

2 . CASSETTE TYPE :
AUU18RCLX
AUU24RCLX

2-1. FEATURE

■ MODELS :

AUU18RCLX / AOU18RLX

AUU24RCLX / AOU24RLX



■ FEATURES

● Easy maintenance

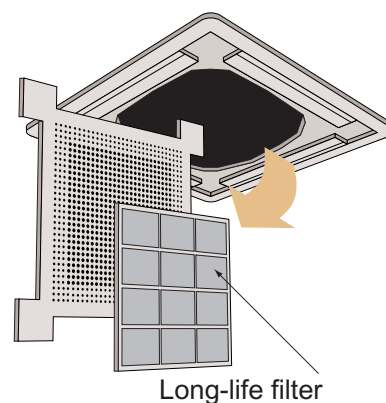
The control box is easily accessible for maintenance work
Wide opening for easy access.

Detachable, washable filter and intake grille.

Wide opening and long-life filter.

Long-life filter

High efficiency, long-life filter extends the cleaning cycle.



● Slim intake grille

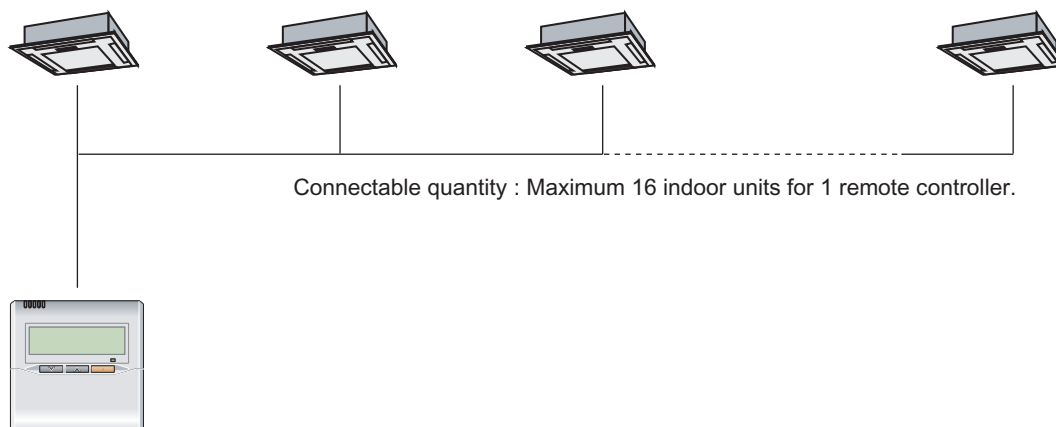
Slim type intake grille can fit the ceiling after installation.



● Group controller

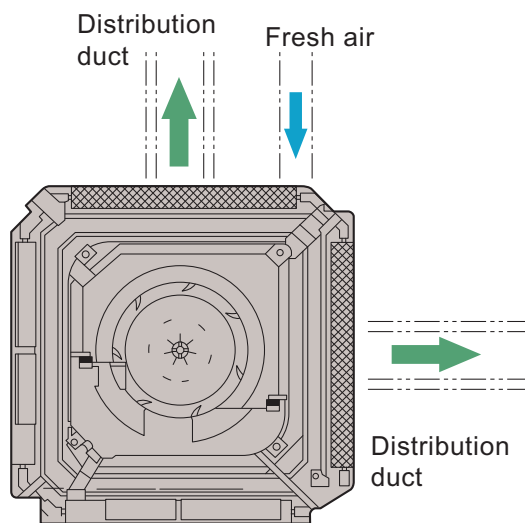
One remote controller can control up to 16 air conditioners.

All of the air conditioners will be operated with the same settings.

