

ARTCOOL (Mirror)

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1. List of functions

■ List of functions

Category	Function	ARNU05GSJR4, ARNU07GSJR4, ARNU09GSJR4, ARNU12GSJR4, ARNU15GSJR4, ARNU18GSKR4, ARNU24GSKR4
Air flow	Air supply outlet	1
	Airflow direction control(left & right)	Manual
	Airflow direction control(up & down)	Auto
	Auto swing(left & right)	X
	Auto swing(up & down)	Auto
	Airflow steps(fan/cool/heat)	3 / 4 / 3
	Chaos wind(auto wind)	X
	Jet cool(Power wind)	O
	Swirl wind*	-
Air purifying	Triple filter	X
	Plasma air purifier	X
	Ionizer	O
	Prefilter(washable / anti-fungus)	O
Installation	Drain pump	-
	E.S.P. control*	-
	Electric heater(operation)	-
	High ceiling operation*	-
Reliability	Hot start	O
	Self diagnosis	O
	Soft dry operation	O
Convenience	Auto changeover	O(Heat recovery)
	Auto cleaning	O
	Auto operation(artificial intelligence)	O(Heat pump or Cooling only)
	Auto restart operation	O
	Child lock*	O
	Forced operation	O
	Group control*	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	External On/Off	O
	Wi-Fi	O

Note

1. O : Applied, X : Not Applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

5. * : These functions need to connect the wired remote controller.

1. List of functions

■ Accessory Compatibility List

Category		Product	Remark	Compatibility ARNU-GSJ(K)R4
Wireless Remote Controller		PQWRH(C)Q0FDB	-	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100	New Standard (White)	O
	Premium	PREMTA000(A/B)	Premium	O*
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
		PDRYCB400	Points Dry Contact (For Setback)	O
	Communication type	PDRYCB300	-	O
		PDRYCB500	Dry Contact For Modbus	O
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	-
		PSNFP14A0	Connected with the Indoor Units	-
ETC	Remote temperature sensor	PQRSTA0	-	-
	Zone controller	ABZCA	-	-
	Electronic thermostat	AQETC	-	-
	CTI (Communication transfer interface)	PKFC0	-	-
	CO2 Sensor	PES-C0RV0	-	-
	Group control wire	PZCWRCG3	0.25m	O
	2-Remo Control Wire	PZCWRC2	0.25m	O
	Extension Wire	PZCWRC1	10m	O
	Wi-Fi Controller*	LG-IR-WF-1	-	-
	Telecom shelter controller	PQCSA001T0	-	X
Note 1. O: Possible, X: Impossible, - : Not applicable 2. * : Some advanced functions controlled by individual controller cannot be operated. 3. ** : It could not be operated some functions. 4. If you need more detail, please refer to the BECON PDB or the manual of product. (http://partner.lge.com/global : Home> Download> Manuals)				

2. Specifications

Type			ARTCOOL Mirror	
Model		Unit	ARNU05GSJR4	ARNU07GSJR4
Cooling Capacity		kW	1.6	2.2
		kcal/h	1,400	1,900
		Btu/h	5,500	7,500
Heating Capacity		kW	1.8	2.5
		kcal/h	1,500	2,200
		Btu/h	6,100	8,500
Power Input (H / M / L)		W	11 / 10 / 9	12 / 11 / 9
Dimensions (W×H×D)	Body	mm	837 × 308 × 192	837 × 308 × 192
		inch	32-15/16 × 12-1/8 × 7-9/16	32-15/16 × 12-1/8 × 7-9/16
	Shipping	mm	909 × 383 × 256	909 × 383 × 256
		inch	35-25/32 × 15-3/32 × 10-3/32	35-25/32 × 15-3/32 × 10-3/32
Coil	Rows × Columns × FPI		2 × 15 × 19	2 × 15 × 19
	Face Area	m²	0.19	0.19
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output × Number	W	30 × 1	30 × 1
	Running Current	A	0.25	0.25
	Air Flow Rate(H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9
		ft³/min	240 / 230 / 208	254 / 240 / 208
	Drive		Direct	Direct
Motor type		BLDC	BLDC	
Temperature Control			Microprocessor, Thermostat for cooling and heating	
Sound Absorbing Thermal Insulation Material			Foamed polystyrene	Foamed polystyrene
Air Filter			Resin Net(washable)	Resin Net(washable)
Safety Device			Fuse	Fuse
Pipe Connections	Liquid Side	mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas Side	mm (inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)
	Drain Pipe(ID)	mm (inch)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	9.2(20.2)	9.2(20.2)
	Shipping	kg (lbs)	12.6(27.7)	12.6(27.7)
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28
Sound Power Levels (H / M / L)		dB(A)	54 / 53 / 52	54 / 53 / 52
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60
Refrigerant Control			EEV	EEV
Transmission cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Color			Mirror	Mirror

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

2. Specifications

Type			ARTCOOL Mirror	
Model		Unit	ARNU09GSJR4	ARNU12GSJR4
Cooling Capacity		kW	2.8	3.6
		kcal/h	2,400	3,100
		Btu/h	9,600	12,300
Heating Capacity		kW	3.2	4.0
		kcal/h	2,800	3,400
		Btu/h	10,900	13,600
Power Input (H / M / L)		W	13 / 12 / 9	15 / 13 / 11
Dimensions (W×H×D)	Body	mm	837 × 308 × 192	837 × 308 × 192
		inch	32-15/16 × 12-1/8 × 7-9/16	32-15/16 × 12-1/8 × 7-9/16
	Shipping	mm	909 × 383 × 256	909 × 383 × 256
		inch	35-25/32 × 15-3/32 × 10-3/32	35-25/32 × 15-3/32 × 10-3/32
Coil	Rows × Columns × FPI		2 × 15 × 19	2 × 15 × 19
	Face Area	m²	0.19	0.19
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output × Number	W	30 × 1	30 × 1
	Running Current	A	0.25	0.25
	Air Flow Rate(H / M / L)	m³/min	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8
		ft³/min	275 / 254 / 208	300 / 254 / 240
	Drive		Direct	Direct
	Motor type		BLDC	BLDC
Temperature Control			Microprocessor, Thermostat for cooling and heating	
Sound Absorbing Thermal Insulation Material			Foamed polystyrene	Foamed polystyrene
Air Filter			Resin Net(washable)	Resin Net(washable)
Safety Device			Fuse	Fuse
Pipe Connections	Liquid Side	mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas Side	mm (inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)
	Drain Pipe(ID)	mm (inch)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	9.2(20.2)	9.2(20.2)
	Shipping	kg (lbs)	12.6(27.7)	12.6(27.7)
Sound Pressure Levels (H / M / L)		dB(A)	34 / 32 / 28	37 / 34 / 30
Sound Power Levels (H / M / L)		dB(A)	55 / 54 / 52	55 / 54 / 53
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60
Refrigerant Control			EEV	EEV
Transmission cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Color			Mirror	Mirror

Note

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Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
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 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

2. Specifications

Type			ARTCOOL Mirror
Model		Unit	ARNU15GSJR4
Cooling Capacity		kW	4.5
		kcal/h	3,900
		Btu/h	15,400
Heating Capacity		kW	5.0
		kcal/h	4,300
		Btu/h	17,100
Power Input (H / M / L)		W	23 / 18 / 11
Dimensions (W×H×D)	Body	mm	837 × 308 × 192
		inch	32-15/16 × 12-1/8 × 7-9/16
	Shipping	mm	909 × 383 × 256
		inch	35-25/32 × 15-3/32 × 10-3/32
Coil	Rows × Columns × FPI		2 × 15 × 19
	Face Area	m²	0.19
Fan	Type		Cross Flow Fan
	Motor Output × Number	W	30 × 1
	Running Current	A	0.25
	Air Flow Rate(H / M / L)	m³/min	10.5 / 9.5 / 6.8
		ft³/min	371 / 336 / 240
	Drive		Direct
Motor type		BLDC	
Temperature Control			Microprocessor, Thermostat for cooling and heating
Sound Absorbing Thermal Insulation Material			Foamed polystyrene
Air Filter			Resin Net(washable)
Safety Device			Fuse
Pipe Connections	Liquid Side	mm (inch)	Ø 6.35 (1/4)
	Gas Side	mm (inch)	Ø 12.7 (1/2)
	Drain Pipe(ID)	mm (inch)	16 (5/8)
Weight	Body	kg (lbs)	9.2(20.2)
	Shipping	kg (lbs)	12.6(27.7)
Sound Pressure Levels (H / M / L)		dB(A)	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	58 / 56 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50
			1, 220, 60
Refrigerant Control			EEV
Transmission cable		mm²	1.0 ~ 1.5 × 2C
Color			Mirror

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Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
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 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

2. Specifications

Type			ARTCOOL Mirror	
Model		Unit	ARNU18GSKR4	ARNU24GSKR4
Cooling Capacity		kW	5.6	7.1
		kcal/h	4,800	6,100
		Btu/h	19,100	24,200
Heating Capacity		kW	6.3	7.5
		kcal/h	5,400	6,400
		Btu/h	21,500	25,600
Power Input (H / M / L)		W	32 / 26 / 16	39 / 26 / 16
Dimensions (W×H×D)	Body	mm	998 × 345 × 212	998 × 345 × 212
		inch	39-9/32 × 13-19/32 × 8-11/32	39-9/32 × 13-19/32 × 8-11/32
	Shipping	mm	1,080 × 422 × 281	1,080 × 422 × 281
		inch	42-17/32 × 16-5/8 × 11-1/16	42-17/32 × 16-5/8 × 11-1/16
Coil	Rows × Columns × FPI		2 × 16 × 20	2 × 16 × 20
	Face Area	m²	0.25	0.25
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output × Number	W	58 × 1	58 × 1
	Running Current	A	0.52	0.52
	Air Flow Rate(H / M / L)	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
		ft³/min	494 / 424 / 371	537 / 449 / 371
	Drive		Direct	Direct
Motor type		BLDC	BLDC	
Temperature Control			Microprocessor, Thermostat for cooling and heating	
Sound Absorbing Thermal Insulation Material			Foamed polystyrene	Foamed polystyrene
Air Filter			Resin Net(washable)	Resin Net(washable)
Safety Device			Fuse	Fuse
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88(5/8)
	Drain Pipe(ID)	mm (inch)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	13.4(29.5)	13.4(29.5)
	Shipping	kg (lbs)	17.6(38.8)	17.6(38.8)
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	63 / 57 / 54	65 / 60 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60
Refrigerant Control			EEV	EEV
Transmission cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Color			Mirror	Mirror

Note

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Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

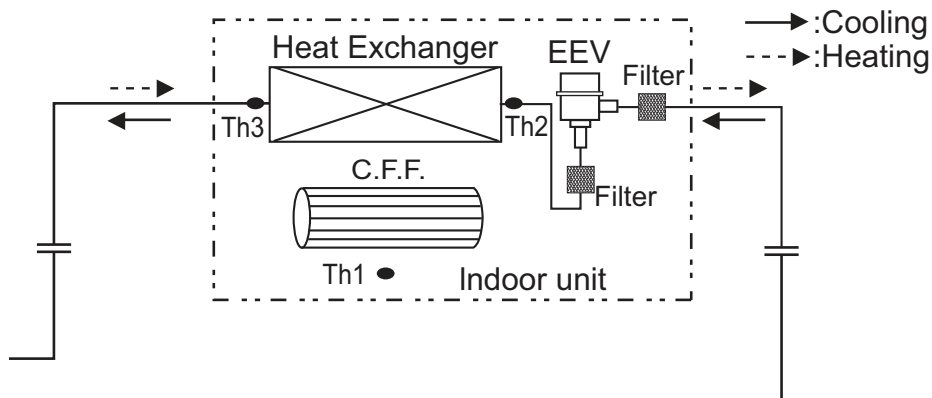
**[SJ Chassis] ARNU05GSJR4 / ARNU07GSJR4 / ARNU09GSJR4 / ARNU12GSJR4
ARNU15GSJR4**



[SK Chassis] ARNU18GSKR4 / ARNU24GSKR4



4. Piping Diagrams



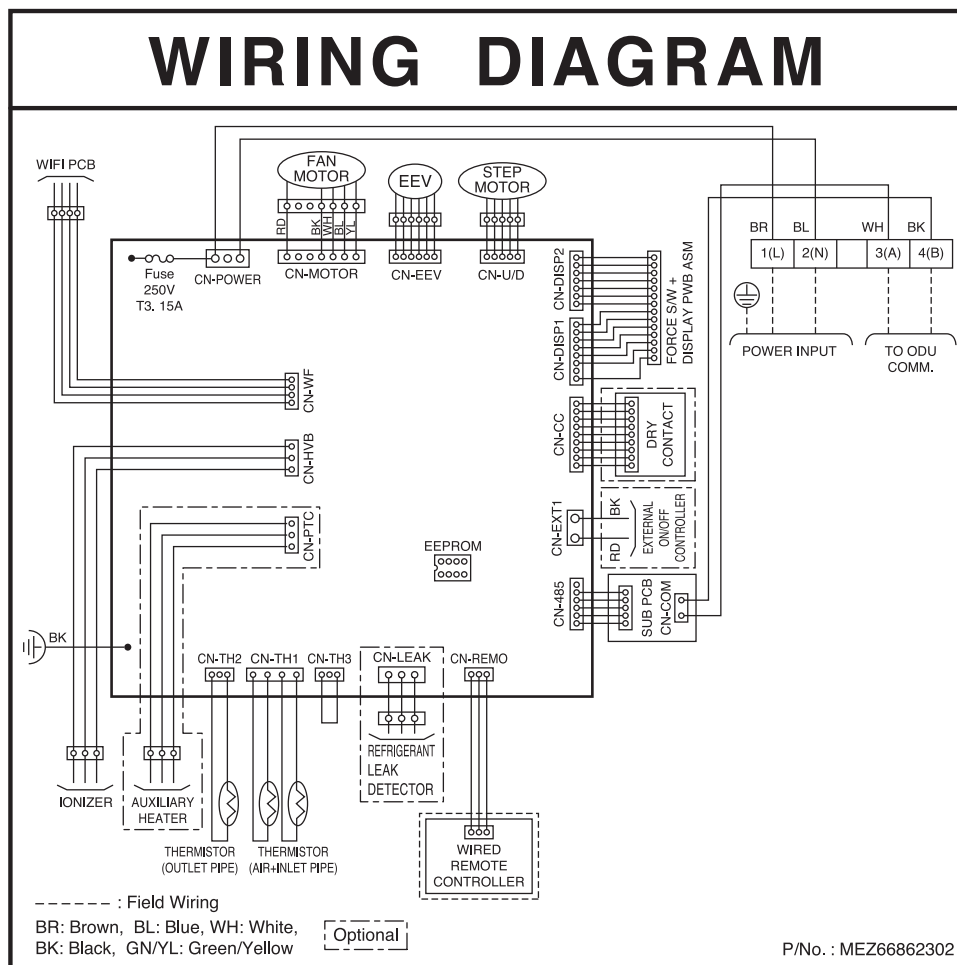
◆ Refrigerant pipe connection port diameter

