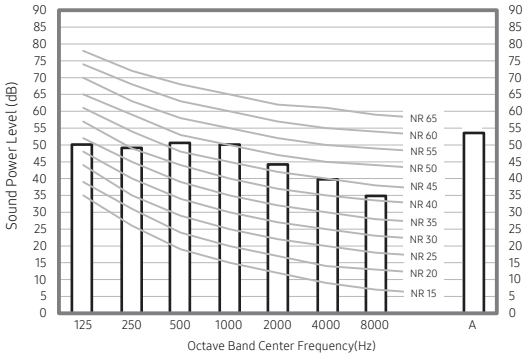
Duct (Slim & MSP)

NOTE

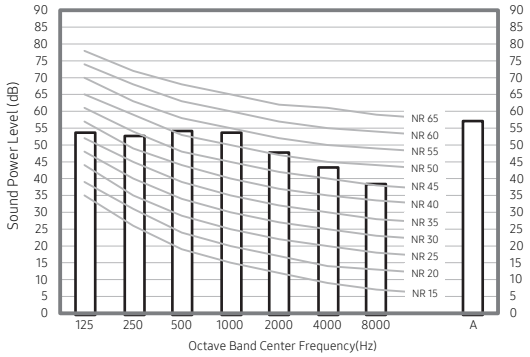
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Model	Power (dBA)
AE036BNMPEH/EU	53
AE056BNMPEH/EU	57
AE071ANMPEH/EU	57
AE090ANMPEH/EU	58

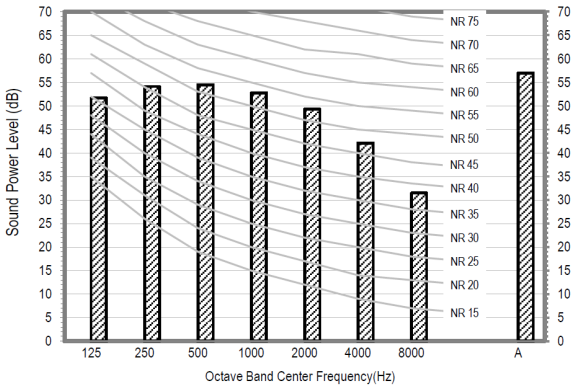
5) AE036BNMPEH/EU



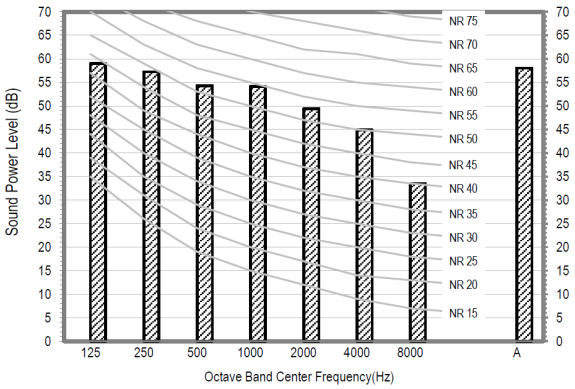
6) AE056BNMPEH/EU



7) AE071ANMPEH/EU



8) AE090ANMPEH/EU



4. Indoor Units

4-4. Sound data

Sound Power level

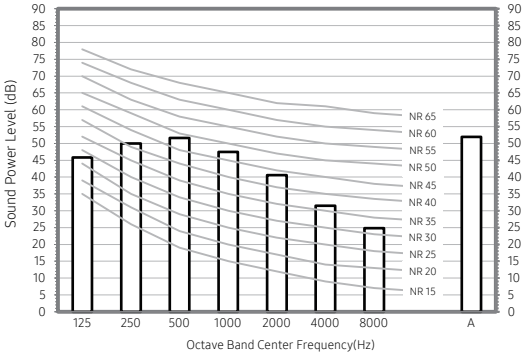
Console

NOTE

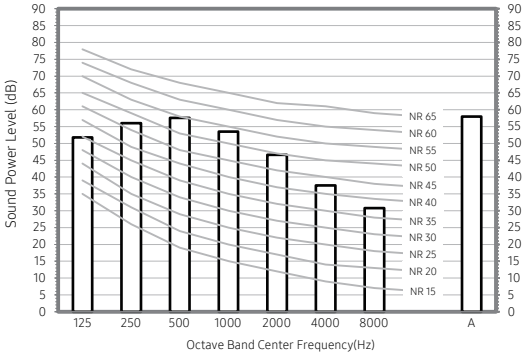
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Model	Power (dBA)
AE022MNJDEH/EU	52
AE028MNJDEH/EU	58
AE036MNJDEH/EU	59
AE056MNJDEH/EU	64

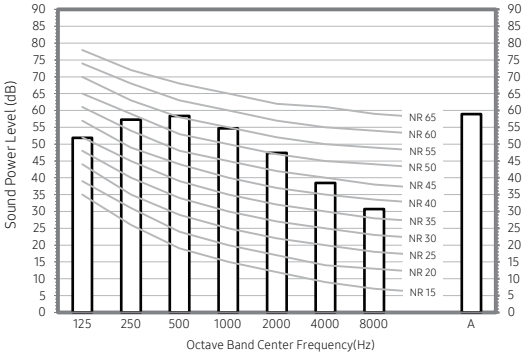
1) AE022MNJDEH/EU



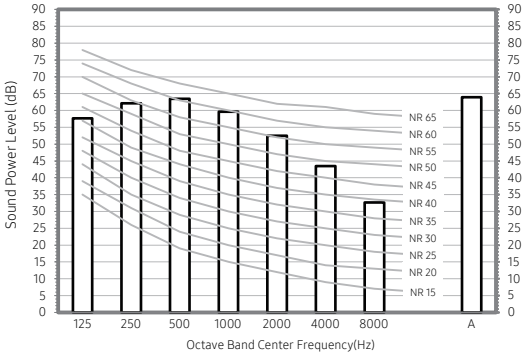
2) AE028MNJDEH/EU



3) AE036MNJDEH/EU



4) AE056MNJDEH/EU

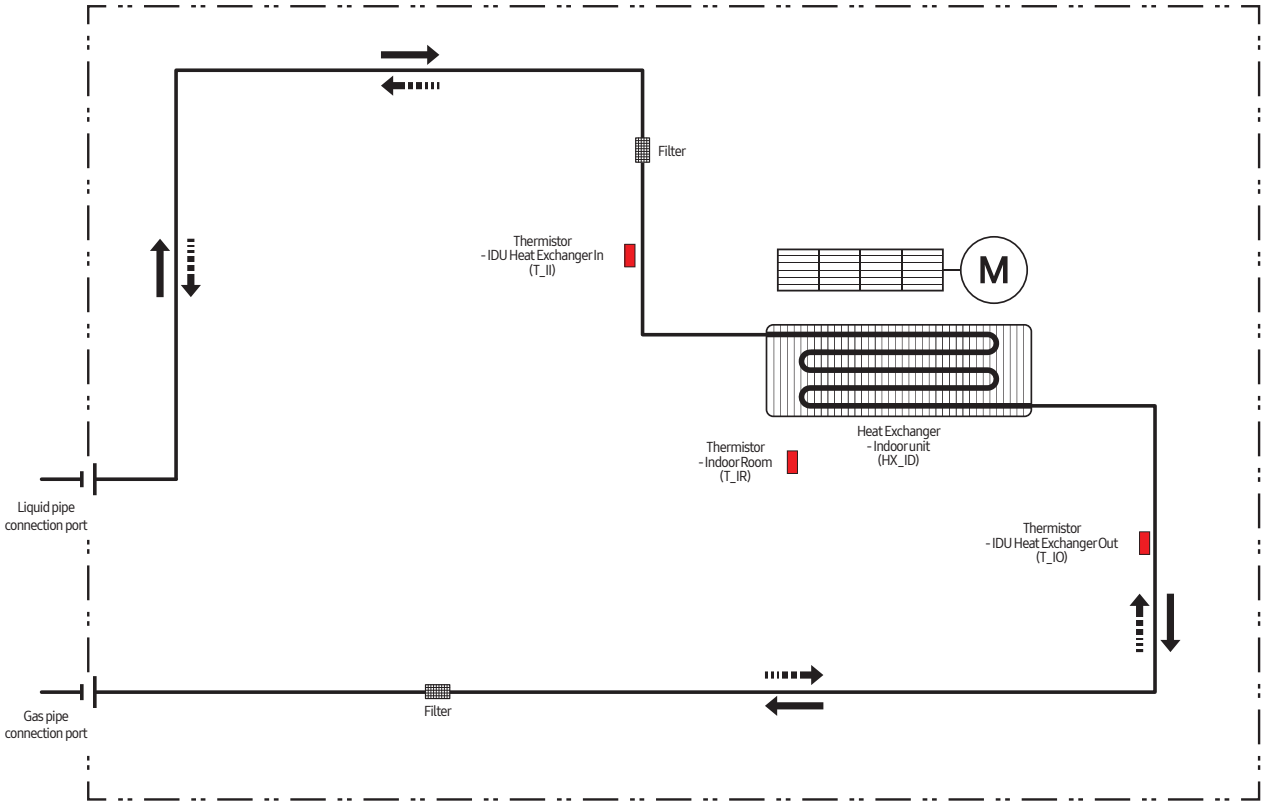


4. Indoor Units

4-5. Piping diagram

RAC (A3050)

EEV not included Model



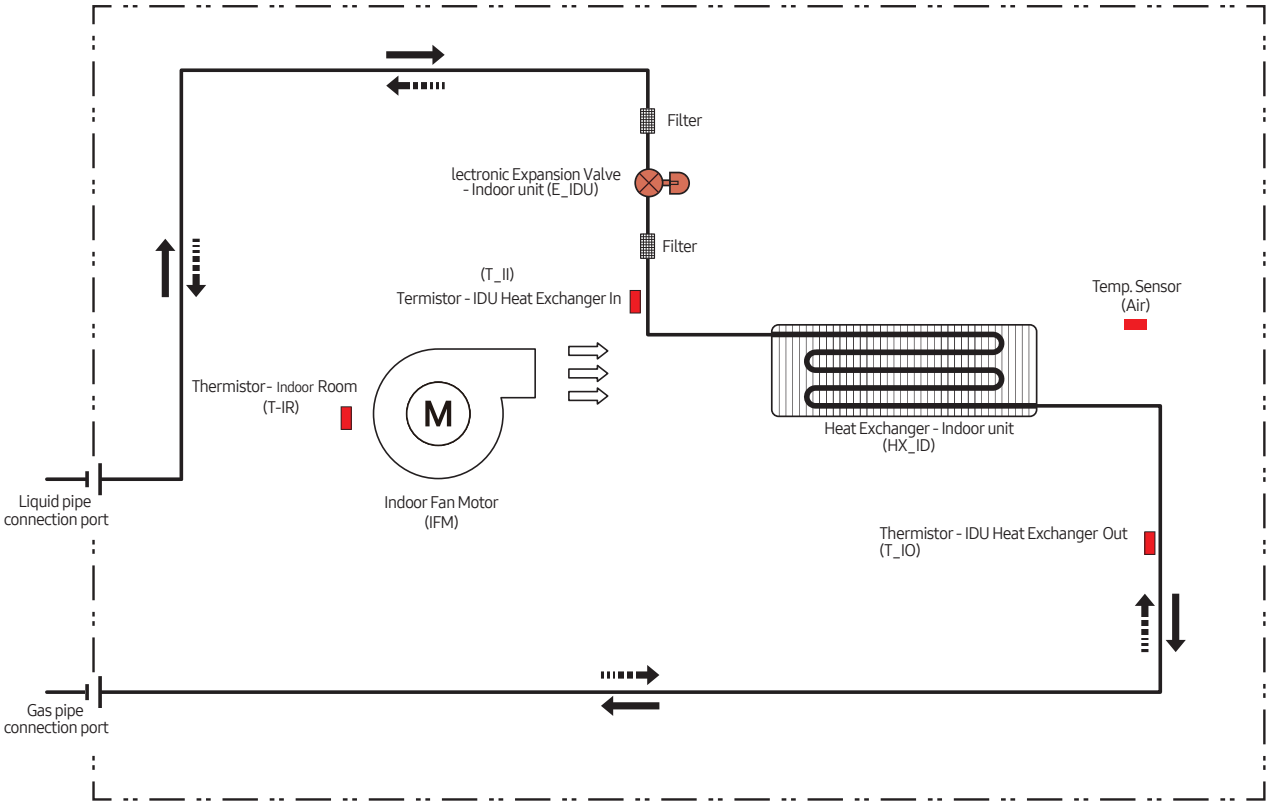
Refrigerant flow	
Cooling	Heating
→	⇢

4. Indoor Units

4-5. Piping diagram

Duct (Slim, MSP)

EEV included Model



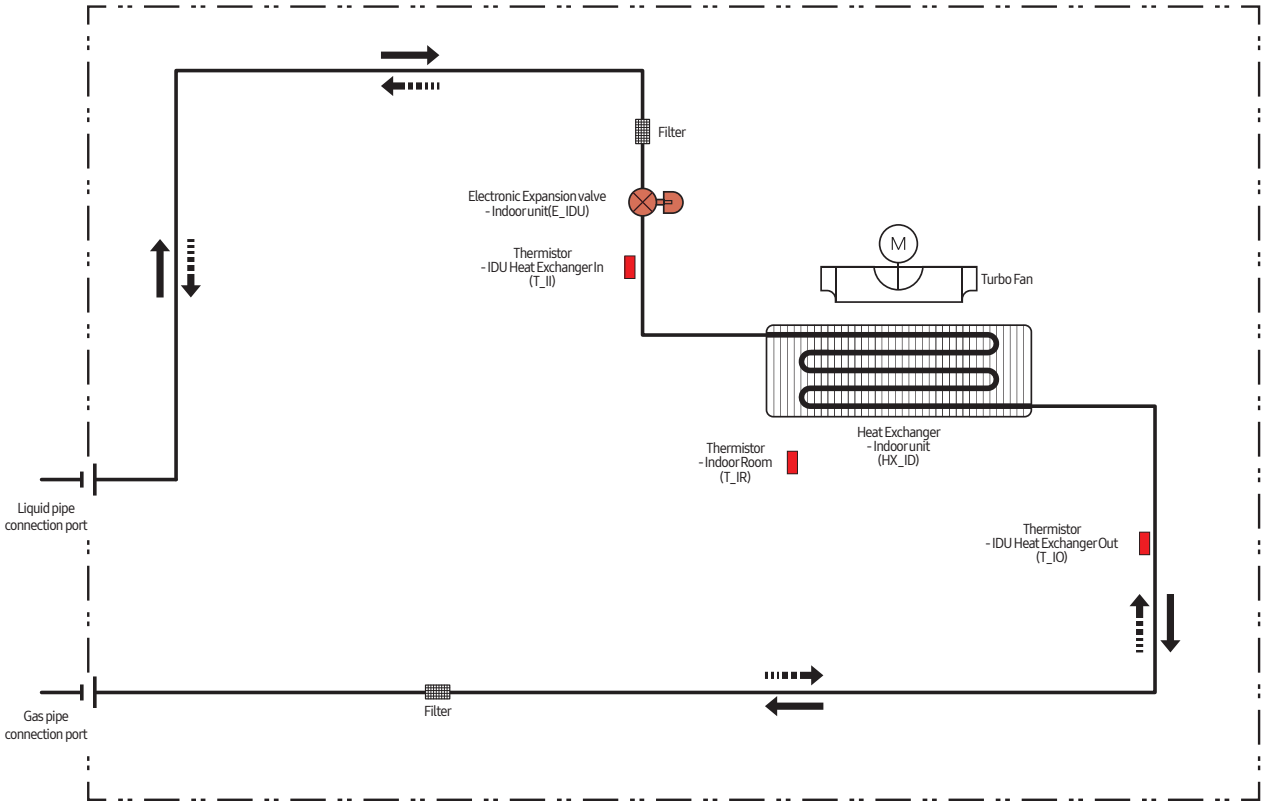
Refrigerant flow	
Cooling	Heating
→	⇢

4. Indoor Units

4-5. Piping diagram

Console

EEV included Model



Refrigerant flow	
Cooling	Heating
→	⇢

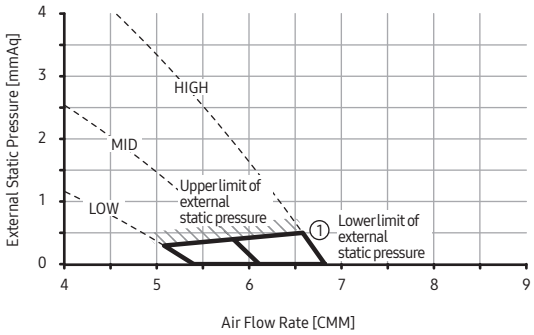
4. Indoor Units

4-6. Fan characteristics (PQ curve)

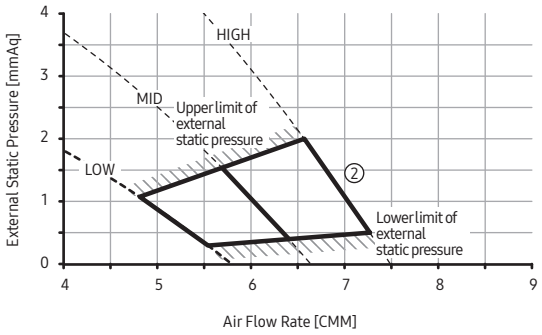
Duct (Slim)

1) AE022MNLDEH**

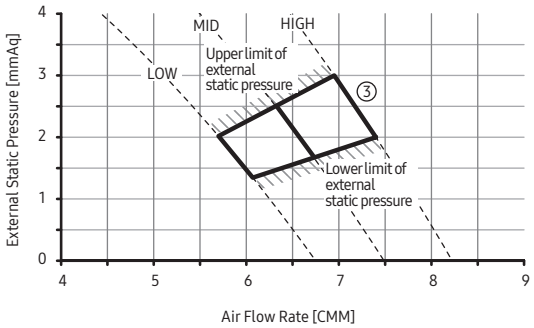
①	External Static Pressure(mmAq)	Option Code
	0	010954-125A80-201616-321110



②	External Static Pressure(mmAq)	Option Code
	1	010954-125AC3-201616-321110



③	External Static Pressure(mmAq)	Option Code
	3	010954-125E08-201616-321110



NOTE

- Adjust option code according to the actual installation condition (external static pressure).
  ESP = External Static Pressure
  The graphs display the available external static pressure range of installed indoor units.
  Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

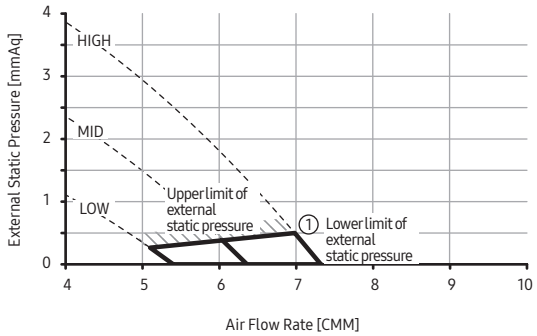
4. Indoor Units

4-6. Fan characteristics (PQ curve)

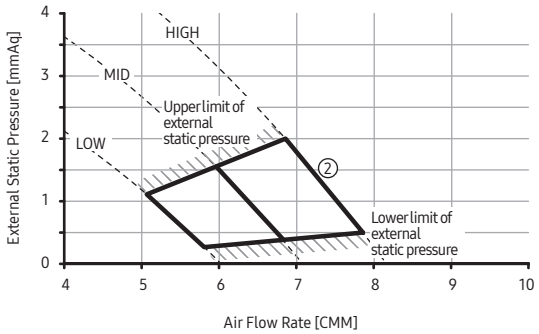
Duct (Slim)

2) AE028MNLDEH**

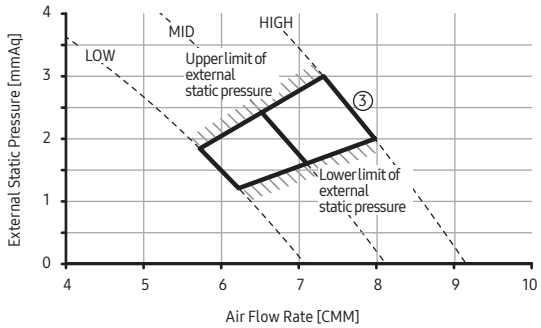
①	External Static Pressure(mmAq)	Option Code
	0	010954-125AE2-201C1C-321110



②	External Static Pressure(mmAq)	Option Code
	1	010954-125E15-201C1C-321110



③	External Static Pressure(mmAq)	Option Code
	3	010954-125E7A-201C1C-321110



NOTE

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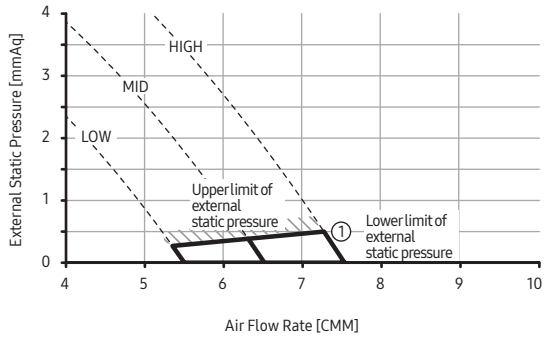
4. Indoor Units

4-6. Fan characteristics (PQ curve)

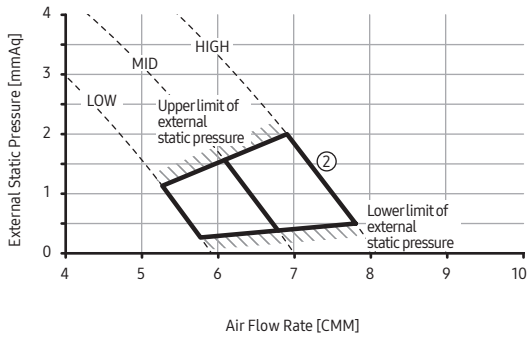
Duct (Slim)

3) AE036MNLDEH**

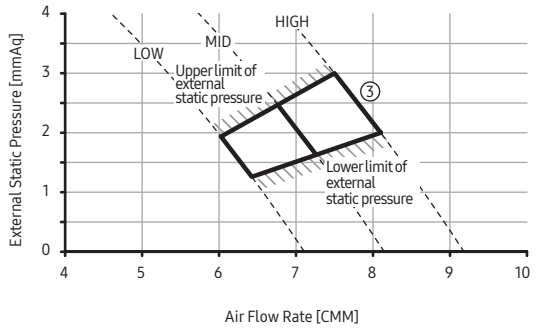
①	External Static Pressure(mmAq)	Option Code
	0	010954-125E35-202424-321110



②	External Static Pressure(mmAq)	Option Code
	1	010954-125E68-202424-321110



③	External Static Pressure(mmAq)	Option Code
	3	010954-125ECD-202424-321110



NOTE

- Adjust option code according to the actual installation condition (external static pressure).
  ESP = External Static Pressure
  The graphs display the available external static pressure range of installed indoor units.
  Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

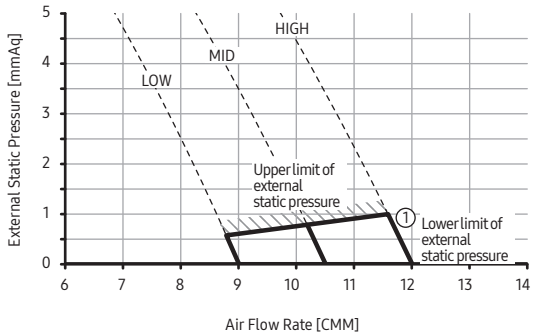
4. Indoor Units

4-6. Fan characteristics (PQ curve)

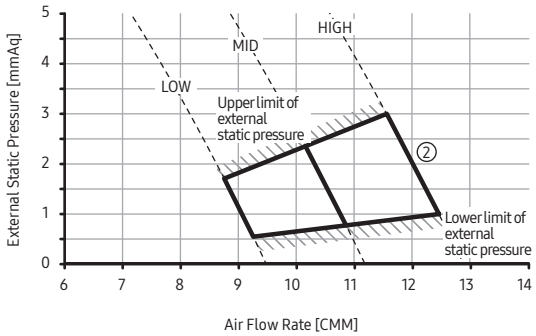
Duct (Slim)

4) AE056MNLDEH**

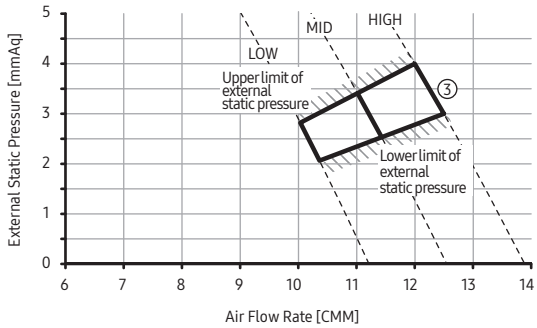
①	External Static Pressure(mmAq)	Option Code
	0	010954-125AC1-203838-321110



②	External Static Pressure(mmAq)	Option Code
	2	010954-125E34-203838-321110



③	External Static Pressure(mmAq)	Option Code
	4	010954-125EF9-203838-321110



NOTE

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

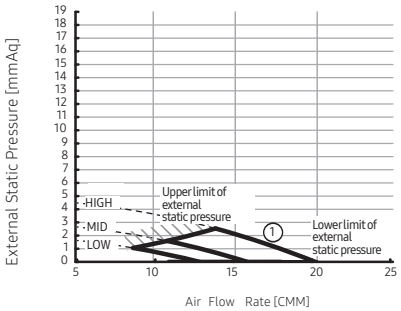
4. Indoor Units

4-6. Fan characteristics (PQ curve)

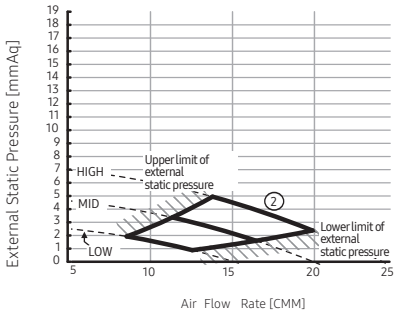
Duct (MSP)

1) AE036BNMPEH**

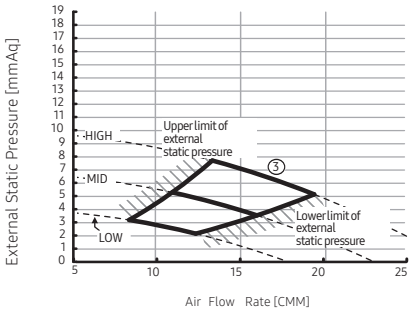
①	External Static Pressure(inAq)	Option Code
	0≤SP≤2.5	010054-1E50B2-202424-331100



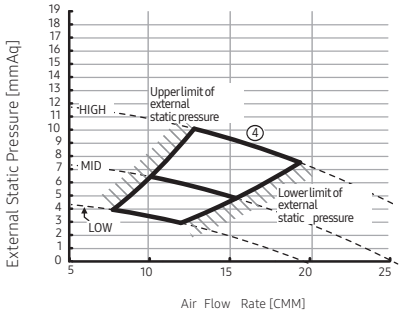
②	External Static Pressure(inAq)	Option Code
	2.5<SP≤5	010054-1E5436-202424-331100



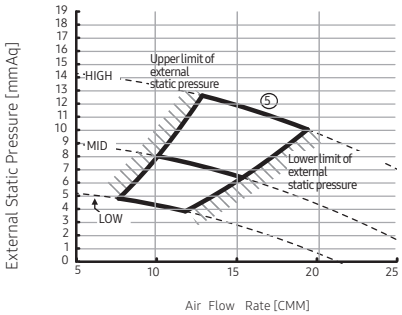
③	External Static Pressure(inAq)	Option Code
	5<SP≤7.5	010054-1E5499-202424-331100



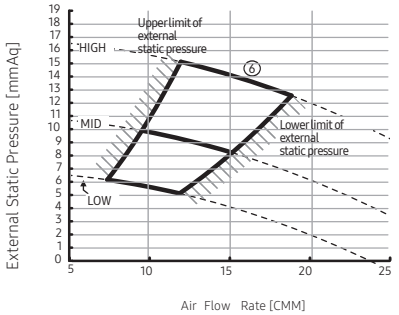
④	External Static Pressure(inAq)	Option Code
	7.5<SP≤10	010054-1E54EB-202424-331100



⑤	External Static Pressure(inAq)	Option Code
	10<SP≤12.5	010054-1E50B2-202424-331100



⑥	External Static Pressure(inAq)	Option Code
	12.5<SP≤15	010054-1E5436-202424-331100



NOTE

- Adjust option code according to the actual installation condition (external static pressure).
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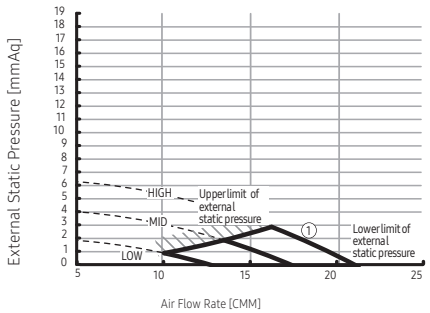
4. Indoor Units

4-6. Fan characteristics (PQ curve)

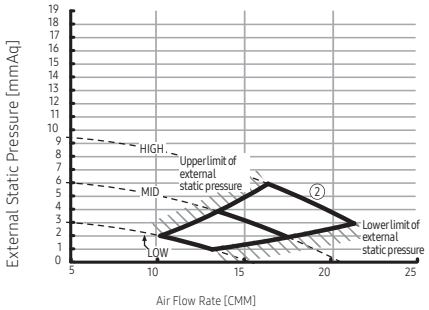
Duct (MSP)

2) AE056BNMPEH**

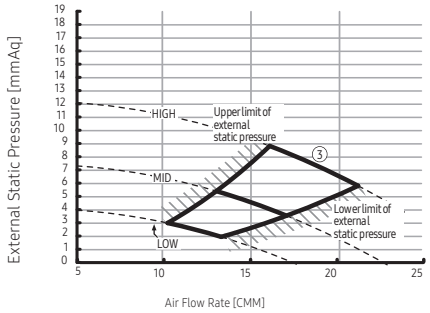
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 4	010054-1E5413-203838-331100



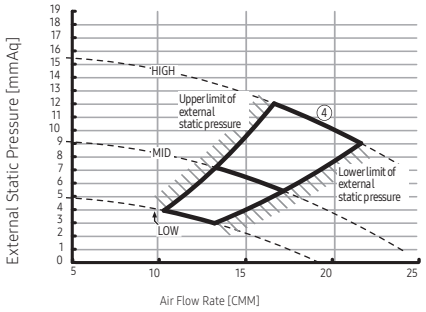
②	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 8	010054-1E5497-203838-331100



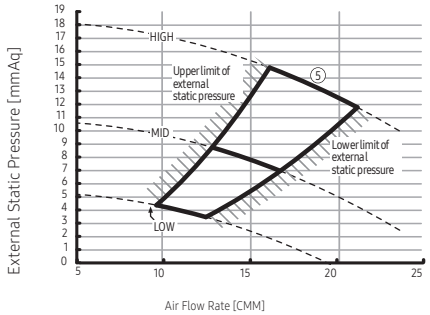
③	External Static Pressure(inAq)	Option Code
	5<SP≤7.5	010054-1E54FA-203838-331100



④	External Static Pressure(inAq)	Option Code
	7.5<SP≤10	010054-1E585C-203838-331100



⑤	External Static Pressure(inAq)	Option Code
	10<SP≤12.5	010054-1E58AE-203838-331100



NOTE

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  The graphs display the available external static pressure range of installed indoor units.
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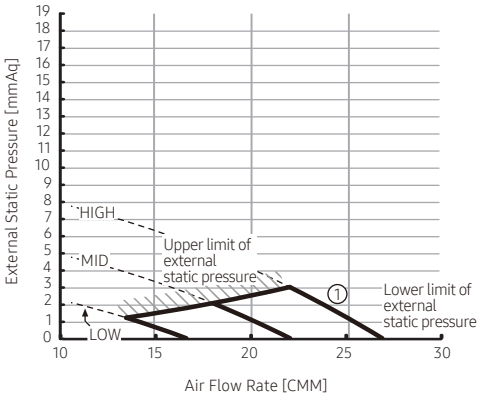
4. Indoor Units

4-6. Fan characteristics (PQ curve)

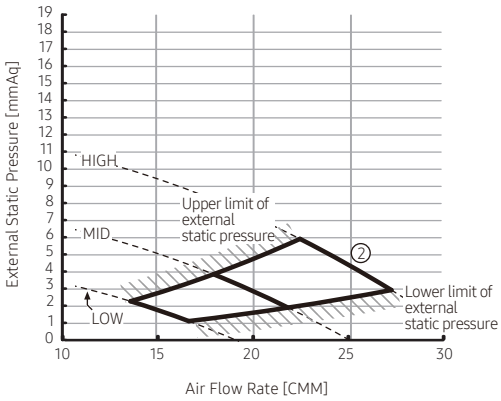
Duct (MSP)

3) AE071ANMPEH**

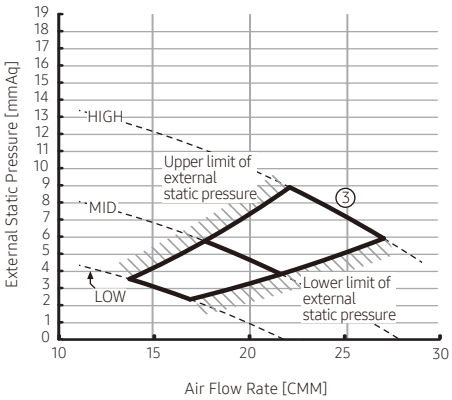
①	External Static Pressure(inAq)	Option Code
	0≤SP≤3	010054-1E5488-204747-339100



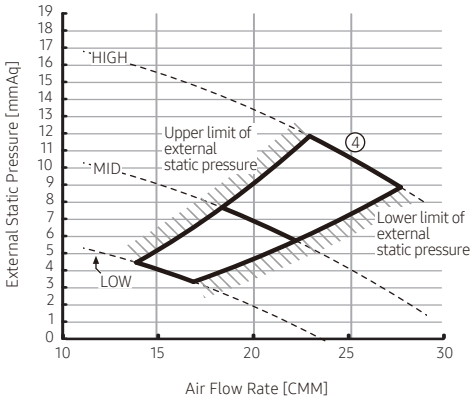
②	External Static Pressure(inAq)	Option Code
	3<SP≤6	010054-1E54FB-204747-339100



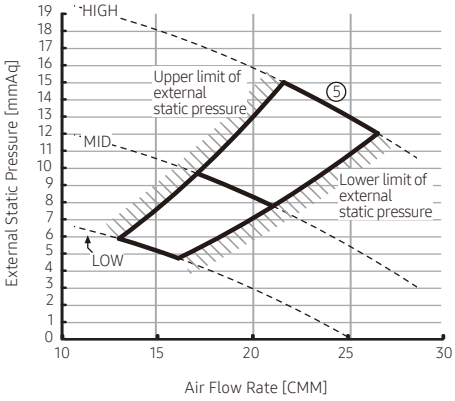
③	External Static Pressure(inAq)	Option Code
	6<SP≤9	010054-1E584F-204747-339100



④	External Static Pressure(inAq)	Option Code
	9<SP≤12	010054-1E59A2-204747-339100



⑤	External Static Pressure(inAq)	Option Code
	12<SP≤15	010054-1E59E5-204747-339100



NOTE

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

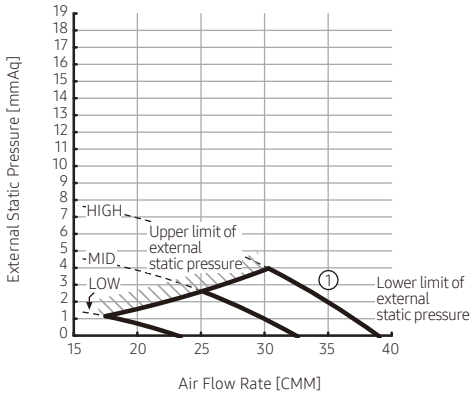
4. Indoor Units

4-6. Fan characteristics (PQ curve)

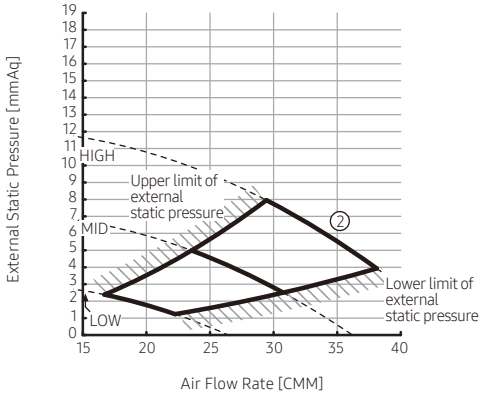
Duct (MSP)

4) AE090ANMPEH**

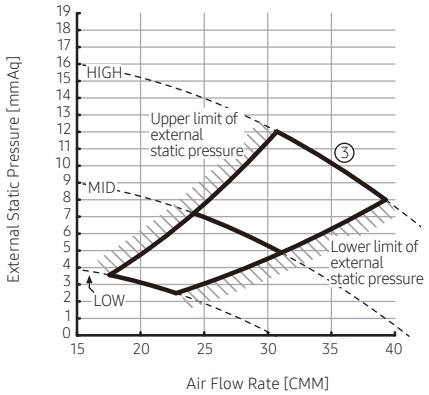
①	External Static Pressure(inAq)	Option Code
	0≤SP≤4	010054-1E5477-205A5A-339110



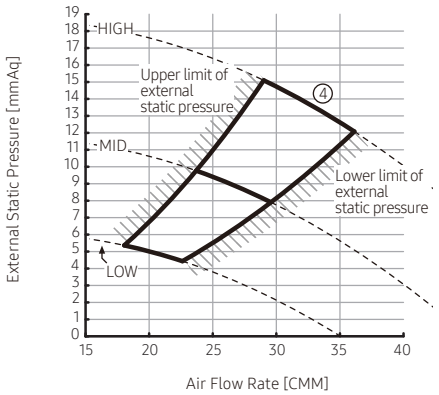
②	External Static Pressure(inAq)	Option Code
	4<SP≤8	010054-1E580A-205A5A-339110



③	External Static Pressure(inAq)	Option Code
	8<SP≤12	010054-1E588D-205A5A-339110



④	External Static Pressure(inAq)	Option Code
	12<SP≤15	010054-1E59C2-205A5A-339110



NOTE

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  ESP = External Static Pressure
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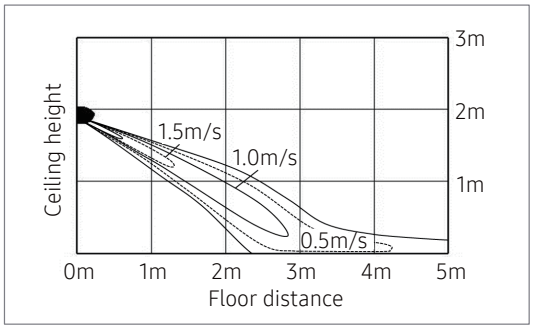
4. Indoor Units

4-7. Temperature and air flow distribution

RAC (A3050) : AE022MNADEH✱✱

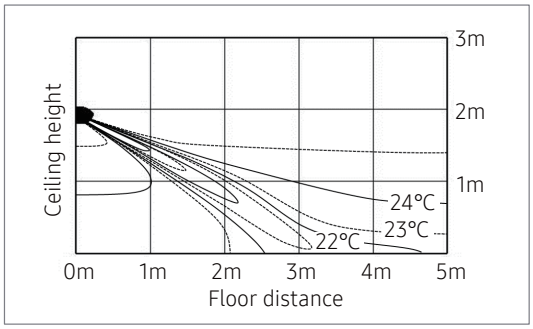
(1) Cooling air velocity distribution

Discharge angle : 25°



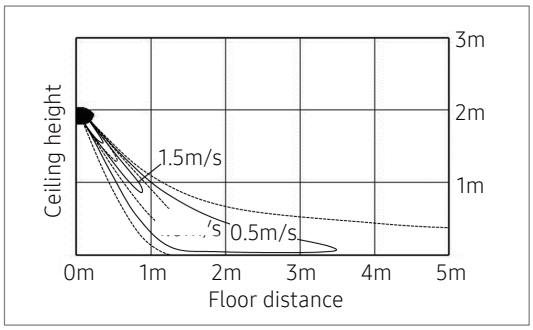
(2) Cooling temperature distribution

Discharge angle : 25°



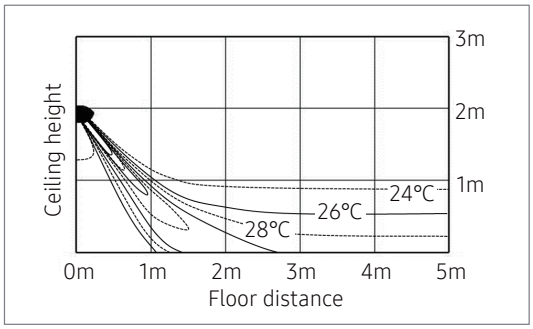
(3) Heating air velocity distribution

Discharge angle : 55°



(4) Heating temperature distribution

Discharge angle : 55°



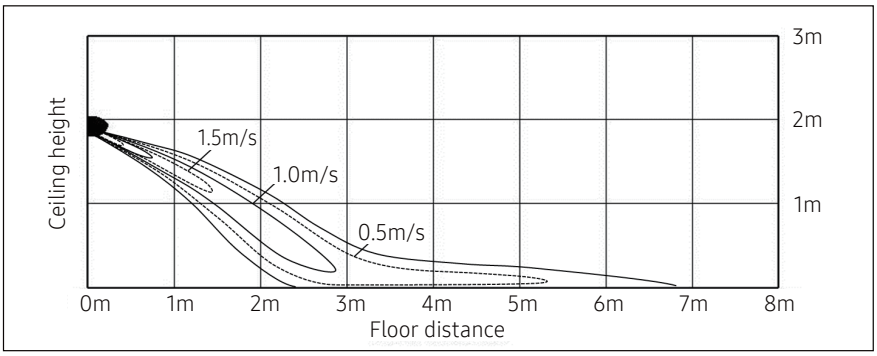
4. Indoor Units

4-7. Temperature and air flow distribution

RAC (A3050) : AE028MNADEH✱✱

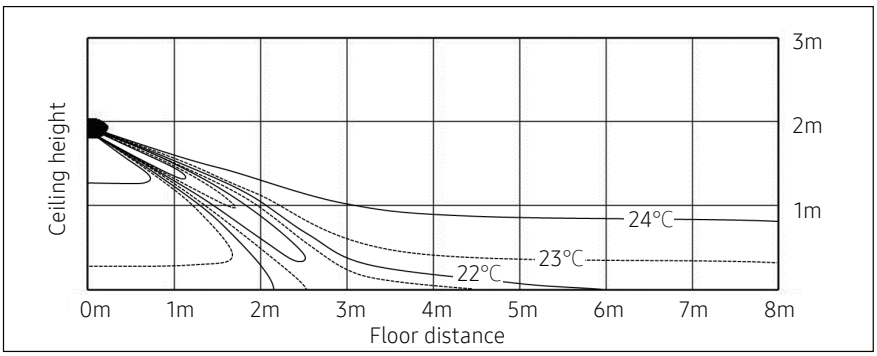
(1) Cooling air velocity distribution

Discharge angle : 25°



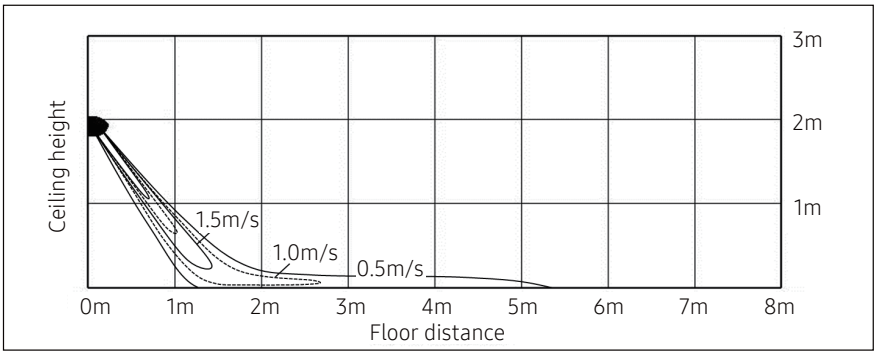
(2) Cooling temperature distribution

Discharge angle : 25°



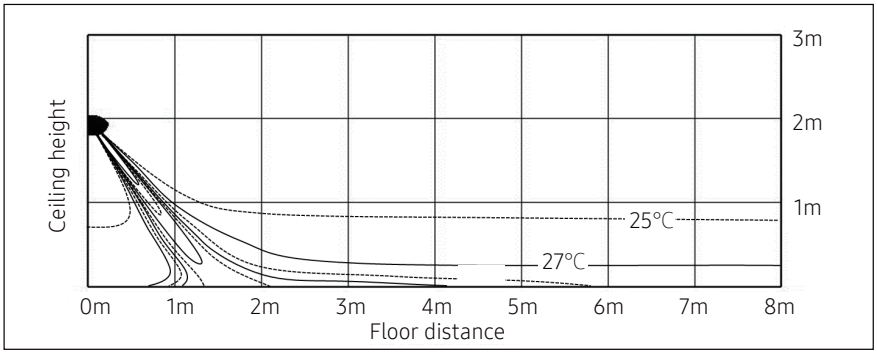
(3) Heating air velocity distribution

Discharge angle : 55°



(4) Heating temperature distribution

Discharge angle : 55°



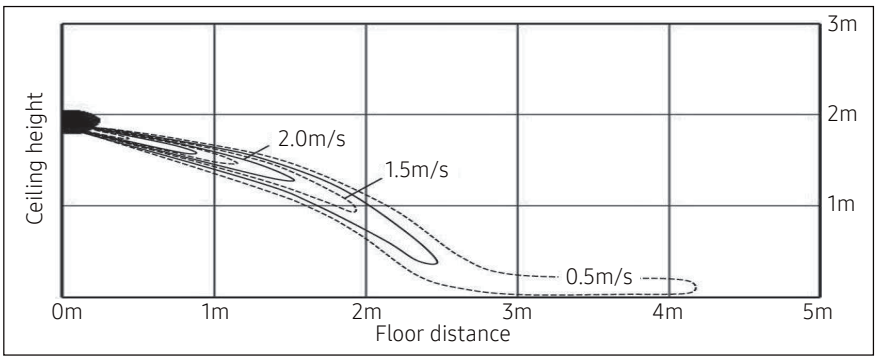
4. Indoor Units

4-7. Temperature and air flow distribution

RAC (A3050) : AE036MNADEH✱✱

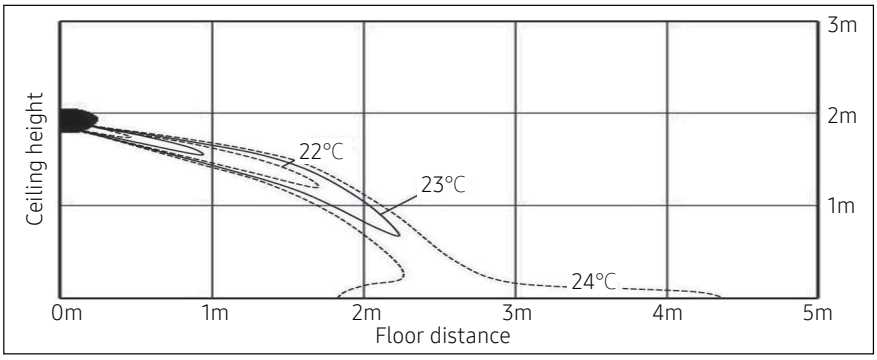
(1) Cooling air velocity distribution

Discharge angle : 18°



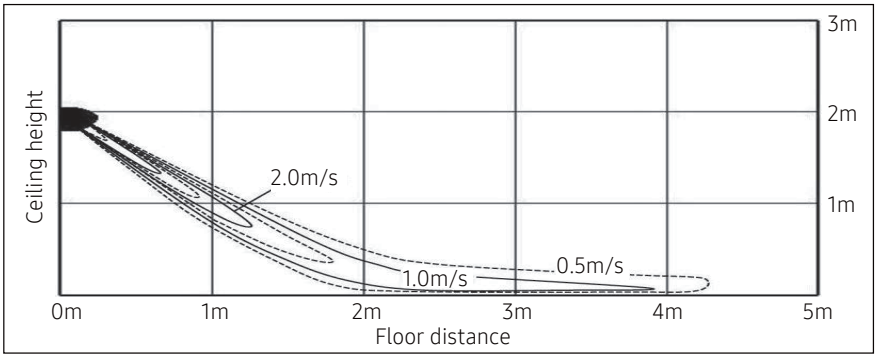
(2) Cooling temperature distribution

Discharge angle : 18°



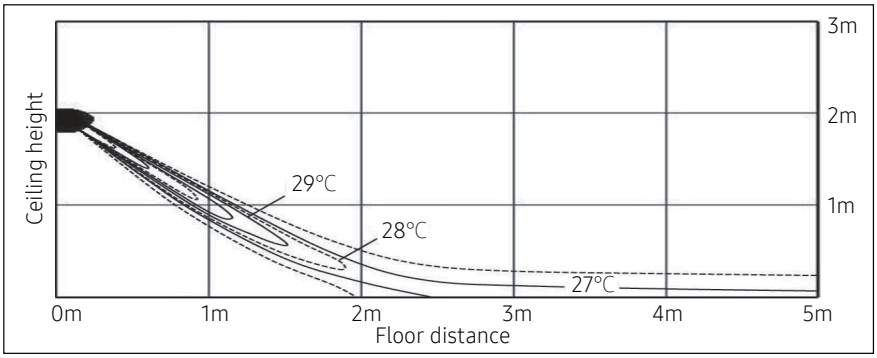
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



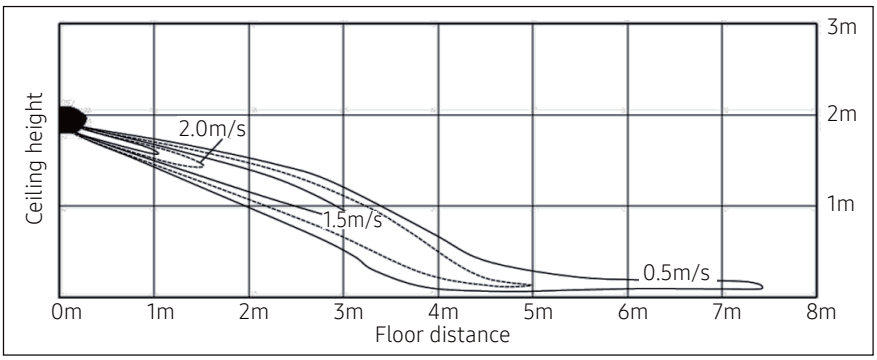
4. Indoor Units

4-7. Temperature and air flow distribution

RAC (A3050) : AE056MNADEH✱✱

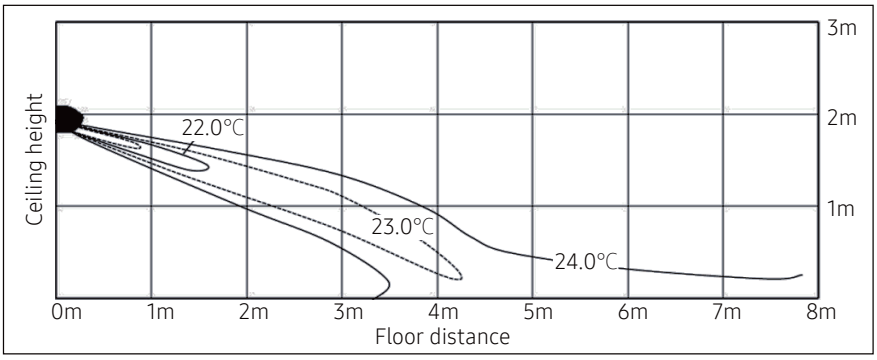
(1) Cooling air velocity distribution

Discharge angle : 18°



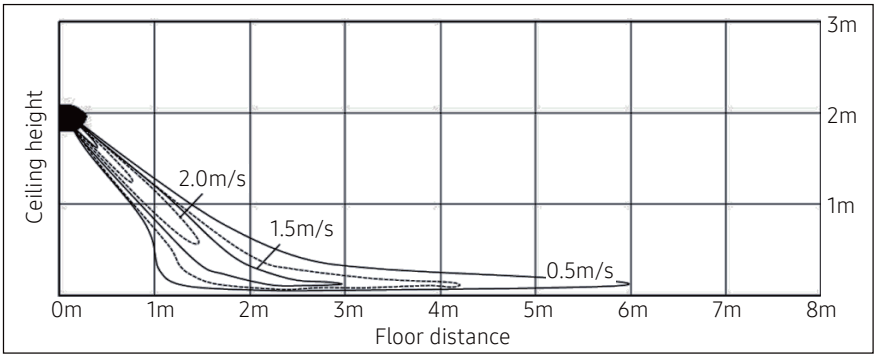
(2) Cooling temperature distribution

Discharge angle : 18°



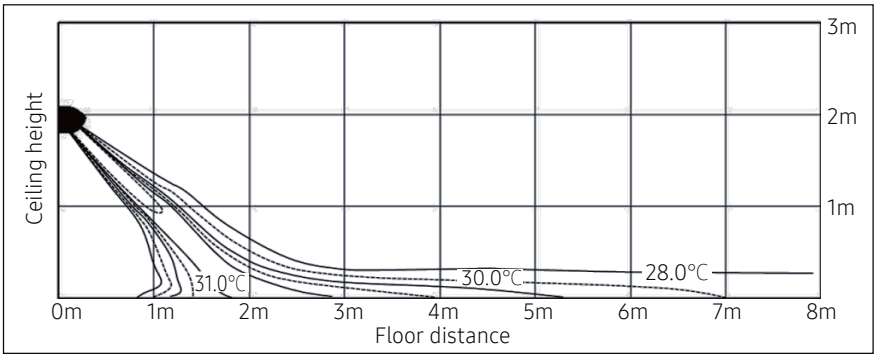
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



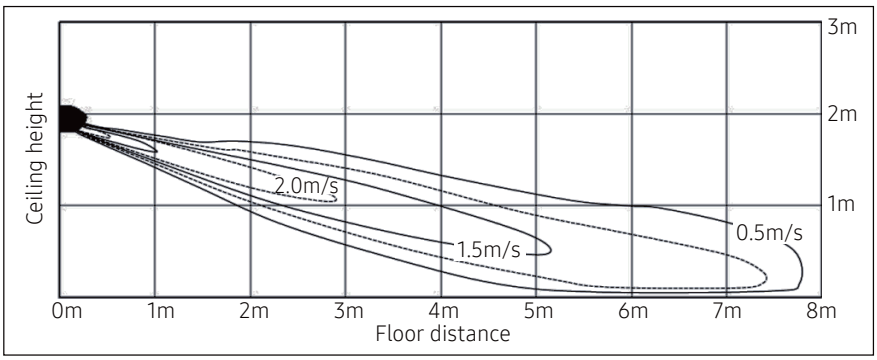
4. Indoor Units

4-7. Temperature and air flow distribution

RAC (A3050) : AE071MNADEH✱✱

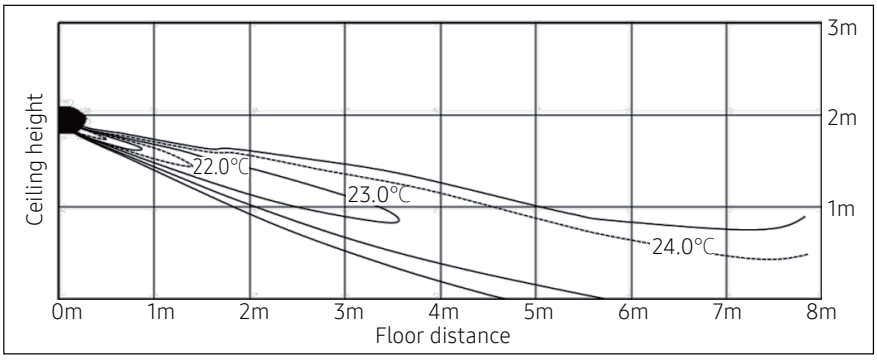
(1) Cooling air velocity distribution

Discharge angle : 18°



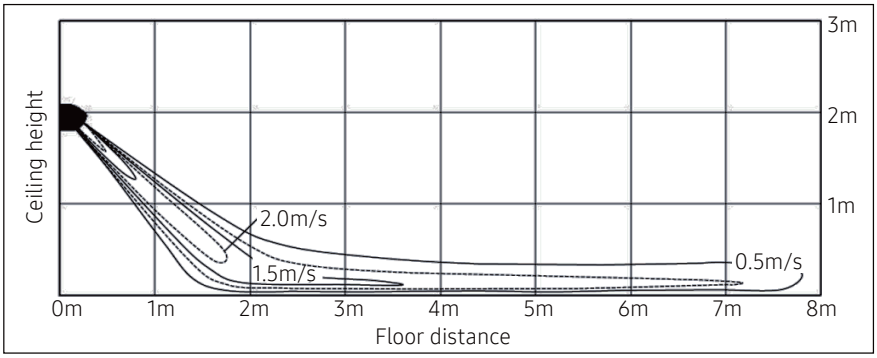
(2) Cooling temperature distribution

Discharge angle : 18°



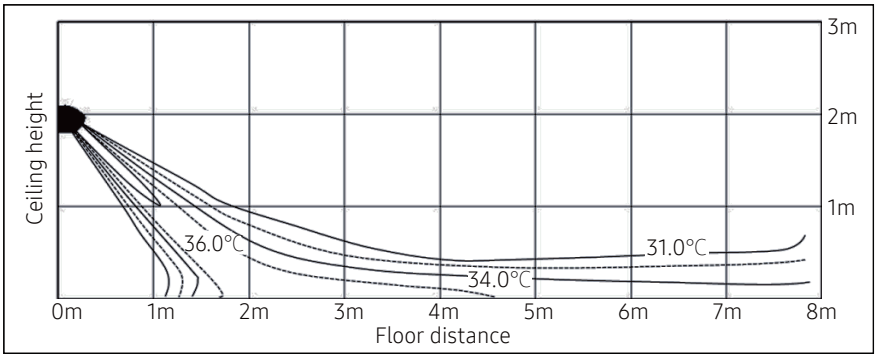
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



4. Indoor Units

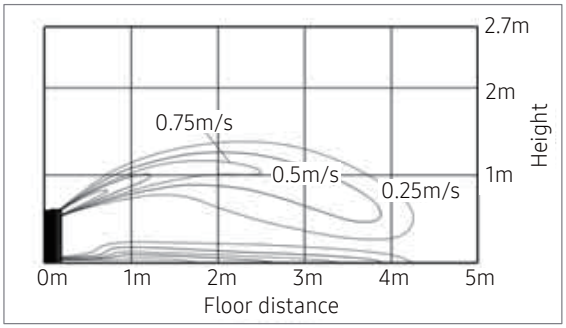
4-7. Temperature and air flow distribution

Console

AE022MNJDEH✱✱

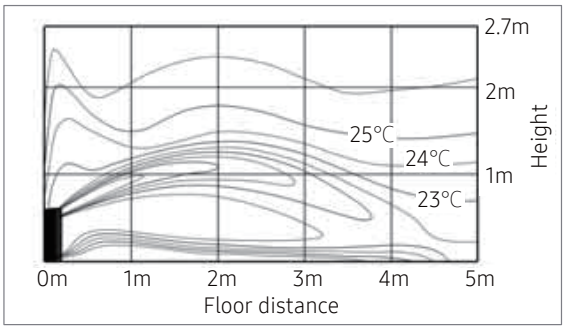
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



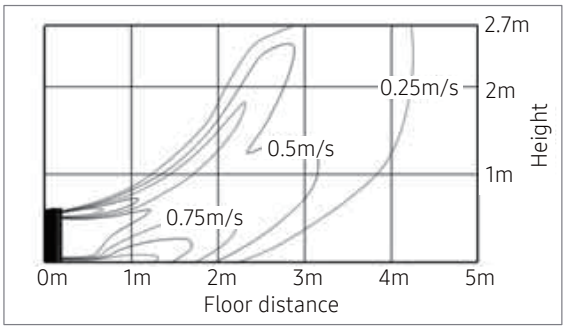
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



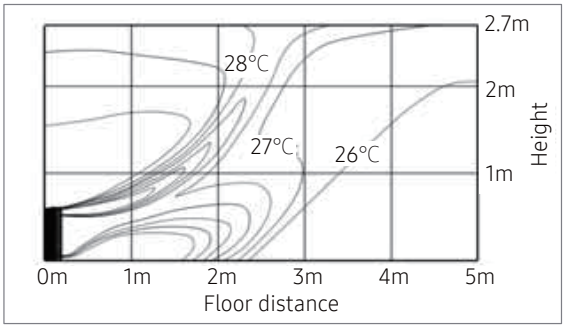
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



4. Indoor Units

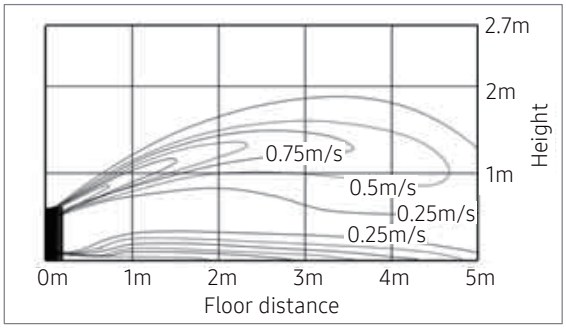
4-7. Temperature and air flow distribution

Console

AE028MNJDEH✱✱

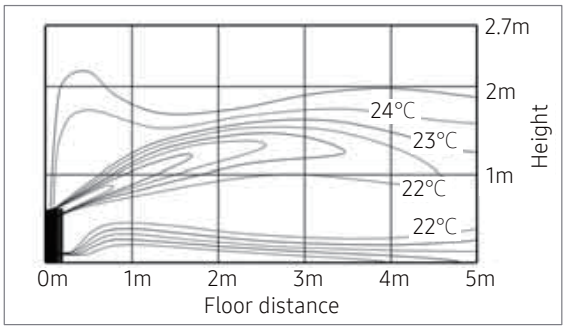
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



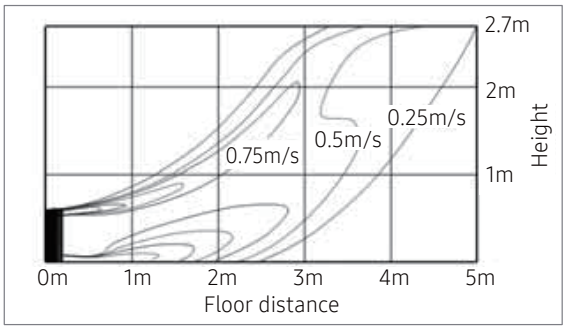
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



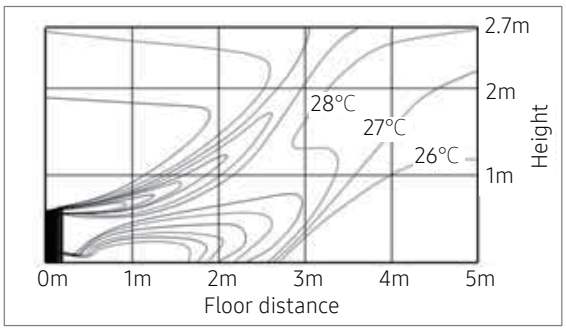
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



4. Indoor Units

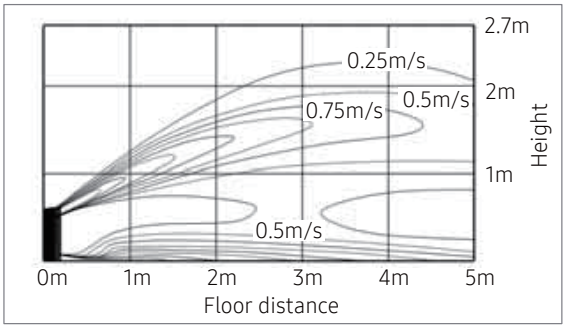
4-7. Temperature and air flow distribution

Console

AE036MNJDEH✱✱

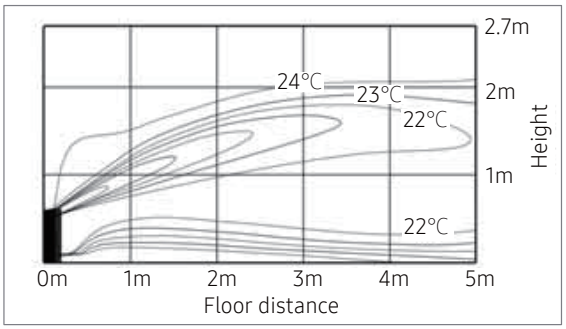
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



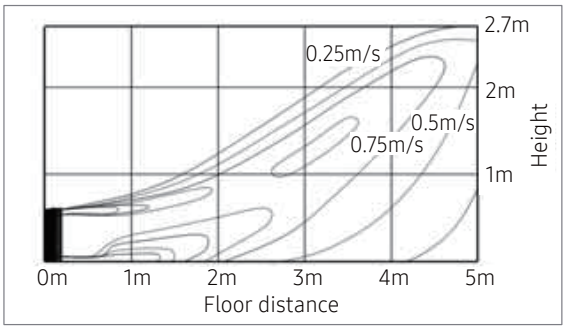
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



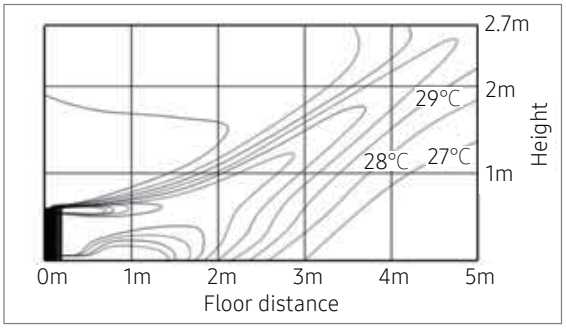
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



4. Indoor Units

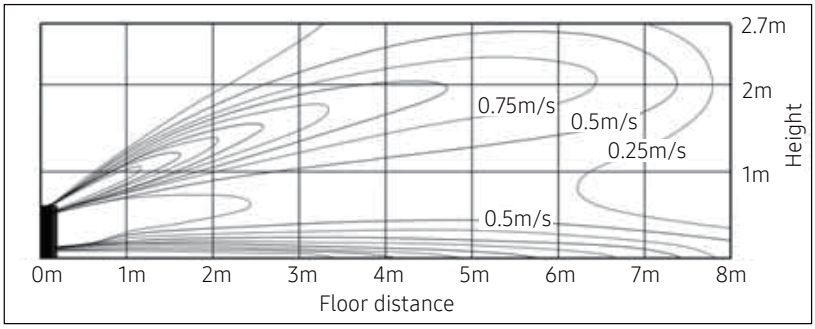
4-7. Temperature and air flow distribution

Console

AE056MNJDEH✱✱

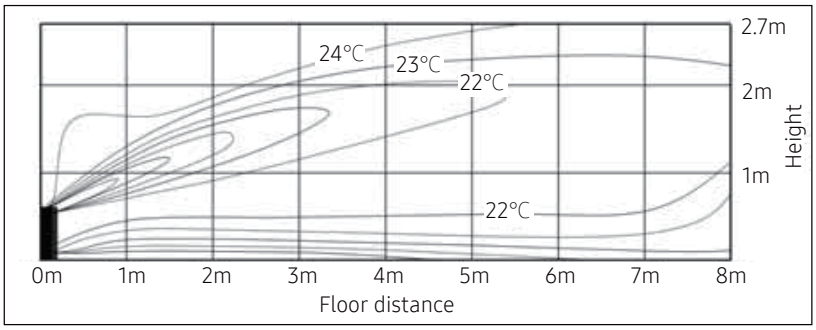
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



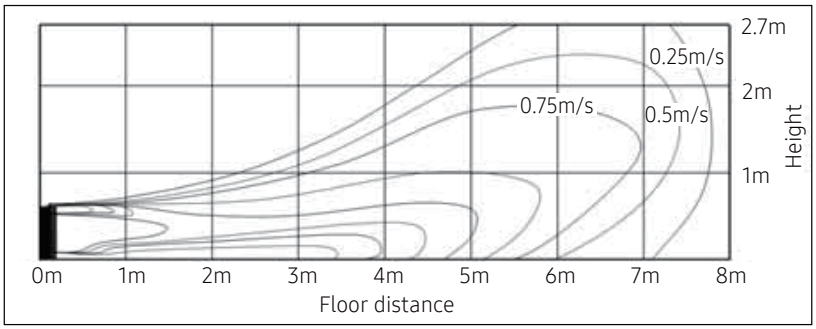
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



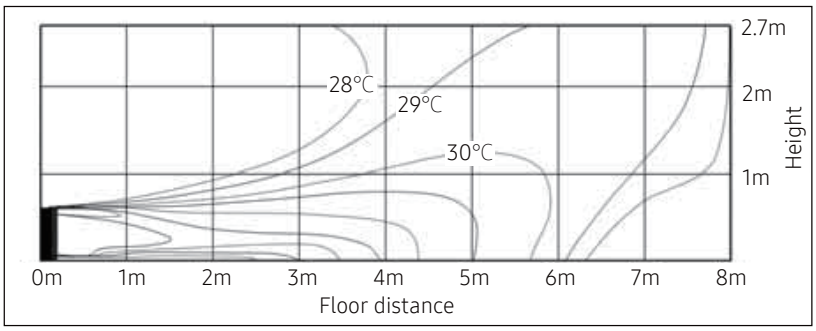
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



5. Installation

Outdoor Unit

Locating the Units

Space Requirements for Outdoor Unit

- Observe the clearances and dimensions as seen below when installing the outdoor unit.
- If you install several outdoor units simultaneously, observe the space for ventilation and free airflow. If the space for ventilation is insufficient, the Air to water heat pump may be inefficient.
- SAMSUNG logo is attached on the front side of the outdoor unit.

When installing 1 outdoor unit

(Unit: mm)

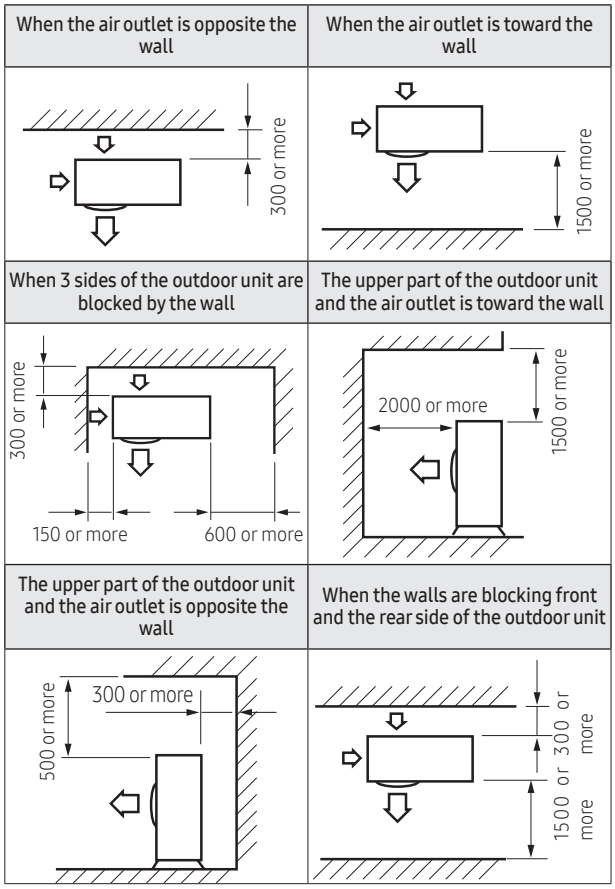
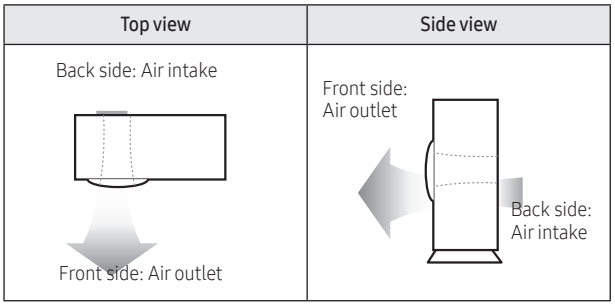


Figure Description



- , Air flow direction.

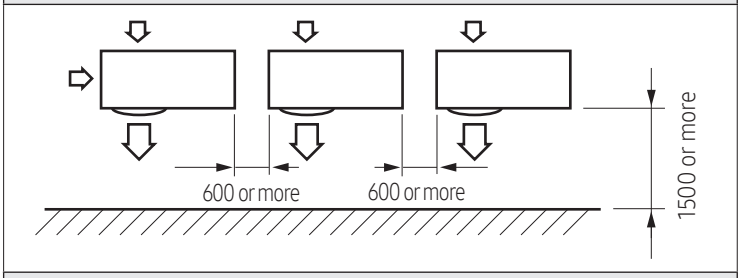
5. Installation

Outdoor Unit

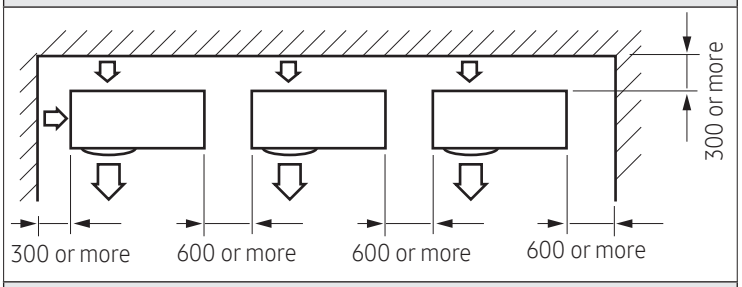
When installing more than 1 outdoor unit

(Unit: mm)

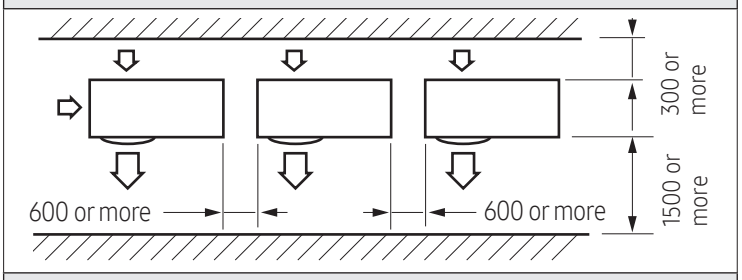
When the air outlet is toward the wall



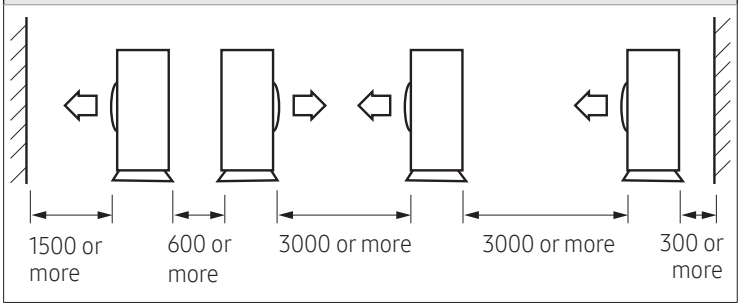
When 3 sides of the outdoor unit are blocked by the wall



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

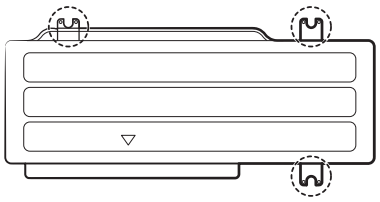


5. Installation

Outdoor Unit

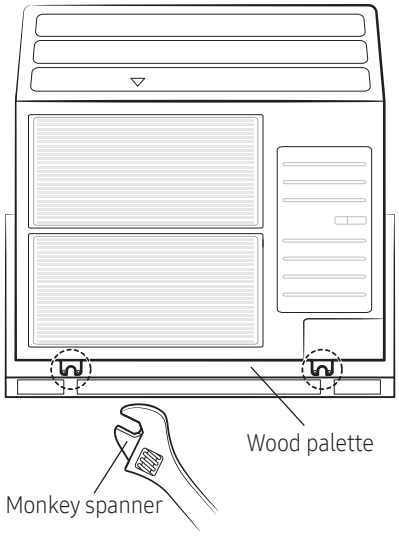
Disassembling the Leg Base and Wood Palette / Fastening the Anchor Bolt

1 Disassemble the three screws (with an electric driver) which fixes wood palette.

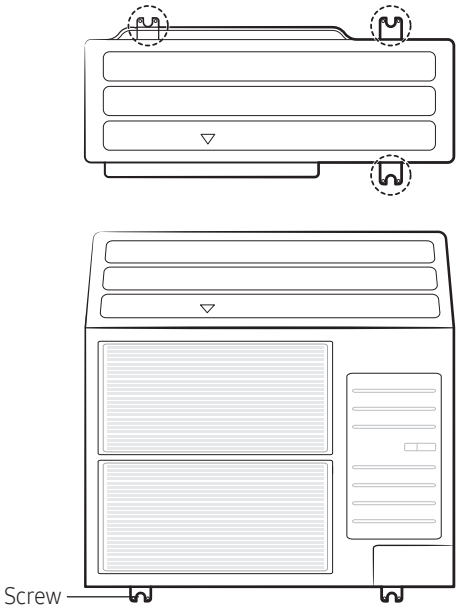


2 Disassemble the bottom-left screw with monkey spanner.

- Do not remove guard fan.



3 After removing the wood palette, move the outdoor unit to the installation place.
4 Fasten the bottom-left screw with monkey spanner first, and then fasten the other three anchor bolts.



5. Installation

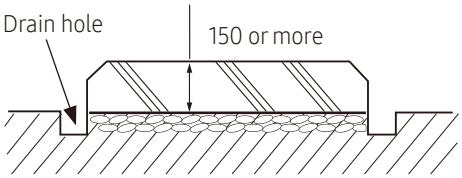
Outdoor Unit

Installing the Outdoor Unit

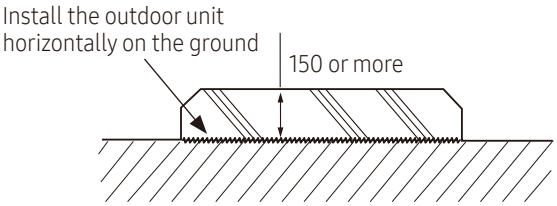
⚠ CAUTION

- Do not install the outdoor unit on a wooden pallet palette.
- Fix the outdoor unit completely to the base fix the outdoor unit with anchor bolts.
- The manufacturer is not responsible for the damage occurred by not keeping standard of the installation.
- Install the outdoor unit higher than 150mm from the base surface and install the drain hole to connect the pipe to the drainage.
- If front fan outdoor unit is installed where average snow fall is 150mm or more, a duct should be fitted to the unit.
- The concrete foundation should be 1.5 times larger than bottom of the outdoor unit.
- When heating, condensed water may be generated. Pay attention to waterproof and drainage of the concrete foundation where the outdoor unit is installed. (An ice patch may form on the base surface in winter.)
- Install a square pad(t=20mm or more) to prevent vibration of the outdoor unit delivering to the base surface when installing the concrete for the outdoor unit.

(Unit : mm)



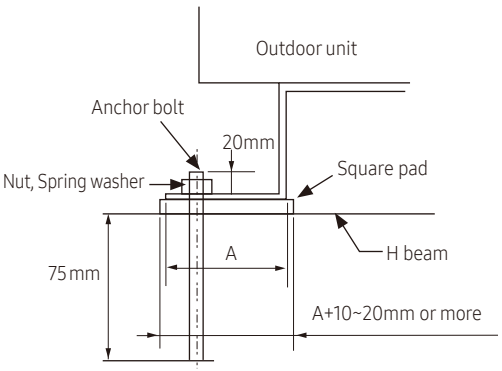
‹ When installing on the ground ›



‹ When installing on the roof ›

※ Base mount construction

- Place the outdoor unit on the H beam and fix it with the bolt, nut and washer.



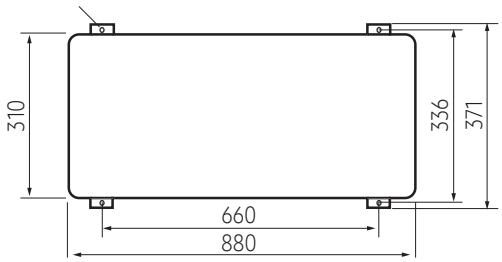
5. Installation

Outdoor Unit

Outdoor unit base mount and anchor bolt position

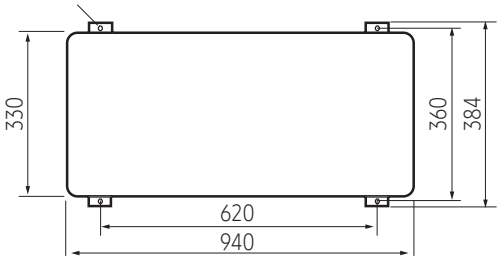
- 4.4/6.6kW

Anchor bolt position (ø7, 4 holes) (Unit : mm)



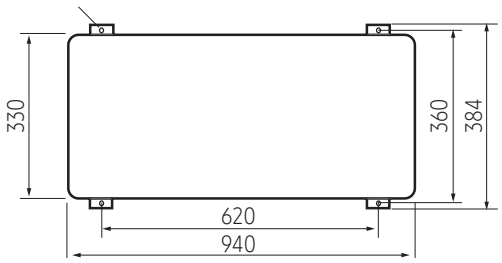
- 9kW

Anchor bolt position (ø7, 4 holes) (Unit : mm)



- 12/16kW

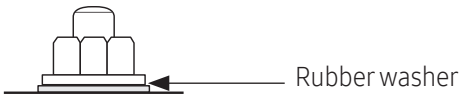
Anchor bolt position (ø7, 4 holes) (Unit : mm)



⚠ CAUTION

When tightening the anchor bolt

- Tighten the rubber washer to prevent the outdoor unit bolt connection part from corroding.

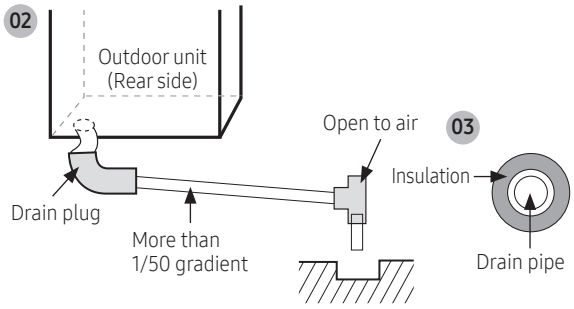


5. Installation

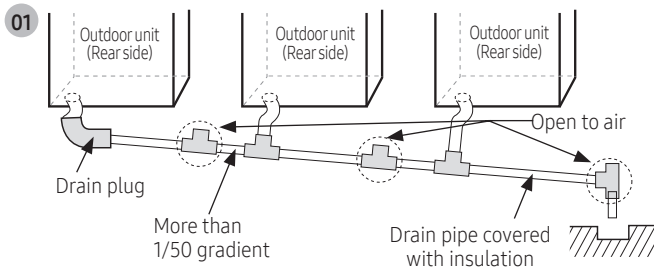
Outdoor Unit

Installing the drain pipe

- When installing 1 outdoor unit



- When installing more than 1 outdoor unit



01 Open the upside of connected parts of outdoor units to prevent inner pressure.

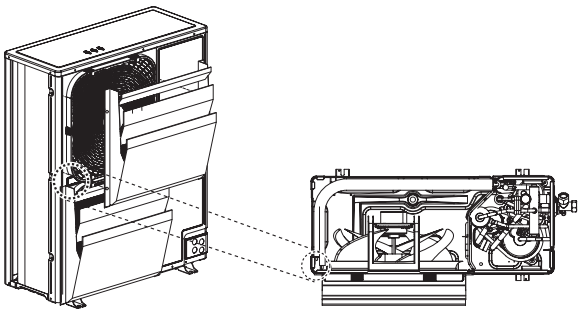
02 Do not install a trap in the drain pipe work and install with a 1/50 gradient or more.

03 Insulate the drain pipe and drain plug by using the insulation over 10mm.

04 Install a self-regulation heat cable to prevent the drain pipe from freezing.

Caution When Installing Cover for Heating Air Direction Change

- Parts shown in the picture is where the copper pipe may be passing by or the external plate may be near the copper pipe. When using screw for installing the air direction changing device such as heating air cover, check and make sure that it does not damage the copper pipe.



‹ Internal view from bottom›

5. Installation

Outdoor Unit

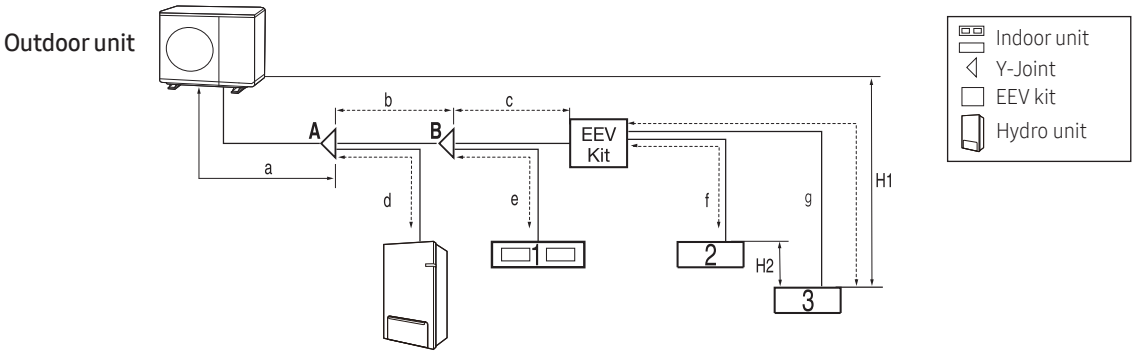
Installing the Refrigerant Pipe Work

- Install the refrigerant pipe within the maximum allowable length, difference in height and length of after the first branch pipe.
- The pressure of the R410A is high.
  Use only rated refrigerant pipe and follow the installation method.
- Use clean refrigerant pipe Where there is no harmful ion, oxide, dust, iron content or moisture.
- Use adequate tools and accessories for R410A.

Manifold gauge	• Use manifold gauge only for R410A to prevent the inflow of foreign substances.
Vacuum pump	• Use vacuum pump with check valve to prevent pump oil from flowing backward while the vacuum pump is stopped. • Use the vacuum pump that the vacuum induction is available up to 5 Torr (666.6Pa , 0.0067 kgf/cm², 5 mmHg)
Flare nut	• Use only flare nut supplied with the product.

Allowable Length of the Refrigerant Pipe and the Installation Examples

AE044MXTPEH/AE066MXTPEH



Item				Example	Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Longest piping length	Less than 30m	a+b+c+g ≤ 30m	
		Equivalent length	Less than 40m	Y-joint and EEV kit : 0.5m	
		Total length	Less than 75m	a+b+c+d+e+f+g ≤ 75 m	5m ≤ Total length ≤ 75m
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 20m		H1	If outdoor unit is located lower position H1 ≤15m
	Indoor unit ~ Indoor unit	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+g ≤ 20 m (between first Y-joint and indoor unit) h ≤ 20 m (between EEV kit and indoor unit)	
Additional refrigerant calculation		R=Basic Charge + Additional charge by the piping length + Additional charge by (A2A)Indoor Basic Charge : Up to 10m When Installing A2W only = 2600g Additional charge by the piping length : 3/8" - 50g/m, 1/4" - 20g/m Additional charge by (A2A)Indoor unit : Refer to the 114 page 'Amount of additional refrigerant for each indoor unit' table.			

5. Installation

Outdoor Unit

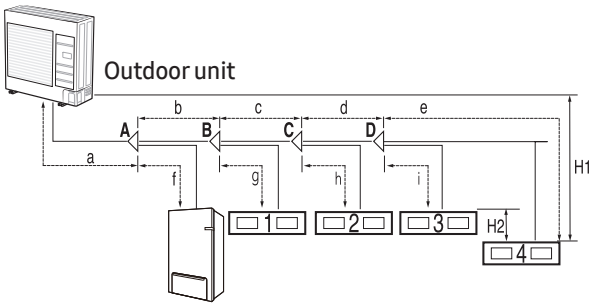
- Amount of additional refrigerant for each indoor unit

(Unit : kg)

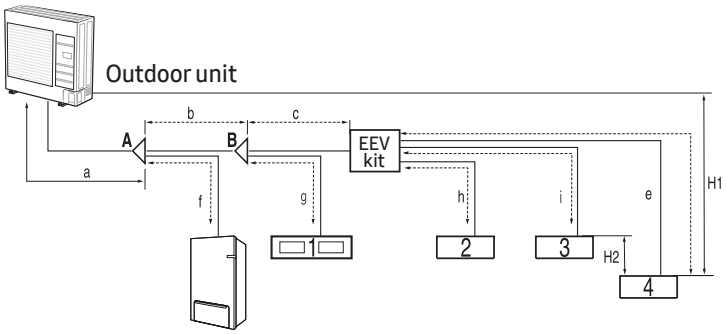
Model	Capacity[kW]	2.2	2.8	3.6	5.6	7.1	9.0
Slim Duct	Model name	AE022MNLDEH/EU	AE028MNLDEH/EU	AE036MNLDEH/EU	AE056MNLDEH/EU	-	-
	Refrigerant amount [kg]	0.17	0.17	0.26	0.35	-	-
MSP Duct	Model name	-	-	-	-	AE071MNMPEH/EU	AE090MNMPEH/EU
	Refrigerant amount [kg]	-	-	-	-	0.28	0.32
RAC (A3050)	Model name	AE022MNADEH/EU	AE028MNADEH/EU	AE036MNADEH/EU	AE056MNADEH/EU	AE071MNADEH/EU	-
	Refrigerant amount [kg]	0.22	0.25	0.34	0.71	0.71	-
Console	Model name	AE022MNJDEH/EU	AE028MNJDEH/EU	AE036MNJDEH/EU	AE056MNJDEH/EU	-	-
	Refrigerant amount [kg]	0.16	0.27	0.27	0.27	-	-

AE090MXTP✱H

Using only Y-joint



Using EEV kit



Item				Example	Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Longest piping length	Less than 30m	a+b+c+d+e ≤ 30m	
		Equivalent length	Less than 40m	Y-joint and EEV kit : 0.5m	
		Total length	Less than 75m	a+b+c+d+e+f+g+h+i ≤ 75m	5m ≤ Total length ≤ 75m
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 20m		H1	If outdoor unit is located lower position H1 ≤15m
	Indoor unit ~ Indoor unit	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+g ≤ 20 m (between first Y-joint and indoor unit) h ≤ 20 m (between EEV kit and indoor unit)	
Additional refrigerant calculation		R=Basic Charge + Additional charge by the piping length + Additional charge by (A2A)Indoor Basic Charge : Up to 10m When Installing A2W only = 2400g Additional charge by the piping length : 3/8" - 50g/m, 1/4" - 20g/m Additional charge by (A2A)Indoor unit : Refer to the above 'Amount of additional refrigerant for each indoor unit' table.			

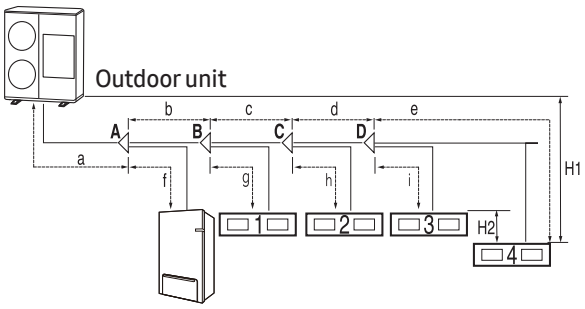
- Contact the manufacturer if the length should exceed.

5. Installation

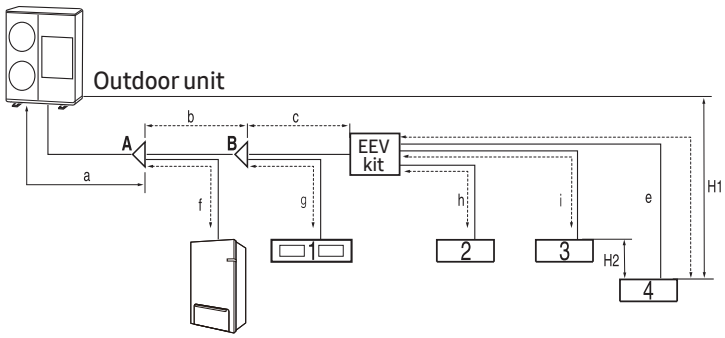
Outdoor Unit

AE120/160MXTP✱H

Using only Y-joint



Using EEV kit



Item				Example	Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Longest piping length	Less than 70m	a+b+c+d+e ≤ 70m	
		Equivalent length	Less than 85m	Y-joint and EEV kit : 0.5m	
		Total length	Less than 200m	a+b+c+d+e+f+g+h+i ≤ 200m	10m ≤ Total length ≤ 200m
Maximum allowable height	Outdoor unit ~ Indoor units	Less than 30m		H1	If outdoor unit is located lower position H1 ≤ 25m
	Indoor unit ~ Indoor unit	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 ≤ 40m (between first Y-joint and indoor unit) h≤20m(between EEV kit and indoor unit)	
Additional refrigerant calculation		R=Basic Charge + Additional charge by the piping length + Additional charge by (A2A)Indoor Basic Charge : Up to 10m When Installing A2W only = 3500g Additional charge by the piping length : 3/8" - 60g/m, 1/4" - 20g/m Additional charge by (A2A)Indoor : Refer to the 114 page 'Amount of additional refrigerant for each indoor unit' table.			

- Contact the manufacturer if the length should exceed.

EEV Kit			Model name		Remarks
EEV Kit ~ Indoor units	Actual pipe lengh	2m or less	MEV-E24SA	1 indoor	Apply to products without EEV (Wall mounted & ceiling)
			MEV-E32SA		
		20m or less	MXD-E24K132A	2 indoor	
			MXD-E24K200A		
			MXD-E32K200A		
			MXD-E24K232A	3 indoor	
			MXD-E24K300A		
			MXD-E32K224A		
			MXD-E32K300A		

- Please refer to the EEV Kit manual.

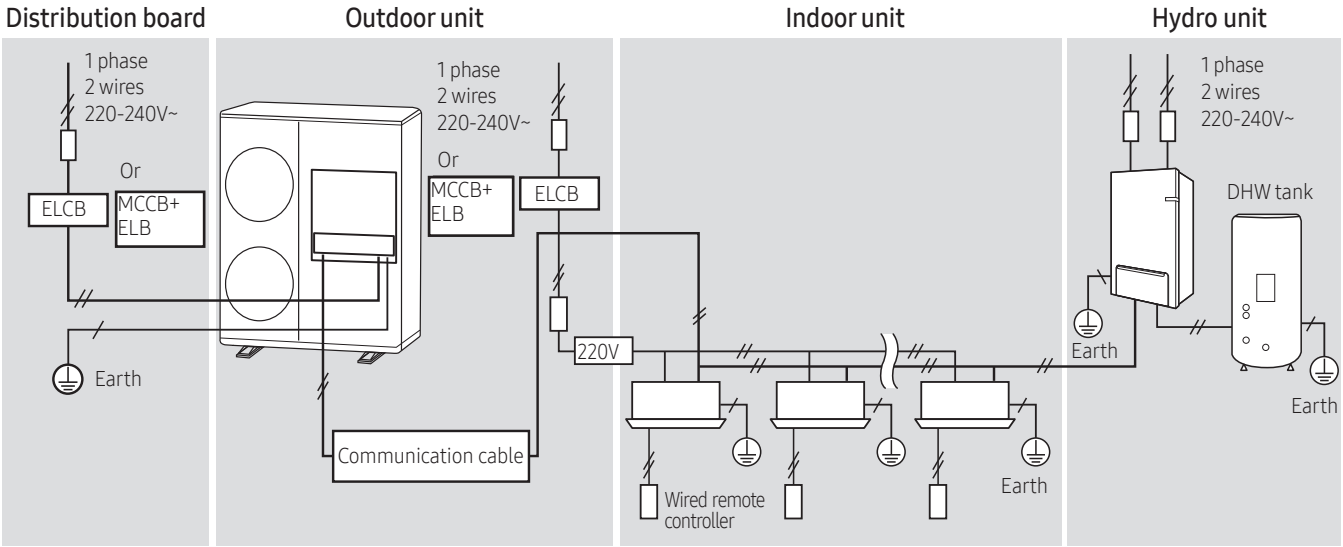
5. Installation

Outdoor Unit

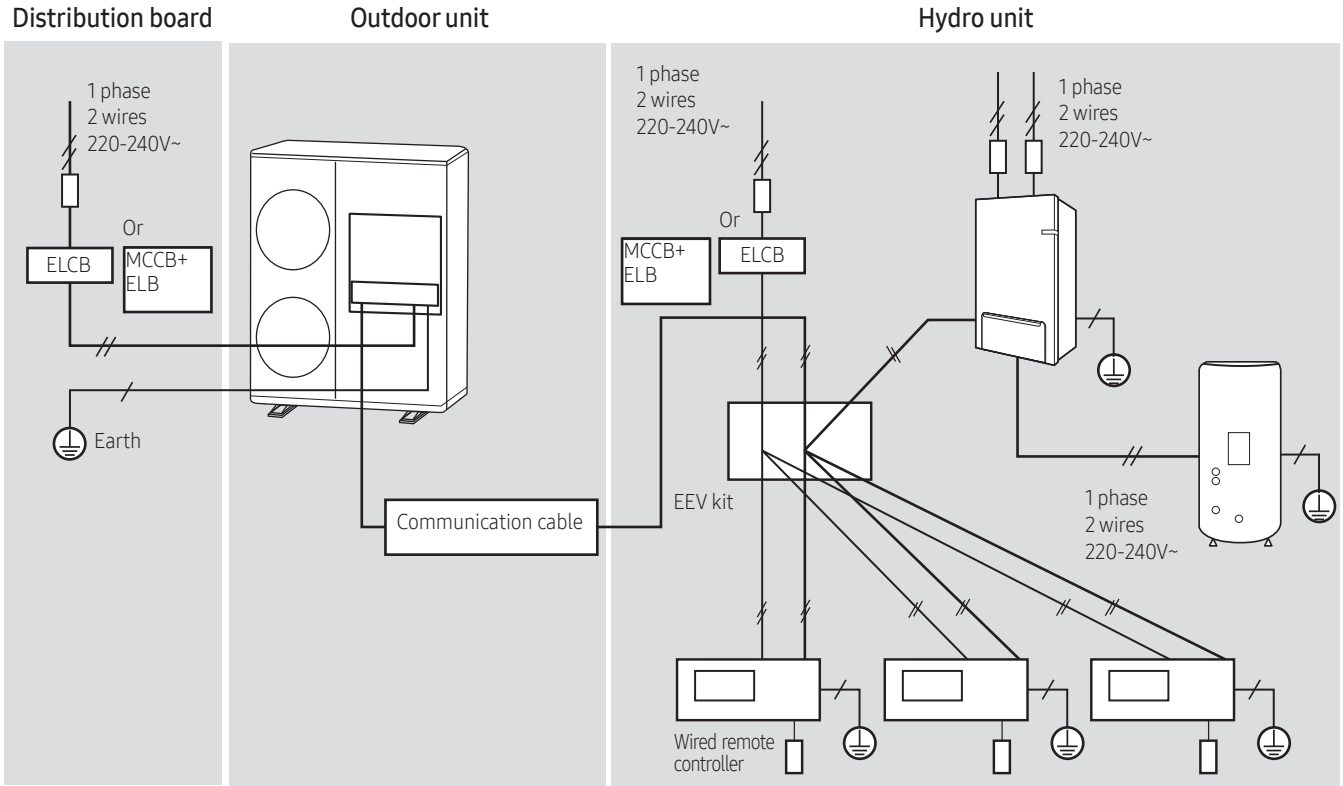
Electrical Connections

Overall System Configuration

Connection of the power cable (1 phase 2 wires)



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



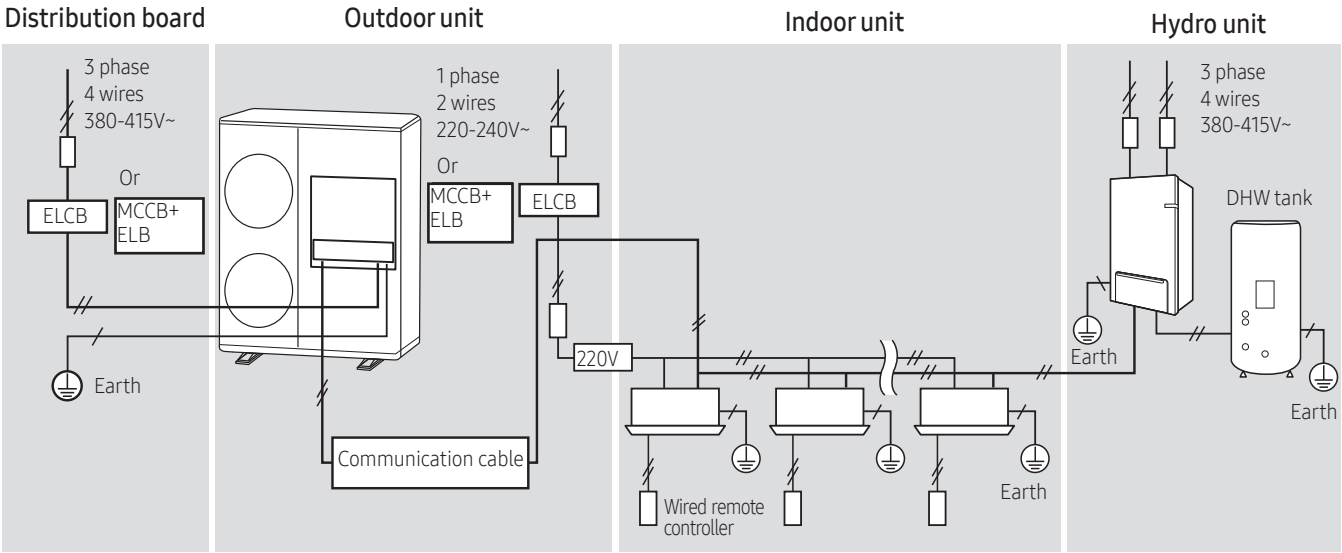
⚠ CAUTION

- Install cabinet panel near the outdoor unit for the convenience of service and emergency operation off.
- Make sure to install the circuit breaker with the over-current and electric leakage protection.

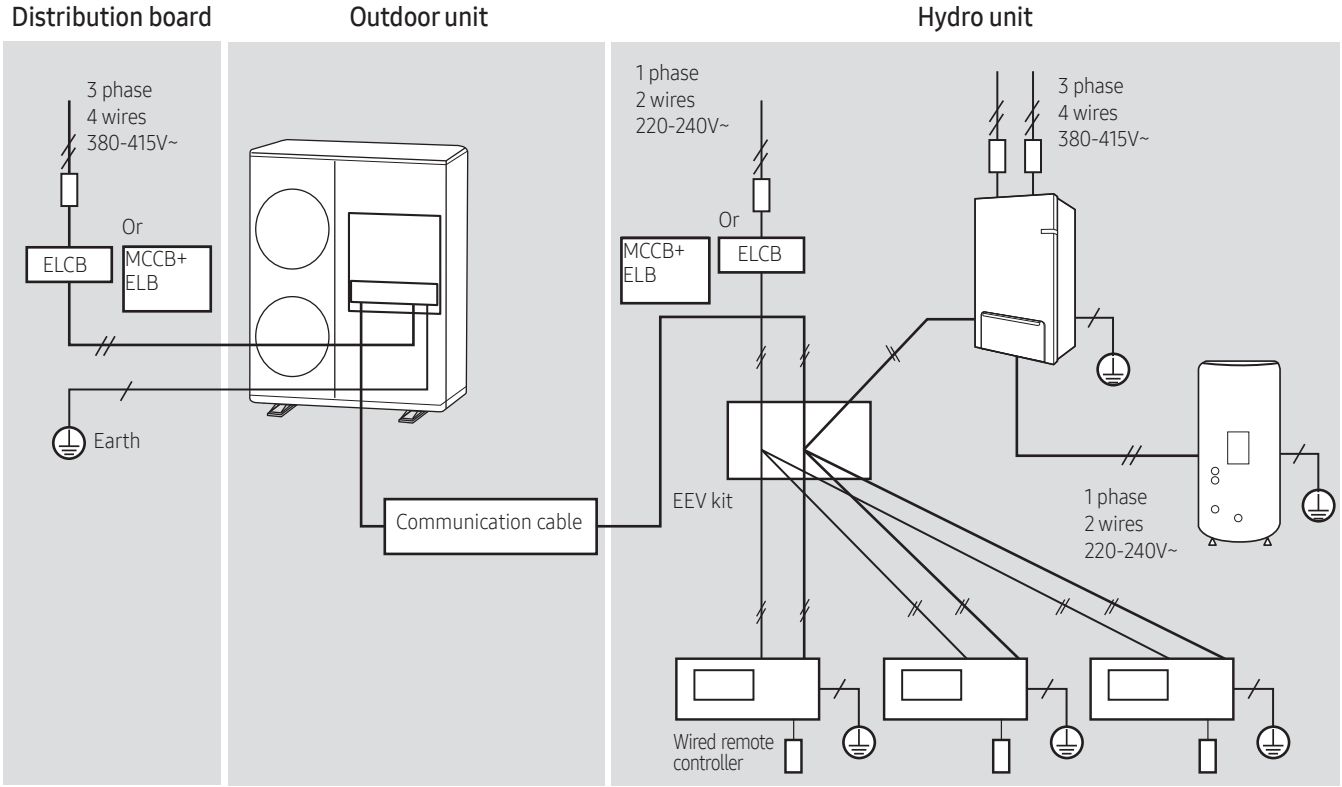
5. Installation

Outdoor Unit

Connection of the power cable (3 phase 4 wires)



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



⚠ CAUTION

- Install cabinet panel near the outdoor unit for the convenience of service and emergency operation off.
- Make sure to install the circuit breaker with the over-current and electric leakage protection.

5. Installation

Outdoor Unit

Specification of Electronic Wire of the Outdoor Unit

Outdoor unit	Power Supply		Voltage Range		MCA	MFA
	Hz	Volts	Min	Max	Min. Circuit Amps.	Max. Circuit Amps.
AE044MXTPEH	50	220-240	198	264	18.0	25.0
AE066MXTPEH			198	264	20.0	25.0
AE090MXTPEH			198	264	22.0	27.0
AE120MXTPEH			198	264	28.0	35.0
AE160MXTPEH			198	264	32.0	40.0
AE090MXTPGH	50	380-415	342	457	10.0	16.1
AE120MXTPGH			342	457	10.0	16.1
AE160MXTPGH			342	457	12.0	16.1

NOTE

- The power cable is not supplied with the Air to water heat pump.

NOTE

- Select the thickness and length of power cable less than 10% of voltage drop from input voltage.

CAUTION

- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.
- Must keep the cable in a protection tube.
- Keep distances of 50mm or more between power cable and communication cable.
- Each indoor unit should be supplied between maximum and minimum voltage values (264V~198V).
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC:H05RN-F , IEC:60245 IEC 66 / CENELEC: H07RN-F)

5. Installation

Indoor Unit

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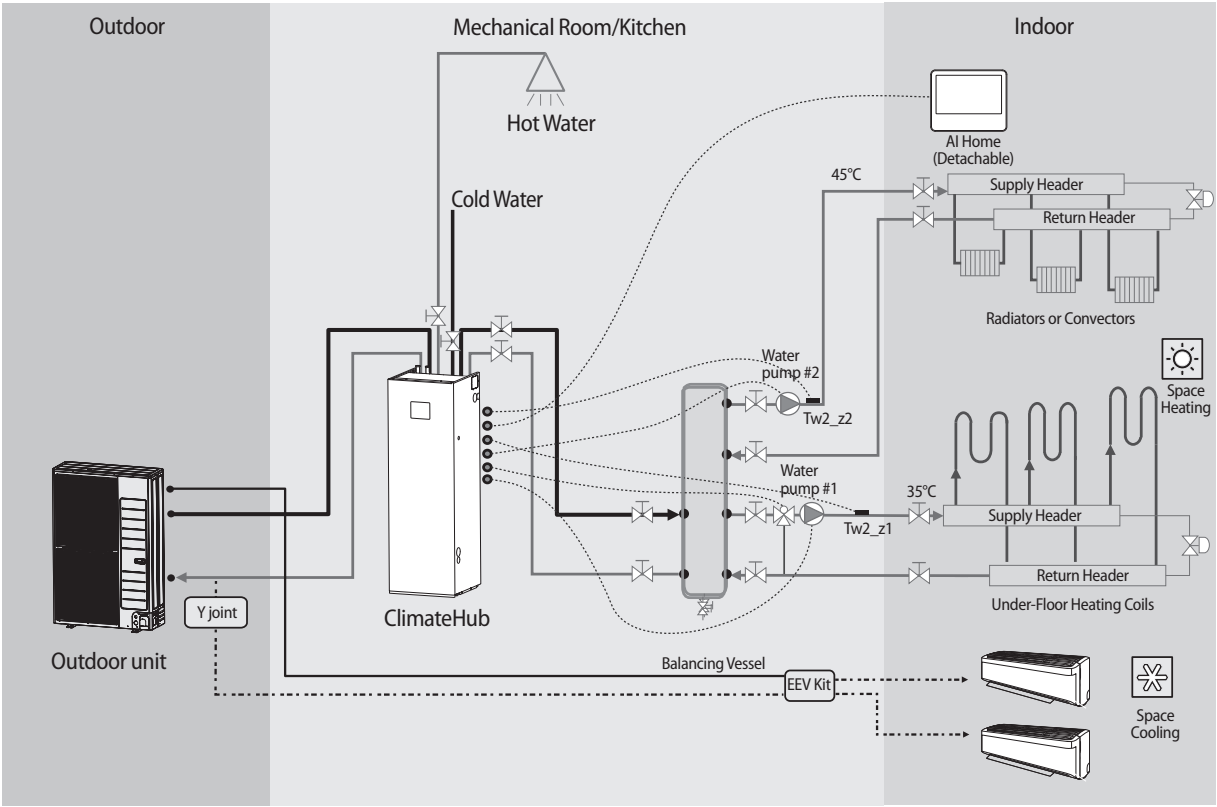
⚠ **WARNING**

- The application examples given below are for illustration purposes only.
- When the Samsung Air-to-Water Heat Pump system is used in series with another heat source (e.g. gas boiler), ensure that the return water temperature not exceed 55°C.
- The unit is only to be used in a closed water system. Application in an open water circuit can lead to excessive corrosion of the water piping.
- Samsung can not be responsible for incorrect or unsafe situations in the water system. Make sure that the boiler, radiators, convectors, UFHs, FCUs, additional pumps, pipings, and controls in the water system are in accordance with relevant local laws and regulations under the installer's responsibility.
- Samsung shall not be held liable for any damage resulting from not observing this rule.
- Samsung do not provide specific water system components such as Pressure relief valve, Air vent valve, buffer tank and etc. Installers and end-users shall consider how to install the above designated components in overall water system depending on the installation conditions. If the components are not installed in appropriate location, the water system can not be operated as designed.

✻ The below examples are for illustration purposes only.

Application 1: Space heating + water heating

*AE200DNWTPH(Standard)



5. Installation

Indoor Unit

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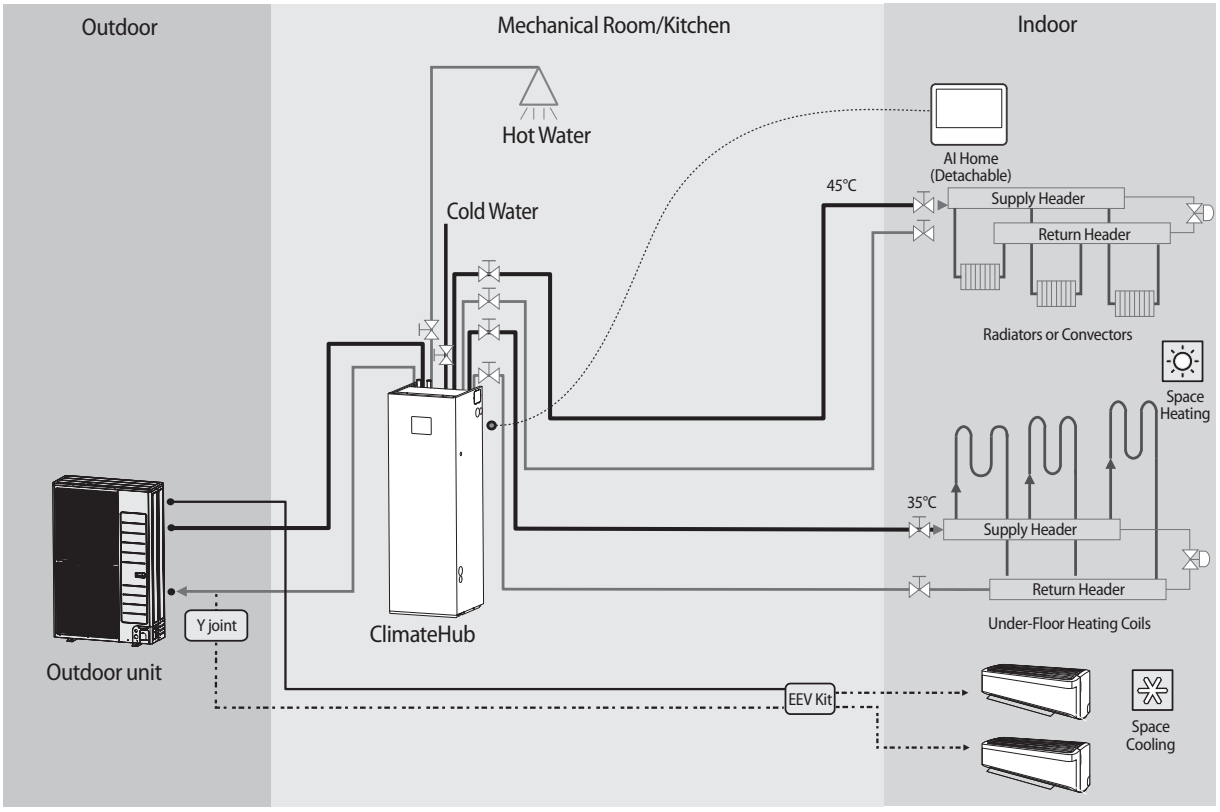
* AE200DNXTPH(2 Zone)



5. Installation

Indoor Unit

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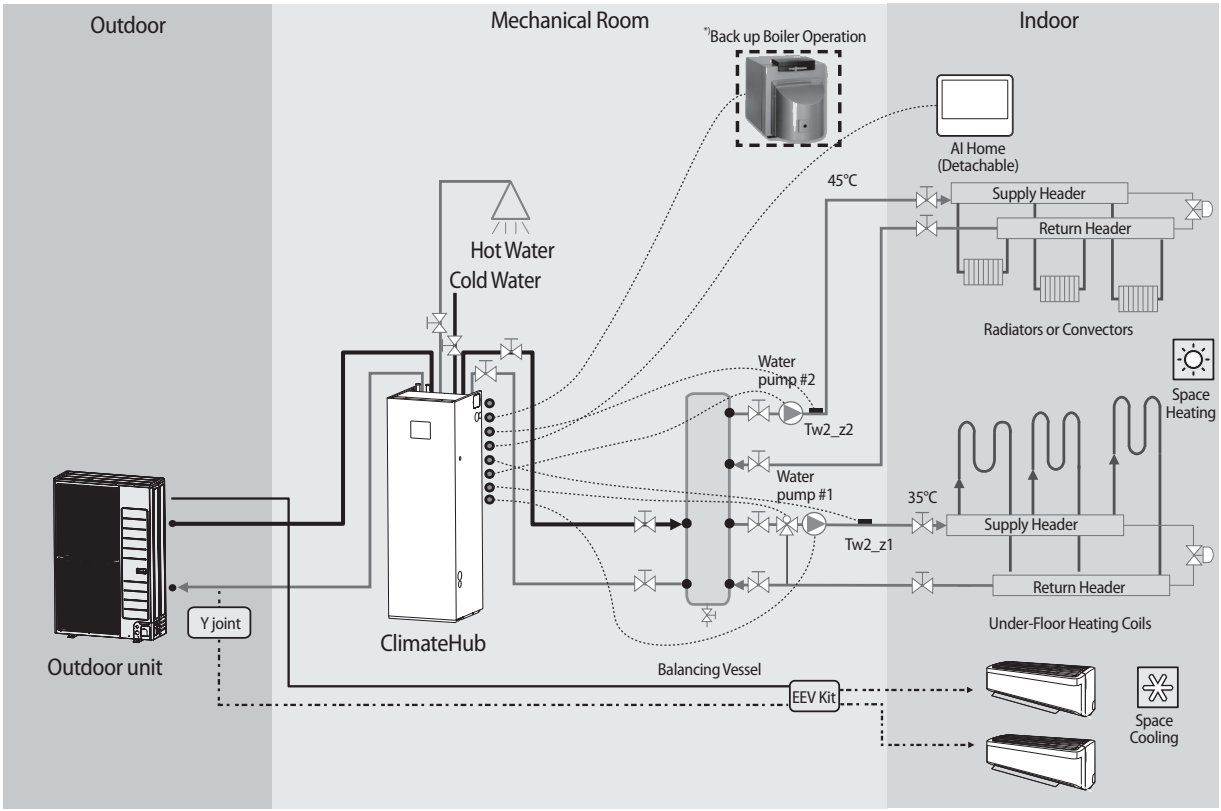
Application 2: Hybrid application(backup boiler)

*AE200DNWTPH(Standard)



*) We control only the on / off signal of backup boiler according to outdoor temperature.
Backup boiler should be installed with own device according to the field condition.

5. Installation

Indoor Unit

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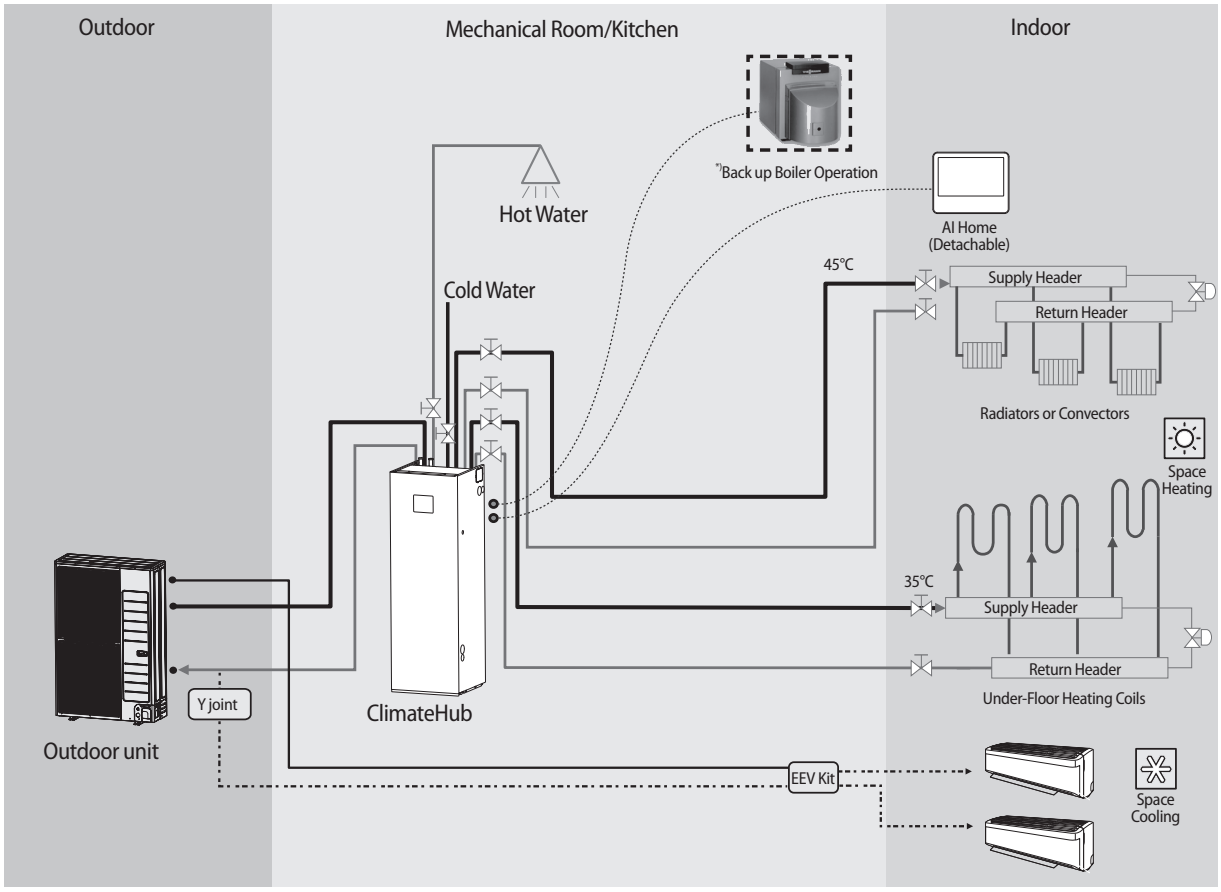
* AE200DNXTPH(2 Zone)



*) We control only the on / off signal of backup boiler according to outdoor temperature.
Backup boiler should be installed with own device according to the field condition.

⚠ CAUTION

- Samsung has not responsible for performance and stability of backup boiler.
- Water quality must be according to Directive (EU) 2020/2184.

5. Installation

Indoor Unit

ClimateHub

Water pipe work

The hydro unit is equipped with components listed on the table below.
All entering, leaving water direction is embossed right next to the pipe. Please connect the pipe with attention to the direction of the arrow.
Whole water plumbing system including Hydro unit shall be installed by a qualified technician and must comply with all relevant European and national regulations.

- ▶ Allowable water pressure of hydro unit is maximum 3.0 bar.
- ▶ An air-vent valve is integrated on the hydro unit. Please check that air-vent valve is not overtightened so the air-vent valve can release any air out of the system during system operation.
- ▶ AE200DNX*** (2zone built-in type) is designed to supply water at 2 different temperatures.
  - For heating operations, please connect the Zone 1 supply line to a room that requires a lower water temperature (ex,underfloor heating) and the Zone 2 supply line to a room that requires a higher water temperature (ex,radiators).

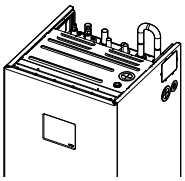
NOTE

If you install AE200DNX*** (2zone built-in type) as a single-zone application, then:

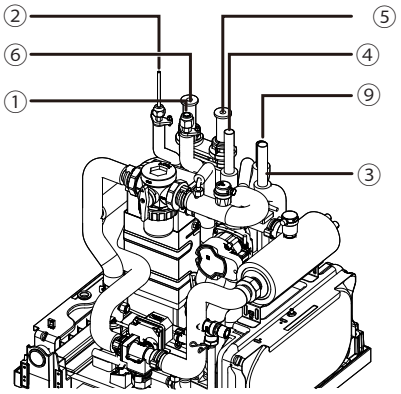
- Install a bypass line between the water inlet and outlet for Zone 1 and use Zone 2 for space heating.
- Change FSV Setting #4061=0(Zone control= No), #4041=0 (Mixing V/v control= No)

⚠ CAUTION

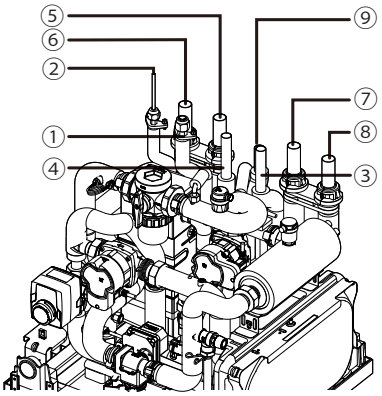
- In case of the zone 1 is not used, in/out pipe should not be blocked sepalately, and it must be connected to the Bypass line.



✻ AE200DNWTPH



✻ AE200DNXTPH



No	Size	Name		Type
		AE200DNWTPH	AE200DNXTPH	
①	Φ15.88, T0.8, Copper	Outdoor inlet (From Outdoor Unit)		Flare Nut
②	Φ9.52, T0.7, Copper	Outdoor outlet (To Outdoor Unit)		
③	Φ22, T1.0, Copper	DHW outlet (Hot Water)		Straight pipe
④	Φ22, T1.0, Copper	DHW inlet (Cold Water)		
⑤	Φ28, T1.2, Copper	Heating Outlet (Zone 2) (To Zone 2)		
⑥	Φ28, T1.2, Copper	Heating inlet (Zone 2) (From Zone 2)		
⑦	Φ28, T1.2, Copper	N/A	Outdoor inlet (From Outdoor Unit)	
⑧	Φ28, T1.2, Copper	N/A	Heating inlet (Zone 2) (From Zone 2)	
⑨	Φ22, T1 .0, Copper	DHW Return (Recirculation)		straight pipe with cap

5. Installation

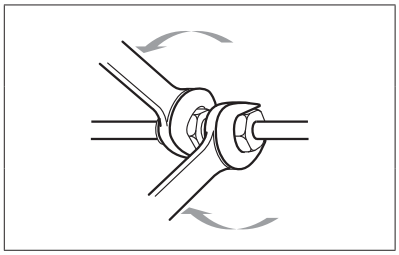
Indoor Unit

ClimateHub

Refrigerant pipe work

For all guide lines, specifications regarding refrigerant pipe work between the indoor unit and the outdoor unit, please follow the outdoor unit installation manual.

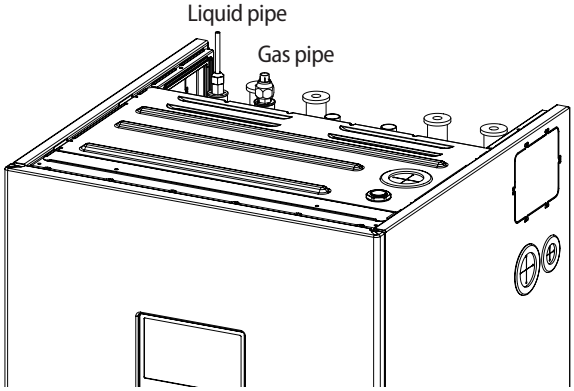
	Gas pipe (O.D.)	Liquid pipe (O.D.)
Indoor unit	15.88 mm (5/8 inch)	9.52 mm (3/8 inch)
Outdoor unit	15.88 mm (5/8 inch)	9.52 mm (3/8 inch)



Outer diameter [mm(inch)]	Torque (N•m)
ø6.35 (1/4")	14~18
ø9.52 (3/8")	34~42
ø12.70 (1/2")	49~61
ø15.88 (5/8")	68~82
ø19.05 (3/4")	100~120

⚠ CAUTION

- When connecting the refrigerant pipes, always use 2 wrenches/spanners for tightening or loosening nuts. If not, piping connections can be damaged.



5. Installation

Indoor Unit

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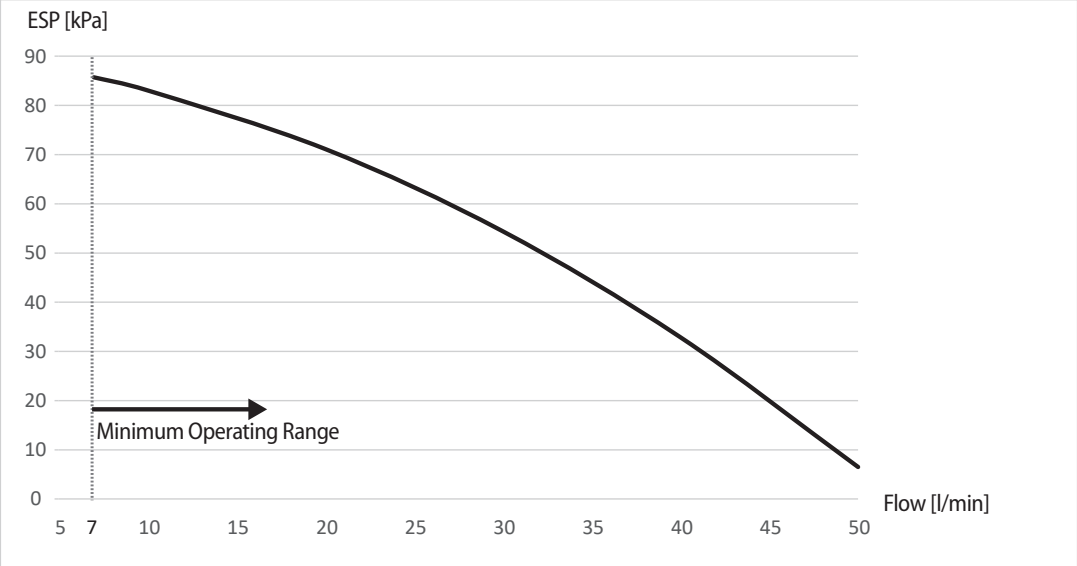
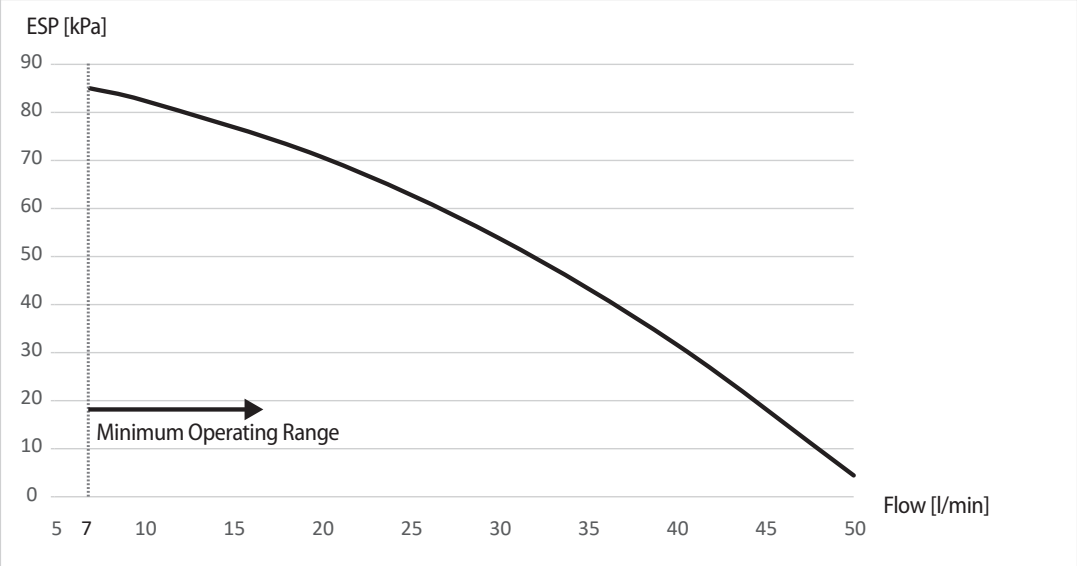
ESP(External Static Pressure) Diagram

The illustration below shows the external static pressure of the unit depending on the water flow and the pump setting.

AE200DNW***



AE200DNX***



When ESP is not enough, additional pump should be installed. In this case, install the PWM control external type pump (Heating type) additionally.

5. Installation

Indoor Unit

ClimateHub

Connection guide of additional pump

Ensuring proper water flow is an important factor for performance and efficiency.
If the water flow is not adequate, consider installing additional pumps.
When installing an additional pump, the system's maximum allowable water flow rate and maximum water pressure should not be exceeded.

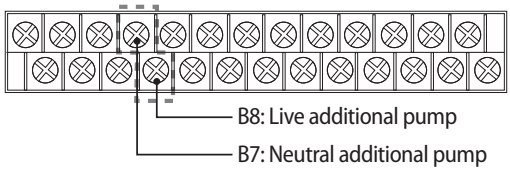
⚠ CAUTION

- Each terminal set (Live+Neutral) for additional pumps can supply ampere up to Max 1.0A.
- If an additional pump is needed, the additional pump should be installed in a designated location according to the installation case below
- [Case I] AE200DNX***: additional pump should be installed in the Zone2 piping line
- [Case II] AE200DNW***: additional pump should be installed in the Zone piping line
- For the above installation cases, refer to wire works cases 1 and 2.
- If an additional pump is needed for Zone1 in AE200DNX***, refer to wire works case 3.
- The maximum number of pumps that can be powered by the terminal block of the hydro unit is two. Therefore, if necessary, be sure to connect pumps other than the two to a separate power source.
- Ex) AE200DNX*** already has 2 pumps (Inverter and fixed pump). In this case, all additional pumps should be connected to a separate power source. For AE200DNW*** including only one main pump, one additional pumps can be drived by the terminal block of the hydro unit without using a separate power source.

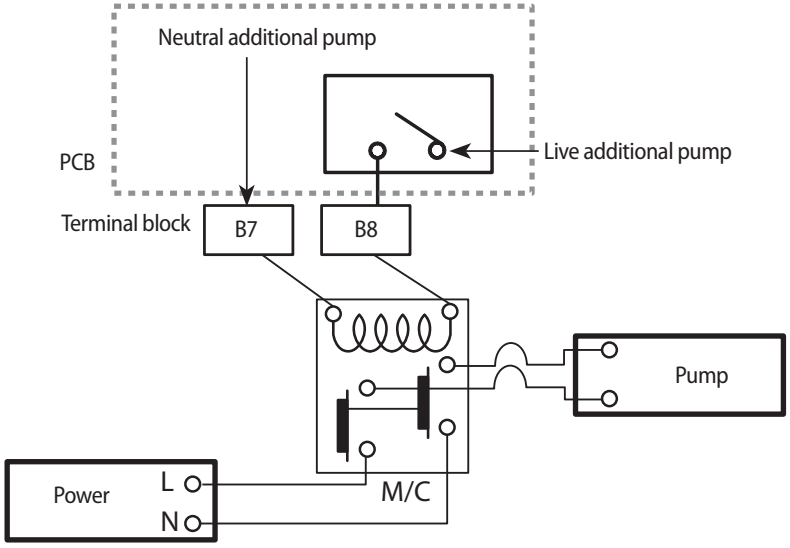
Case 1) AC pump

The terminal set (B8+B7) can supply ampere up to Max 1.0A.

1. Power supply (Pump)



2. If the maximum output of the pump exceeds 1A, please connect it to a separate power source.



⚠ CAUTION

- The maximum allowable current that this terminal block can supply for the additional water pump is 1.0A.

5. Installation

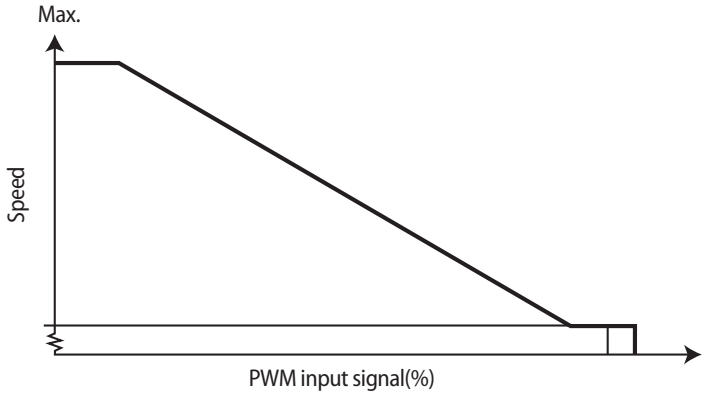
Indoor Unit

ClimateHub

Case 2) Inverter pump

Power supply connection is the same as the case1) AC pump

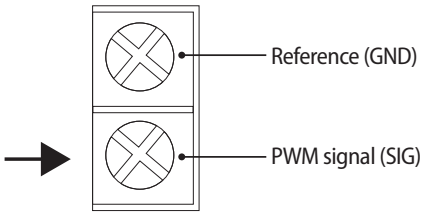
PWM characteristic curve



The additional pump should be the same type of product as the above graph.

Recommendation

Connect the PWM control line to the main control PBA output(CNS002) signal function for PWM control. (Note: Wiring diagram)



GRUNDFOS UPMM 25-95 (Heating Type), SHINHOO GPA25-9H (Heating Type)

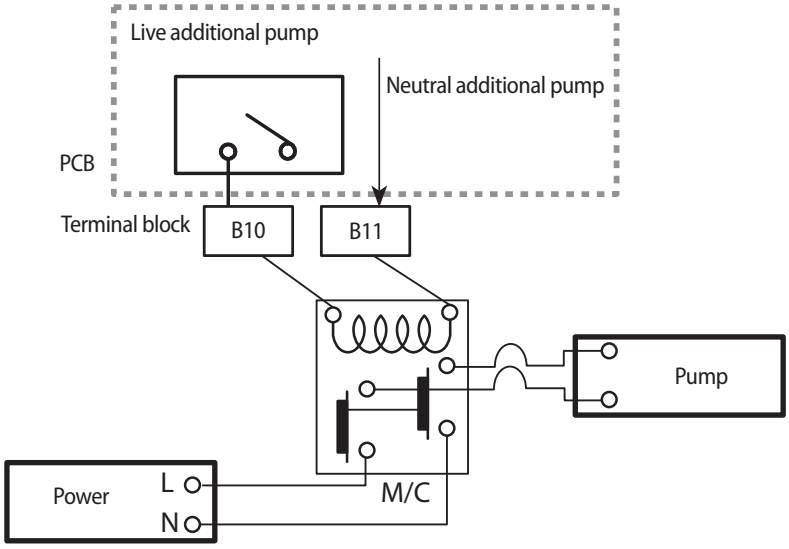
⚠ **CAUTION**

- If there is wrong wiring between PWM and reference, INV. Water Pump may not work or wrong operation.

Case 3) Additional pump for Zone 1 in AE200DNX***

Only AC pump can be used as an additional pump for Zone 1 in AE200DNX***.

The pump should be installed in piping line of Zone1 and connected to a separate power source as figure shown below.

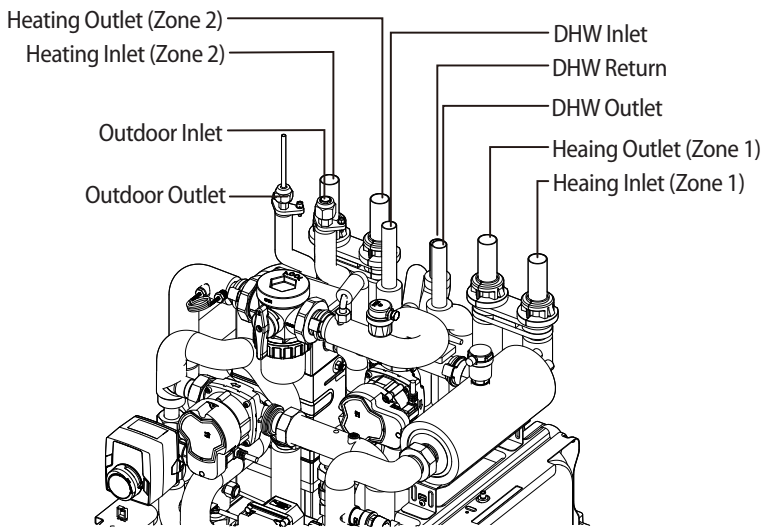


5. Installation

Indoor Unit

ClimateHub

Charging water



After installation is completed the following procedures shall be used to charge water into the hydro unit.

- ▶ Connect water lines to water connections of hydro unit.
- ▶ The air-vent valve shall be opened at least 2 turns and drain valves shall be closed.
- ▶ Open the service valve in the water supply connection.
- ▶ Water pressure of supply line shall be over 2.0 bar for good charging work.
- ▶ Stop water supply when the pressure gauge of hydro unit indicates 2.0 bar.

⚠ CAUTION

- Service space should be secured.
- Water pipe and connections must be cleaned using water.
- If internal water pump capacity is not enough, install external water pump.
- Do not connect electric wire while water charging.
- When initial installation or re-installation required, open the cap to prevent air trap in the unit while charging water.
- The back-up heater vessel shall be full of water before heater is turned on. Confirm if the vessel is empty by opening the pressure relief valve of hydro unit. (OK if water is flowing out)
- It is recommended to install the make-up water assembly to feed small quantities of water to the system automatically, replacing the minor water losses and maintaining the system pressure. This assembly usually consists of a pressure-reducing valve, water filter, check-valve and shut-off valves. In this case, Check-valve must be installed to prevent from contaminating city water.

Air vent valve

Air-vent valve is provided in the Hydro unit.

However, provide air vents at all the highest points of the system, so that automatic release of air in the water circuit is possible.

Pressure relief valve

A pressure relief valve is integrated on heater vessel of hydro unit and shall work in abnormal condition for protecting the hydro unit.

⚠ CAUTION

- The pressure relief valve will operate releasing the pressure by flowing out some water through the drain hose.
- Make certain that the discharged water out of drain pan can not contact any electrical parts.

5. Installation

Indoor Unit

ClimateHub

Overpressure bypass valve

Overpressure bypass valve should be installed if the minimum flow rate is not guaranteed in all conditions including defrost or backup heater operations.

Piping insulation

The complete water circuit, including all piping must be insulated to prevent condensation forming on the surface of the pipe and heat loss to external environment.

Anode Rod

An anode rod is installed to protect the Water tank from corrosion.

The lifespan of an anode bar can vary depending on the water quality on the site. To ensure optimal protection from corrosion, it is advisable to check the protective anode annually and if necessary, replace it.

NOTE

- It is recommended to replace if the average diameter of the anode bar is approximately less than 30% (Material remaining around 10 mm in diameter)

Flushing and air-purging

When filling water, the following start-up procedure should be followed.

1. All system components and pipes must be tested for the presence of leaks.
2. Make-up water assembly or Flushing unit is recommended for installation and service.
3. Before connecting pipes to the hydro unit, Flush water pipes clean to remove contaminants during 1 hours using a flushing unit or tap water pressure if it is adequate (at 2 to 3 bar)
4. Fill water into the hydro unit by opening service valves.
5. Purge the air. (Fill with a flushing unit with sufficient capacity: avoid aerating the water)
6. Circulate for long enough to ensure that all air has been bled from the complete water piping system.

After installations, Commissioning should be performed by qualified representatives.
Unless flushing and air-purging works are performed adequately, It might result in malfunctions.

Flushing unit (or purging cart)

5. Installation

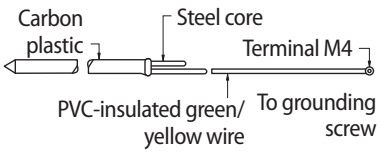
Indoor Unit

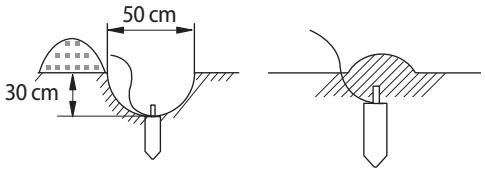
ClimateHub

Checking correct grounding

If the power distribution circuit does not have a grounding or the grounding does not comply with specifications, an grounding electrode must be installed. The corresponding accessories are not supplied with the Air to Water Heat pump.

1. Select an grounding electrode that complies with the specifications given in the illustration.





2. Connect the flexible hose to the flexible hose port.

- ▶ In damp hard soil rather than loose sandy or gravel soil that has a higher grounding resistance.
- ▶ Away from underground structures or facilities, such as gas pipes, water pipes, telephone lines and underground cables.
- ▶ At least two metres away from a lightening conductor grounding electrode and its cable.

NOTE

- The grounding wire for the telephone line cannot be used to ground the Air to Water Heat pump.

3. Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
4. Install a green/yellow coloured grounding wire:

- ▶ If the grounding wire is too short, connect an extension lead, in a mechanical way and wrapping it with insulating tape (do not bury the connection).
- ▶ Secure the grounding wire in position with staples.

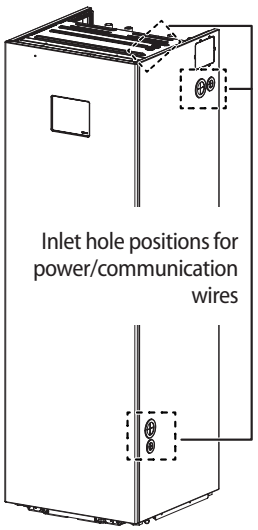
NOTE

- If the grounding electrode is installed in an area of heavy traffic, its wire must be connected securely.

5. Carefully check the installation, by measuring the grounding resistance with a ground resistance tester. If the resistance is above required level, drive the electrode deeper into the ground or increase the number of grounding electrodes.
6. Connect the grounding wire to the electrical component box inside of the outdoor unit.

Connection of the power supply and communication cable

Model	Description		No. of Wires	Max. A	Thickness	Supply Scope
AE200DN****	Main power (1Phase)		2 + ground	5 A	1.5mm² ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
	Heater power	3 Phase heater (6 kW)	4 + ground	9.5 A	2.5mm² ↑ H05RN-F or H07RN-F	Field Supply (380-415Vac, Input)
		1 Phase Heater (4 kW)	2+ ground	19 A	4.0mm2 ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
		1 Phase Heater (2 kW)	2+ ground	9.5 A	2.5mm2 ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
	Communication		2	0.1 A	0.75mm² ↑ H05RN-F or H07RN-F	Field Supply (~Vdc, Data)

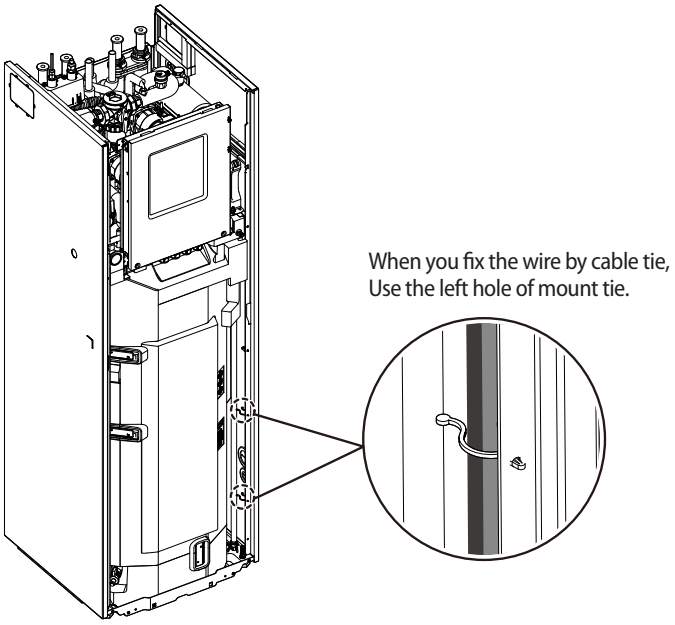


5. Installation

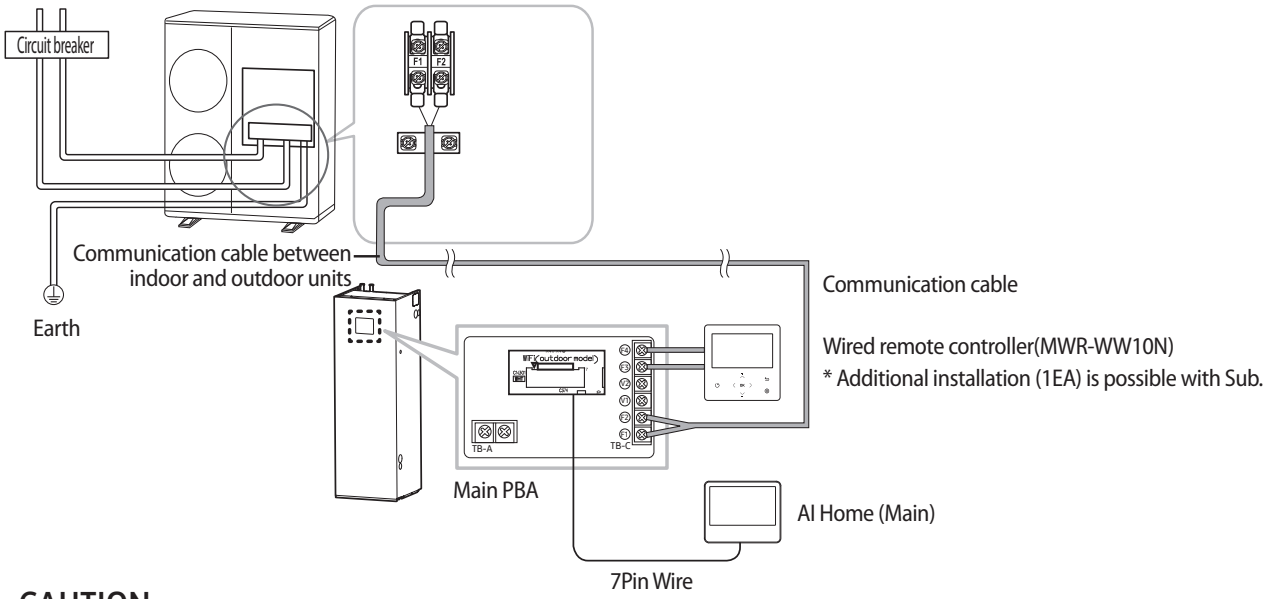
Indoor Unit

ClimateHub

* When you use inlet hole through the cabinet top positions for power/communication wires, please fix the wire by using holder of the cabinet right.



Communication cable connection



⚠ CAUTION

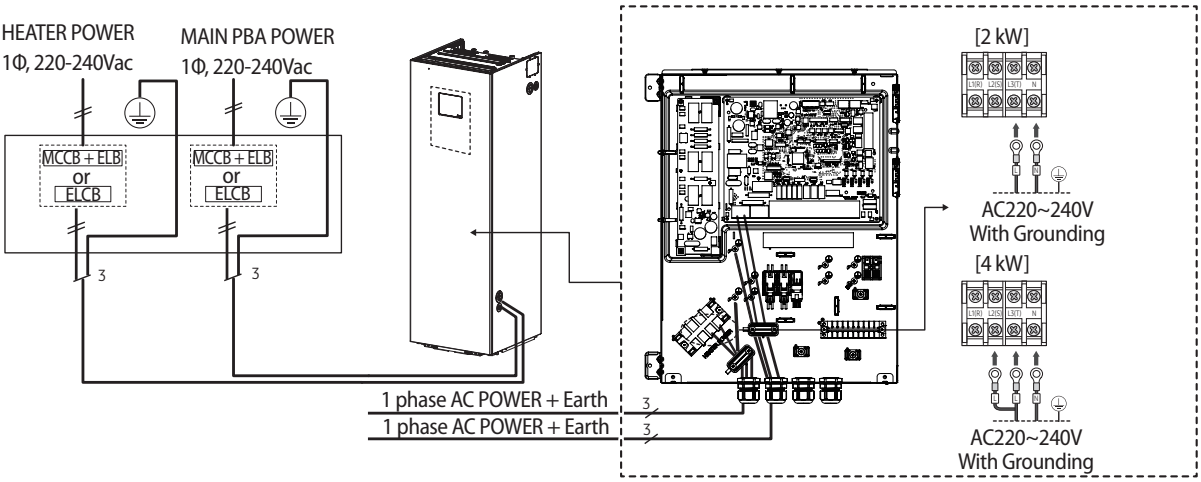
- Main POWER and Heater POWER must be configured through each RCBO(Residual Current Breaker with Overcurrent protection) or MCB + RCCB.
- Backup heater should use the right power according to the power of the outdoor unit.

5. Installation

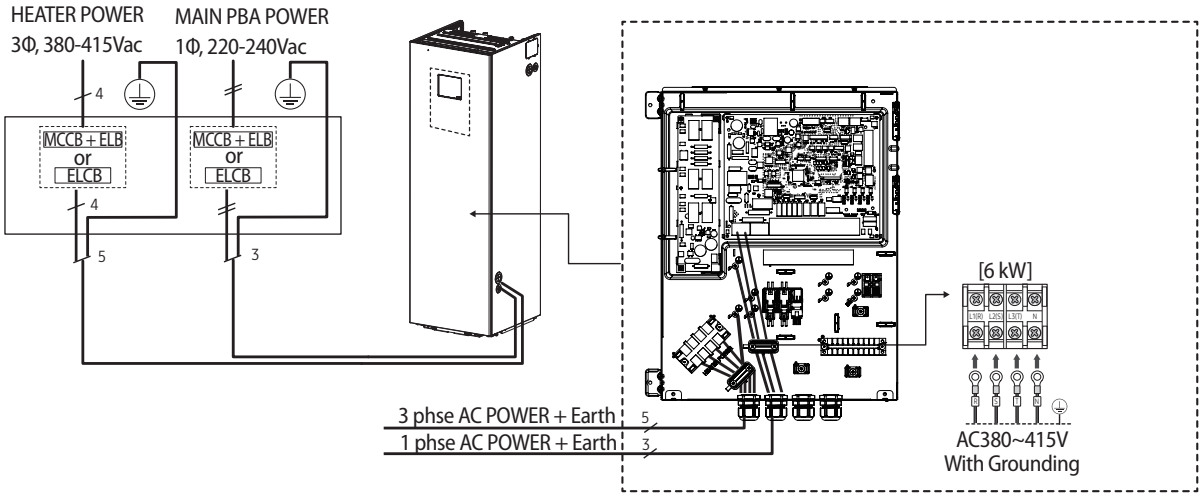
Indoor Unit

ClimateHub

1. 1 phase product



2. 3 phase product



⚠ CAUTION

- **Circuit Breaker (RCBO or MCB + RCCB) for outdoor and indoor units shall be installed by installers because they are not sub-parts in the units**
- If the supply cable is damaged, it must be replaced by a special cable or assembly available from the manufacturer or installer.
- The improper connection of the main and heater may result in damage to the chassis, PCB, and heater.
- When connecting the 3 phases for a 6 kW heater, be sure that the R, S, T, N terminals of the heater are properly connected before turning on the unit.
- Please check that the voltage between R-N, S-N, and T-N on the heater power terminal block is within the range of 220 ~ 240Vac.

❋ RCBO : Residual current circuit breaker with overcurrent protection

❋ MCB : Miniature Cirtcuit Breaker

❋ RCCB : Residual current circuit Breaker

5. Installation

Indoor Unit

ClimateHub

Connection of the backup heater power supply

⚠ CAUTION

- Do not use a power supply shared by other appliances. Each components for Outdoor unit, Indoor Main Power, Indoor Heater Power has the dedicated power supply.

Model	Power (Φ, #, V, Hz)	Backup Heater Capacity (KW)	Max Current	1Phase RCBO (A)	3Phase ELCB (A)
AE200DN****	1, 2, 220-240, 50	2	Max 9.5 A	15 A or below	N/A
		4	Max 19 A	25 A or below	N/A
	3, 4, 380-415, 50	6	Max 9.5 A	N/A	15 A or below

The FSV #3081 setting value must be changed according to the heater capacity
- 2kW: 2(default)
- 4, 6kW: Need to change to 4 or 6 depending on the heater capacity

NOTE

- The power consumption of backup heater is calculated according to the heater signal, so an error may occur with the actual usage.

5. Installation

Indoor Unit

ClimateHub

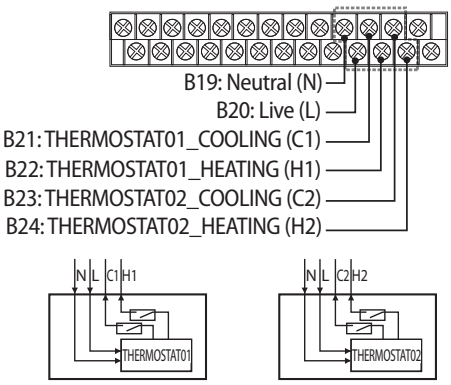
Connection of the thermostat

To use thermostat control, configure FSV #2091/#2092 to "Use."
Please refer to the controller manual for this setting.
Cooling/Heating operation and water temperature are determined by the Thermostat input signal and Water Law setting.
Please refer to the controller manual for this setting.

NOTE

- For thermostat control, FSV Setting #4061 must be set to "0".

Description	No. of wires	Max. current	Thickness	Supply Scope
Room Thermostat	4	#19, #20 : 50 mA (Output, Thermostat Power) #21, #22, #23, #24 : 22 mA each Pin (Input)	> 0.75 mm², H05RN-F or H07RH-F	Field supply(220~240Vac, Output)



1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Make sure what type is you use.
   - If the operating mode (heating/cooling) of thermostat 1 and thermostat 2 are different, the operating mode is determined based on thermostat 2.

CAUTION

- Product will not operate when signal for cooling and heating mode is inputted at the same time.

When setting up two thermostats;

- ▶ For heating operation, please install Thermostat 01 to a room that requires lower water temperature (ex,underfloor heating) and Thermostat 02 to a room that requires higher water temperature (ex,radiators).
- ▶ For cooling operation, please install Thermostat 02 to a room that requires lower water temperature (ex,radiators) and Thermostat 01 to a room that requires higher water temperature (ex,underfloor heating).
- ▶ In order to properly control the two thermostats with different temperature settings, it is necessary to connect the mixing valve and the mixing temperature sensor(TW4)[Optional parts].
- ▶ When controlling the thermostat in a multi-room(Two thermostat control), please refer to the "Connection of the 2-way valve" wiring works for valve control.
- ▶ Please find additional installation information refer "Connection of the 2-way valve" [Page 49] and "Connection of the mixing valve" [Page 52]

WARNING

- When using thermostat01 in cooling mode, to prevent floor condensation, if the room water temperature is below 16 °C, the 2-way valve of thermostat 01 is automatically closed.

NOTE

- The supply line for Zone 1 of the hydro unit is designed to be used for floor heating/cooling. Therefore, if the Zone 1 is connected to a radiator, insufficient cooling can be made because the 2-way valve of Zone 1 is closed when the room water temperature is below 16 ℃ as described above.

5. Installation

Indoor Unit

ClimateHub

Connection of the 2-way valve (2 zone control is not used as FSV Setting #4061="0")

2Way Valve is controlled to open or close according to cooling/heating Thermo On/Off control.

When setting up two thermostats, then;

-2way valve 1 is controlled according to the input signal of thermostat 1 and 2way valve 2 according to that of thermostat 2.

- If you use the 2way valve output as the output of the Room Water Pump with buffer tank for Thermostat 1 and 2, please connect it to terminal block "normal close" and set FSV Setting #6041 to "1". [Reference: EHS CONTROL KIT Manual]

Description	No. of wires	Max. current	Thickness	Supply Scope
2 Way Valve	2+ground	50 mA	> 0.75 mm², H05RN-F or H07RH-F	Field supply(220~240Vac, Output)

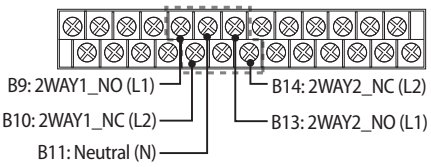
⚠ CAUTION

- When FSV#4041=0 is set without using the mixing valve, if the water outlet temperature is less than 16 degrees, 2way valve 1 is closed to prevent floor condensation.
  - Connect the output of 2way valve 1 for underfloor cooling shutoff.

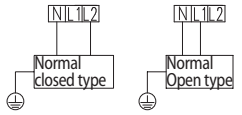
NOTE

- The supply line for Zone 1 of the hydro unit is designed to be used for floor heating/cooling.
  Therefore, if the Zone 1 is connected to a radiator, insufficient cooling can be made because the 2-way valve of Zone 1 is closed when the room water temperature is below 16 ℃ as described above.

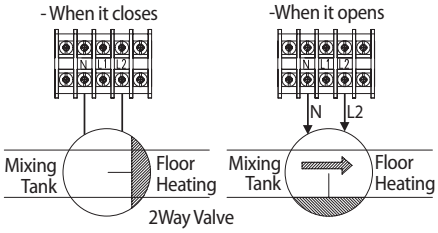
▶ Connect the output of 2way valve 1 for underfloor cooling shutoff.



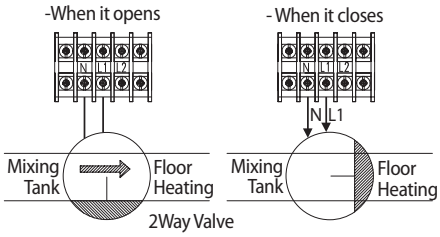
* Connection of 2 wires 2-way valve



In case of normal closed type



In case of normal open type



2-way motorized valve

▶ 220 ~ 240 Vac

▶ 2 wires(Normal Open or Normal Close)

1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Make sure what type is you use.
   - Normal OPEN or Normal CLOSED.

⚠ CAUTION

- There are 2 types of 2-way valve, normal open type and normal closed type. Make sure to connect terminals to right positions of terminal block. As detailed on the wiring diagram and illustrations above.

5. Installation

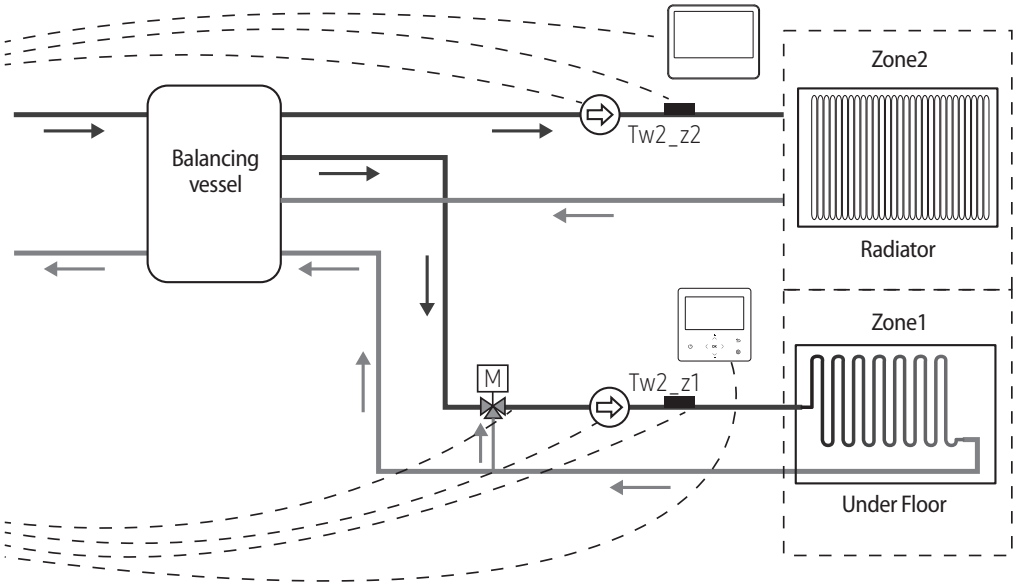
Indoor Unit

ClimateHub

Connection of the water pump for 2 Zone control (FSV 4061=1)

When setting up 2 Zone control;

- ▶ For heating operations, please conncect the Zone1 supply line to a room that requires a lower water temperature (ex,underfloor heating) and the Zone2 supply line to a room that requires a higher water temperature (ex,radiators).
- ▶ For cooling operations, please conncect the Zone2 supply line to a room that requires a lower water temperature (ex,radiators) and the Zone1 supply line to a room that requires a higher water temperature (ex,underfloor cooling).
- ▶ In order to properly control the 2 Zone with different temperature settings, it is necessary to connect the mixing valve and the Zone1 and Zone2 temperature sensors[Optional parts].
- ▶ Please find additional installation information refer "Connection of the mixing valve" [Page 52]
- ▶ Zone1 water pump connection: B10(L1) + B11(N)
- ▶ Zone2 water pump connection: B14(L1) + B15(N)



⚠ CAUTION

- When using Zone1 in cooling mode, to prevent floor condensation, if the zone1 water temperature is below 16 ℃, the pump of zone 1 is automatically turned off.

NOTE

- The supply line for Zone 1 of the hydro unit is designed to be used for floor heating/cooling.
  Therefore, if the Zone 1 is connected to a radiator, insufficient cooling can be made because the 2-way valve of Zone 1 is closed when the room water temperature is below 16 ℃ as described above.

5. Installation

Indoor Unit

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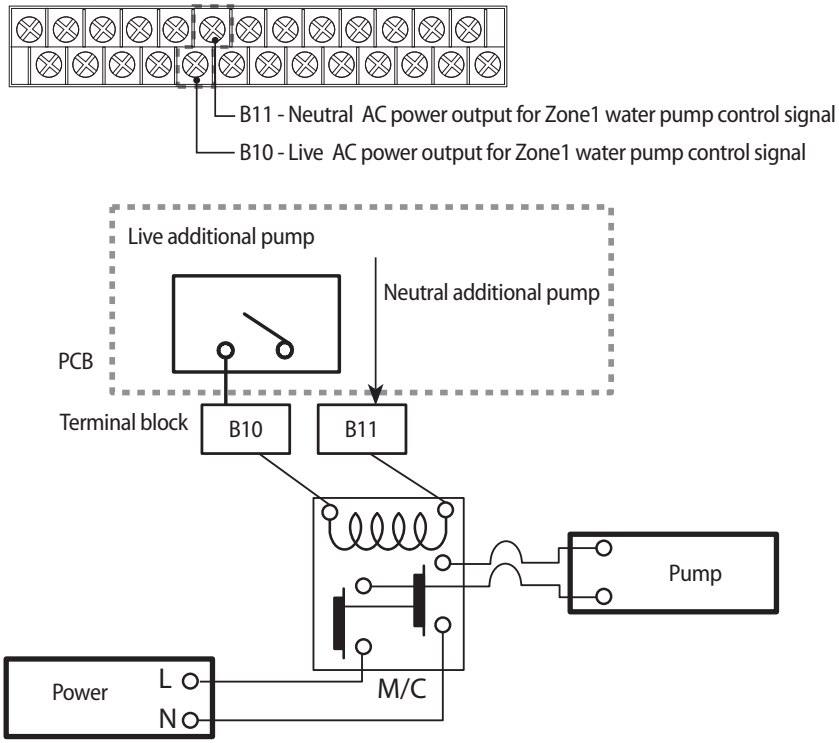
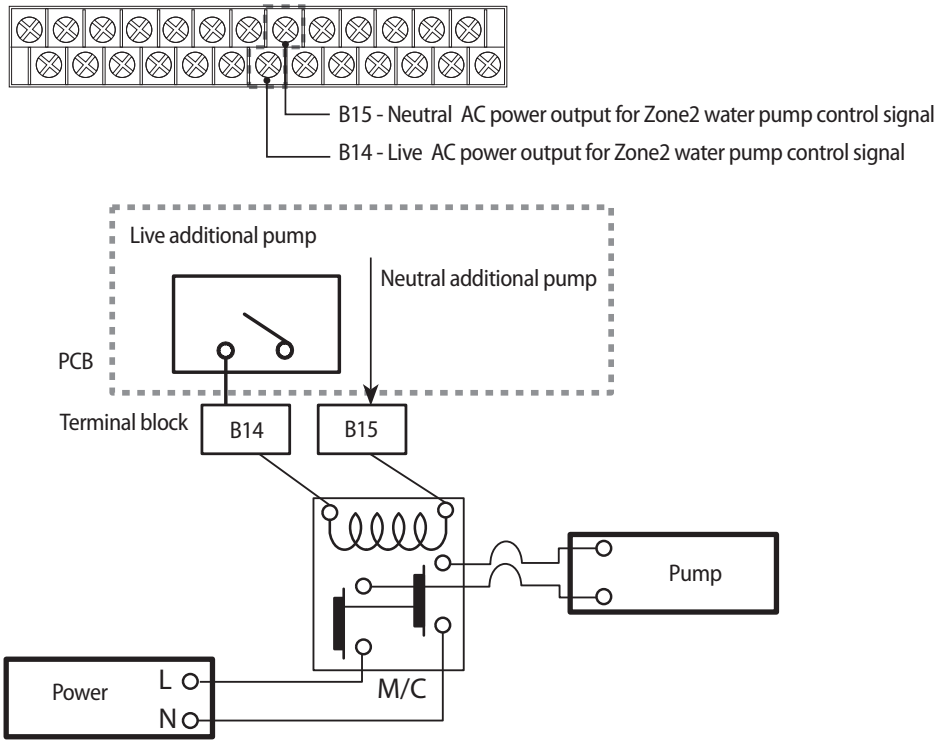


⚠ CAUTION

- The maximum allowable current that this terminal block can supply for the additional water pump is 50mA.
- When using external power of 50 mA or more, make sure to connect using relay and separate power source.



⚠ CAUTION

- The maximum allowable current that this terminal block can supply for the additional water pump is 50mA.
- When using external power of 50 mA or more, make sure to connect using relay and separate power source.

5. Installation

Indoor Unit

ClimateHub

Connection of the mixing valve

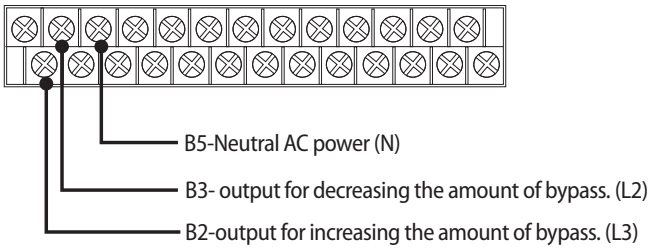
NOTE

- In order to install mixing valve for standard model(AE200DNWMPK), please purchase 2 Zone Thermistor Kit (MOS-T1).

In order to properly control the 2 Zone or two thermostat with different temperature settings,
it is necessary to connect the mixing valve.
The mixing valve controls the amount of bypass water that is mixed with the supply water to provide water at a pre-set temperature.

Description	No. of wires	Max. current	Thickness	Supply Scope
Mixing valve	3	50 mA	> 0.75 mm^2, H05RN-F or H07RH-F	Field supply(220~240Vac, Output)

1. Before the installation, control kit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.



B2- output for increasing the amount of bypass: The amount of return water that is mixed with supply water through mixing valve is increased.

B3- output for decreasing the amount of bypass: The amount of return water that is mixed with supply water through mixing valve is decreased.

NOTE

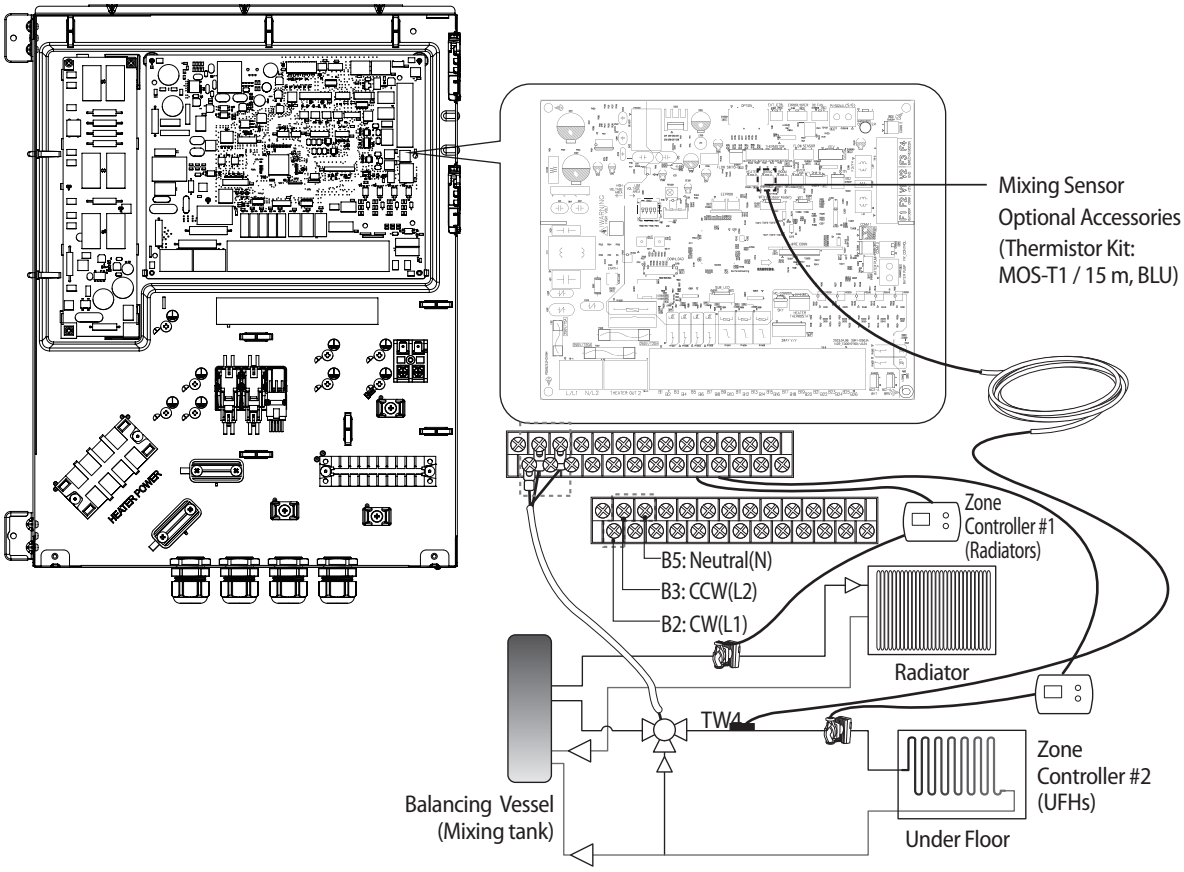
- AE200DNX*** (2zone built-in type) is designed to supply water at 2 different temperatures.
  Therefore, it is not necessary to connect or configure the Mixing Valve.

5. Installation

Indoor Unit

ClimateHub

2 Zone with Two thermostat control



1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Install the supplied Mixing temperature sensor (TW4) on the mixed water side within 1 m from the Mixing Valve, as shown in the figure above.
4. Set the FSV value #4041~ #4046. Please refer to the controller manual for this setting.

⚠ CAUTION

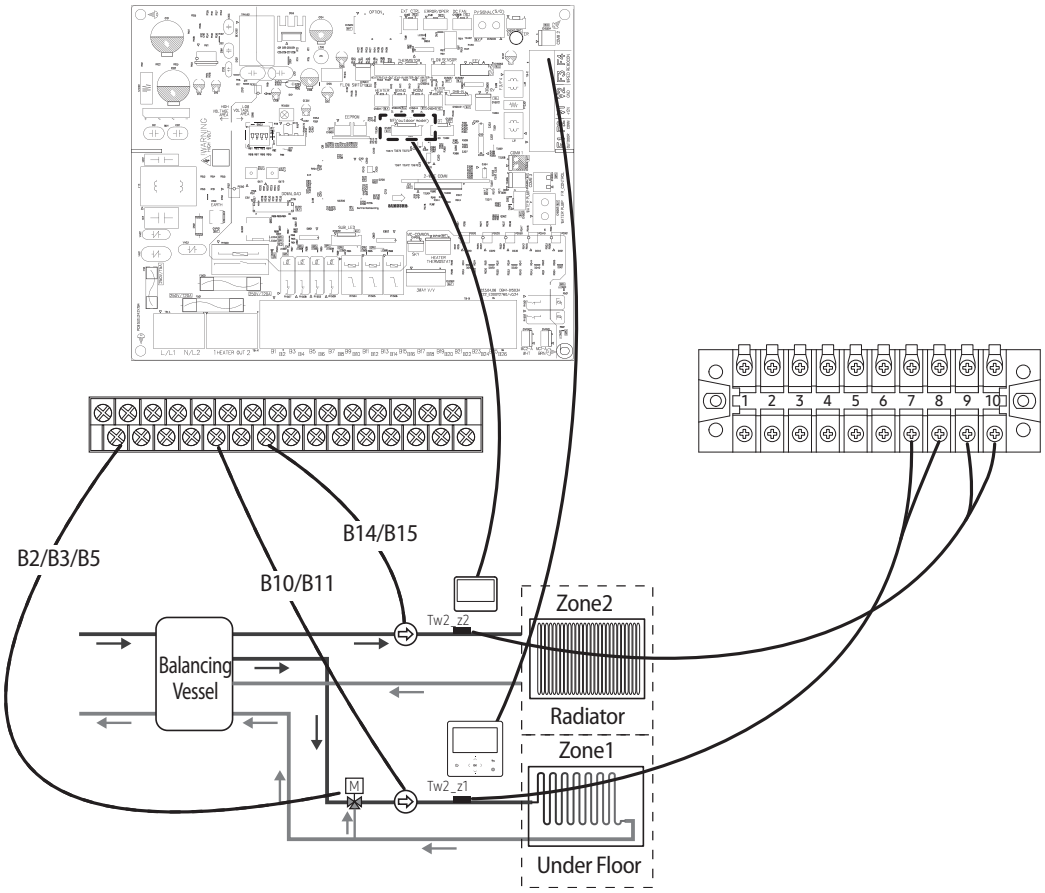
- When using Zone control (FSV 4061 = 1), ignore Thermostat signal.

5. Installation

Indoor Unit

ClimateHub

2 Zone Control [FSV #4061 =1]



You can operate the 2 Zone control using a mixing value, water-out temperature sensors, and built-in or external room temperature sensors installed in a wired remote controller.
When both zones are simultaneously Thermo on, the operation is performed based on Zone2. Therefore, set the zone that you want to have the higher set temperature to Zone2.
(The mixing valve must be installed in the zone that you want to have the lower set temperature.)

1. Install the mixing valve. (See "Installation of mixing valve.")
2. Install the water-out temperature sensors (Tw2_z1, Tw2_z2) for all zones.
3. Unlike the zone control with a thermostat, connect the water pump signal lines to the product.

▶ Zone1 water pump connection: B10 (L1) + B11 (N)
▶ Zone2 water pump connection: B14 (L1) + B15 (N)

4. FSV 4061 = 1: Enable the 2 Zone control using the wired remote controller.

* If you want to operate the 2 Zone control by using water-out temperatures, you have only to complete steps 1 to 4 above.
* If you want to operate the 2 Zone control by using room temperatures and built-in temperature sensors in wired remote controllers, you must install two wired remote controllers in each room.
(If you use external room temperature sensors, you can control each room temperature with only one wired remote controller.)

Select a mixing valve from the manufacturers as below (recommended)

Maker		BELIMO	SIEMENS	HONEYWELL
Model code	3 Way Valve	R3020-6P3-S2	VXP45.20-4 (kvs 4)	V5011E1213
	Actuator	LR230A(-S)	SSB31	ML6420A3015
Running time		90 sec.	150 sec.	60 sec.
FSV(#4046) setting		9	15	6

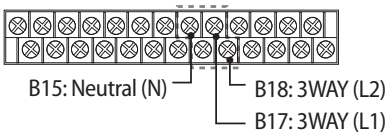
5. Installation

Indoor Unit

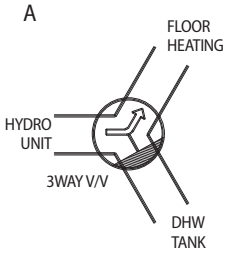
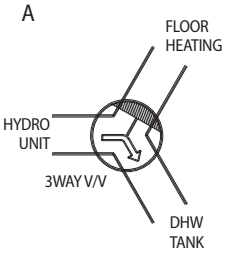
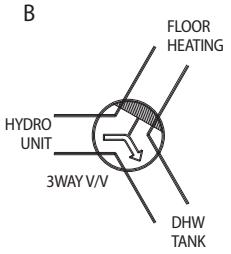
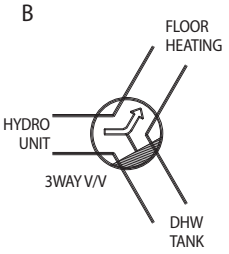
ClimateHub

Connection of the 3-way valve

Description	No. of wires	Max. current	Thickness	Supply Scope
Diverting type 3way valve	4	50 mA	> 0.75 mm², H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



Status	L1	L2
A (Initial)	OFF	ON
B	ON	OFF

Field Setting Valve (#3071) "0" Floor heating as default	Field Setting Valve (#3071) "1" DHW tank as default
A 	A 
B 	B 

3-way diverting valve for water tank

- ▶ When cooling operating mode, floor heating loops will be closed.
- ▶ 220 ~ 240 Vac

1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Make sure what type of 3 way V/V you use.

5. Installation

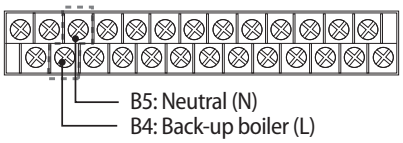
Indoor Unit

ClimateHub

Connection of the back-up boiler

- ▶ This function is to determine which heating source can/will provide the space heating, either the heat pump system or the back-up boiler.
- ▶ To control the back-up boiler , configure FSV #4031~ #4033. Please refer to the controller manual for this setting.

Description	No. of wires	Max. current	Thickness	Supply Scope
Back-up Boiler	2	50 mA	0.75mm² H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



When it set back up boiler on the hydro unit (relay off)

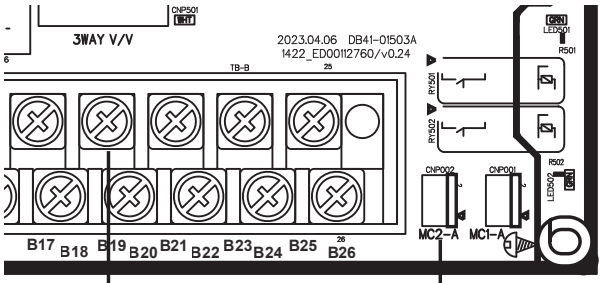
When it order to back up boiler operates (relay on)

1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.

❋ Heat pump does not work when the Back-up boiler operates.

Connection of the external back-up heater

Description	No. of wires	Max. current	Thickness	Supply Scope
Back-up Heater	2	0.3 A	0.75mm² H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



B19: N

MC2-A: RELAY_OUT(L)

- ▶ If you need an additional heater, it can be installed as an option.

NOTE

- AE200DNX*** (2 Zone built-in type) is strictly prohibited from installing external back-up heaters.
- An additional back-up heater for AE200DNW*** should be installed on the Zone piping line.

⚠ WARNING

- The N phase of the HEATER signal can be connected to B5,B7,B11,B15 instead of B19.
  (Maximum 2 wires can be connected 1 Screw)
- For the external Back-up heater connection, Only Samsung Heater kit(MHC-300FP) is compatible.

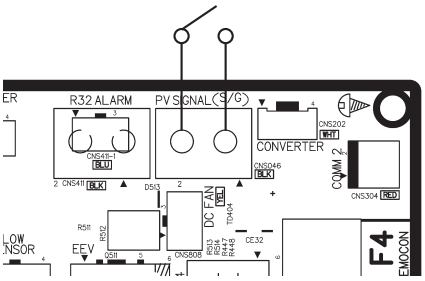
5. Installation

Indoor Unit

ClimateHub

Connection of the Peak Power Control or PV control(Photovoltaics control)

Description	No. of wires	Max. current	Thickness	Supply Scope
Peak Power Control or PV control (Photovoltaics control)	2	-	-	Field supply



✻ Function 1 (Peak Power Control)

▶ This is a function that allows you to disable the backup heater, and compressor operation of the outdoor unit depending on the power input contact.

▶ If users make contracts with local electric power company for limiting the amount of power consumption when a surge in power usage, users can set FSV of "Forced off".

▶ To control the Power Peak , configure FSV #5041~ #5043. Please refer to the controller manual for this setting.

✻ Function 2 (PV[Photovoltaics] control)

▶ This is for energy saving by using the solar energy.

▶ To control PV, configure FSV #5081~ #5083. Please refer to the controller manual for this setting.

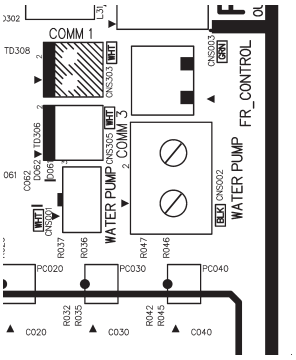
▶ Cooling/heating operation: Enables the FSV value that is set only when the PV signal is in out mode.
Hot water operation: Activate immediately with the set FSV value.

NOTE

- It operates according to the setting of FSV, and both functions can not be used at the same time. (PV Control / Peak power control)
- Except for domestic hot water mode, this function is activated only for the outing mode.

Connection of the FR Control(Frequency ratio control)

Description	No. of wires	Max. current	Thickness	Supply Scope
FR Control	2	-	-	Field supply



▶ The FR control function application is to limit the maximum frequency of the outdoor unit compressor. (if FSV #5051 = 1 "use")

▶ Method 1: External DC signal Control uses a DC voltage of 0 ~ 10V (0v = 50%, ~ 10v = 150%)

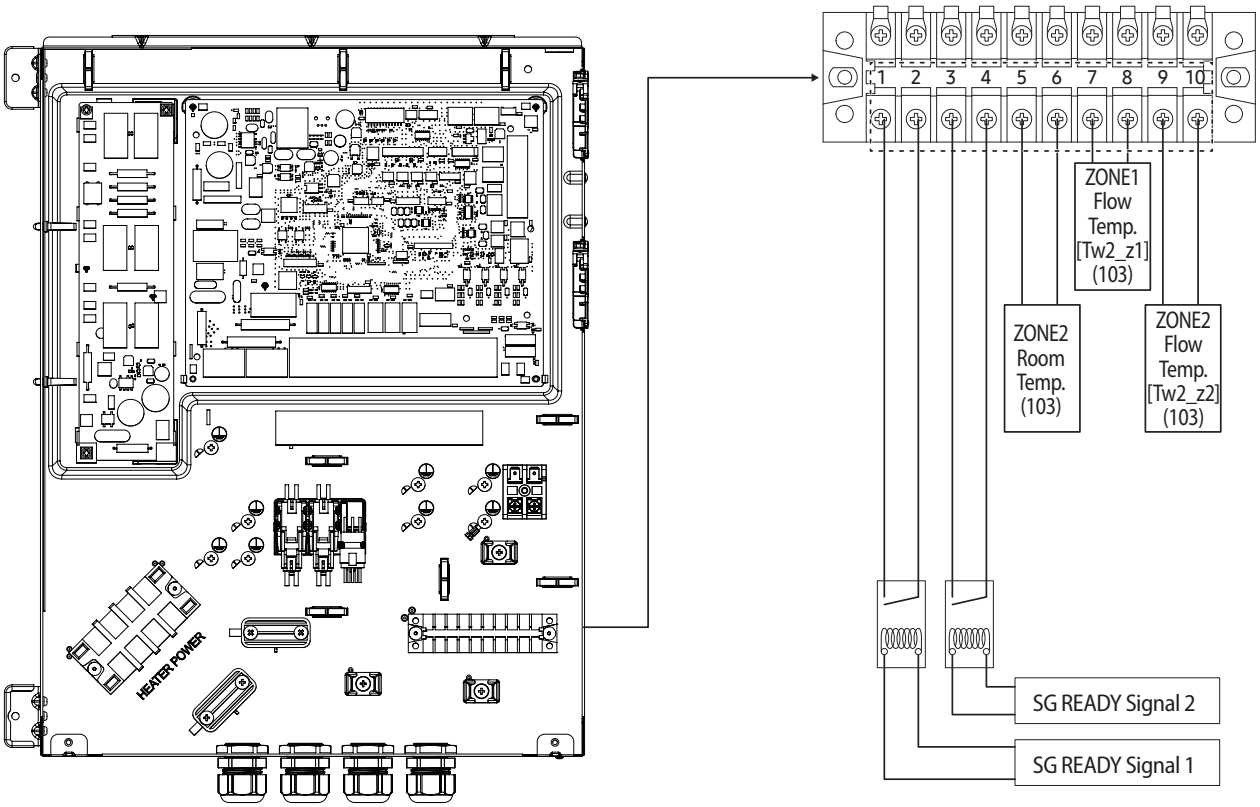
▶ Method 2: Demand ratio (DR) control through Modbus communication

5. Installation

Indoor Unit

ClimateHub

Connecting for smart grid ready control



SG READY Signal 1	SG READY Signal 2	Product operation
Short	Open	Forced thermo off operation
Open	Open	Normal operation
Open	Short	Heating / DHW setting temperature 1step-up operation
Short	Short	Heating / DHW setting temperature 2step-up operation

⚠ CAUTION

- These parts are optional and not included with the product.
- Maker sure to connect to non-power on/off contacts.

5. Installation

Indoor Unit

Hydro Unit

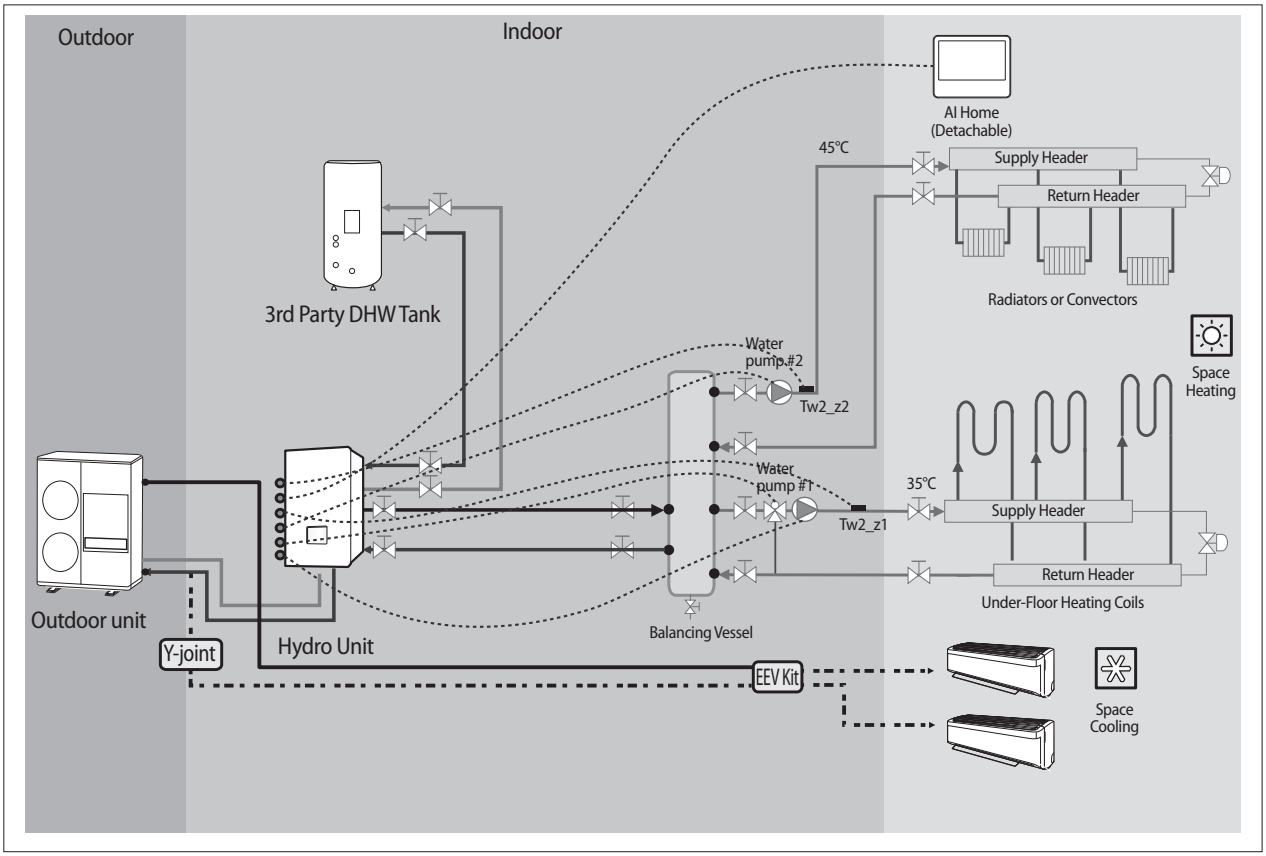
⚠ **WARNING**

- The application examples given below are for illustration purposes only.
- When the Samsung Air-to-Water Heat Pump system is used in series with another heat source (e.g. gas boiler), ensure that the return water temperature not exceed the maximum water temperature of the outdoor unit (Max water temperature is determined according to the type of outdoor unit model).
- The unit is only to be used in a closed water system. Application in an open water circuit can lead to excessive corrosion of the water piping.
- Samsung can not be responsible for incorrect or unsafe situations in the water system. Make sure that the boiler, radiators, convectors, solar collectors, UFHs, FCUs, additional pumps, pipings, and controls in the water system are in accordance with relevant local laws and regulations under the installer's responsibility.
- Samsung shall not be held liable for any damage resulting from not observing this rule.
- Samsung do not provide specific water system components such as Pressure relief valve, Air vent valve, buffer tank and etc. Installers and end-users shall consider how to install the above designated components in overall water system depending on the installation conditions. If the components are not installed in appropriate location, the water system can not be operated as designed.

✻ The below examples are for illustration purposes only.

Application 1: Space heating + water heating

✻ AE160DNYTPH(Standard)

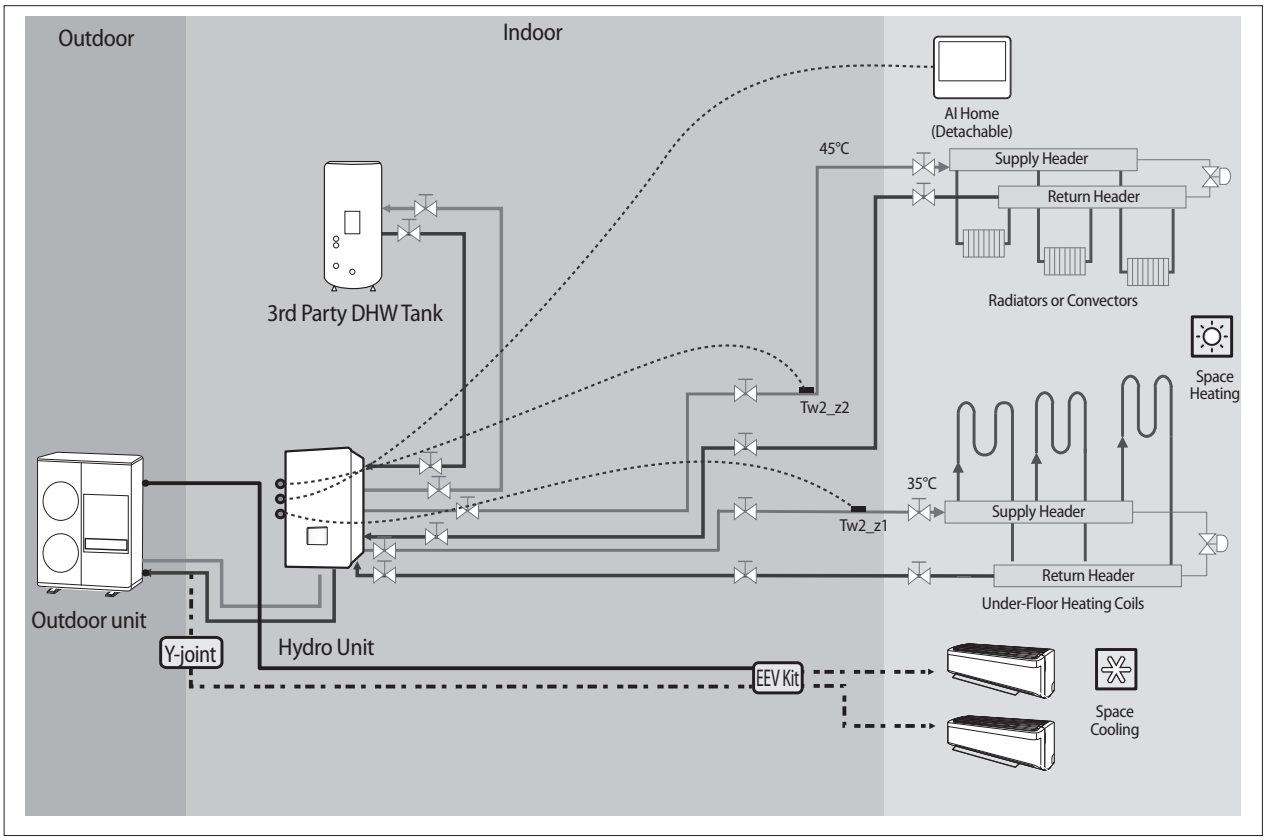


5. Installation

Indoor Unit

Hydro Unit

❋ AE160DNZTPH(2 Zone)



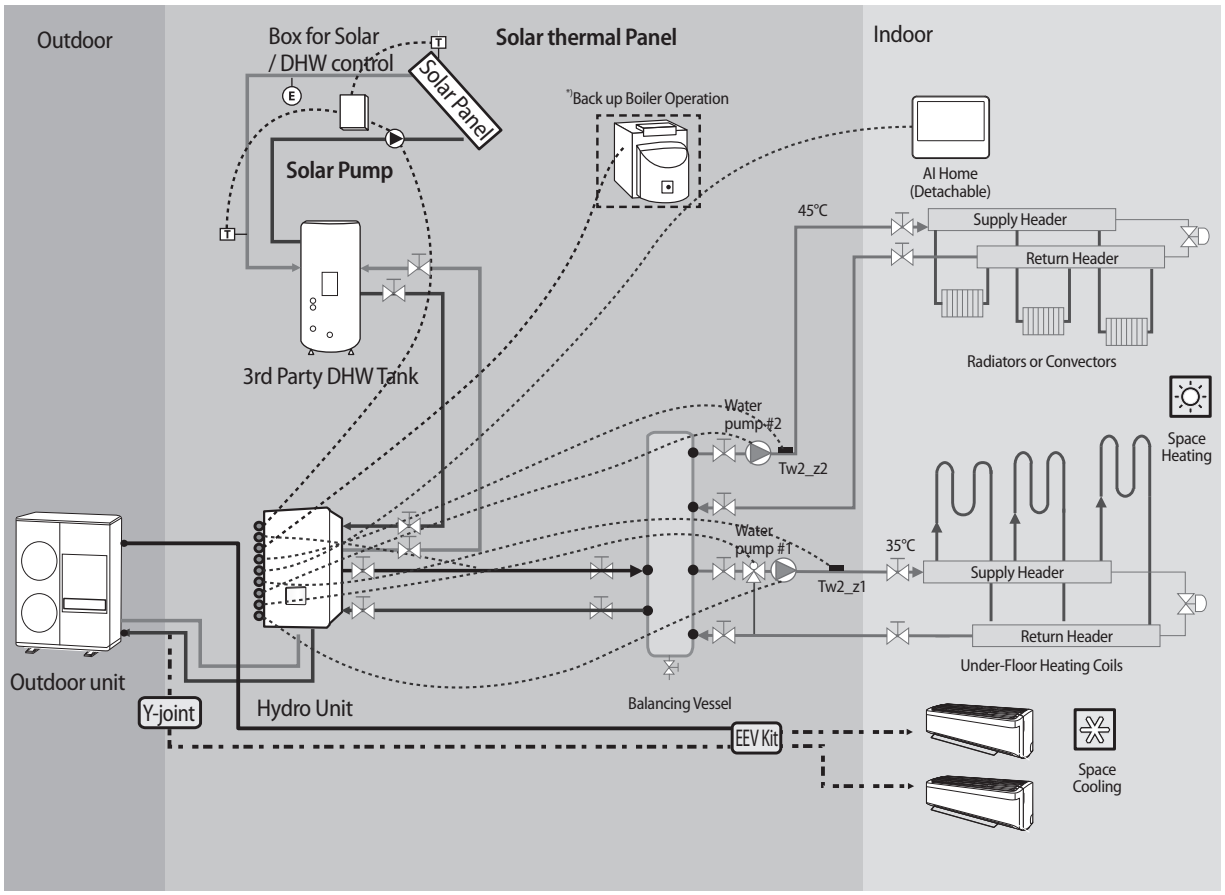
5. Installation

Indoor Unit

Hydro Unit

Application 2: Hybrid application(backup boiler and solar panel connected)

✻ AE160DNYTPH(Standard)



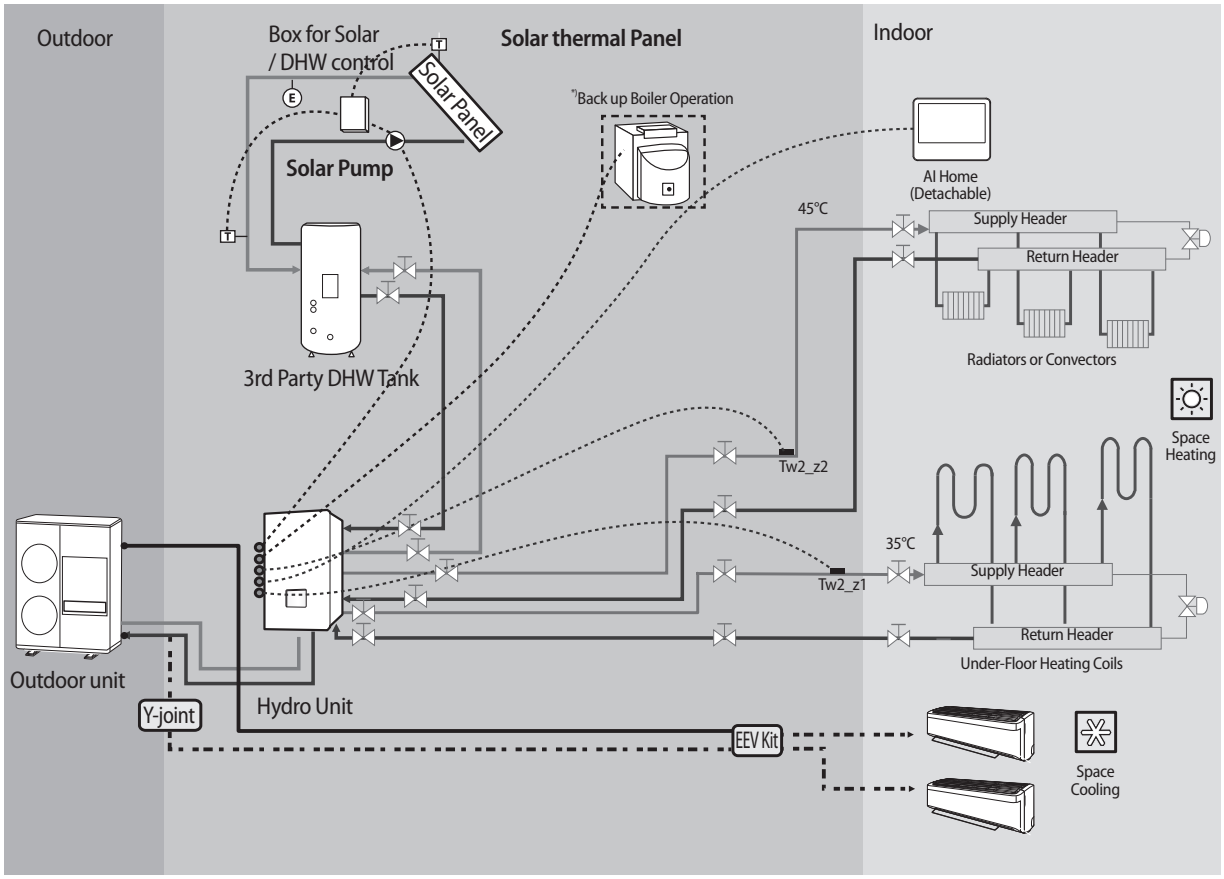
*) We control only the on / off signal of backup boiler according to outdoor temperature.
Backup boiler should be installed with own device according to the field condition.

5. Installation

Indoor Unit

Hydro Unit

✻ AE160DNZTPH(2 Zone)



*) We control only the on / off signal of backup boiler according to outdoor temperature.
Backup boiler should be installed with own device according to the field condition.

⚠ CAUTION

- Samsung has not responsible for performance and stability of backup boiler.
- Water quality must be according to Directive (EU) 2020/2184.

5. Installation

Indoor Unit

Hydro Unit

Water pipe work

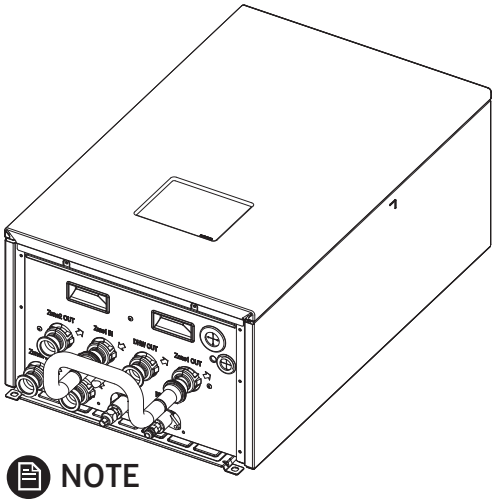
The hydro unit is equipped with components listed on the table below.
All entering, leaving water direction is embossed right next to the pipe. Please connect the pipe with attention to the direction of the arrow
Whole water plumbing system including Hydro unit shall be installed by a qualified technician and must comply with all relevant European and national regulations.

- ▶ Allowable water pressure of hydro unit is maximum 3.0bar.
- ▶ An air-vent valve is integrated on the hydro unit. Please check that air-vent valve is not overtightened so the air-vent valve can release any air out of the system during system operation.
- ▶ AE160DNZ*** (2zone built-in type) is designed to supply water at 2 different temperatures
  - For heating operations, please connect the Zone1 supply line to a room that requires a lower water temperature (ex,underfloor heating) and the Zone2 supply line to a room that requires a higher water temperature (ex,radiators).

NOTE

If you install AE160DNZ*** (2zone built-in type) as a single-zone application, then:

- Install a bypass pipe between the water inlet and outlet for Zone 1 and use Zone 2 for space heating.
- Change FSV Setting #4061=0(Zone control= No), #4041=0 (Mixing V/Vcontrol= No)

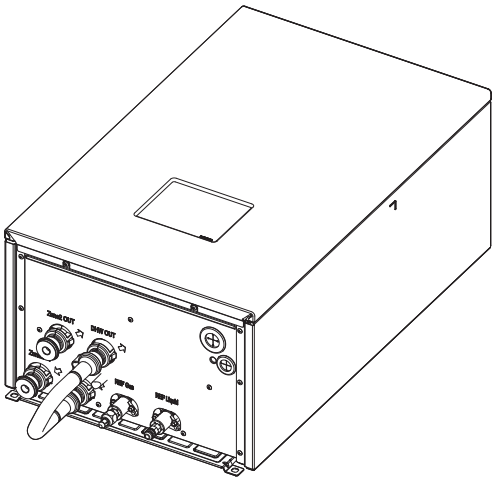


NOTE

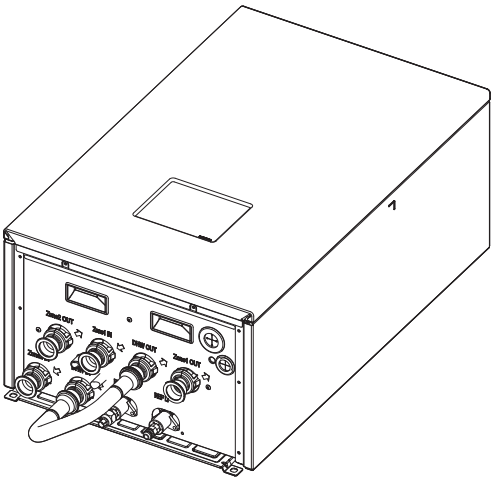
If you install AE160DN**** with no 3rd party tank then:

- Install a bypass pipe between the water inlet and outlet for DHW.
- Please check FSV Setting #3011=0(DHW= No)

✻ AE160DNYTPH



✻ AE160DNZTPH



5. Installation

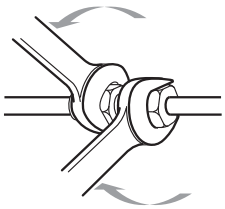
Indoor Unit

Hydro Unit

Refrigerant pipe work

For all guide lines, specifications regarding refrigerant pipe work between the indoor unit and the outdoor unit, please follow the outdoor unit installation manual.

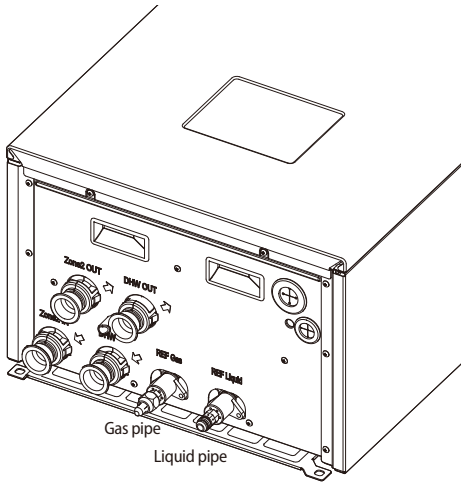
	Gas pipe (O.D.)	Liquid pipe (O.D.)
Indoor unit	15.88 mm (5/8 inch)	9.52 mm (3/8 inch)
Outdoor unit	15.88 mm (5/8 inch)	9.52 mm (3/8 inch)



Outer diameter [mm(inch)]	Torque (N•m)
ø6.35 (1/4")	14~18
ø9.52 (3/8")	34~42
ø12.70 (1/2")	49~61
ø15.88 (5/8")	68~82
ø19.05 (3/4")	100~120

⚠ CAUTION

- When connecting the refrigerant pipes, always use 2 wrenches/spanners for tightening or loosening nuts. If not, piping connections can be damaged.



5. Installation

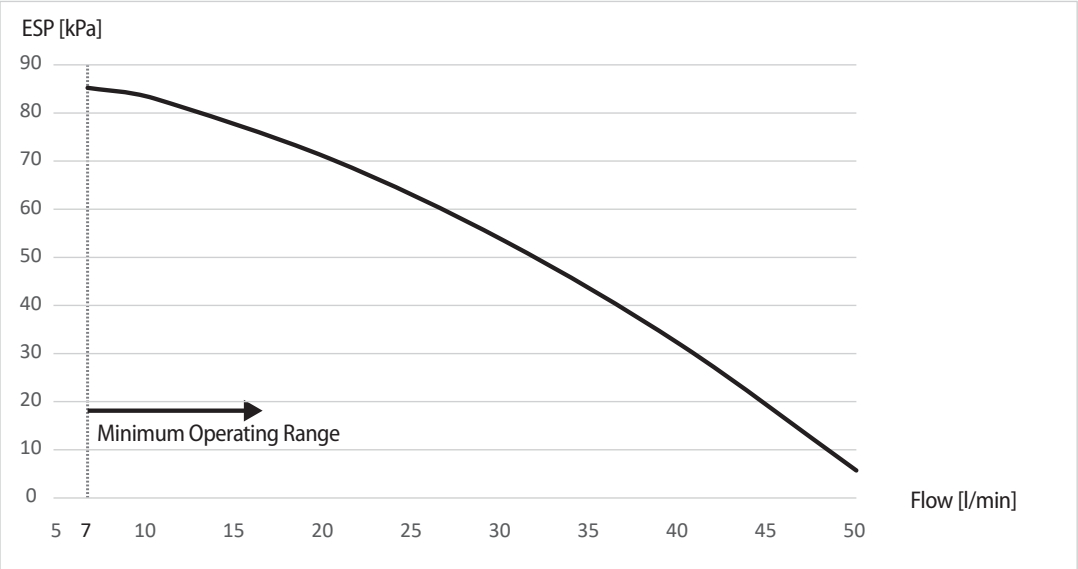
Indoor Unit

Hydro Unit

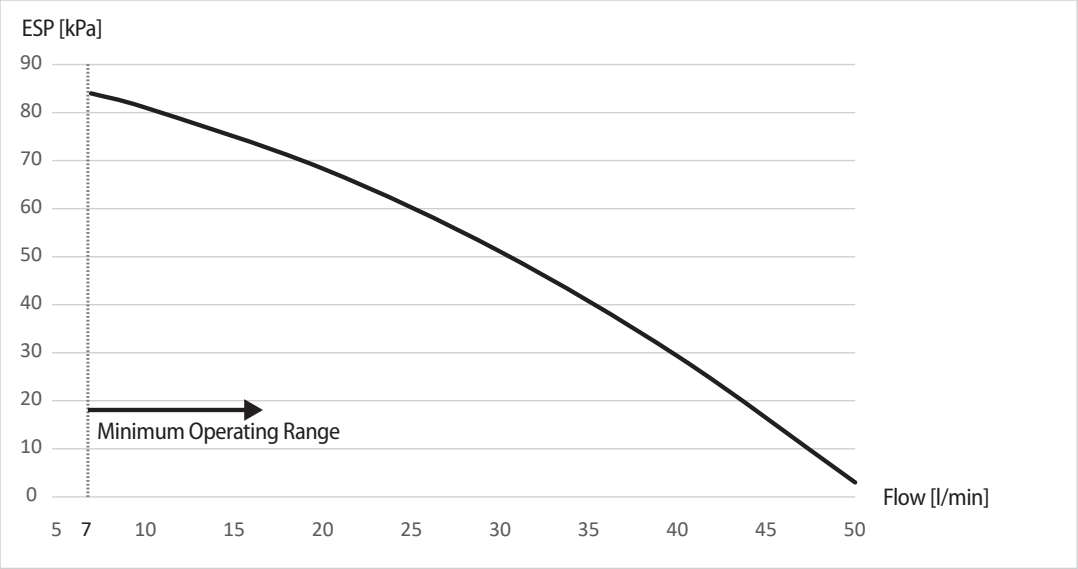
ESP(External Static Pressure) Diagram

The illustration below shows the external static pressure of the unit depending on the water flow and the pump setting.

AE160DNY***



AE160DNZ***



When ESP is not enough, additional pump should be installed. In this case, install the PWM control external type pump (Heating type) additionally.

5. Installation

Indoor Unit

Hydro Unit

Connection guide of additional pump

Ensuring proper water flow is an important factor for performance and efficiency.

If the water flow is not adequate, consider installing additional pumps.

When installing an additional pump, the system's maximum allowable water flow rate and maximum water pressure should not be exceeded.

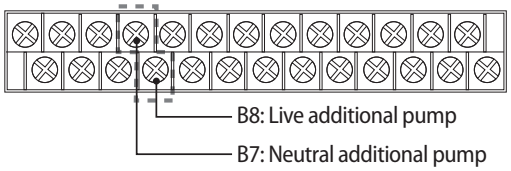
⚠ CAUTION

- Each terminal set (Live+Neutral) for additional pumps can supply ampere up to Max 1.0A.
- If an additional pump is needed, the additional pump should be installed in a designated location according to the installation case below
- [Case I] AE160DNZ*** without connection to DHW tank : additional pump should be installed in the Zone2 piping line
- [Case II] AE160DNZ*** with connection to DHW tank : additional pump should be installed in the Zone2 piping line
- [Case III] AE160DNY*** without connection to DHW tank : additional pump should be installed in the piping lines of Zone or outdoor unit
- [Case IV] AE160DNY*** with connection to DHW tank : additional pump should be installed in the Zone piping line
- For installation cases I to IV, refer to wire works cases 1 and 2.
- If an additional pump is needed for Zone1 in AE160DNZ***, refer to wire works case 3.
- The maximum number of pumps that can be powered by the terminal block of the hydro unit is two. Therefore, if necessary, be sure to connect pumps other than the two to a separate power source.
- Ex) AE160DNZ*** already has 2 pumps (Inverter and fixed pump). In this case, all additional pumps should be connected to a separate power source. For AE160DNY*** including only one main pump, one additional pumps can be driven by the terminal block of the hydro unit without using a separate power source.

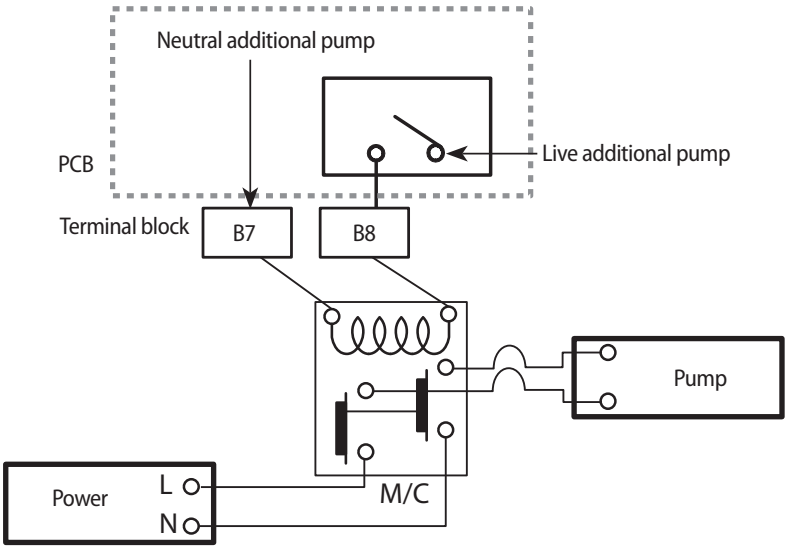
Case 1) AC pump

The terminal set (B8+B7) can supply ampere up to Max 1.0A.

1. Power supply (Pump)



2. If the maximum output of the pump exceeds 1A, please connect it to a separate power source.



⚠ CAUTION

- The maximum allowable current that this terminal block can supply for the additional water pump is 1.0A.

5. Installation

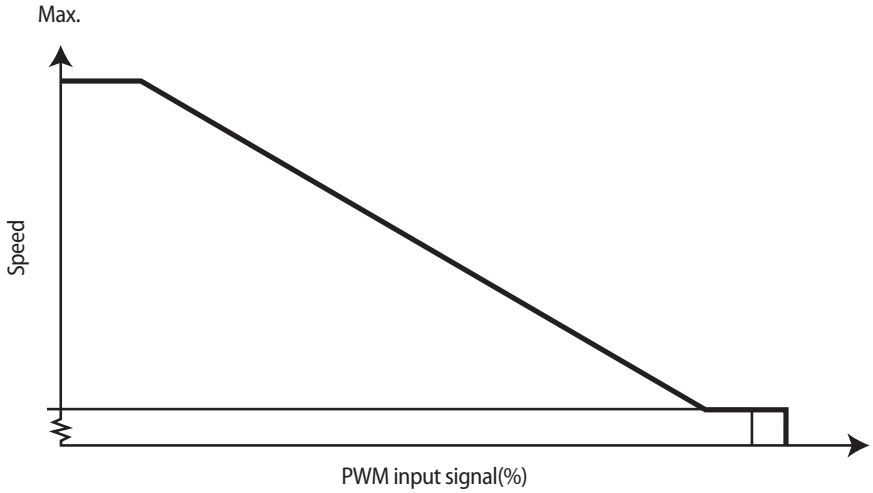
Indoor Unit

Hydro Unit

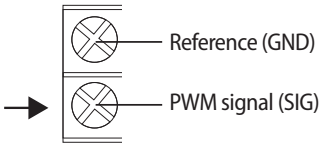
Case 2) Inverter pump

Power supply connection is the same as the case1) AC pump

PWM characteristic curve



The additional pump should be the same type of product as the above graph.
Recommendation
Connect the PWM control line to the main control PBA output(CNS002) signal function for PWM control.
(Note: Wiring diagram)



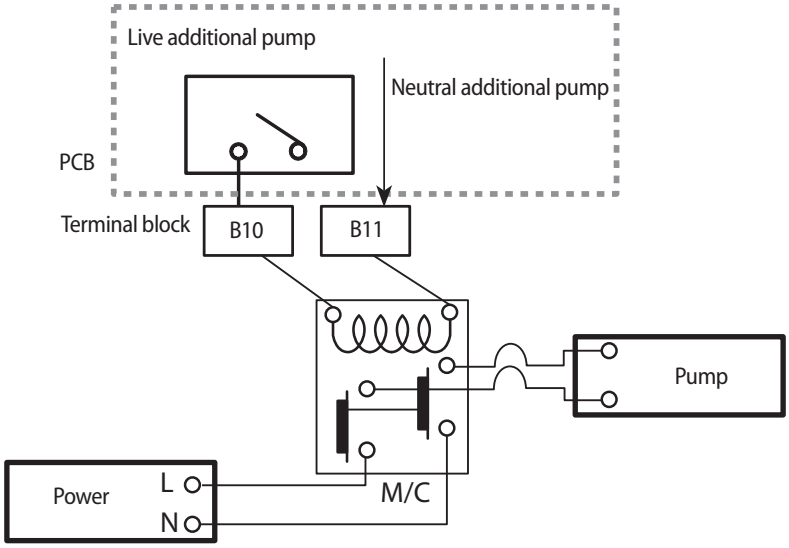
GRUNDFOS UPMM 25-95 (Heating Type), SHINHOO GPA25-9H (Heating Type)

⚠ CAUTION

- If there is wrong wiring between PWM and reference, INV. Water Pump may not work or wrong operation.

Case3) Additional pump for Zone 1 in AE160DNZ***

Only AC pump can be used as an additional pump for Zone 1 in AE160DNZ***. The pump should be installed in piping line of Zone1 and connected to a separate power source as figure shown below.

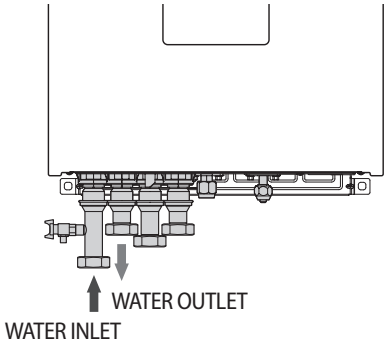


5. Installation

Indoor Unit

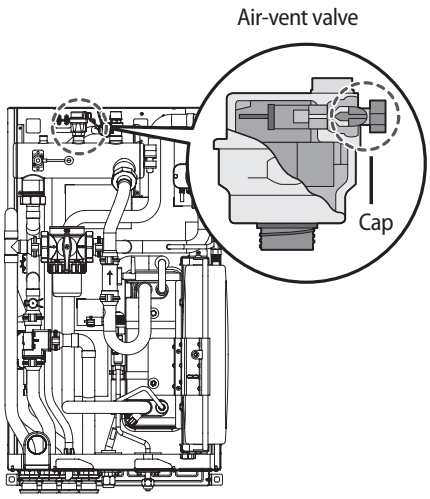
Hydro Unit

Charging water



After installation is completed the following procedures shall be used to charge water into the hydro unit.

- ▶ Connect water lines to water connections of hydro unit.
- ▶ The air-vent valve shall be opened at least 2 turns and drain valves shall be closed.
- ▶ Open the service valve in the water supply connection.
- ▶ Water pressure of supply line shall be over 2.0 bar for good charging work.
- ▶ Stop water supply when the pressure gauge of hydro unit indicates 2.0 bar.



⚠ CAUTION

- Service space should be secured.
- Water pipe and connections must be cleaned using water.
- If internal water pump capacity is not enough, install external water pump.
- Do not connect electric wire while water charging.
- When initial installation or re-installation required, open the cap to prevent air trap in the unit while charging water.
- The back-up heater vessel shall be full of water before heater is turned on. Confirm if the vessel is empty by opening the pressure relief valve of hydro unit. (OK if water is flowing out)
- It is recommended to install the make-up water assembly to feed small quantities of water to the system automatically, replacing the minor water losses and maintaining the system pressure. This assembly usually consists of a pressure-reducing valve, water filter, check-valve and shut-off valves. In this case, Check-valve must be installed to prevent from contaminating city water.

Air vent valve

Air-vent valve is provided in the Hydro unit.
However, provide air vents at all the highest points of the system, so that automatic release of air in the water circuit is possible.

Pressure relief valve

A pressure relief valve is integrated on heater vessel of hydro unit and shall work in abnormal condition for protecting the hydro unit.

⚠ CAUTION

- The pressure relief valve will operate releasing the pressure by flowing out some water through the drain hose.
- Make certain that the discharged water out of drain pan can not contact any electrical parts.

Overpressure bypass valve

Overpressure bypass valve should be installed if the minimum flow rate is not guaranteed in all conditions including defrost or backup heater operations.

Piping insulation

The complete water circuit, including all piping must be insulated to prevent condensation forming on the surface of the pipe and heat loss to external environment.

5. Installation

Indoor Unit

Hydro Unit

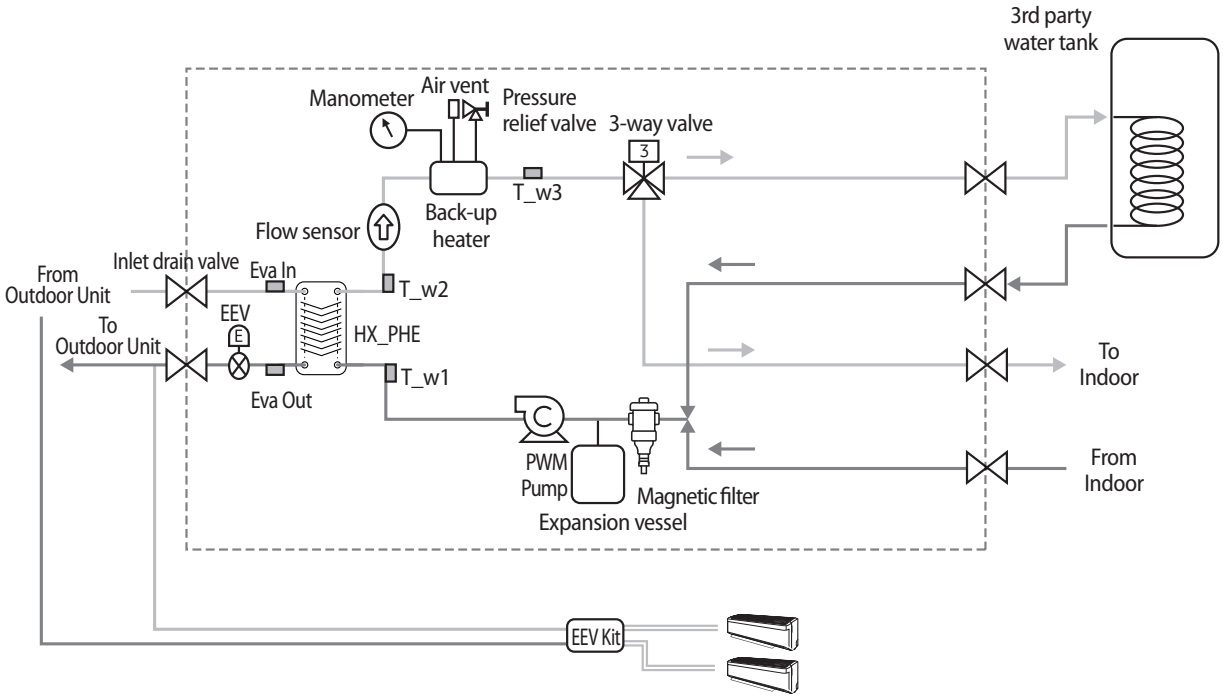
Flushing and air-purging

When filling water, the following start-up procedure should be followed.

1. All system components and pipes must be tested for the presence of leaks.
2. Make-up water assembly or Flushing unit is recommended for installation and service.
3. Before connecting pipes to the hydro unit, Flush water pipes clean to remove contaminants during 1 hours using a flushing unit or tap water pressure if it is adequate (at 2 to 3 bar)
4. Fill water into the hydro unit by opening service valves.
5. Purge the air. (Fill with a flushing unit with sufficient capacity: avoid aerating the water)
6. Circulate for long enough to ensure that all air has been bled from the complete water piping system.

After installations, Commissioning should be performed by qualified representatives. Unless flushing and air-purging works are performed adequately, It might result in malfunctions.

Flushing unit (or purging cart)



⚠ CAUTION

- Check and clean Magnetic Filter periodically using the filter opener (Note: Accessories)
- Replace Magnetic Filter when necessary
- Its recommended that you flush the system for 4 hours minimum once a year.
- Use chemical cleaning agents(Begin with acid , finish with alkali).
- Install Air vents on the top of the system
- Pressure of entering water(over 2.0 bar)

5. Installation

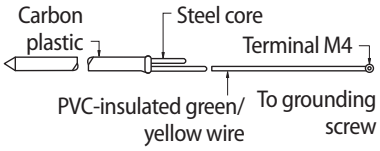
Indoor Unit

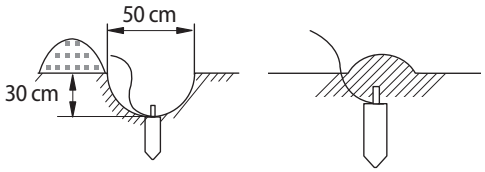
Hydro Unit

Checking correct grounding

If the power distribution circuit does not have a grounding or the grounding does not comply with specifications, an grounding electrode must be installed. The corresponding accessories are not supplied with the Air to Water Heat pump.

1. Select an grounding electrode that complies with the specifications given in the illustration.





2. Connect the flexible hose to the flexible hose port.

- ▶ In damp hard soil rather than loose sandy or gravel soil that has a higher grounding resistance.
- ▶ Away from underground structures or facilities, such as gas pipes, water pipes, telephone lines and underground cables.
- ▶ At least two metres away from a lightening conductor grounding electrode and its cable.

NOTE

- The grounding wire for the telephone line cannot be used to ground the Air to Water Heat pump.

3. Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
4. Install a green/yellow coloured grounding wire :

- ▶ If the grounding wire is too short, connect an extension lead, in a mechanical way and wrapping it with insulating tape (do not bury the connection).
- ▶ Secure the grounding wire in position with staples.

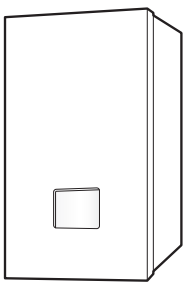
NOTE

- If the grounding electrode is installed in an area of heavy traffic, its wire must be connected securely.

5. Carefully check the installation, by measuring the grounding resistance with a ground resistance tester. If the resistance is above required level, drive the electrode deeper into the ground or increase the number of grounding electrodes.
6. Connect the grounding wire to the electrical component box inside of the outdoor unit.

Connection of the power supply and communication cable

Model	Description		No. of Wires	Max. A	Thickness	Supply Scope
AE160DN****	Main Power (1 Phase)	In case of not connecting a booster heater	2 + ground	5 A	1.5mm² ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
		In case of connecting a booster heater	2+ ground	18.7A	4.0mm² ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
	Heater Power	3 Phase Heater (6 kW)	4 + ground	9.5A	2.5mm² ↑ H05RN-F or H07RN-F	Field Supply (380-415Vac, Input)
		1 Phase Heater (4 kW)	2 + ground	19A	4.0mm² ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
		1 Phase Heater (2 kW)	2+ ground	9.5A	2.5mm² ↑ H05RN-F or H07RN-F	Field Supply (220-240Vac, Input)
	Communication		2	0.1 A	0.75mm² ↑ H05RN-F or H07RN-F	Field Supply (~Vdc, Data)

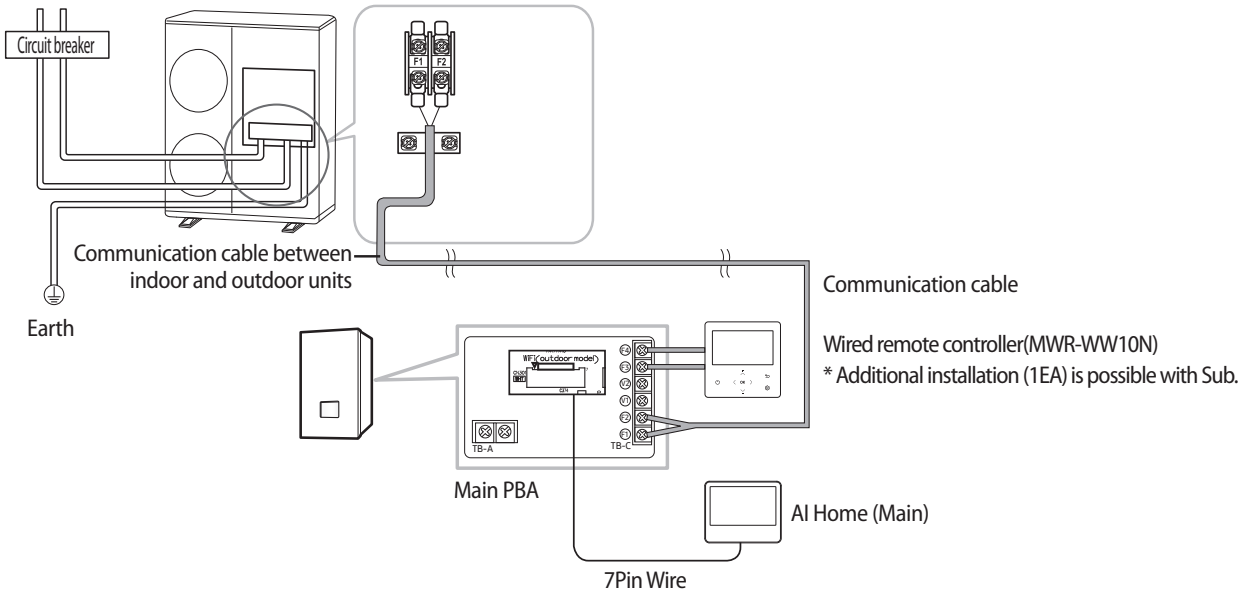


5. Installation

Indoor Unit

Hydro Unit

Communication cable connection



5. Installation

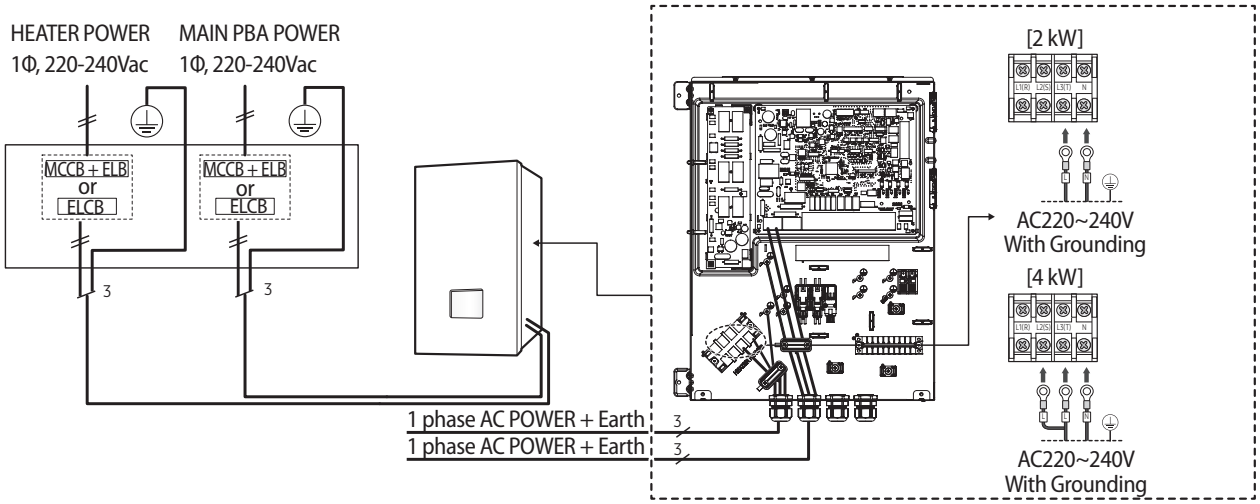
Indoor Unit

Hydro Unit

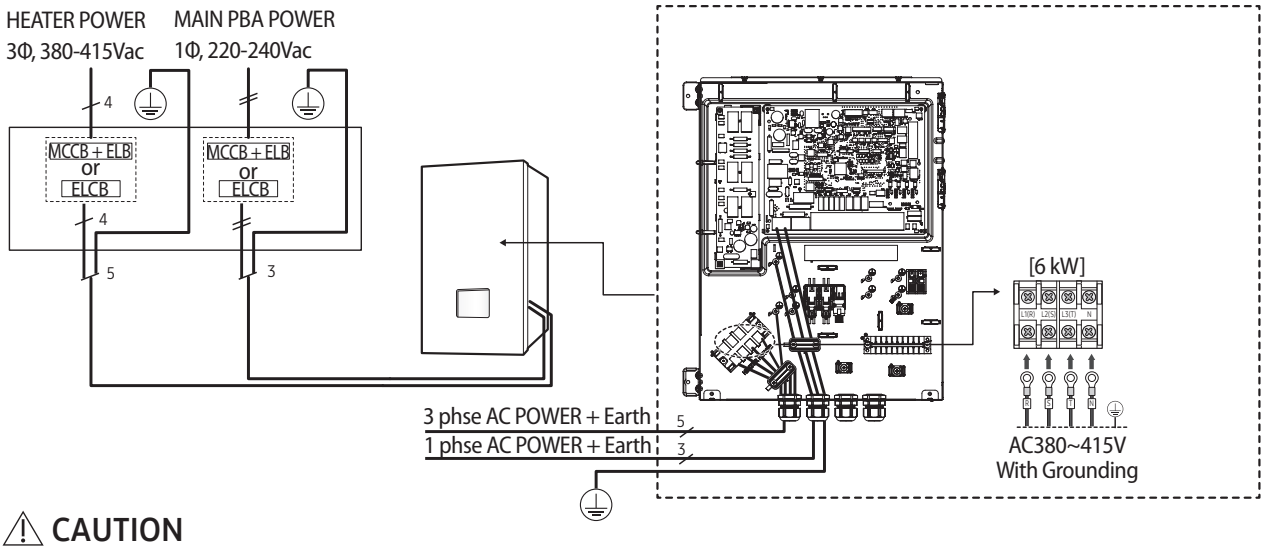
⚠ **CAUTION**

- Main POWER and Heater POWER must be configured through each RCBO(Residual Current Breaker with Overcurrent protection) or MCB + RCCB.
- Backup heater should use the right power according to the power of the outdoor unit.

1. 1 phase product



2. 3 phase product



⚠ **CAUTION**

- **Circuit Breaker (RCBO or MCB + RCCB) for outdoor and indoor units shall be installed by installers because they are not sub-parts in the units.**
- If the supply cable is damaged, it must be replaced by a special cable or assembly available from the manufacturer or installer.
- The improper connection of the main and heater may result in damage to the chassis, PCB, and heater.
- When connecting the 3 phases for a 6 kW heater, be sure that the R, S, T, N terminals of the heater are properly connected before turning on the unit.
- Please check that the voltage between R-N, S-N, and T-N on the heater power terminal block is within the range of 220 to 240Vac.

❋ RCBO : Residual current circuit breaker with overcurrent protection
MCB : Miniature Cirtcuit Breaker
RCCB : Residual current circuit Breaker

5. Installation

Indoor Unit

Hydro Unit

Connection of the backup heater power supply

⚠ CAUTION

- Do not use a power supply shared by other appliances. Each components for outdoor unit, indoor unit, backup heater and booster heater has the dedicated power supply.

Model	Outdoor unit Power (Φ, #, V, Hz)	Backup Heater Capacity (kW)	Max Current	1 Phase RCBO (A)	3 Phase ELCB (A)
AE160DN****	1,2,220-240,50	2	Max 9.5A	15A or below	N/A
		4	Max 19A	25A or below	N/A
	3,4,380-415,50	6	Max 9.5A	N/A	15A or below

The FSV #3081 setting value must be changed according to the heater capacity

- 2kW: 2(default)
- 4, 6kW: Need to change to 4 or 6 depending on the heater capacity

NOTE

- The power consumption of backup heater is calculated according to the heater signal, so an error may occur with the actual usage.

5. Installation

Indoor Unit

Hydro Unit

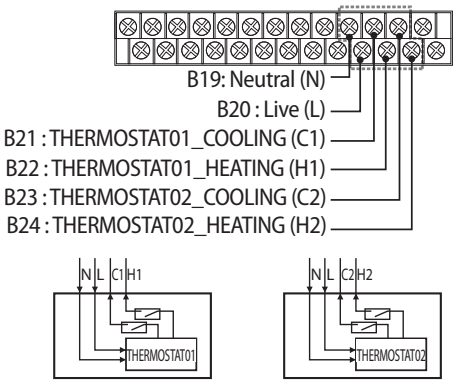
Connection of the thermostat

To use thermostat control, configure FSV #2091/#2092 to "Use." Please refer to the controller manual for this setting.
Cooling/Heating operation and water temperature are determined by the Thermostat input signal and Water Law setting.
Please refer to the controller manual for this setting.

NOTE

- For thermostat control, FSV Setting #4061 must be set to "0".

Description	No. of wires	Max. current	Thickness	Supply Scope
Room Thermostat	4	#19, #20 : 50 mA(Output, Thermostat Power) #21, #22, #23, #24 : 22 mA each Pin(Input)	> 0.75 mm², H05RN-F or H07RH-F	Field supply(220~240Vac, Output)



1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Make sure what type is you use.
   - If the operating mode (heating/cooling) of thermostat 1 and thermostat 2 are different, the operating mode is determined based on thermostat 2.

CAUTION

- Product will not operate when signal for cooling and heating mode is inputted at the same time.

When setting up two thermostats;

- ▶ For heating operation, please install Thermostat 01 to a room that requires lower water temperature (ex,underfloor heating) and Thermostat 02 to a room that requires higher water temperature (ex,radiators).
- ▶ For cooling operation, please install Thermostat 02 to a room that requires lower water temperature (ex,radiators) and Thermostat 01 to a room that requires higher water temperature (ex,underfloor heating).
- ▶ In order to properly control the two thermostats with different temperature settings, it is necessary to connect the mixing valve and the mixing temperature sensor(TW4)[Optional parts].
- ▶ When controlling the thermostat in a multi-room(Two thermostat control), please refer to the "Connection of the 2-way valve" wiring works for valve control.
- ▶ Please find additional installation information refer "Connection of the 2-way valve " [Page 47] and "Connection of the mixing valve" [Page 50]

CAUTION

- When using thermostat01 in cooling mode, to prevent floor condensation, if the room water temperature is below 16 °C, the 2-way valve of thermostat 01 is automatically closed.

NOTE

- The supply line for Zone 1 of the hydro unit is designed to be used for floor heating/cooling. Therefore, if the Zone 1 is connected to a radiator, insufficient cooling can be made because the 2-way valve of Zone 1 is closed when the room water temperature is below 16 °C as described above.
- When using thermostat01 in cooling mode, to prevent floor condensation, if the room water temperature is below 16 °C, the 2-way valve of thermostat 01 is automatically closed.

5. Installation

Indoor Unit

Hydro Unit

Connection of the 2-way valve (2zone control is not used as FSV Setting #4061="0")

1. 2Way Valve performs open/close operations according to cooling/heating Thermo On/Off control.
2. When setting up two thermostats, then;
   - 2way valve 1 operates according to the input signal of thermostat 1 and 2way valve 2 according to that of thermostat 2.
   - If you use the 2way valve output as the output of the Room Water Pump with buffer tank for Thermostat 1 and 2, please connect it to terminal block "normal close" and set FSV Setting #6041 to "0". [Reference: EHS CONTROL KIT Manual]

Description	No. of wires	Max. current	Thickness	Supply Scope
2 Way Valve	2+ground	50 mA	> 0.75 mm², H05RN-F or H07RH-F	Field supply(220~240Vac, Output)

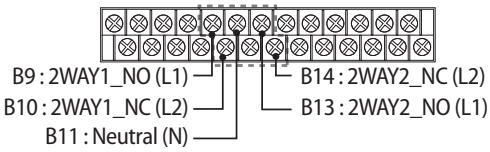
⚠ CAUTION

- When FSV#4041=0 is set without using the mixing valve, if the water outlet temperature is less than 16 degrees, 2way valve 1 is closed to prevent floor condensation.
  - Connect the output of 2way valve 1 for underfloor cooling shutoff.

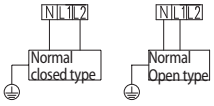
NOTE

- The supply line for Zone 1 of the hydro unit is designed to be used for floor heating/cooling. Therefore, if the Zone 1 is connected to a radiator, insufficient cooling can be made because the 2-way valve of Zone 1 is closed when the room water temperature is below 16 °C as described above.

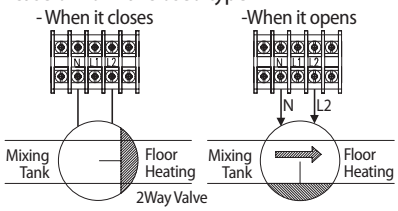
▶ Connect the output of 2way valve 1 for underfloor cooling shutoff.



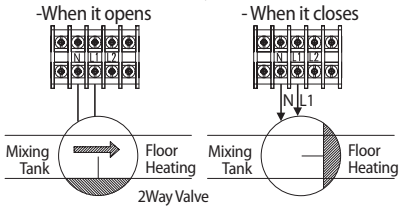
* Connection of 2 wires 2-way valve



In case of normal closed type



In case of normal open type



2-way motorized valve

▶ 220 ~ 240 Vac

▶ 2 wires(Normal Open or Normal Close)

1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Make sure what type is you use.
   - Normal OPEN or Normal CLOSED.

⚠ CAUTION

- There are 2 types of 2-way valve, normal open type and normal closed type. Make sure to connect terminals to right positions of terminal block. As detailed on the wiring diagram and illustrations above.

5. Installation

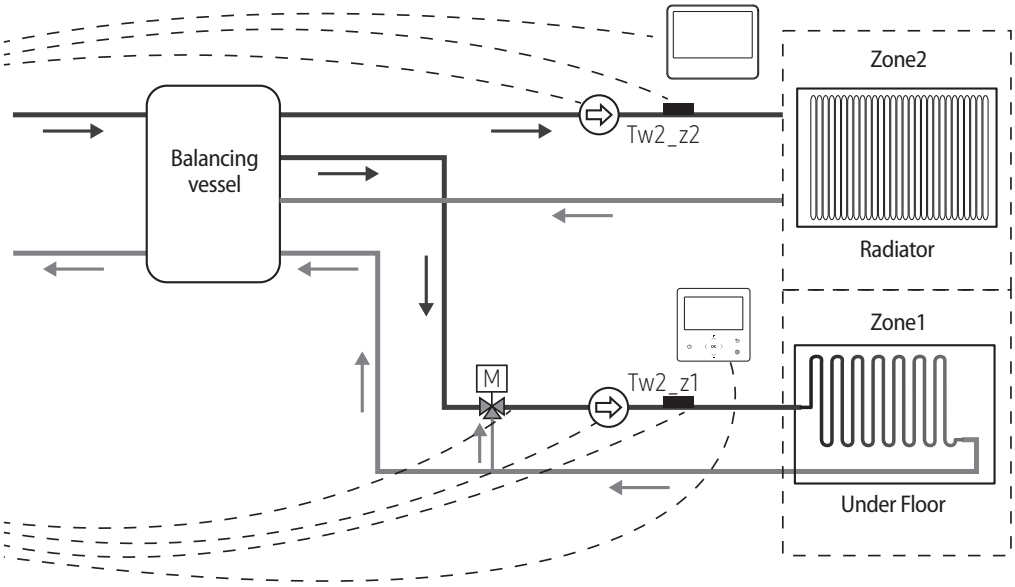
Indoor Unit

Hydro Unit

Connection of the water pump for 2 Zone control (FSV 4061=1)

When setting up 2 Zone control;

- ▶ For heating operations, please conncect the Zone1 supply line to a room that requires a lower water temperature (ex,underfloor heating) and the Zone2 supply line to a room that requires a higher water temperature (ex,radiators).
- ▶ For cooling operations, please conncect the Zone2 supply line to a room that requires a lower water temperature (ex,radiators) and the Zone1 supply line to a room that requires a higher water temperature (ex,underfloor cooling).
- ▶ In order to properly control the 2 Zone with different temperature settings, it is necessary to connect the mixing valve and the Zone1 and Zone2 temp. sensors[Optional parts].
- ▶ Please find additional installation information refer "Connection of the mixing valve" [Page 50]
- ▶ Zone1 water pump connection: B10(L1) + B11(N)
- ▶ Zone2 water pump connection: B14(L1) + B15(N)



⚠ CAUTION

- When using Zone1 in cooling mode, to prevent floor condensation, if the zone1 water temperature is below 16 °C, the pump of zone 1 is automatically turned off.

NOTE

- The supply line for Zone 1 of the hydro unit is designed to be used for floor heating/cooling. Therefore, if the Zone 1 is connected to a radiator, insufficient cooling can be made because the 2-way valve of Zone 1 is closed when the room water temperature is below 16 °C as described above.

NOTE

- AE160DNZ*** (2zone built-in type) is designed to supply water at 2 different temperatures. Therefore, it is not necessary to connect or configure the Zone1 and Zone2 water pumps.

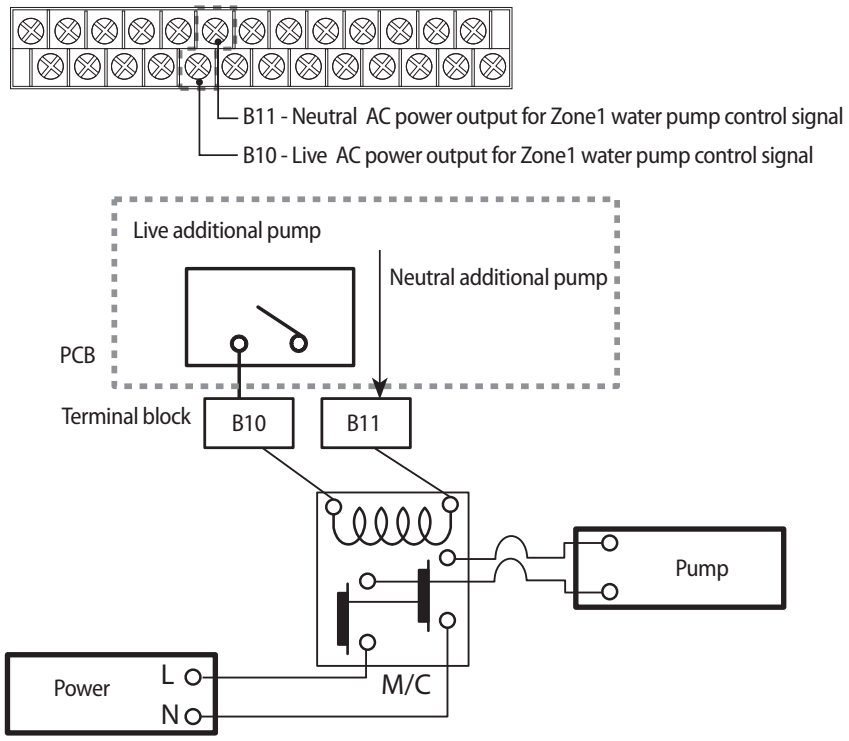
⚠ CAUTION

- There are 2 types of 2-way valve, normal open type and normal closed type. Make sure to connect terminals to right positions of terminal block. As detailed on the wiring diagram and illustrations above.
- To use the zone control (FSV #4061=1), set the thermostat control option (FSV #2091 & #2092) to "0" for disabling it.

5. Installation

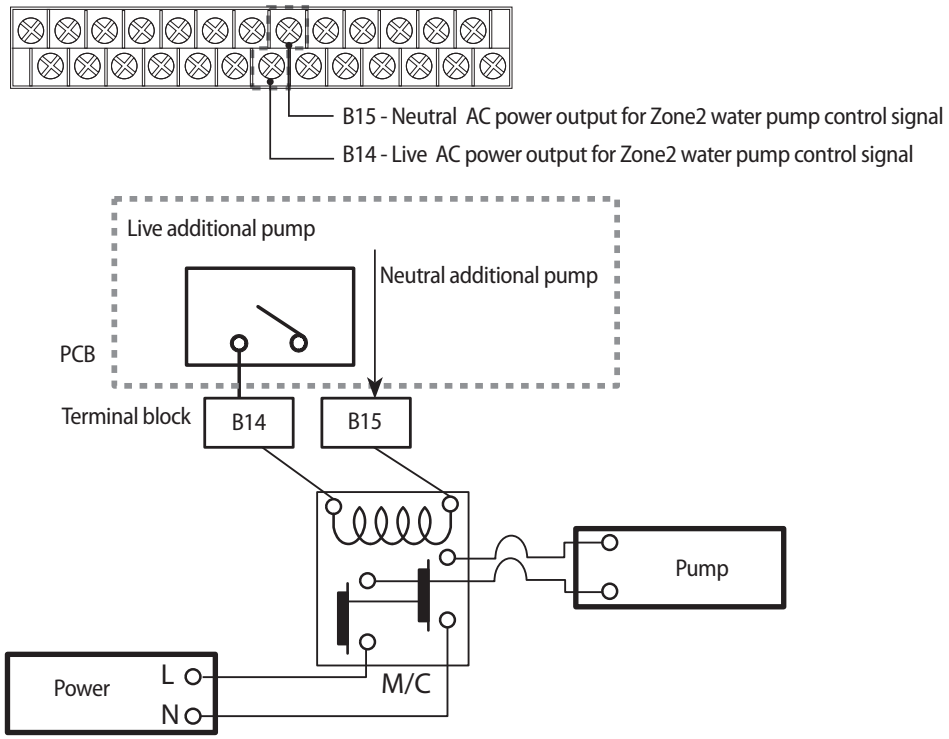
Indoor Unit

Hydro Unit



⚠ **CAUTION**

- The maximum allowable current that this terminal block can supply for the additional water pump is 50mA.
- When using external power of 50 mA or more, make sure to connect using relay and separate power source.



⚠ **CAUTION**

- The maximum allowable current that this terminal block can supply for the additional water pump is 50mA.
- When using external power of 50 mA or more, make sure to connect using relay and separate power source.

5. Installation

Indoor Unit

Hydro Unit

Connection of the mixing valve

NOTE

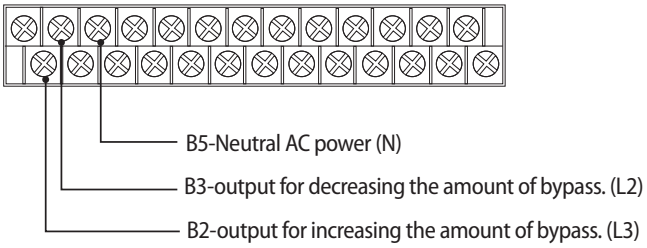
- In order to install mixing valve for standard model(AE160DNYMPK), please purchase 2 Zone Thermistor Kit (MOS-T1).

In order to properly control the 2 Zone or two thermostat with different temperature settings,
it is necessary to connect the mixing valve.

The mixing valve controls the amount of bypass water that is mixed with the supply water to provide water at a pre-set temperature.

Description	No. of wires	Max. current	Thickness	Supply Scope
Mixing valve	3	50mA	> 0.75 mm^2, H05RN-F or H07RH-F	Field supply(220~240Vac, Output)

1. Before the installation, control kit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.



B2- output for increasing the amount of bypass : The amount of return water that is mixed with supply water through mixing valve is increased.

B3- output for decreasing the amount of bypass. : The amount of return water that is mixed with supply water through mixing valve is decreased.

NOTE

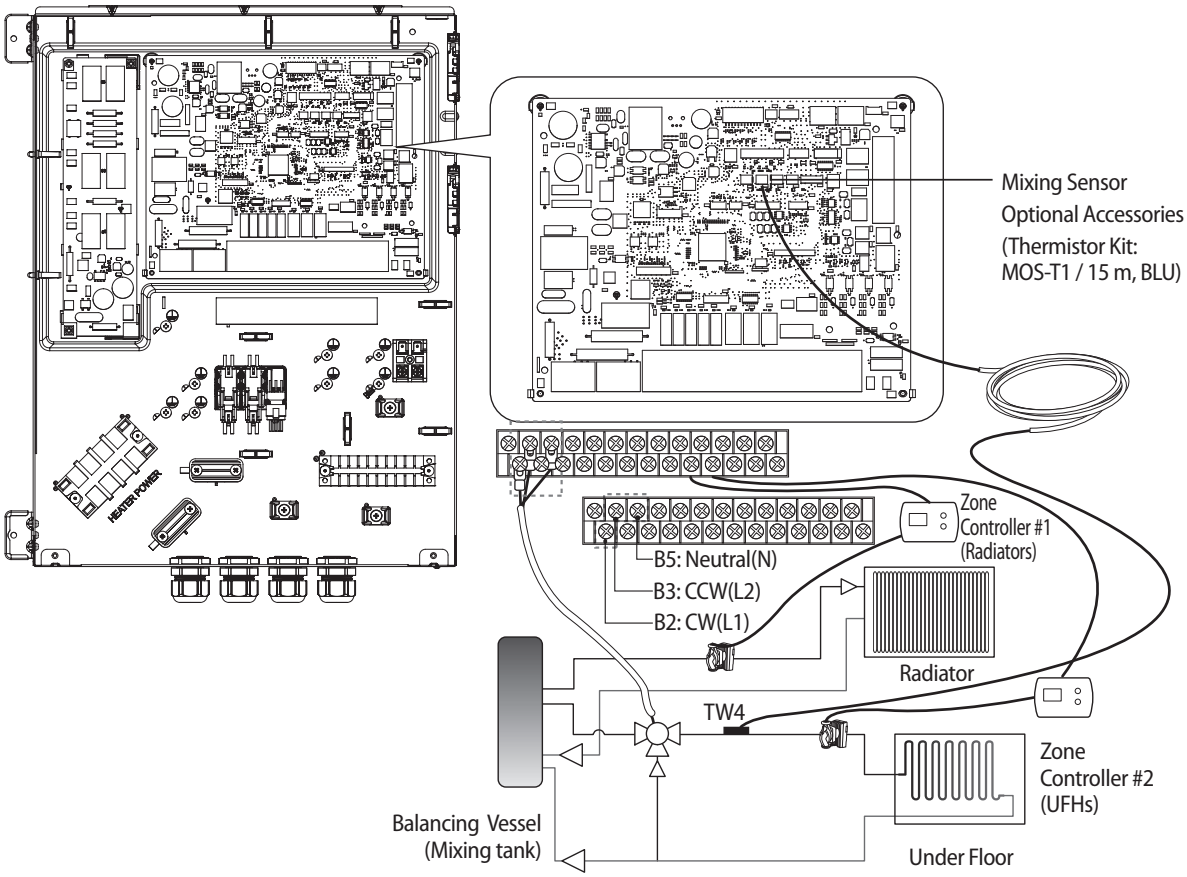
- AE160DNZ*** (2zone built-in type) is designed to supply water at 2 different temperatures. Therefore, it is not necessary to connect or configure the Mixing Valve.

5. Installation

Indoor Unit

Hydro Unit

2 Zone with Two thermostat control



1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position on the terminal block as shown on the diagram.
3. Install the supplied Mixing temperature sensor (TW4) on the mixed water side within 1 m from the Mixing Valve, as shown in the figure above.
4. Set the FSV value #4041~ #4046. Please refer to the controller manual for this setting.

⚠ CAUTION

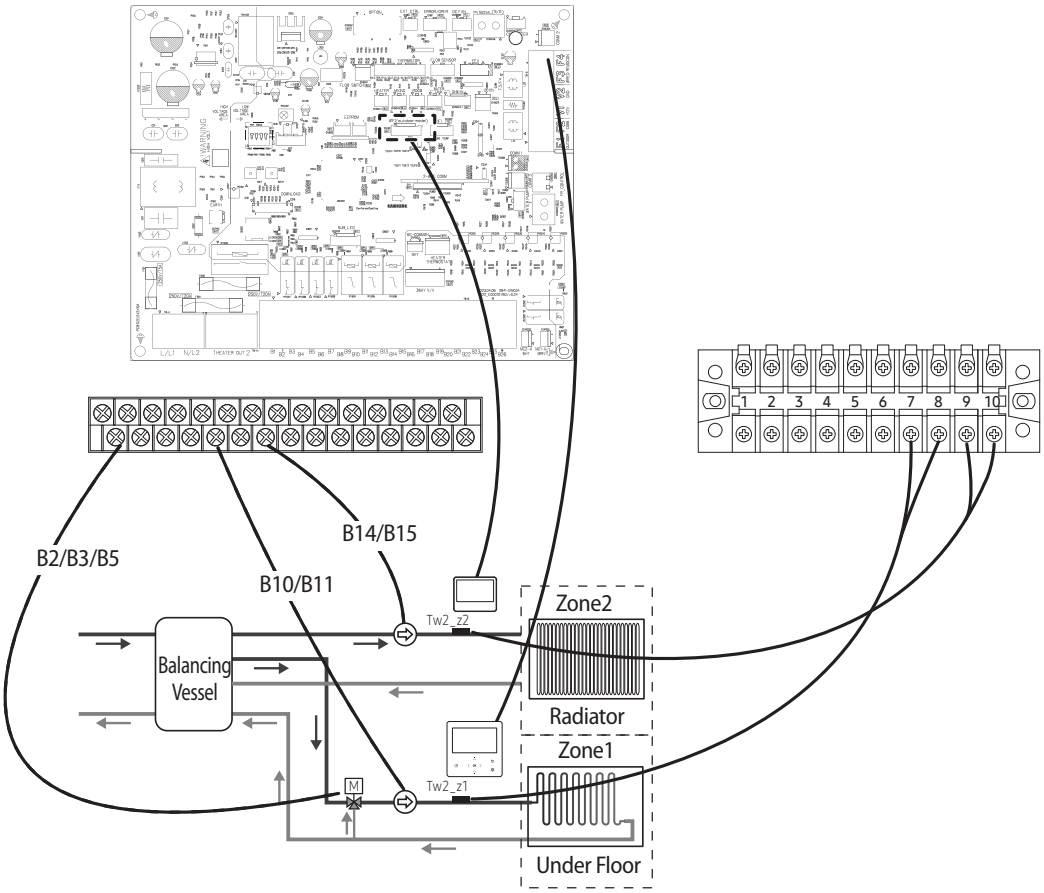
- When using Zone control (FSV 4061 =1), Ignore Thermostat signal.

5. Installation

Indoor Unit

Hydro Unit

2 Zone Control [FSV #4061 =1]



You can operate the 2 Zone control using a mixing value, water-out temperature sensors, and built-in or external room temperature sensors installed in a wired remote controller.
When both zones are simultaneously Thermo on, the operation is performed based on Zone2. Therefore, set the zone that you want to have the higher set temperature to Zone2.
(The mixing valve must be installed in the zone that you want to have the lower set temperature.)

1. Install the mixing valve. (See "Installation of mixing valve.")
2. Install the water-out temperature sensors (Tw2_z1, Tw2_z2) for all zones.
3. Unlike the zone control with a thermostat, connect the water pump signal lines to the product.

► Zone1 water pump connection: B10 (L1) + B11 (N)
► Zone2 water pump connection: B14 (L1) + B15 (N)

4. FSV 4061 = 1: Enable the 2 Zone control using the wired remote controller.

* If you want to operate the 2 Zone control by using water-out temperatures, you have only to complete steps 1 to 4 above.
* If you want to operate the 2 Zone control by using room temperatures and built-in temperature sensors in wired remote controllers, you must install two wired remote controllers in each room.
(If you use external room temperature sensors, you can control each room temperature with only one wired remote controller.)

Select a mixing valve from the manufacturers as below (recommended)

Maker		BELIMO	SIEMENS	HONEYWELL
Model code	3 Way Valve	R3020-6P3-S2	VXP45.20-4 (kvs 4)	V5011E1213
	Actuator	LR230A(-S)	SSB31	ML6420A3015
Running time		90 sec.	150 sec.	60 sec.
FSV(#4046) setting		9	15	6

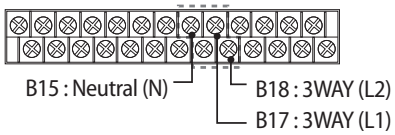
5. Installation

Indoor Unit

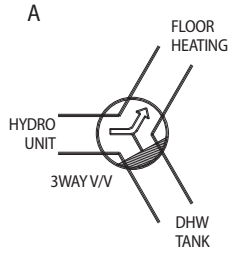
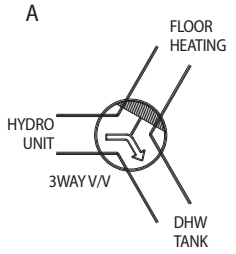
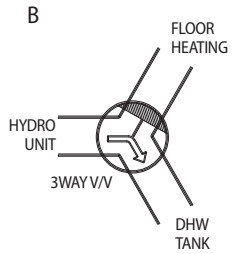
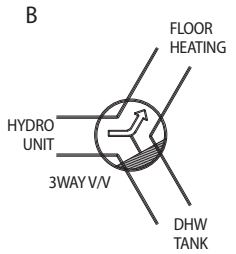
Hydro Unit

Connection of the 3-way valve

Description	No. of wires	Max. current	Thickness	Supply Scope
Diverting type 3way valve	4	50 mA	> 0.75 mm², H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



Status	L1	L2
A (Initial)	OFF	ON
B	ON	OFF

Field Setting Valve (#3071) "0" Floor heating as default	Field Setting Valve (#3071) "1" DHW tank as default
A 	A 
B 	B 

3-way diverting valve for water tank

- ▶ When cooling operating mode, floor heating loops will be closed.
- ▶ 220 ~ 240 Vac

1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. Make sure what type of 3 way V/V you use.

5. Installation

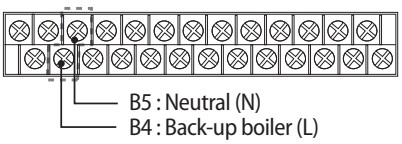
Indoor Unit

Hydro Unit

Connection of the back-up boiler

- ▶ This function is to determine which heating source can/will provide the space heating, either the heat pump system or the back-up boiler.
- ▶ To control the back-up boiler , configure FSV #4031~ #4033. Please refer to the controller manual for this setting.

Description	No. of wires	Max. current	Thickness	Supply Scope
Back-up Boiler	2	50 mA	0.75mm² H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



When it set back up boiler on the hydro unit (relay off)

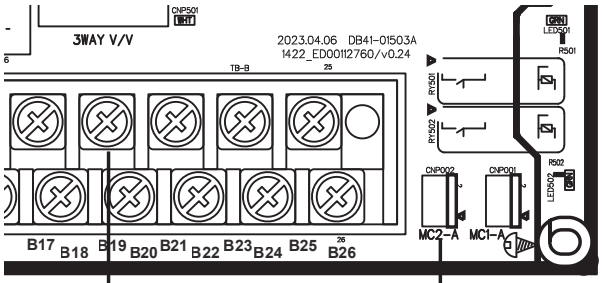
When it order to back up boiler operates (relay on)

1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.

✻ Heat pump does not work when the Back-up boiler operates.

Connection of the external back-up heater

Description	No. of wires	Max. current	Thickness	Supply Scope
Back-up Heater	2	0.3 A	0.75mm² H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



B19 : N

MC2-A : RELAY_OUT(L)

- ▶ If you need an additional heater, it can be installed as an option.

NOTE

- AE160DNZ*** (2 Zone built-in type) is strictly prohibited from installing external back-up heaters.
- An additional back-up heater for AE160DNY*** should be installed on the Zone piping line.

⚠ WARNING

- The N phase of the HEATER signal can be connected to B5,B7,B11,B15 instead of B19 (Maximum 2 wires can be connected 1 Screw)
- For the external Back-up heater connection, Only Samsung Heater kit(MHC-300FP) is compatible.

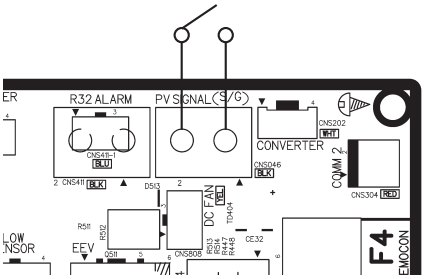
5. Installation

Indoor Unit

Hydro Unit

Connection of the Peak Power Control or PV control(Photovoltaics control)

Description	No. of wires	Max. current	Thickness	Supply Scope
Peak Power Control or PV control (Photovoltaics control)	2	-	-	Field supply



✻ Function 1 (Peak Power Control)

▶ This is a function that allows you to disable the booster heater, backup heater, and compressor operation of the outdoor unit depending on the power input contact.

▶ If users make contracts with local electric power company for limiting the amount of power consumption when a surge in power usage, users can set FSV of "Forced off".

▶ To control the Power Peak , configure FSV #5041~ #5043. Please refer to the controller manual for this setting.

✻ Function 2 (PV[Photovoltaics] control)

▶ This is for energy saving by using the solar energy.

▶ To control PV, configure FSV #5081~ #5083. Please refer to the controller manual for this setting.

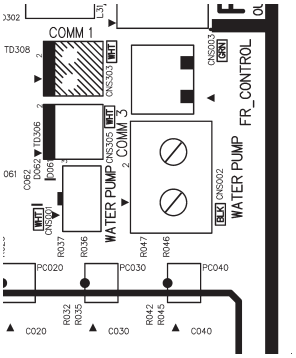
▶ Cooling/heating operation: Enables the FSV value that is set only when the PV signal is in out mode.
Hot water operation: Activate immediately with the set FSV value

NOTE

- It operates according to the setting of FSV, and both functions can not be used at the same time. (PV Control / Peak power control)
- Except for domestic hot water mode, this function is activated only for the outing mode.

Connection of the FR Control(Frequency ratio control)

Description	No. of wires	Max. current	Thickness	Supply Scope
FR Control	2	-	-	Field supply



▶ The FR control function application is to limit the maximum frequency of the outdoor unit compressor. (if FSV #5051 = 1 "use")

▶ Method 1 : External DC signal Control uses a DC voltage of 0 ~ 10V (0v = 50%, ~ 10v = 150%)

▶ Method 2 : Demand ratio (DR) control through Modbus communication

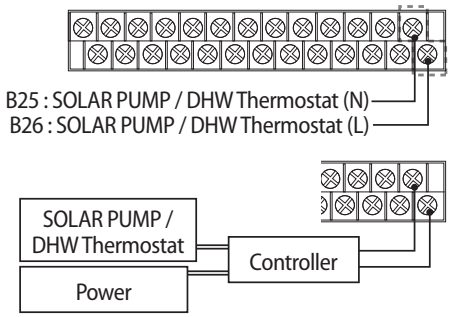
5. Installation

Indoor Unit

Hydro Unit

Connection of the Solar Pump / DHW thermostat

Description	No. of wires	Max. current	Thickness	Supply Scope
Solar pump / DHW Thermostat	2	22mA	0.75mm² H05RN-F or H07RN-F	Field supply(220~240Vac, Output)



1. Before connecting the external control kit, make sure it is turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.
3. The external control kit must provide an output signal when Solar pump/ DHW Thermostat is operating.
4. It is the installers responsibility to connect the output of the control kit to the Solar Pump/ DHW Thermostat input terminal (B25-26). In operating mode, signal shall be around 230VAC (N-L). In non-operating mode, signal shall be around 0VAC (N-L).

When solar pump signal is On, Hydro unit DHW mode will be turned off.

If a solar pump for DHW is used, the signal input line from the solar pump can be connected as shown above

▶ if a solar pump is used, FSV#3061 should be set to 1

If DHW thermostat is used, the signal input line from the DHW thermostat can be connected as shown above

▶ if DHW thermostat is used, FSV#3061 should be set to 2

NOTE

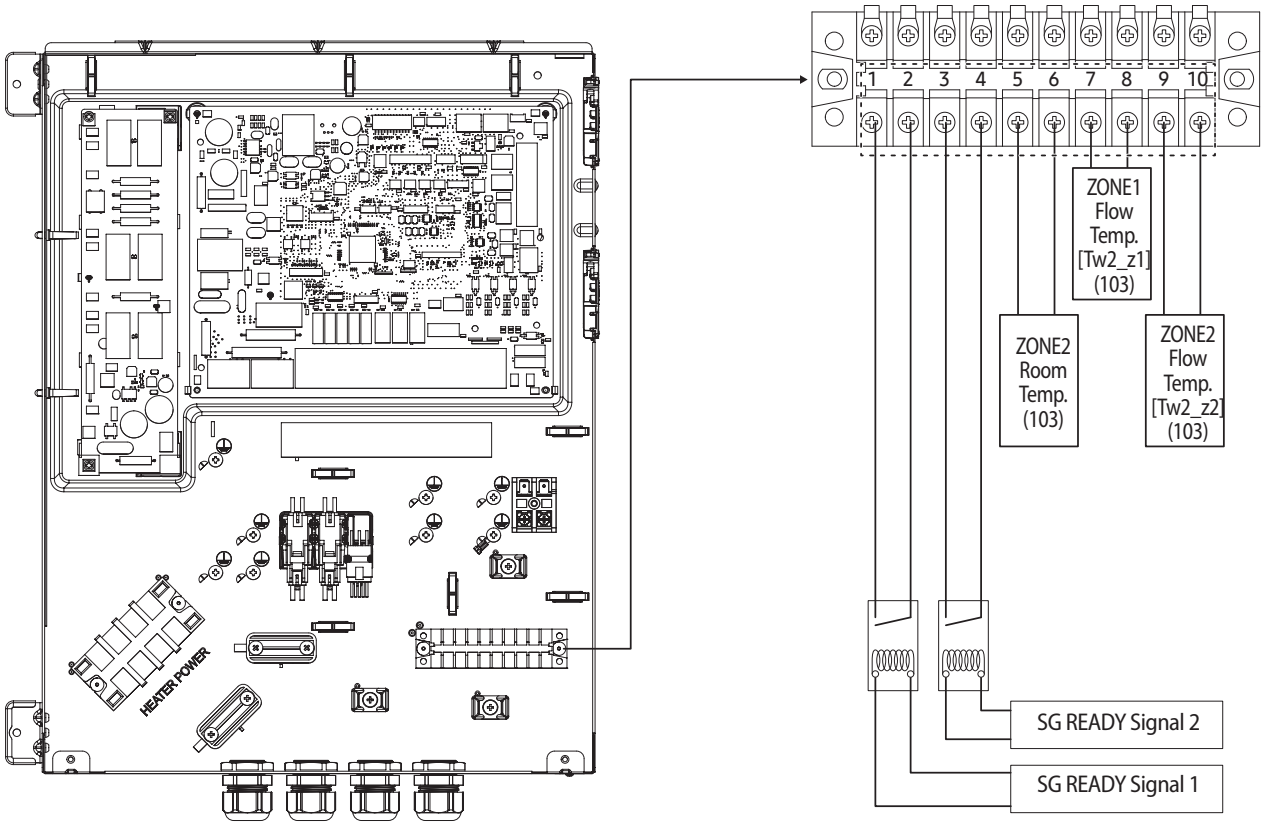
- Solar pump and DHW thermostat cannot be used simultaneously

5. Installation

Indoor Unit

Hydro Unit

Connecting for smart grid ready control



SG READY Signal 1	SG READY Signal 2	Product operation
Short	Open	Forced thermo off operation
Open	Open	Normal operation
Open	Short	Heating / DHW setting temperature 1step-up operation
Short	Short	Heating / DHW setting temperature 2step-up operation

⚠ CAUTION

- These parts are optional and not included with the product.
- Maker sure to connect to non-power on/off contacts.

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