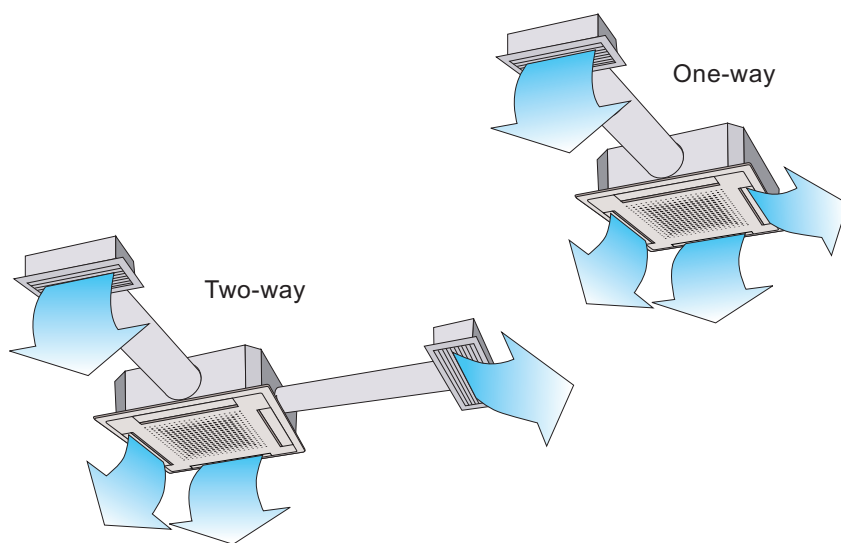


● Duct connection hole opening

Fresh air can be introduced through this opening.



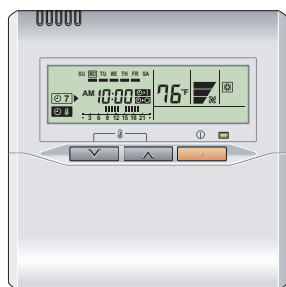
● Conditioned air can be distributed by means of a distribution duct.



2-2. REMOTE CONTROLLER

2-2-1. WIRED REMOTE CONTROLLER

■ FEATURES



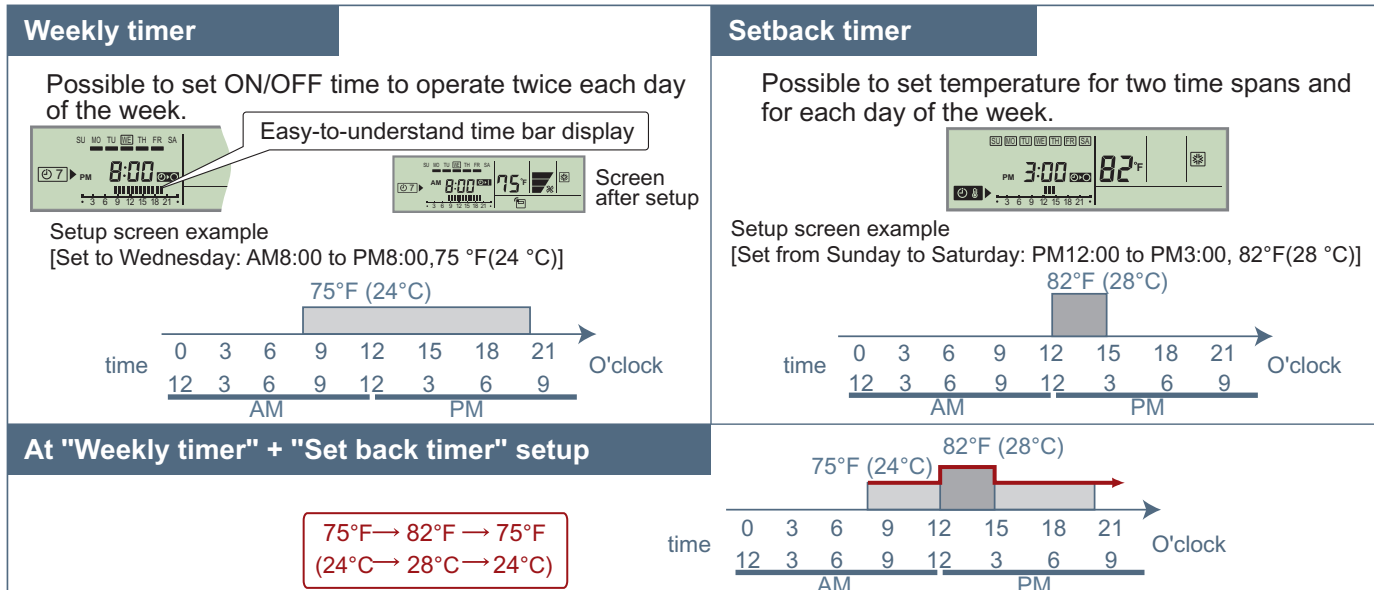
- * Various timer setup (ON / OFF / WEEKLY) are possible.
- * Equipped with weekly timer as standard function.
(2 times Start / Stop per day for a week)
- * When setting up a timer, operation mode and a temperature setup can be changed.
- * When a failure occurs, the error code is displayed. (Maximum of 16)
- * Error indication. (A maximum of 16 error histories are memorizable.)
- * Easy installation with a slim shape with no boldge in the back.
- * Built in room temperature sensor.

● High performance and compact size

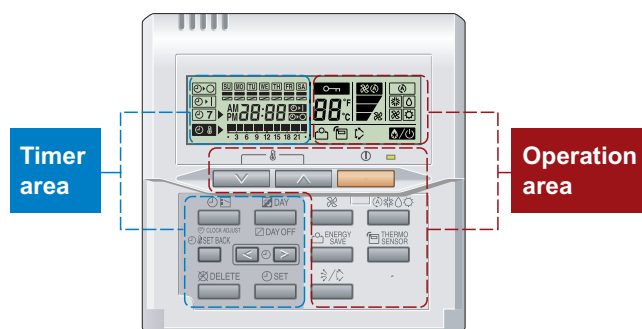
Three functions are combined in one unit.



● Built-in timers



● Easy-to-understand operation

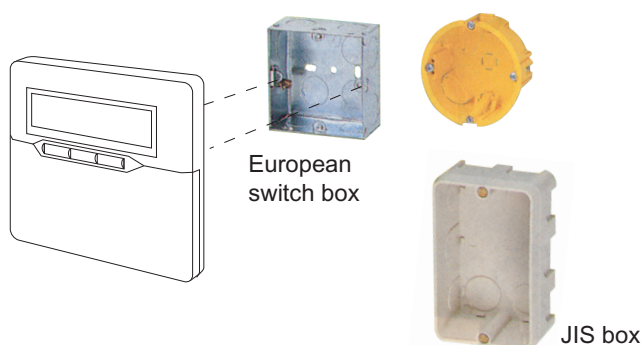


[Variable timer control]

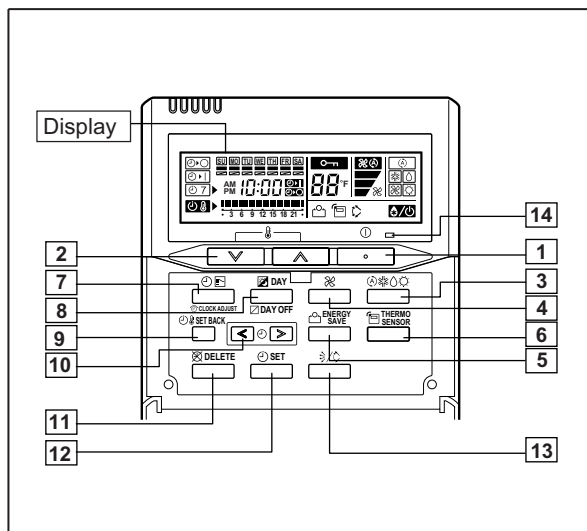
The operation/display sections are zoned according to time and operation, enabling variable programming to match application.

● