

ARTCOOL (Gallery)

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1. List of functions

Category	Function	ARNU07GSF14, ARNU09GSF14, ARNU12GSF14
Air flow	Air supply outlet	3
	Airflow direction control(left & right)	X
	Airflow direction control(up & down)	Auto
	Auto swing(left & right)	X
	Auto swing(up & down)	O
	Airflow steps(fan/cool/heat)	3 / 4 / 3
	Chaos swing	X
	Chaos wind(auto wind)	O
	Jet cool(Power wind)	O
	Swirl wind	-
Air purifying	Deodorizing filter	X
	Plasma air purifier	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
Individual control	Wide wired remote controller (RS2)	PQRCVSL0/PQRCVSL0QW
	Wide wired remote controller (RS2 Plus)	PREMTB001/PREMTBB01
	Premium wired remote controller	PREMTA000/PREMTA000A/PREMTA000B
	Simple wired remote controller	PQRCVCL0Q(W)
	Wired remote controller(for hotel use)	PQRCHCA0Q(W)
	Wireless LCD remote control	PQWRH(C)Q0FDB
Special function kit	Zone control	-
	CTIE	-
	Electro thermostat	-
	Remote temperature sensor	-
	Group control wire	PZCWRCG3
	Dry contact	PDRYCB000/PDRYCB300/PDRYCB400/PDRYCB500

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.

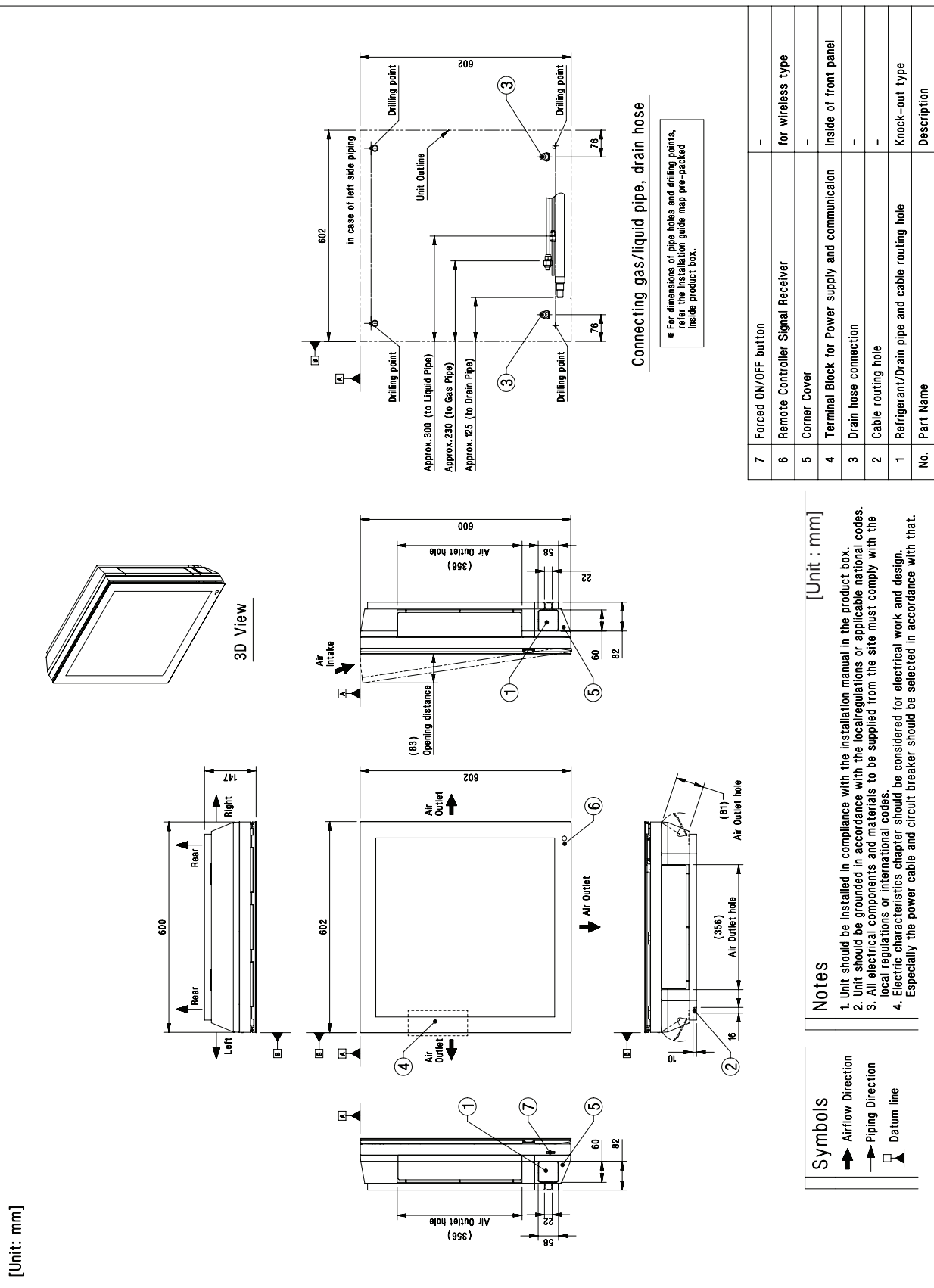
2. Specifications

Type			ARTCOOL Gallery	
Model		Unit	ARNU07GSF14	ARNU09GSF14
Cooling Capacity		kW	2.2	2.8
		kcal/h	1,900	2,400
		Btu/h	7,500	9,600
Heating Capacity		kW	2.5	3.2
		kcal/h	2,200	2,800
		Btu/h	8,500	10,900
Power Input (H / M / L)		W	28 / 16 / 10	28 / 16 / 10
Dimensions (W x H x D)	Body	mm	600 x 600 x 146	600 x 600 x 146
		inch	23-5/8 x 23-5/8 x 5-25/32	23-5/8 x 23-5/8 x 5-25/32
Coil	Rows x Columns x FPI		2x20x21	2x20x21
	Face Area	m ²	0.18	0.18
Fan	Type		Turbo Fan	Turbo Fan
	Motor Output x Number	W	30	30
	Running Current	A	0.16	0.16
	Air Flow Rate (H / M / L)	m ³ /min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2
		ft ³ /min	286 / 222 / 148	286 / 222 / 148
	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)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe(Internal Dia.)	mm (inch)	12.2 (15/32)	12.2 (15/32)
Net Weight		kg (lbs)	15 (33.1)	15 (33.1)
Sound Pressure Level (H / M / L)		dB(A)	38 / 32 / 27	38 / 32 / 27
Sound Power Level (H / M / L)		dB(A)	48 / 46 / 41	48 / 46 / 41
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		mm ²	1.0~1.5 x 2C	1.0~1.5 x 2C
Front Panel Color			1: Kiss (Photo changeable)	
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 : Indoot Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB				
• Heating : Indoot 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.				

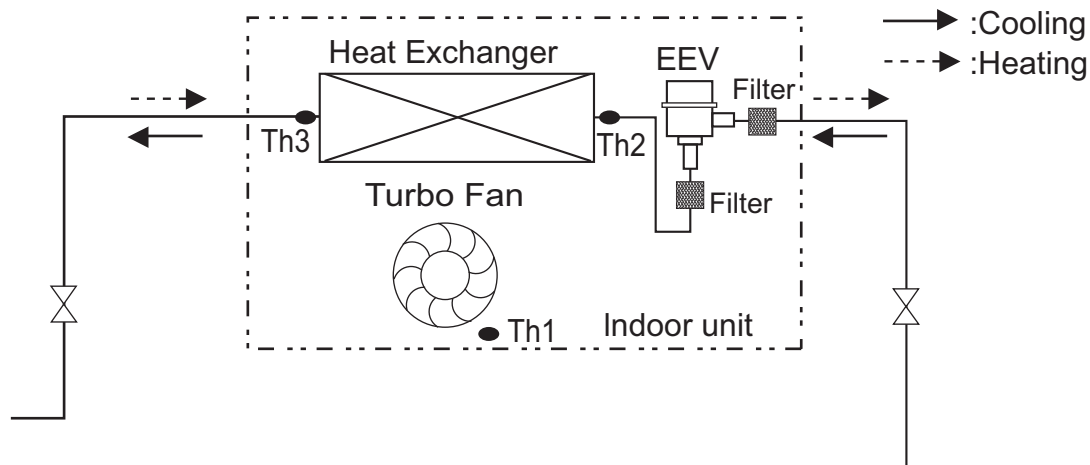
2. Specifications

Type			ARTCOOL Gallery
Model		Unit	ARNU12GSF14
Cooling Capacity		kW	3.6
		kcal/h	3,100
		Btu/h	12,300
Heating Capacity		kW	4.0
		kcal/h	3,400
		Btu/h	13,600
Power Input (H / M / L)		W	32 / 20 / 12
Dimensions (W x H x D)	Body	mm	600 x 600 x 146
		inch	23-5/8 x 23-5/8 x 5-25/32
Coil	Rows x Columns x FPI		2x20x21
	Face Area	m ²	0.18
Fan	Type		Turbo Fan
	Motor Output x Number	W	30
	Running Current	A	0.16
	Air Flow Rate (H / M / L)	m ³ /min	9.3 / 7.7 / 6.0
		ft ³ /min	328 / 272 / 212
	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)	Ø6.35(1/4)
	Gas Side	mm (inch)	Ø12.7(1/2)
	Drain Pipe(Internal Dia.)	mm (inch)	12.2(15/32)
Net Weight		kg (lbs)	15(33.1)
Sound Pressure Level (H / M / L)		dB(A)	44 / 38 / 32
Sound Power Level (H / M / L)		dB(A)	54 / 46 / 38
Power Supply		Ø, V, Hz	1, 220-240, 50
			1, 220, 60
Refrigerant Control			EEV
Transmission Cable		mm ²	1.0~1.5 x 2C
Front Panel Color			1: Kiss (Photo changeable)
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 : Indoot Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB			
• Heating : Indoot 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.			

ARNU07GSF14 / ARNU09GSF14 / ARNU12GSF14



4. Piping Diagrams



◆ Refrigerant pipe connection port diameter

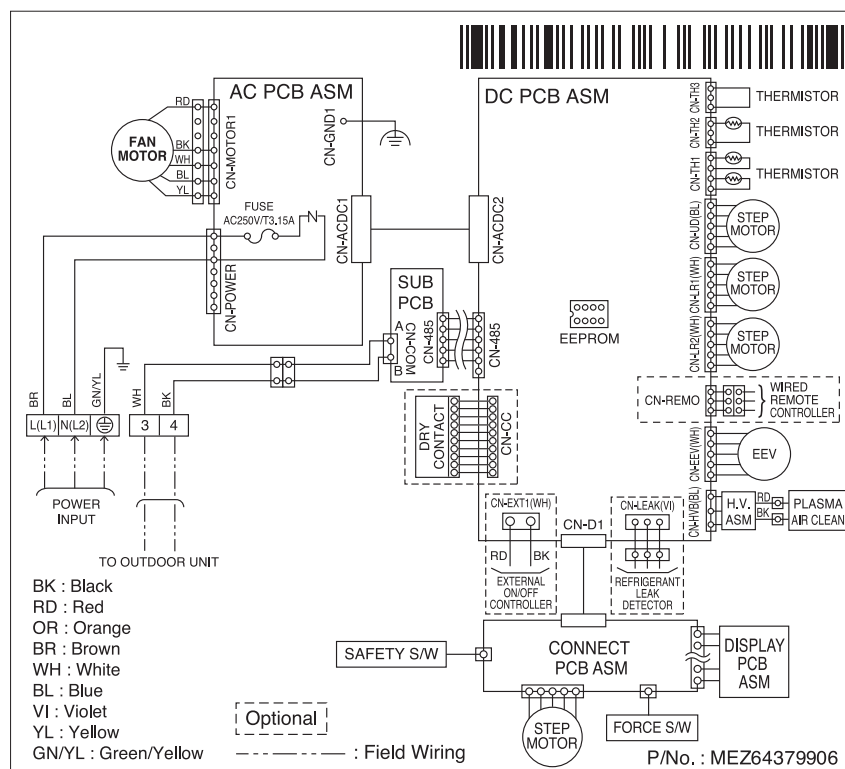
Model	Gas [mm(inch)]	Liquid [mm(inch)]
ARNU07GSF14	Ø12.7(1/2)	Ø6.35(1/4)
ARNU09GSF14	Ø12.7(1/2)	Ø6.35(1/4)
ARNU12GSF14	Ø12.7(1/2)	Ø6.35(1/4)

*Panel color :E(Red), V(Silver), G(Gold), 1(Kiss (Photo changeable))

LOC.	Description	PCB Connector
Th1	Thermistor for inlet air temperature	CN-TH1
Th2	Thermistor for EVA. in temperature	
Th3	Thermistor for EVA. out temperature	CN-TH2

5. Wiring Diagrams

■ SF 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-LEV	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-HVB	Air clean	Air clean control
CN-EXT	External On/Off	External On/Off signal input
CN-LEAK	Refrigerant leak detector	Refrigerant leak detector 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
2.2	10	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.9	1.7
	12	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.9	1.6
	14	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.8	1.6
	16	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.8	1.6
	18	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.7	1.6
	20	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.7	1.6
	21	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.7	1.5
	23	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.6	1.5
	25	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.6	1.7	2.6	1.5
	27	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.5	1.6	2.6	1.5
	29	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.5	1.6	2.5	1.5
	31	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.5	1.6	2.5	1.4
	33	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.4	1.5	2.5	1.4
	35	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.4	1.5	2.4	1.4
2.8	37	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.3	1.6	2.3	1.5	2.4	1.4
	39	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.6	2.2	1.5	2.3	1.5	2.3	1.4
	10	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.7	2.1
	12	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.6	2.1
	14	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.6	2.1
	16	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.5	2.0
	18	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.5	2.0
	20	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	2.0
	21	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	2.0
	23	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	1.9
	25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.3	2.1	3.3	1.9
	27	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.2	2.1	3.3	1.9
	29	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.2	2.0	3.2	1.9
	31	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.1	2.0	3.2	1.8
3.6	33	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.1	2.0	3.1	1.8
	35	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.0	1.9	3.1	1.8
	37	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	3.0	1.9	3.0	1.8
	39	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	2.9	1.9	3.0	1.7
	10	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.7	2.8
	12	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.7	2.7
	14	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.6	2.7
	16	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.6	2.7
	18	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.5	2.6
	20	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.4	2.6
	21	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.4	2.6
	23	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.3	2.8	4.3	2.5
	25	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.2	2.8	4.3	2.5
	27	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.1	2.7	4.2	2.5
	29	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.1	2.7	4.2	2.4
	31	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.0	2.6	4.1	2.4
	33	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	4.0	2.6	4.0	2.4
	35	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.5	4.0	2.3
	37	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.7	2.6	3.8	2.5	3.9	2.3
	39	2.4	2.1	2.9	2.4	3.4	2.6	3.6	2.6	3.7	2.6	3.7	2.4	3.8	2.2

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
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
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
	11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
	13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5
	15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5

6. Capacity Tables

Note

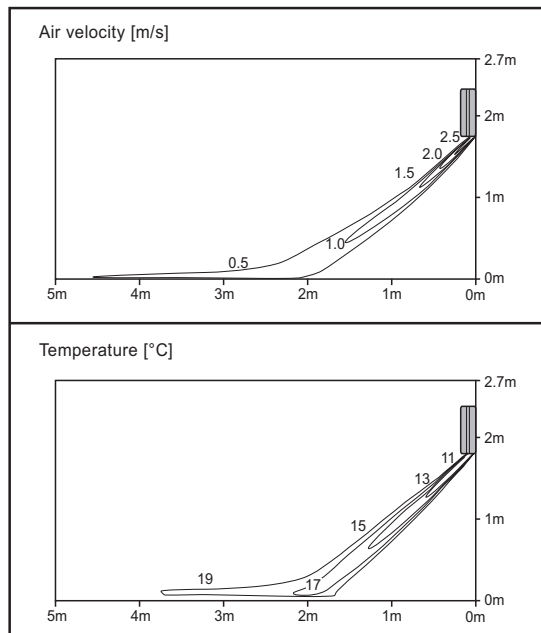
1. TC: Total Capacity(kW)
2. Capacity tables show the average value of conditions which may occur.
3. In the range beyond the operation limit of the outdoor unit, continuous operation and performance can not be guaranteed. When selecting the outdoor units, avoid the air temperature range that is not 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

◆ ARNU07GSF14, ARNU09GSF14

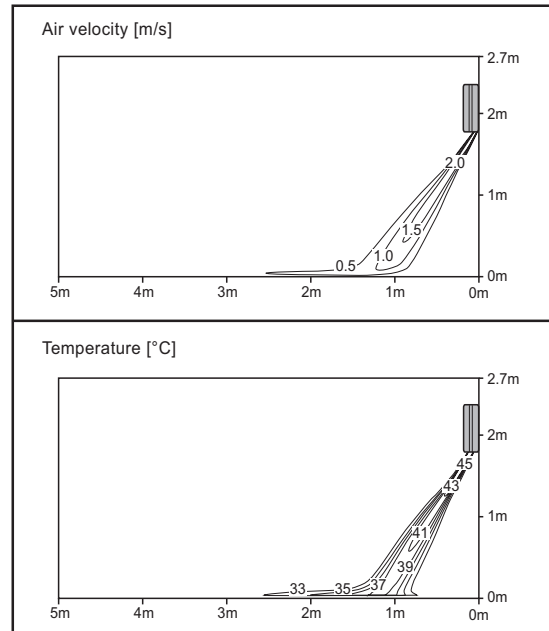
Cooling

Discharge angle:40°



Heating

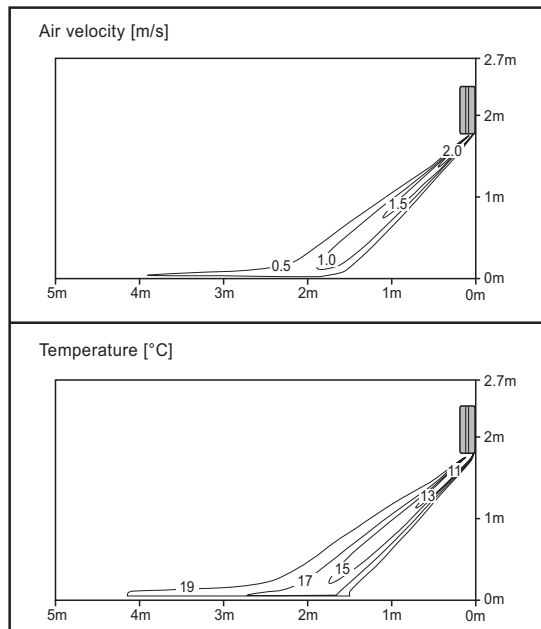
Discharge angle:50°



◆ ARNU12GSF14

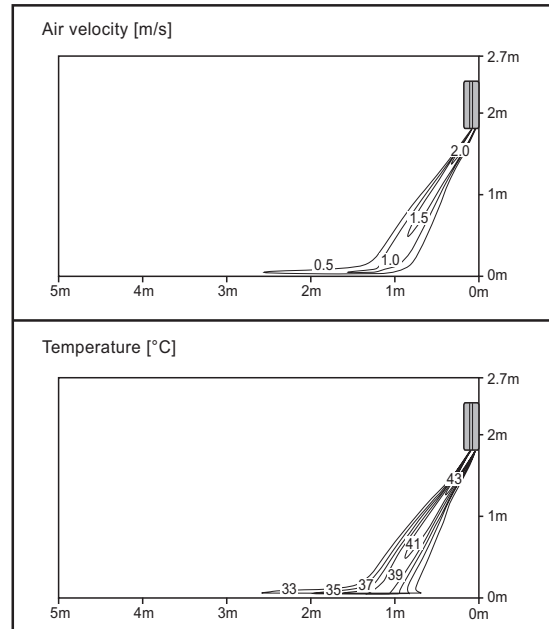
Cooling

Discharge angle:40°



Heating

Discharge angle:50°



8. Electric Characteristics

Units					Power Supply		IFM		PI	
Model	Type	Hz	Volts	Voltage Range	MCA	MFA	kW	FLA	Cooling	Heating
ARNU07GSF14	SF	50	220-240	Max:264 Min:198	0.23	15	0.024	0.18	35	35
ARNU09GSF14	SF				0.23	15	0.024	0.18	35	35
ARNU12GSF14	SF				0.23	15	0.024	0.18	35	35
ARNU07GSF14	SF	60	220	Max:242 Min:198	0.23	15	0.024	0.18	35	35
ARNU09GSF14	SF				0.23	15	0.024	0.18	35	35
ARNU12GSF14	SF				0.23	15	0.024	0.18	35	35

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)

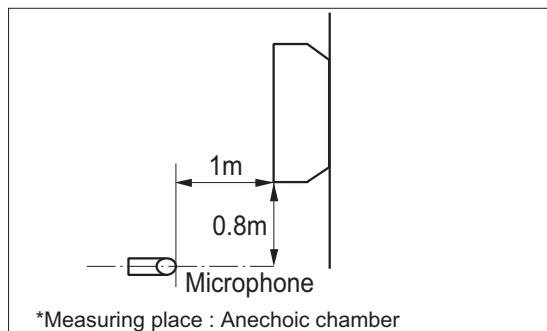
4. Select wire size based on the MCA

5. Instead of fuse, use Circuit Breaker.

9. Sound Levels

9.1 Sound Pressure Levels

Overall

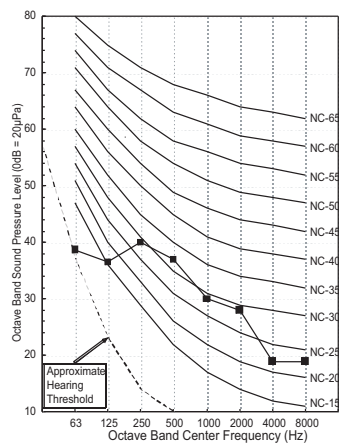


Note

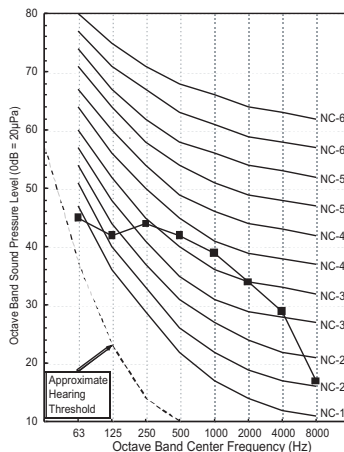
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions (Power source and Ambient temperature, etc)
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)]		
	H	M	L
ARNU07GSF14	38	32	27
ARNU09GSF14	38	32	27
ARNU12GSF14	44	38	32

**ARNU07GSF14
ARNU09GSF14**



ARNU12GSF14



9. Sound Levels

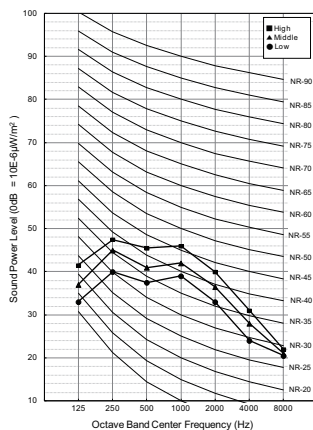
9.2 Sound Power Levels

Note

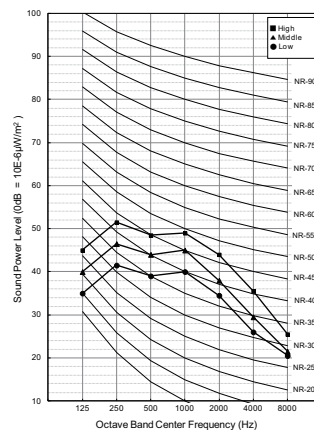
- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors 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)]		
	H	M	L
ARNU07GSF14	48	46	41
ARNU09GSF14	48	46	41
ARNU12GSF14	54	48	42

**ARNU07GSF14
ARNU09GSF14**

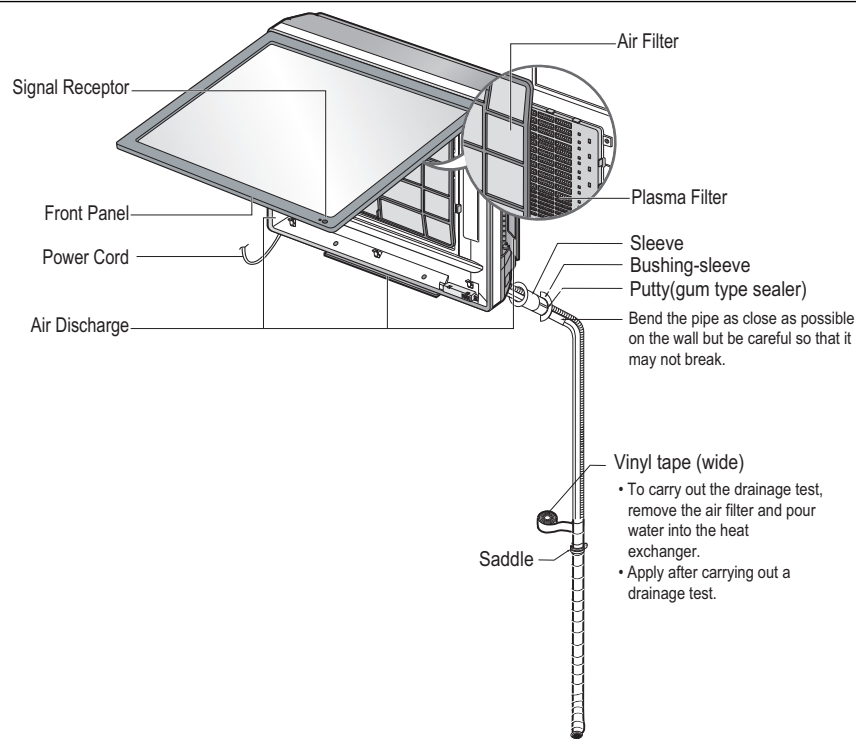


ARNU12GSF14



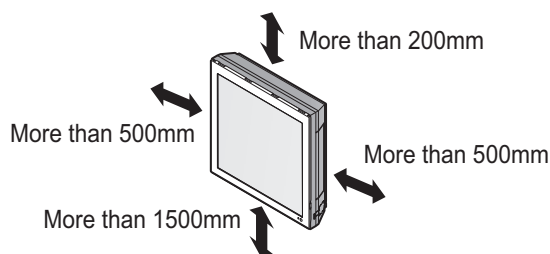
10. Installation

- 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 by authorized personnel only.



10.1 Selection of the best location

- Do not have any heat or steam near the unit.
- Select a place where there are no obstacles in front of the unit.
- Make sure that condensation drainage can be conveniently routed away.
- Do not install near a doorway.
- Ensure that the interval between a wall and the left (or right) of the unit is more than 500mm. The unit should be installed as high as possible on the wall, allowing a minimum of 200mm from ceiling.
- Use a stud finder to locate studs to prevent unnecessary damage to the wall.
- The mounting wall should be strong and solid enough to protect it from the vibration.



⚠ CAUTION

- Install the indoor unit on the wall where the height from the floors is more than 1.5 meters.