Model	Gas [mm(inch)]	Liquid [mm(inch)]
ARNU05GSJR4	Ø12.7(1/2)	Ø6.35(1/4)
ARNU07GSJR4	Ø12.7(1/2)	Ø6.35(1/4)
ARNU09GSJR4	Ø12.7(1/2)	Ø6.35(1/4)
ARNU12GSJR4	Ø12.7(1/2)	Ø6.35(1/4)
ARNU15GSJR4	Ø12.7(1/2)	Ø6.35(1/4)
ARNU18GSKR4	Ø12.7(1/2)	Ø6.35(1/4)
ARNU24GSKR4	Ø15.88(5/8)	Ø9.52(3/8)

LOC.	Description
Th1	Room thermistor
Th2	Pipe in thermistor
Th3	Pipe out thermistor

5. Wiring Diagrams

■ SJ/SK Chassis



CONNECTOR NUMBER	LOCATION POINT	FUNCTION
CN-POWER	AC Power supply	AC Power line input for indoor
CN-MOTOR	Fan motor output	Motor output of BLDC
CN-485	Communication	Connection between indoor
CN-DISP1	Display	Display of indoor status
CN-DISP2	Display	Display of indoor status
CN-EEV	EEV output	EEV control output
CN-U/D	Step motor	Step motor output
CN-TH1	Room/inlet pipe sensor	Room and inlet pipe thermistor
CN-TH2	Outlet pipe sensor	Outlet pipe thermistor
CN-REMO	Remote controller	Remote control line
CN-CC	Dry contact	Dry contact line
CN-EXT1	External On/Off	External On/Off signal input
CN-LEAK	Refrigerant leak detector	Refrigerant leak detector line
CN-PTC	Auxiliary heater	Auxiliary heater line
CN-WF	WIFI module	WIFI module connection line
CN-HVB	Ionizer module	Ionizer connection line

6. Capacity Tables

6.1 Cooling Capacity

Capacity Index	Outdoor air temp. (DB, °C)	Indoor air temp. (DB/WB, °C)													
		20		23		26		27		28		30		32	
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1.6	10	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.1	1.5
	12	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.1	1.5
	14	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.1	1.5
	16	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.0	1.5
	18	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.0	1.5
	20	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.0	1.4
	21	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	2.0	1.4
	23	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	1.9	1.4
	25	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.9	1.5	1.9	1.4
	27	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.8	1.5	1.9	1.4
	29	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.8	1.5	1.8	1.3
	31	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.8	1.4	1.8	1.3
	33	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.8	1.4	1.8	1.3
	35	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.5	1.7	1.4	1.8	1.3
2.2	37	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.7	1.4	1.7	1.4	1.7	1.3
	39	1.1	1.1	1.3	1.3	1.5	1.4	1.6	1.4	1.6	1.4	1.7	1.3	1.7	1.2
	10	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.9	1.9
	12	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.9	1.9
	14	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.8	1.9
	16	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.8	1.8
	18	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.7	1.8
	20	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.7	1.8
	21	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.7	1.8
	23	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.6	1.8
	25	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.6	1.9	2.6	1.7
	27	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.5	1.9	2.6	1.7
	29	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.5	1.8	2.5	1.7
	31	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.5	1.8	2.5	1.6
2.8	33	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.4	1.8	2.4	1.6
	35	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.4	1.9	2.4	1.8	2.4	1.6
	37	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.3	1.8	2.3	1.7	2.4	1.6
	39	1.5	1.5	1.8	1.6	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.7	2.4	1.5
	10	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.7	2.2
	12	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.6	2.2
	14	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.6	2.2
	16	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.5	2.2
	18	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.5	2.2
	20	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.4	2.1
	21	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.4	2.1
	23	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.3	3.4	2.1
	25	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.3	2.2	3.3	2.0
	27	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.2	2.2	3.3	2.0
3.6	29	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.2	2.2	3.2	2.0
	31	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.2	2.1	3.2	2.0
	33	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.1	2.1	3.1	1.9
	35	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.0	2.1	3.1	1.9
	37	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	2.9	2.1	3.0	2.0	3.0	1.9
	39	1.9	1.7	2.2	1.9	2.6	2.1	2.8	2.1	2.8	2.1	2.9	2.0	3.0	1.8
	10	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.7	2.7
	12	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.7	2.7
	14	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.6	2.7
	16	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.6	2.6
	18	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.5	2.6
	20	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.4	2.6
	21	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.4	2.6
	23	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.8	4.3	2.5
	25	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.3	2.7	4.3	2.5
	27	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.2	2.7	4.2	2.5
	29	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.1	2.6	4.2	2.4
	31	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.1	2.6	4.1	2.4
	33	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	4.0	2.6	4.0	2.3
	35	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.9	2.7	3.9	2.5	4.0	2.3
	37	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.8	2.6	3.8	2.5	3.9	2.3
	39	2.4	2.1	2.9	2.3	3.3	2.5	3.6	2.6	3.7	2.5	3.8	2.4	3.9	2.2

6. Capacity Tables

Capacity Index	Outdoor air temp. (DB, °C)	Indoor air temp. (DB/WB, °C)													
		20		23		26		27		28		30		32	
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
4.5	10	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.9	3.4
	12	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.8	3.4
	14	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.8	3.4
	16	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.7	3.3
	18	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.6	3.3
	20	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.5	3.2
	21	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.5	3.2
	23	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.4	3.5	5.4	3.2
	25	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.3	3.4	5.3	3.1
	27	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.2	3.4	5.3	3.1
	29	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.1	3.3	5.2	3.0
	31	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	5.1	3.2	5.1	3.0
	33	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	4.9	3.2	5.0	2.9
	35	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.8	3.4	4.9	3.2	4.9	2.9
5.6	37	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.1	4.9	2.8
	39	3.0	2.7	3.6	2.9	4.2	3.2	4.5	3.2	4.6	3.2	4.7	3.0	4.8	2.8
	10	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	7.3	4.2
	12	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	7.3	4.2
	14	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	7.2	4.1
	16	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	7.1	4.1
	18	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	6.9	4.1
	20	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	6.9	4.0
	21	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	6.9	4.0
	23	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.7	4.3	6.7	3.9
	25	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.6	4.2	6.6	3.8
	27	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.5	4.1	6.5	3.8
	29	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.4	4.1	6.5	3.7
	31	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.3	4.0	6.4	3.7
7.1	33	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.2	4.0	6.2	3.6
	35	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	6.0	4.1	6.1	3.9	6.2	3.6
	37	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	5.8	4.0	5.9	3.8	6.1	3.5
	39	3.8	3.3	4.5	3.6	5.2	3.9	5.6	4.0	5.7	3.9	5.8	3.7	6.0	3.4
	10	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	9.3	5.3
	12	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	9.2	5.3
	14	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	9.1	5.2
	16	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	9.0	5.1
	18	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	8.8	5.1
	20	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	8.7	5.0
	21	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	8.7	5.0
	23	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.5	5.4	8.5	4.9
	25	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.4	5.3	8.4	4.8
	27	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.2	5.2	8.3	4.8
	29	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.1	5.1	8.2	4.7
7.1	31	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	8.0	5.0	8.1	4.6
	33	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	7.8	5.0	7.9	4.5
	35	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.6	5.2	7.7	4.9	7.8	4.5
	37	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.4	5.0	7.5	4.8	7.7	4.4
	39	4.8	4.1	5.7	4.5	6.6	4.9	7.1	5.0	7.2	4.9	7.4	4.7	7.6	4.3

Note

1. TC: Total Capacity(kW), SHC: Sensible Heat Capacity(kW)
2. Capacity tables show the average value of conditions which may occur.
3. Refer to Capacity tables and correction factor in the outdoor unit PDB for the actual performance data of each indoor unit and outdoor unit combination.

6. Capacity Tables

6.2 Heating Capacity

Capacity Index	Outdoor air temp.		Indoor air temp. (DB, °C)					
	DB(°C)	WB(°C)	16	18	20	21	22	24
			TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
1.6	-24.8	-25.0	1.0	1.0	1.0	1.0	1.0	1.0
	-21.8	-22.0	1.3	1.3	1.3	1.3	1.3	1.2
	-19.8	-20.0	1.3	1.3	1.3	1.3	1.3	1.3
	-18.8	-19.0	1.4	1.3	1.3	1.3	1.3	1.3
	-16.7	-17.0	1.4	1.4	1.4	1.4	1.4	1.4
	-14.7	-15.0	1.5	1.5	1.5	1.5	1.5	1.5
	-12.6	-13.0	1.6	1.6	1.6	1.6	1.5	1.5
	-10.5	-11.0	1.6	1.6	1.6	1.6	1.6	1.6
	-9.5	-10.0	1.7	1.7	1.7	1.7	1.7	1.6
	-8.5	-9.1	1.7	1.7	1.7	1.7	1.7	1.6
	-7.0	-7.6	1.7	1.7	1.7	1.7	1.7	1.6
	-5.0	-5.6	1.8	1.8	1.8	1.7	1.7	1.6
	-3.0	-3.7	1.9	1.8	1.8	1.7	1.7	1.6
	0.0	-0.7	1.9	1.9	1.8	1.7	1.7	1.6
	3.0	2.2	2.0	1.9	1.8	1.7	1.7	1.6
	5.0	4.1	2.0	1.9	1.8	1.7	1.7	1.6
	7.0	6.0	2.0	1.9	1.8	1.7	1.7	1.6
	9.0	7.9	2.0	1.9	1.8	1.7	1.7	1.6
2.2	-24.8	-25.0	1.4	1.4	1.4	1.4	1.4	1.4
	-21.8	-22.0	1.7	1.7	1.7	1.7	1.7	1.7
	-19.8	-20.0	1.8	1.8	1.8	1.8	1.8	1.8
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.0	2.0	2.0	2.0	2.0	2.0
	-14.7	-15.0	2.1	2.1	2.1	2.1	2.1	2.0
	-12.6	-13.0	2.2	2.2	2.2	2.2	2.1	2.1
	-10.5	-11.0	2.3	2.3	2.2	2.2	2.2	2.2
	-9.5	-10.0	2.3	2.3	2.3	2.3	2.3	2.2
	-8.5	-9.1	2.3	2.3	2.3	2.3	2.3	2.2
	-7.0	-7.6	2.4	2.4	2.4	2.4	2.3	2.2
	-5.0	-5.6	2.5	2.5	2.5	2.4	2.3	2.2
	-3.0	-3.7	2.6	2.6	2.5	2.4	2.3	2.2
	0.0	-0.7	2.7	2.6	2.5	2.4	2.3	2.2
	3.0	2.2	2.7	2.7	2.5	2.4	2.3	2.2
	5.0	4.1	2.8	2.7	2.5	2.4	2.3	2.2
	7.0	6.0	2.8	2.7	2.5	2.4	2.3	2.2
	9.0	7.9	2.8	2.7	2.5	2.4	2.3	2.2
2.8	-24.8	-25.0	1.9	1.9	1.8	1.8	1.8	1.8
	-21.8	-22.0	2.2	2.2	2.2	2.2	2.2	2.2
	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
	-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
	-16.7	-17.0	2.5	2.5	2.5	2.5	2.5	2.5
	-14.7	-15.0	2.7	2.7	2.6	2.6	2.6	2.6
	-12.6	-13.0	2.8	2.8	2.8	2.8	2.7	2.7
	-10.5	-11.0	2.9	2.9	2.9	2.9	2.9	2.8
	-9.5	-10.0	3.0	3.0	2.9	2.9	2.9	2.8
	-8.5	-9.1	3.0	3.0	3.0	3.0	3.0	2.8
	-7.0	-7.6	3.1	3.1	3.1	3.1	3.0	2.8
	-5.0	-5.6	3.2	3.2	3.2	3.1	3.0	2.8
	-3.0	-3.7	3.4	3.3	3.2	3.1	3.0	2.8
	0.0	-0.7	3.4	3.3	3.2	3.1	3.0	2.8
	3.0	2.2	3.5	3.4	3.2	3.1	3.0	2.8
	5.0	4.1	3.6	3.4	3.2	3.1	3.0	2.8
	7.0	6.0	3.6	3.4	3.2	3.1	3.0	2.8
	9.0	7.9	3.6	3.4	3.2	3.1	3.0	2.8
	11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
	13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8
	15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8

6. Capacity Tables

Capacity Index	Outdoor air temp.		Indoor air temp. (DB, °C)					
	DB(°C)	WB(°C)	16	18	20	21	22	24
			TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
3.6	-24.8	-25.0	2.3	2.3	2.3	2.3	2.3	2.3
	-21.8	-22.0	2.8	2.8	2.8	2.8	2.8	2.8
	-19.8	-20.0	2.9	2.9	2.9	2.9	2.9	2.9
	-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
	-16.7	-17.0	3.1	3.1	3.1	3.1	3.1	3.1
	-14.7	-15.0	3.3	3.3	3.3	3.3	3.3	3.3
	-12.6	-13.0	3.5	3.4	3.4	3.4	3.4	3.4
	-10.5	-11.0	3.6	3.6	3.6	3.6	3.6	3.5
	-9.5	-10.0	3.7	3.7	3.7	3.7	3.7	3.5
	-8.5	-9.1	3.8	3.8	3.7	3.7	3.7	3.5
	-7.0	-7.6	3.9	3.9	3.9	3.8	3.7	3.5
	-5.0	-5.6	4.0	4.0	4.0	3.9	3.7	3.5
	-3.0	-3.7	4.2	4.1	4.0	3.9	3.7	3.5
	0.0	-0.7	4.3	4.1	4.0	3.9	3.7	3.5
	3.0	2.2	4.4	4.3	4.0	3.9	3.7	3.5
	5.0	4.1	4.5	4.3	4.0	3.9	3.7	3.5
	7.0	6.0	4.5	4.3	4.0	3.9	3.7	3.5
	9.0	7.9	4.5	4.3	4.0	3.9	3.7	3.5
4.5	-24.8	-25.0	2.9	2.9	2.9	2.9	2.9	2.9
	-21.8	-22.0	3.5	3.5	3.5	3.5	3.5	3.5
	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.6
	-18.8	-19.0	3.8	3.7	3.7	3.7	3.7	3.7
	-16.7	-17.0	3.9	3.9	3.9	3.9	3.9	3.9
	-14.7	-15.0	4.1	4.1	4.1	4.1	4.1	4.1
	-12.6	-13.0	4.3	4.3	4.3	4.3	4.3	4.3
	-10.5	-11.0	4.5	4.5	4.5	4.5	4.5	4.4
	-9.5	-10.0	4.6	4.6	4.6	4.6	4.6	4.4
	-8.5	-9.1	4.7	4.7	4.7	4.7	4.7	4.4
	-7.0	-7.6	4.8	4.8	4.8	4.8	4.7	4.4
	-5.0	-5.6	5.0	5.0	5.0	4.8	4.7	4.4
	-3.0	-3.7	5.3	5.1	5.0	4.8	4.7	4.4
	0.0	-0.7	5.3	5.2	5.0	4.8	4.7	4.4
	3.0	2.2	5.5	5.3	5.0	4.8	4.7	4.4
	5.0	4.1	5.6	5.3	5.0	4.8	4.7	4.4
	7.0	6.0	5.6	5.3	5.0	4.8	4.7	4.4
	9.0	7.9	5.6	5.3	5.0	4.8	4.7	4.4
5.6	-24.8	-25.0	3.6	3.6	3.6	3.6	3.6	3.6
	-21.8	-22.0	4.4	4.4	4.4	4.4	4.4	4.4
	-19.8	-20.0	4.6	4.6	4.6	4.6	4.6	4.6
	-18.8	-19.0	4.8	4.7	4.7	4.7	4.7	4.7
	-16.7	-17.0	5.0	5.0	5.0	4.9	4.9	4.9
	-14.7	-15.0	5.2	5.2	5.2	5.2	5.2	5.2
	-12.6	-13.0	5.5	5.4	5.4	5.4	5.4	5.4
	-10.5	-11.0	5.7	5.7	5.7	5.7	5.7	5.5
	-9.5	-10.0	5.8	5.8	5.8	5.8	5.8	5.5
	-8.5	-9.1	5.9	5.9	5.9	5.9	5.9	5.5
	-7.0	-7.6	6.1	6.1	6.1	6.0	5.9	5.5
	-5.0	-5.6	6.3	6.3	6.3	6.1	5.9	5.5
	-3.0	-3.7	6.6	6.5	6.3	6.1	5.9	5.5
	0.0	-0.7	6.7	6.5	6.3	6.1	5.9	5.5
	3.0	2.2	6.9	6.7	6.3	6.1	5.9	5.5
	5.0	4.1	7.0	6.7	6.3	6.1	5.9	5.5
	7.0	6.0	7.1	6.7	6.3	6.1	5.9	5.5
	9.0	7.9	7.1	6.7	6.3	6.1	5.9	5.5
	11.0	9.8	7.1	6.7	6.3	6.1	5.9	5.5
	13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5
	15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5

6. Capacity Tables

Capacity Index	Outdoor air temp.		Indoor air temp. (DB, °C)					
			16	18	20	21	22	24
	DB(°C)	WB(°C)	TC	TC	TC	TC	TC	TC
			kW	kW	kW	kW	kW	kW

7.1	-24.8	-25.0	4.3	4.3	4.3	4.3	4.3	4.3
	-21.8	-22.0	5.2	5.2	5.2	5.2	5.2	5.2
	-19.8	-20.0	5.5	5.5	5.5	5.5	5.5	5.5
	-18.8	-19.0	5.7	5.6	5.6	5.6	5.6	5.6
	-16.7	-17.0	5.9	5.9	5.9	5.9	5.9	5.9
	-14.7	-15.0	6.2	6.2	6.2	6.2	6.2	6.1
	-12.6	-13.0	6.5	6.5	6.5	6.5	6.4	6.4
	-10.5	-11.0	6.8	6.8	6.7	6.7	6.7	6.5
	-9.5	-10.0	6.9	6.9	6.9	6.9	6.9	6.5
	-8.5	-9.1	7.0	7.0	7.0	7.0	7.0	6.5
	-7.0	-7.6	7.3	7.2	7.2	7.2	7.0	6.5
	-5.0	-5.6	7.5	7.5	7.5	7.3	7.0	6.5
	-3.0	-3.7	7.9	7.7	7.5	7.3	7.0	6.5
	0.0	-0.7	8.0	7.8	7.5	7.3	7.0	6.5
	3.0	2.2	8.2	8.0	7.5	7.3	7.0	6.5
	5.0	4.1	8.4	8.0	7.5	7.3	7.0	6.5
	7.0	6.0	8.5	8.0	7.5	7.3	7.0	6.5
	9.0	7.9	8.5	8.0	7.5	7.3	7.0	6.5
	11.0	9.8	8.5	8.0	7.5	7.3	7.0	6.5
	13.0	11.8	8.5	8.0	7.5	7.3	7.0	6.5
	15.0	13.7	8.5	8.0	7.5	7.3	7.0	6.5

Note

1. TC: Total Capacity(kW)
2. Capacity tables show the average value of conditions which may occur.
3. In the range beyond the operation limit of the outdoor unit, continuous operation and performance can not be guaranteed. When selecting the outdoor units, avoid the air temperature range that is not guaranteed continuous operation.
4. In accordance with operation limits of outdoor unit, applicable range of capacity tables is different.
5. Refer to Capacity tables and correction factor in the outdoor unit PDB for the actual performance data of each indoor unit and outdoor unit combination.

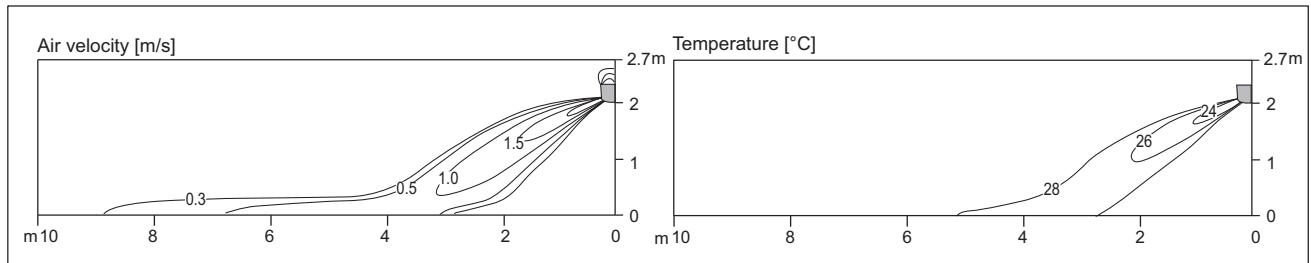
7. Air Velocity and Temperature Distribution

■ ARNU05GSJR4

◆ Cooling

Side View

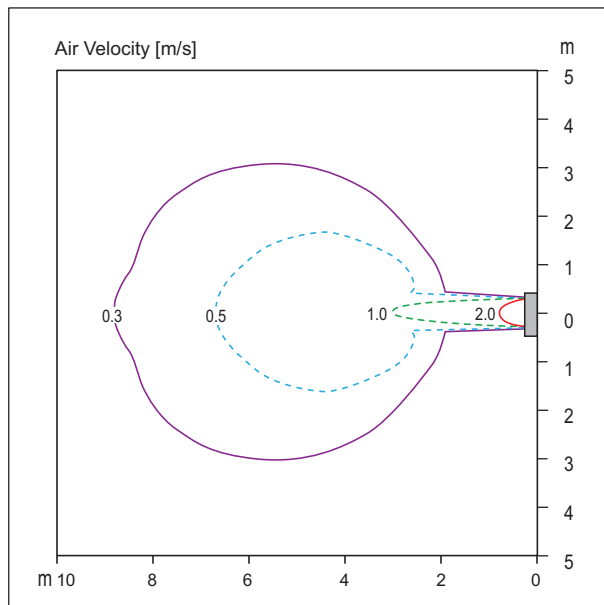
Discharge angle: 35°



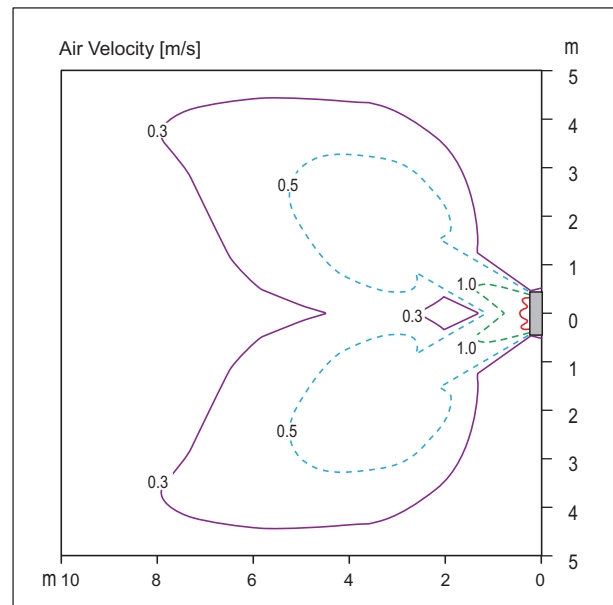
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 8.9m
- Fan speed : High



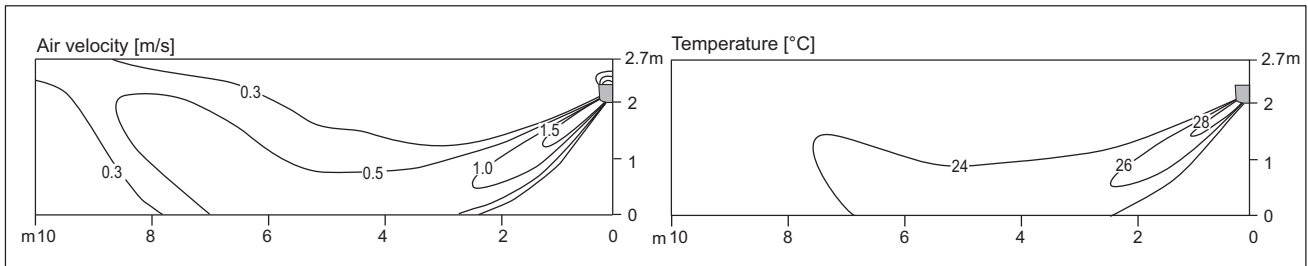
- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 8m
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

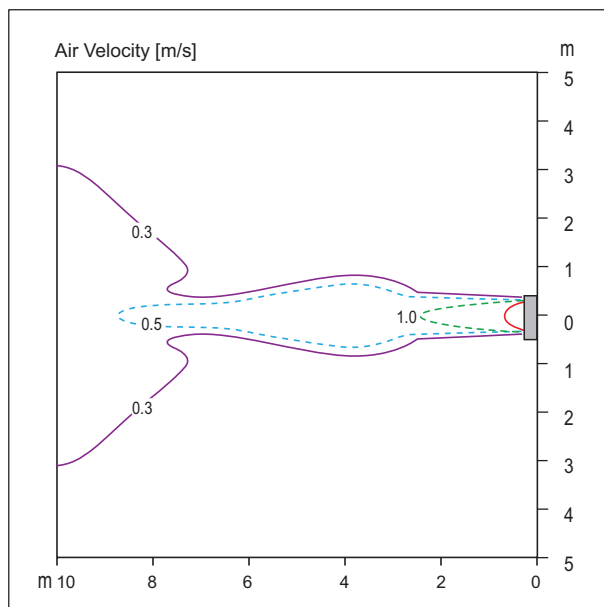
Discharge angle: 55°



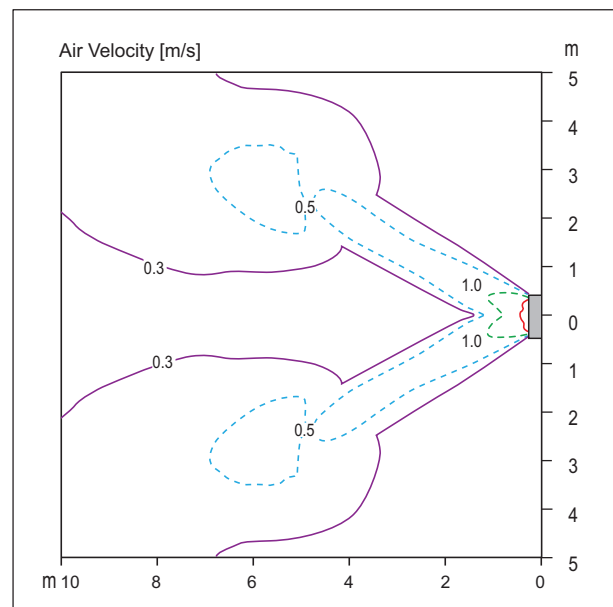
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 11.9m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 12.6m
- Fan speed : High

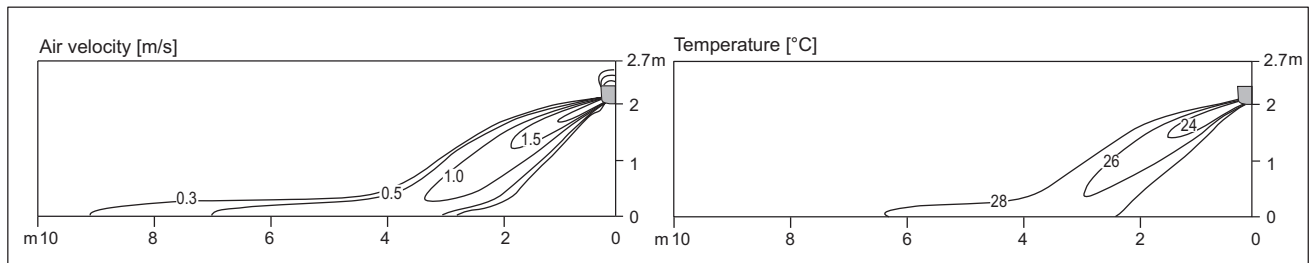
7. Air Velocity and Temperature Distribution

■ ARNU07GSJR4

◆ Cooling

Side View

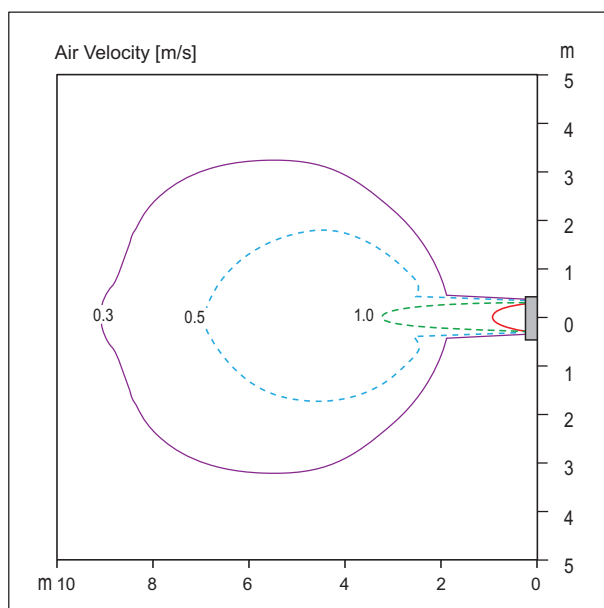
Discharge angle: 35°



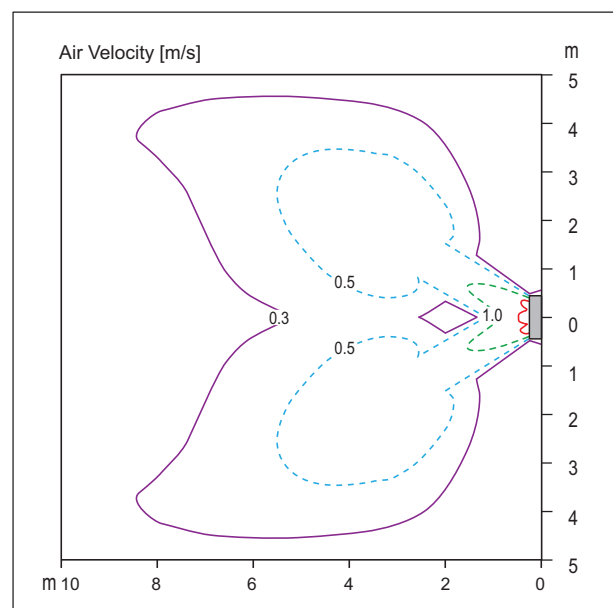
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 9.2m
- Fan speed : High



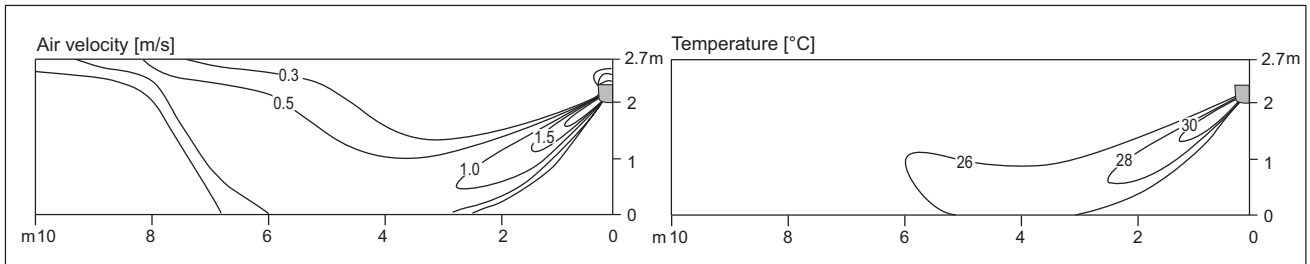
- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 8.4m
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

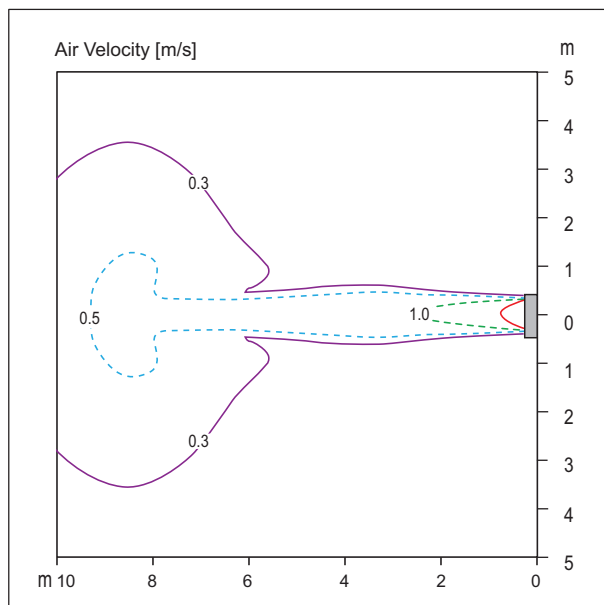
Discharge angle: 55°



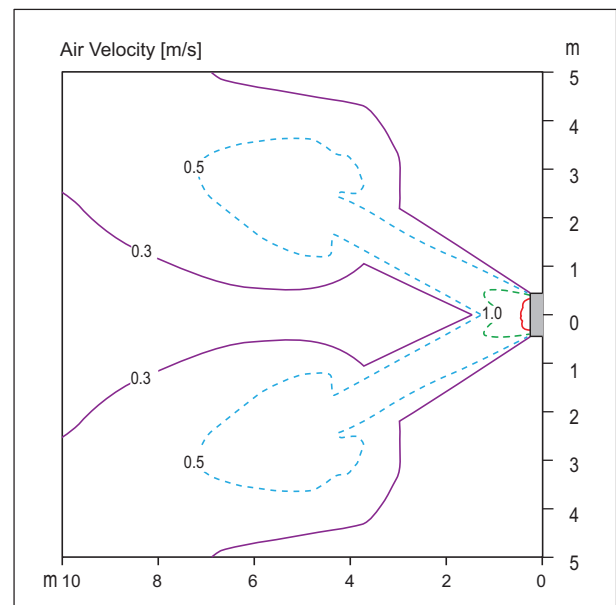
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 11m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 13.2m
- Fan speed : High

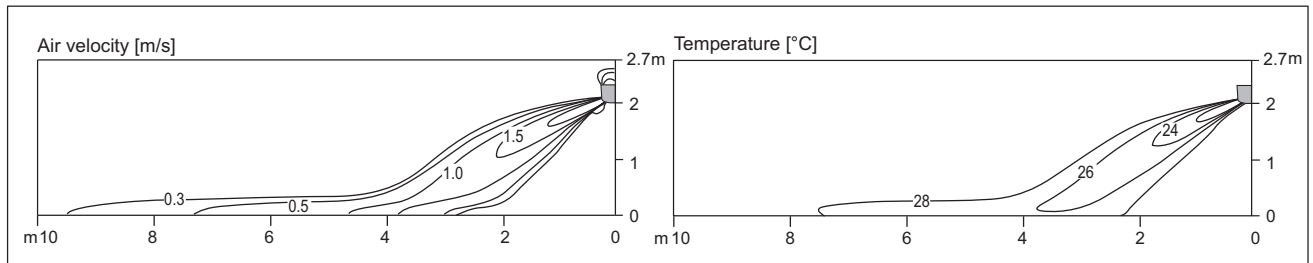
7. Air Velocity and Temperature Distribution

■ ARNU09GSJR4

◆ Cooling

Side View

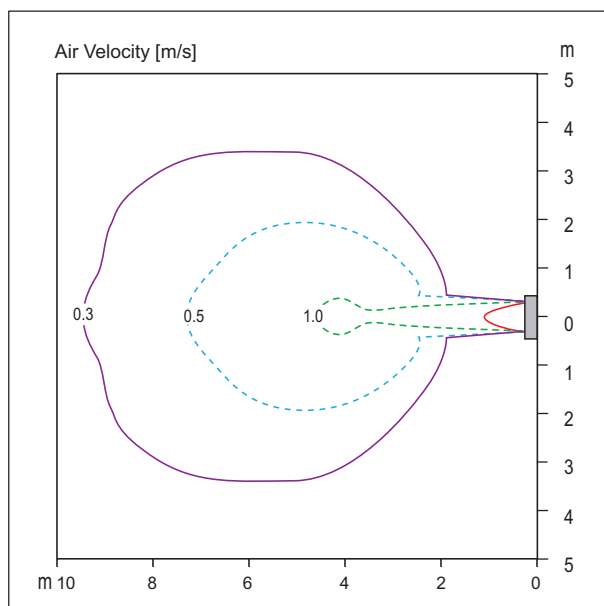
Discharge angle: 35°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

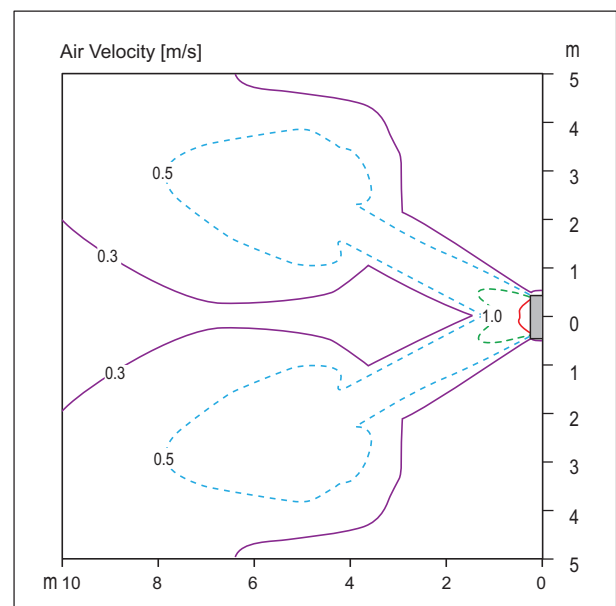
Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 9.6m

- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 14m

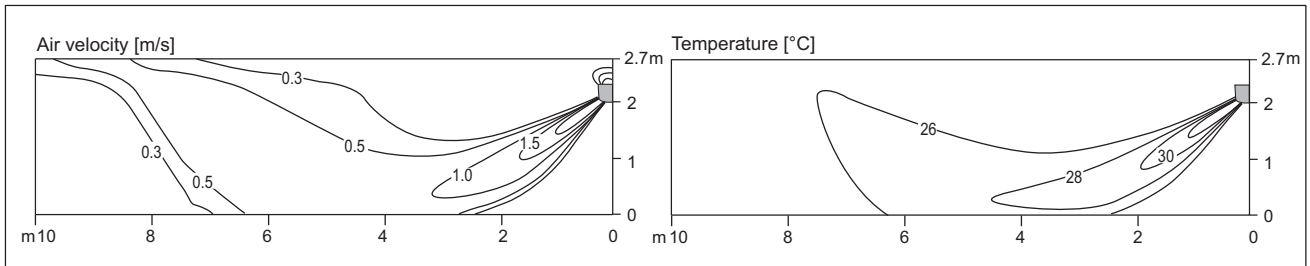
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

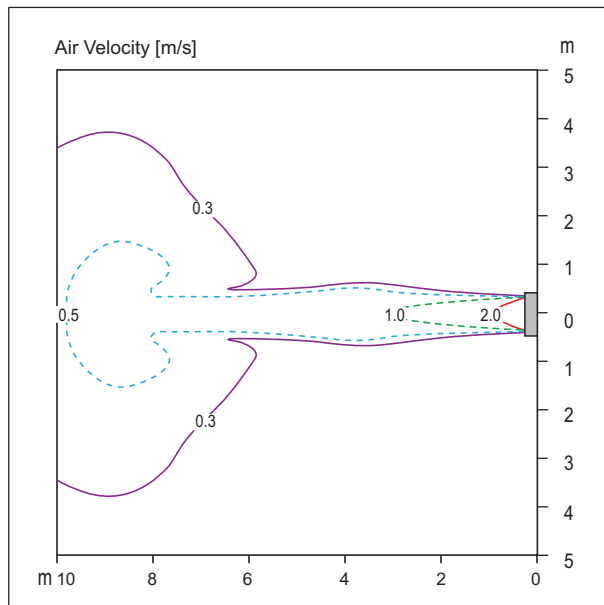
Discharge angle: 55°



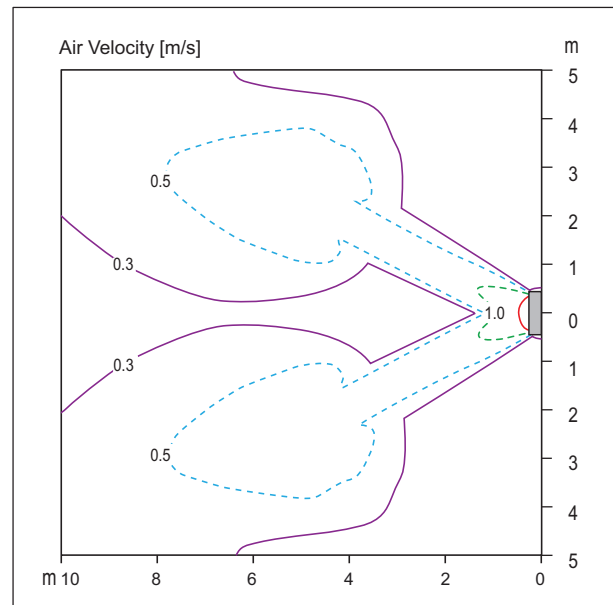
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 11.8m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 14m
- Fan speed : High

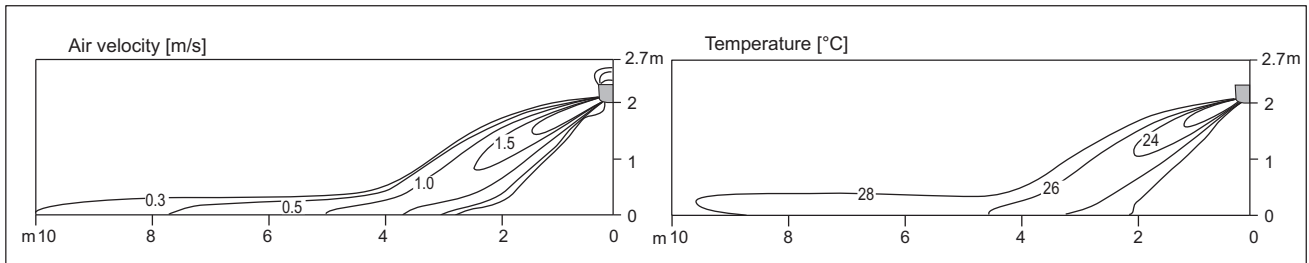
7. Air Velocity and Temperature Distribution

■ ARNU12GSJR4

◆ Cooling

Side View

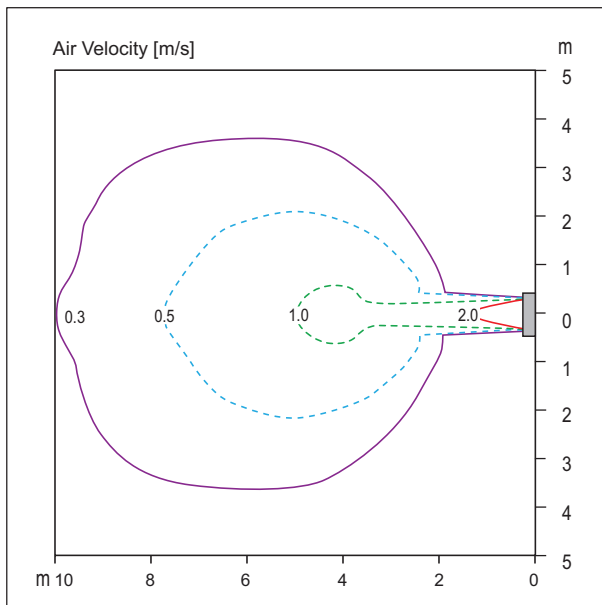
Discharge angle: 35°



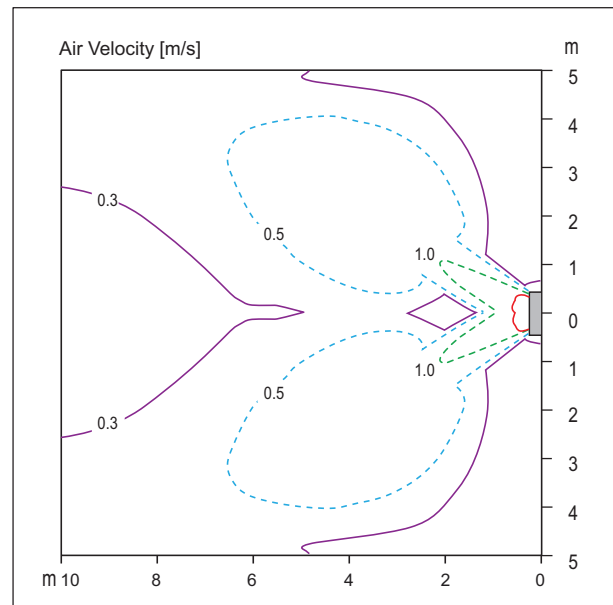
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 10m
- Fan speed : High



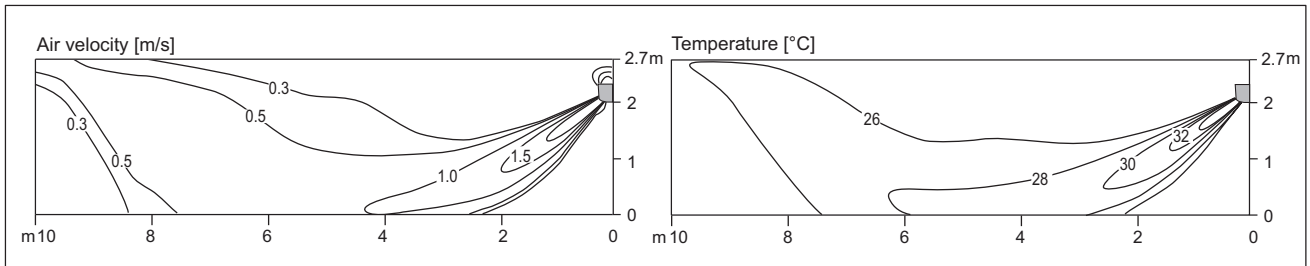
- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 14.3m
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

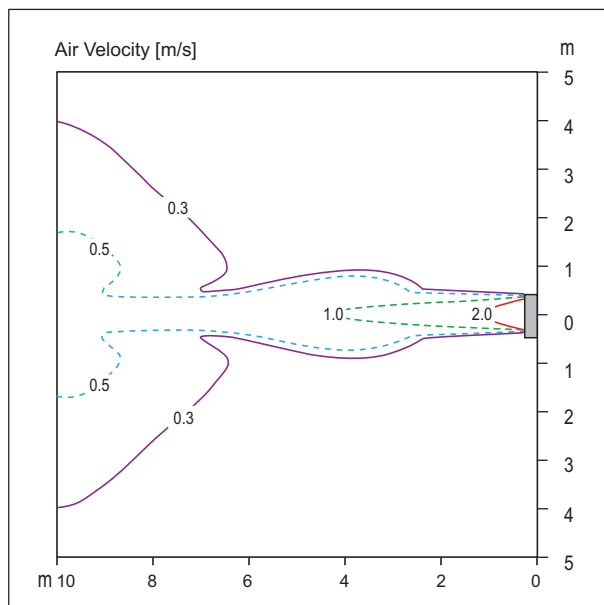
Discharge angle: 55°



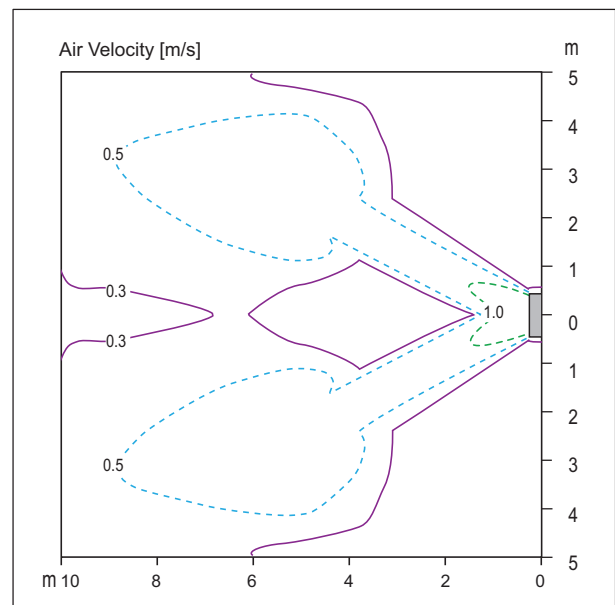
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 13m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 14.3m
- Fan speed : High

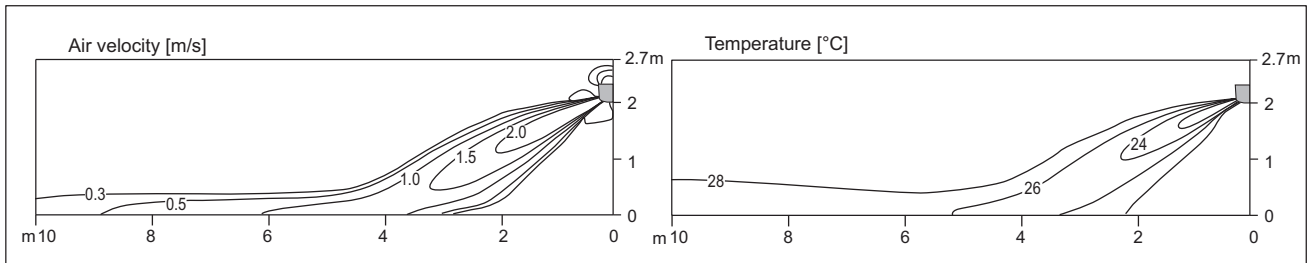
7. Air Velocity and Temperature Distribution

■ ARNU15GSJR4

◆ Cooling

Side View

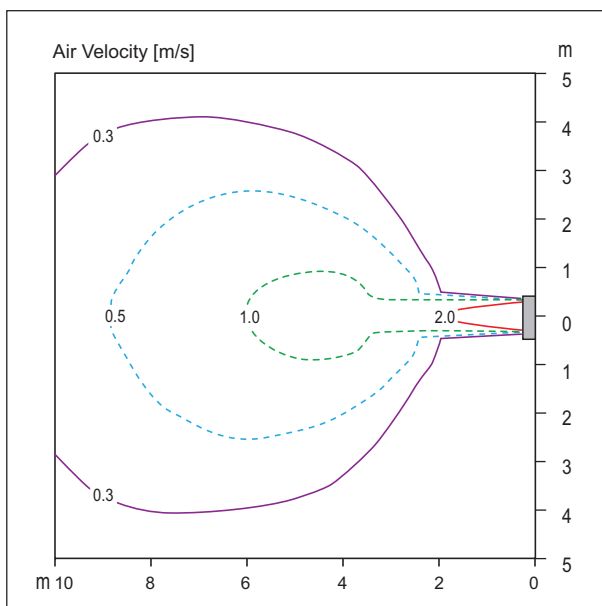
Discharge angle: 35°



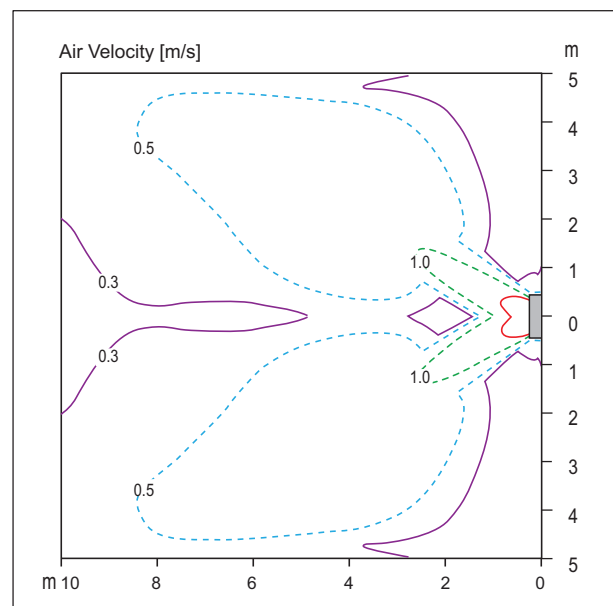
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 11.5m
- Fan speed : High



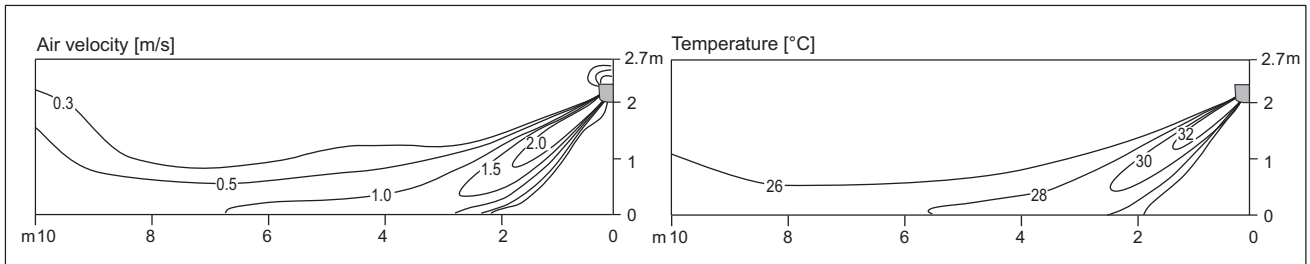
- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 16.7m
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

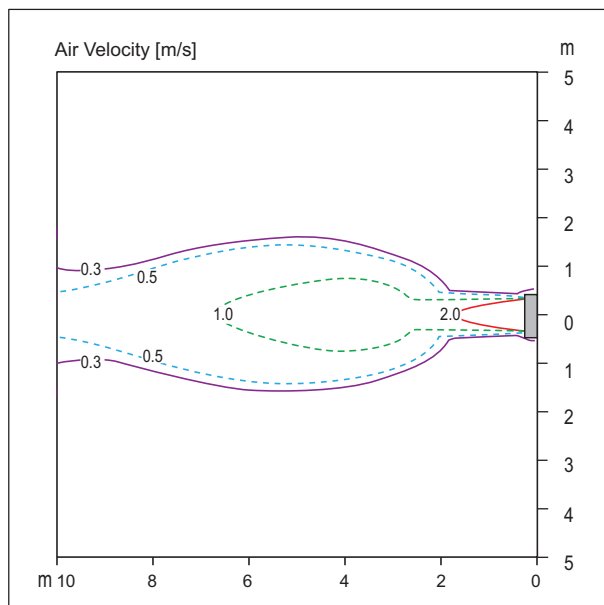
Discharge angle: 55°



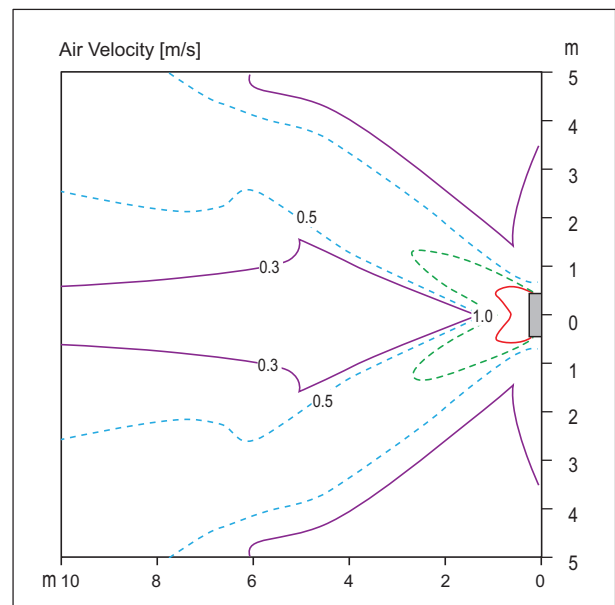
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 18m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 18.8m
- Fan speed : High

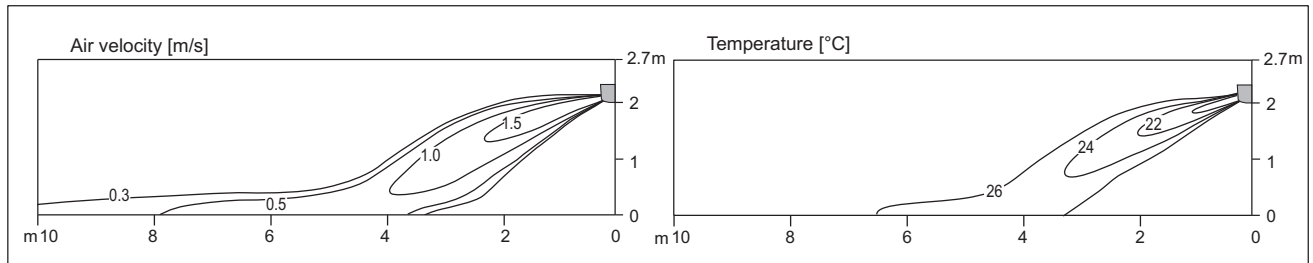
7. Air Velocity and Temperature Distribution

■ ARNU18GSKR4

◆ Cooling

Side View

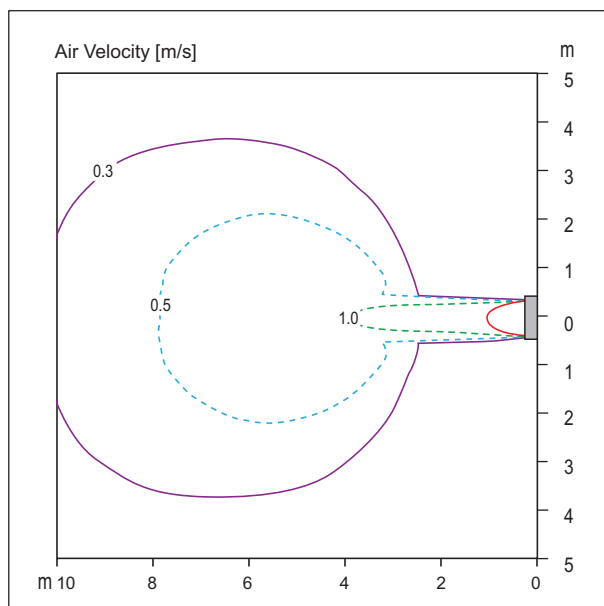
Discharge angle: 25°



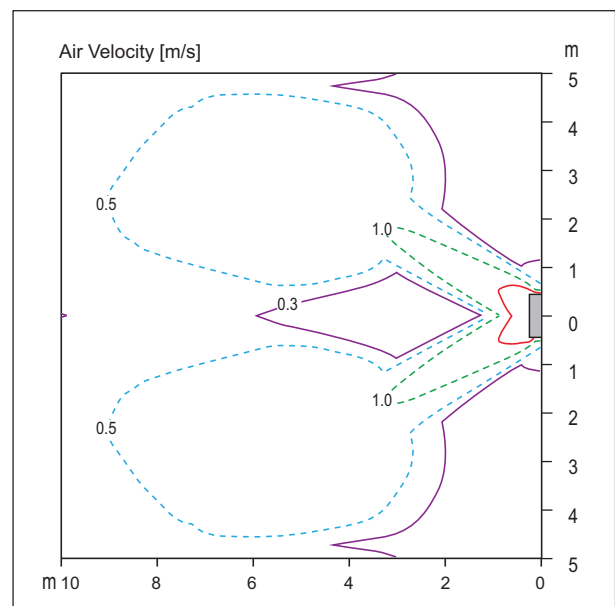
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 25°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 10.4m
- Fan speed : High



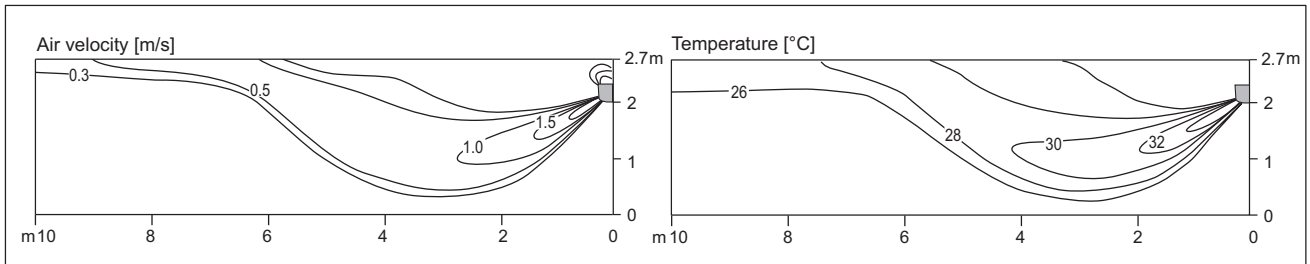
- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 15.2m
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

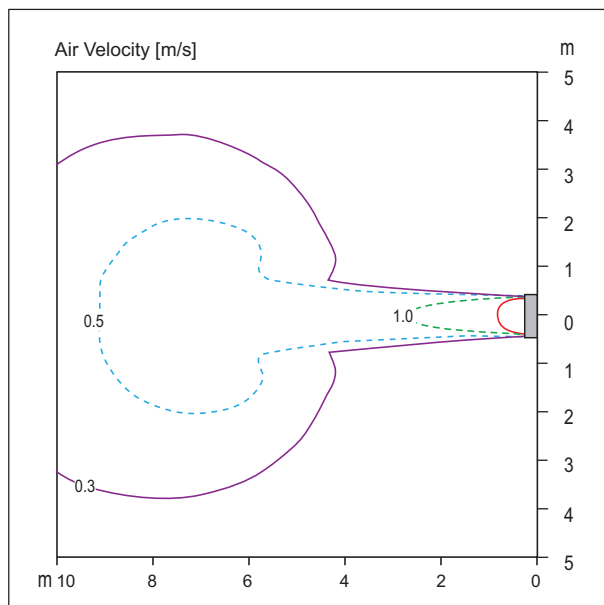
Discharge angle: 45°



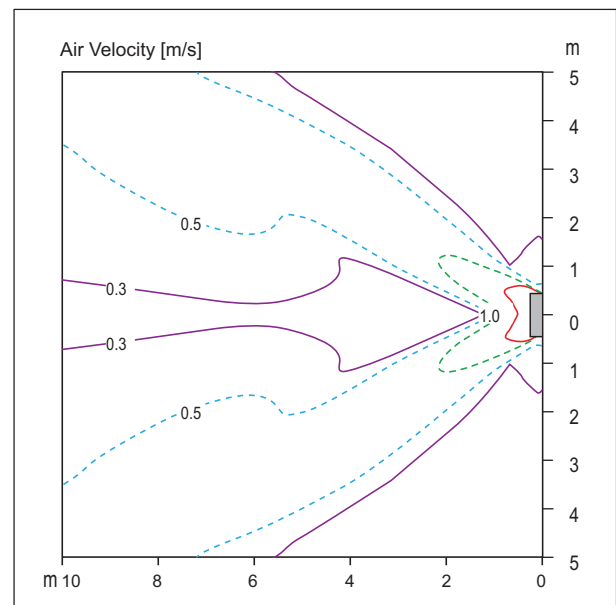
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 45°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 11.6m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 18.2m
- Fan speed : High

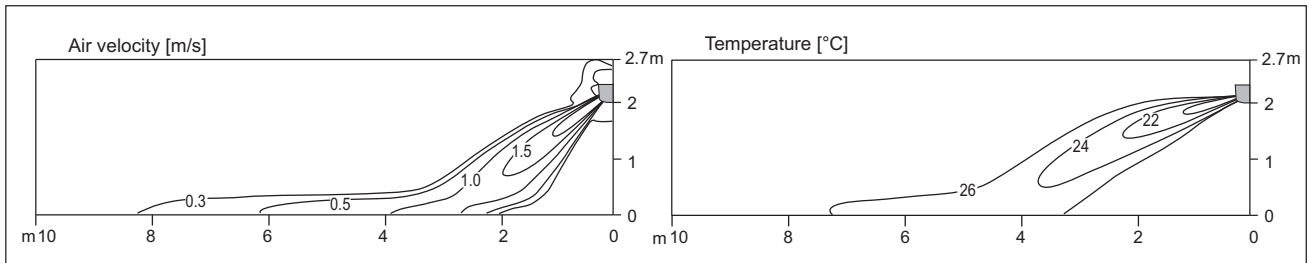
7. Air Velocity and Temperature Distribution

■ ARNU24GSKR4

◆ Cooling

Side View

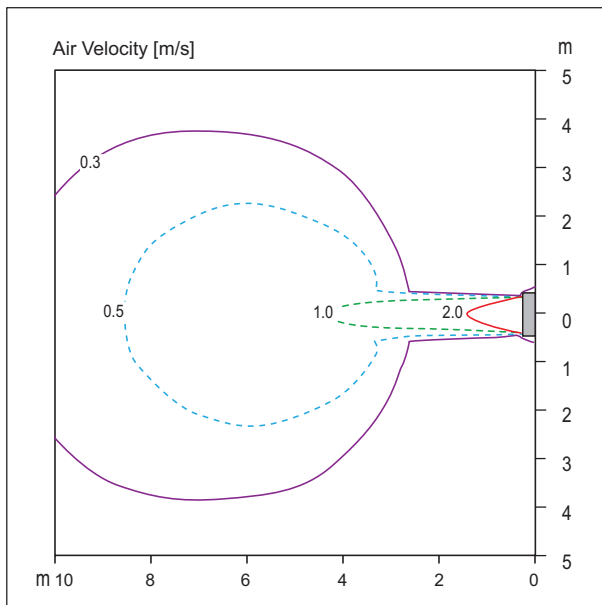
Discharge angle: 25°



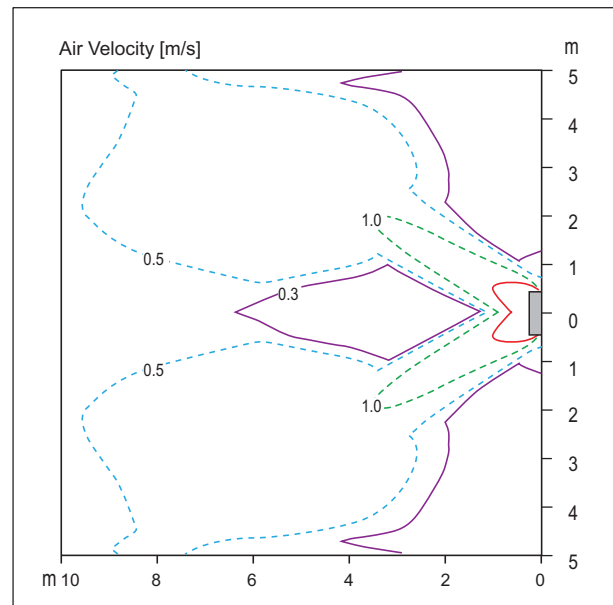
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 25°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 11.2m
- Fan speed : High



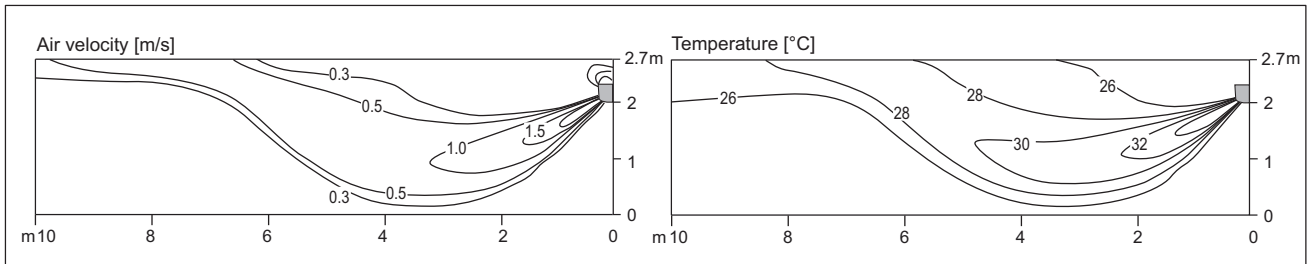
- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 16.5m
- Fan speed : High

7. Air Velocity and Temperature Distribution

◆ Heating

Side View

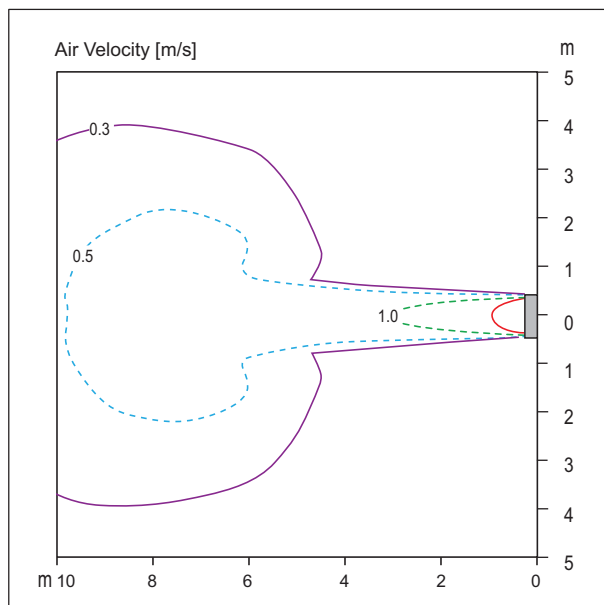
Discharge angle: 45°



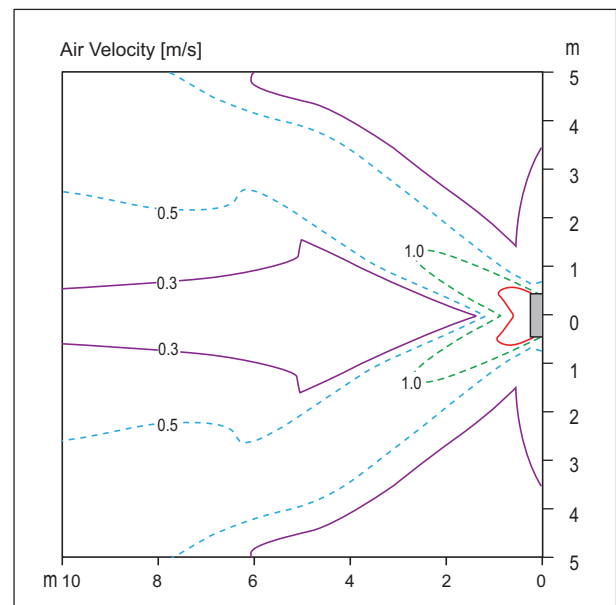
- Vertical Louver : Center
- Vertical Louver angle : 0°
- Fan speed : High

Top View

Discharge angle: 45°



- Vertical Louver : Center
- Vertical Louver angle : 0°
- Air speed 0.3m/s Range : 12.1m
- Fan speed : High



- Vertical Louver : Left & Right
- Vertical Louver angle : 50°
- Air speed 0.3m/s Range : 15.2m
- Fan speed : High

8. Electric Characteristics

Units					Power supply		IFM		PI	
Model	Type	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
ARNU05GSJR4	SJ	50	220-240	Max: 264 Min: 198	0.31	15	0.030	0.25	30.0	30.0
ARNU07GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU09GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU12GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU15GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU18GSKR4	SK				0.65	15	0.058	0.52	53.0	53.0
ARNU24GSKR4	SK				0.65	15	0.058	0.52	53.0	53.0
ARNU05GSJR4	SJ	60	220	Max: 242 Min: 198	0.31	15	0.030	0.25	30.0	30.0
ARNU07GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU09GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU12GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU15GSJR4	SJ				0.31	15	0.030	0.25	30.0	30.0
ARNU18GSKR4	SK				0.65	15	0.058	0.52	53.0	53.0
ARNU24GSKR4	SK				0.65	15	0.058	0.52	53.0	53.0

Symbols

MCA : Minimum Circuit Amperes (A)

MFA : Maximum Fuse Amperes (A)

kW : Fan Motor Rated Output (kW)

FLA : Full Load Amperes (A)

IFM : Indoor Fan Motor

PI : Maximum Power Input (W)

Note

1. Voltage range

Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above the listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

$MCA = 1.25 \times FLA$

$MFA \leq 4 \times FLA$

(Next lower standard fuse rating. Minimum 15A)

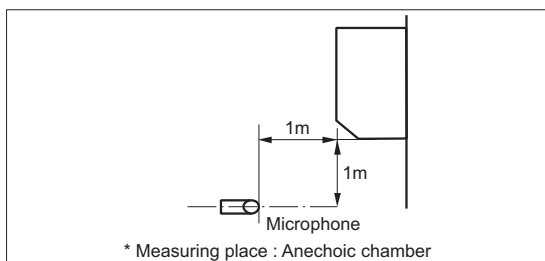
4. Select wire size based on the MCA

5. Instead of fuse, use Circuit Breaker.

9. Sound Levels

9.1 Sound Pressure Levels

Overall

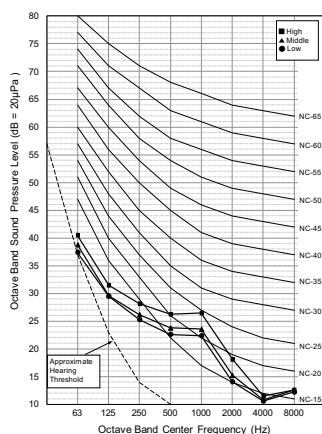


Note

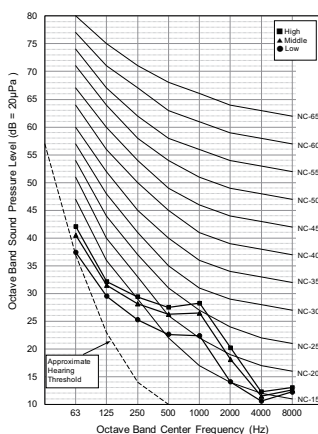
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions (Power source and Ambient temperature, etc)
5. Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
6. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

Model	Sound Pressure Levels [dB(A)]		
	High	Middle	Low
ARNU05GSJR4	30	29	28
ARNU07GSJR4	32	30	28
ARNU09GSJR4	34	32	28
ARNU12GSJR4	37	34	30
ARNU15GSJR4	42	39	32
ARNU18GSKR4	43	39	34
ARNU24GSKR4	46	41	34

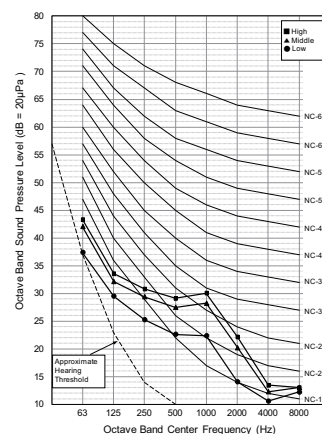
ARNU05GSJR4



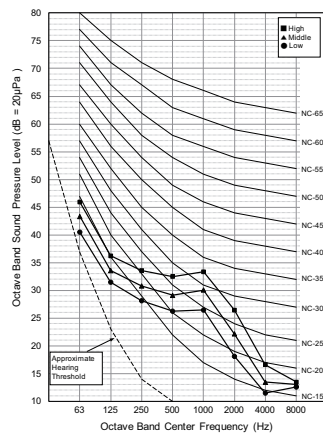
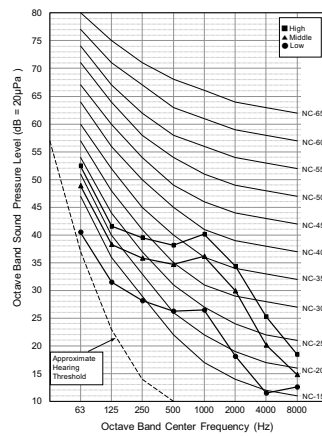
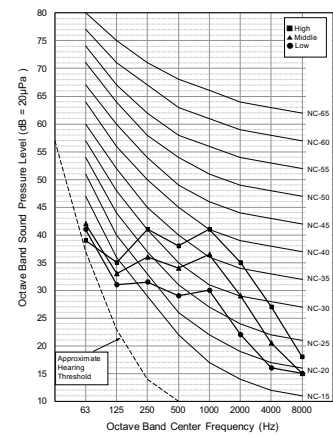
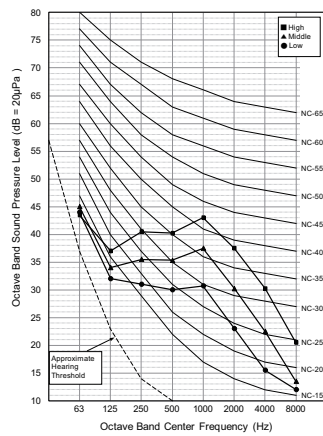
ARNU07GSJR4



ARNU09GSJR4



9. Sound Levels

ARNU12GSJR4**ARNU15GSJR4****ARNU18GSKR4****ARNU24GSKR4**

9. Sound Levels

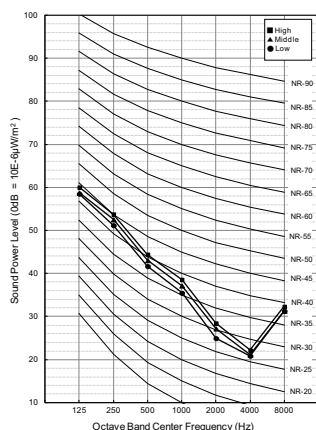
9.2 Sound Power Levels

Note

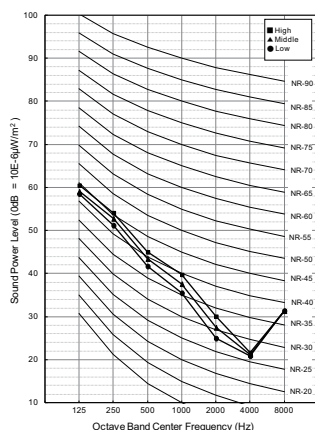
- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$

Model	Sound Power Levels [dB(A)]		
	High	Middle	Low
ARNU05GSJR4	54	53	52
ARNU07GSJR4	54	53	52
ARNU09GSJR4	55	54	52
ARNU12GSJR4	55	54	53
ARNU15GSJR4	58	56	54
ARNU18GSKR4	63	57	54
ARNU24GSKR4	65	60	54

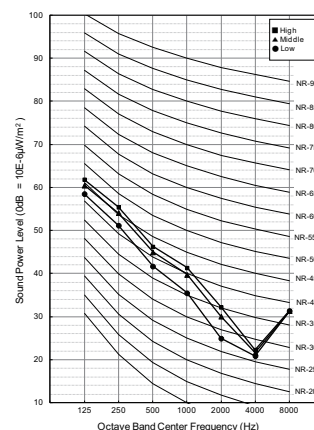
ARNU05GSJR4



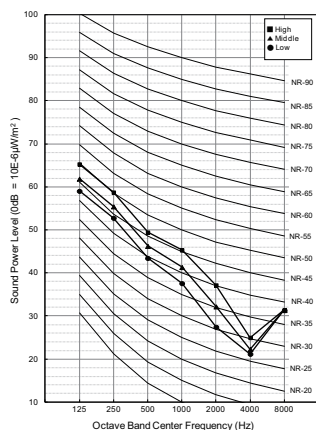
ARNU07GSJR4



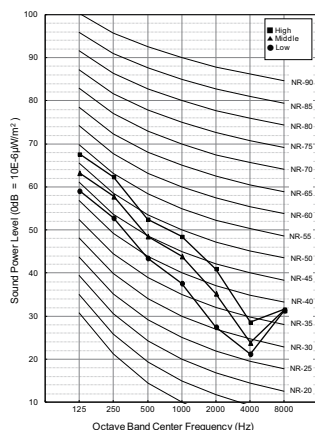
ARNU09GSJR4



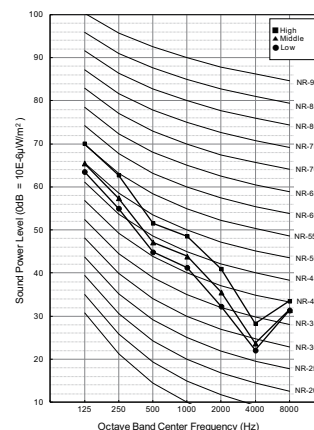
ARNU12GSJR4



ARNU15GSJR4

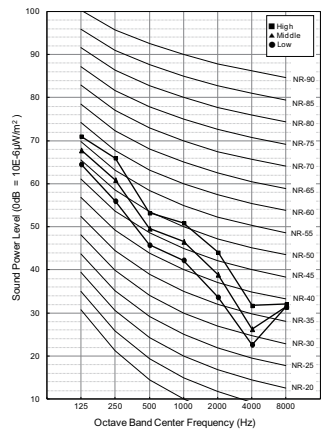


ARNU18GSKR4



9. Sound Levels

ARNU24GSKR4

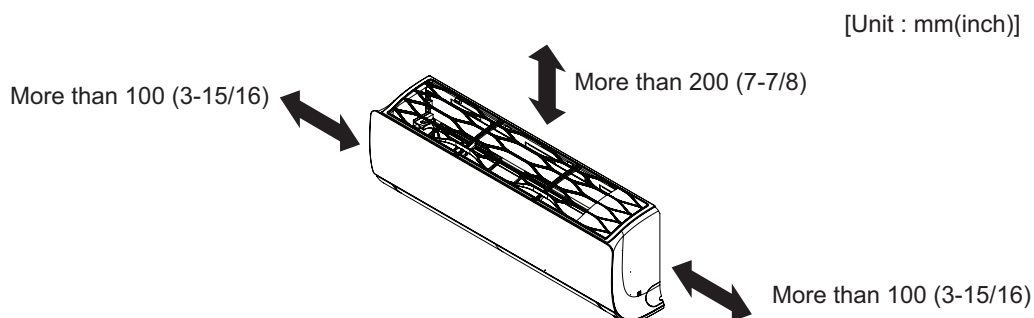


10. Installation

- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)

10.1 Selection of the best location

- The place where room air circulation is good.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient.
- There should not be any heat source or steam near the unit.

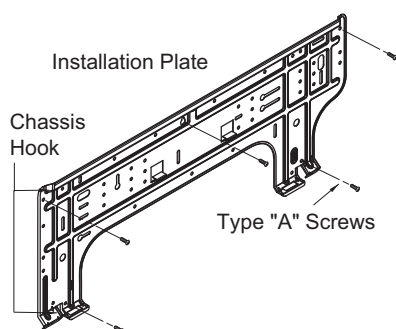


10. Installation

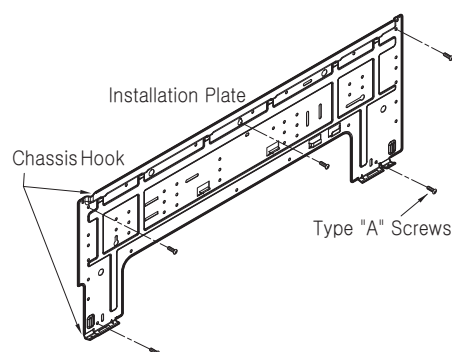
■ Fixing Installation Plate

- The wall you select should be strong and solid enough to prevent vibration.
 - Mount the installation plate on the wall with type "A" screws which are provided with product. (Refer to the Installation manual.) If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter.
 - Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.

SJ Chassis

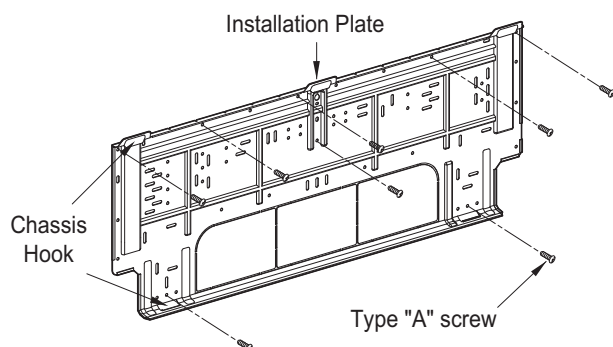


SK Chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

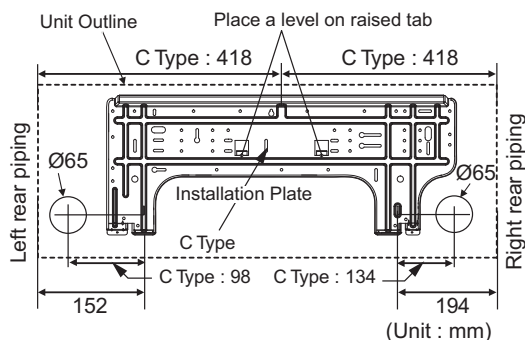
SV Chassis



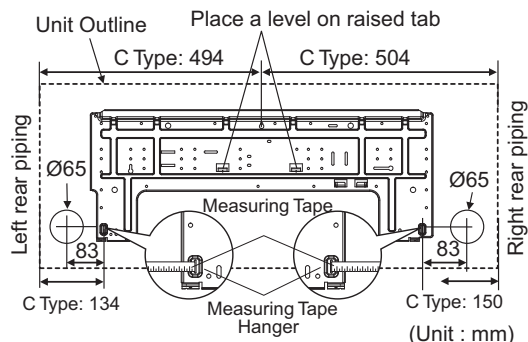
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ The lower left and the right side piping of Installation Plate

SJ chassis



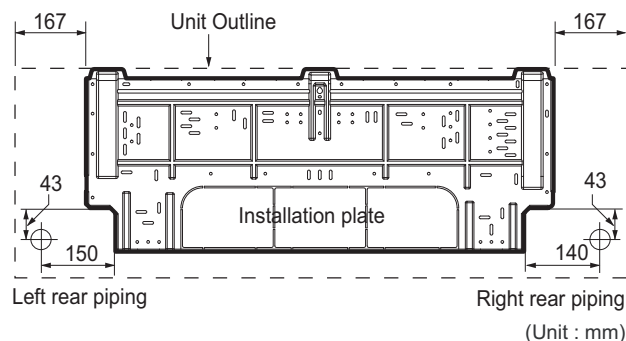
SK chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

10. Installation

SV chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

CAUTION

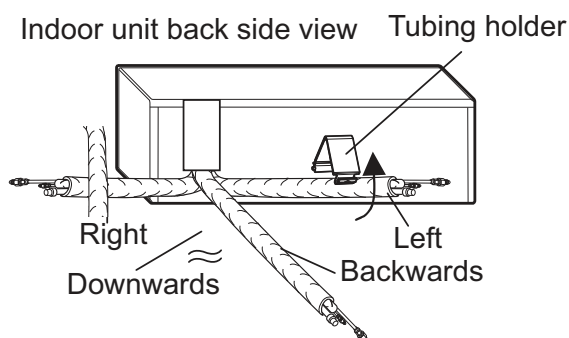
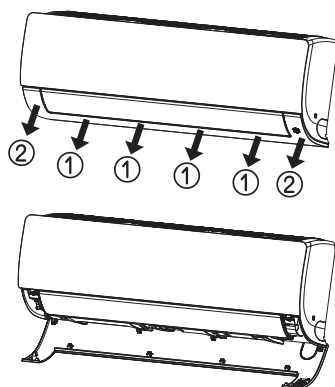
In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

10.2 Connection of pipes and cables

10.2.1 Preparing work for installation

■ SJ/SK chassis

1. Pull the cover at the bottom of the indoor unit. Pull the cover ①→②.
2. Remove the chassis cover from the unit.
3. Pull back the tubing holder.
4. Remove pipe port cover and positioning the tubing.



※ The feature can be changed according to type of model.

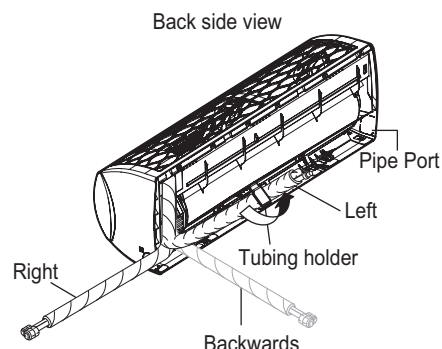
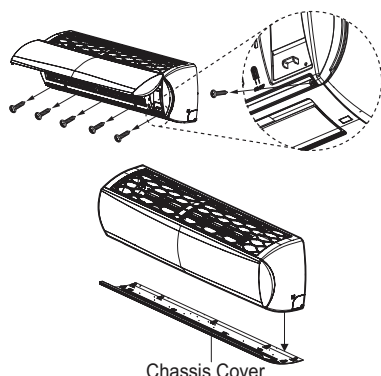
* The feature can be changed according to type of model.

* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ SV chassis

1. Open the panel of the indoor unit.
2. Remove the chassis cover from the unit by loosening 5 screws.
3. Pull back the tubing holder.
4. Remove pipe port cover and position the piping.

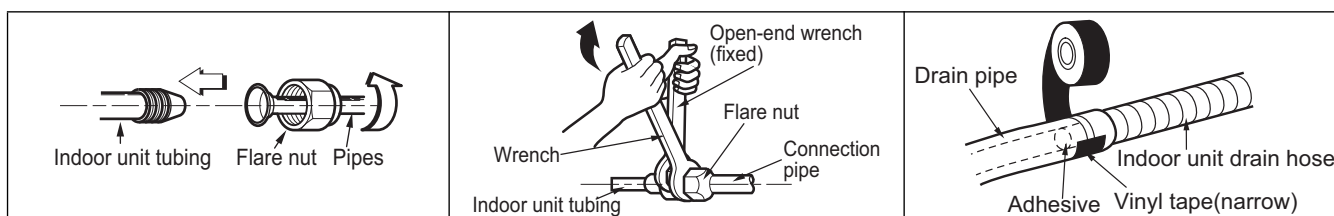
10. Installation



* The feature can be changed according to type of model.

* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

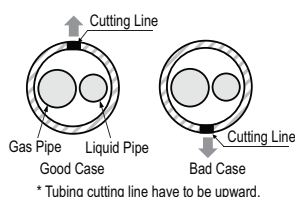
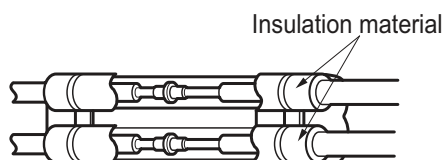
■ Connecting the installation pipe and drain hose



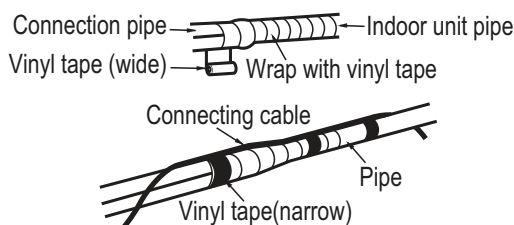
1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.
3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing.

■ Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Set the tubing cutting line upward. Wrap the area which accommodates the rear piping housing section with vinyl tape.
3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.



* Tubing cutting line have to be upward.



⚠ CAUTION

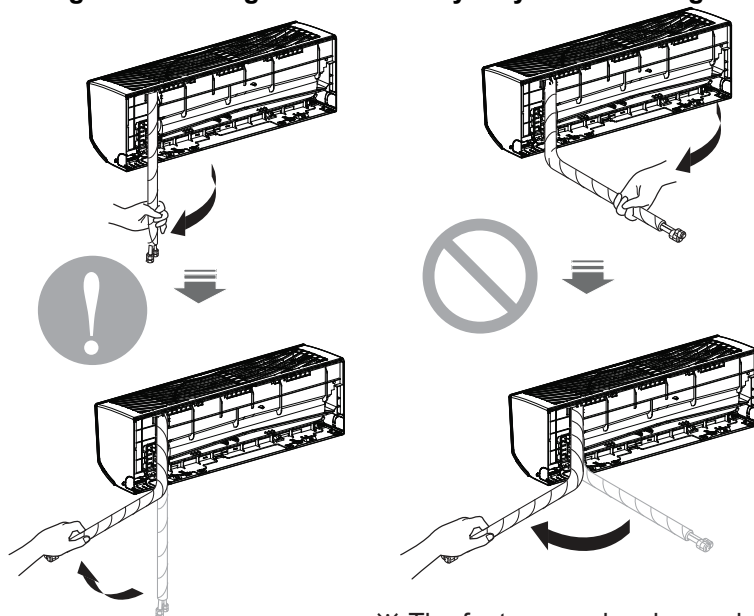
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

10. Installation

* Foamed polyethylene or equivalent is recommended.

⚠ CAUTION

- Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.
- Following bending case from right to left directly may cause damage to the tubing.



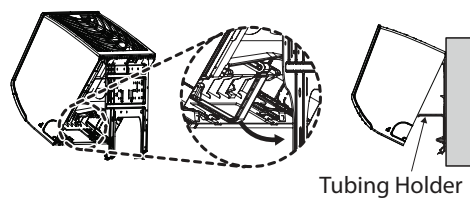
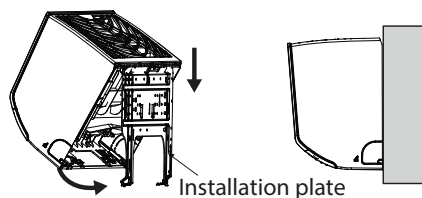
※ The feature can be changed according to type

- Installation Information. For right piping. Follow the instruction above.

10.2.2 Installation of Indoor Unit

■ Seat the indoor unit on the installation plate

1. Hook the indoor unit onto the upper portion of the installation plate.(engage the three hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right
2. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall.

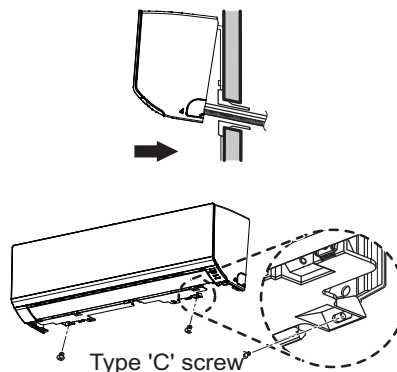


* The feature can be changed according to type of model.

10. Installation

10.2.3 Finishing the indoor unit installation

1. Mount the tubing holder in the original position.
2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
4. Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover. (SJ/SK chassis) Recover the chassis cover in Original place. (SV chassis)



* The feature can be changed according to type of model.

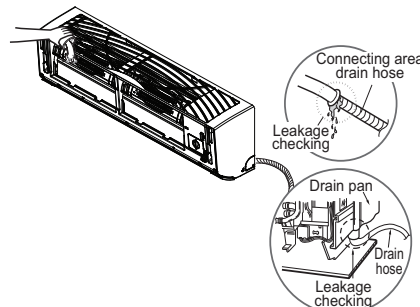
CAUTION

- The indoor unit can be dropped from the wall, the indoor unit is not screwed correct position on the install plate.
- To avoid the gap between the indoor unit and wall , screw the indoor unit to the install plate correctly.

10.2.4 Checking the Drainage

◆ To check the drainage.

1. Pour a glass of water on the evaporator.
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

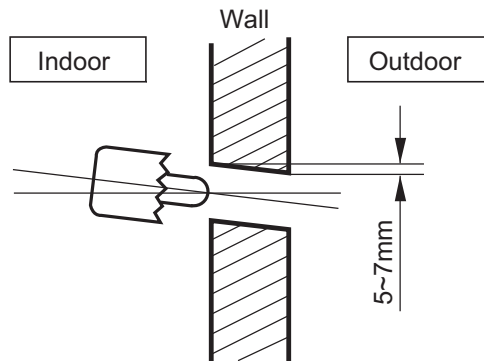


* The feature can be changed according to type of model.

10. Installation

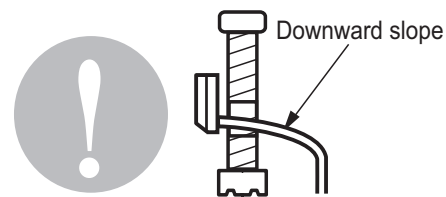
◆ Drill a Hole in the wall

1. Drill the piping hole with a $\varnothing 70\text{mm}$ hole core drill.
Drill the piping hole at either the right or the left with the holes slightly slanted to the outdoor side.

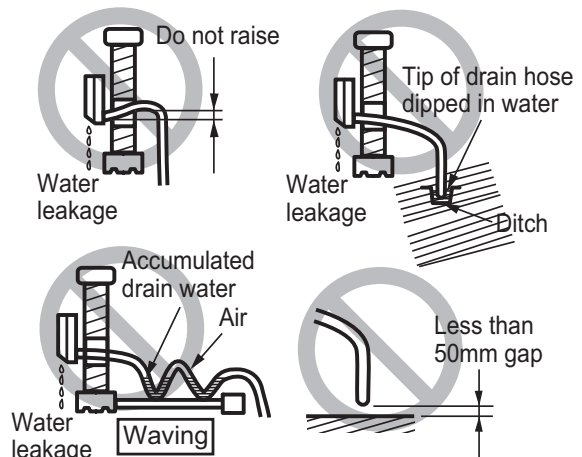


◆ Drain Piping

1. The drain hose should point downward for easy drain flow



2. Do not make drain piping like the following.



* The feature can be changed according to type of model.

10.3 Wiring the cable to the indoor units

10.3.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
- Follow the **"WIRING DIAGRAM"** attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.

⚠ CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

10. Installation

- Never fail to have separate power specially for the air conditioner.
 - Provide a circuit breaker switch between power source and the unit.
 - Confirm the Specification of power source.
 - Confirm that electrical capacity is sufficient.
 - Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
 - Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
 - Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
 - The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.
-

10.3.2 Wiring connection

- Connect the wires to the terminals on the control board and visually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

10.3.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the 0.75mm² cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

WARNING

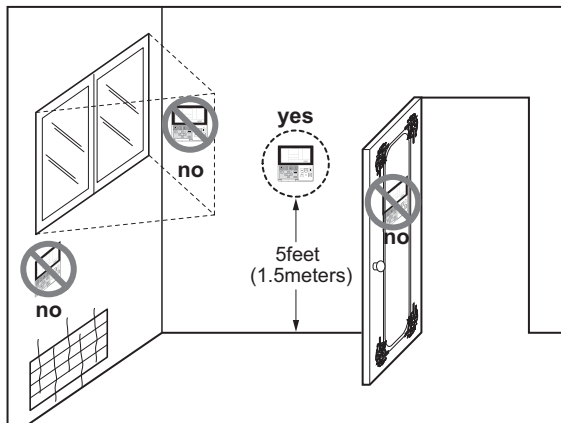
- Make sure that the screws of the terminal are fixed tightly.
 - The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
 - Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
 - When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
 - Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.
-

10.3.4 Wired Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

10. Installation

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• **Do not install the remote controller where it can be affected by :**

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)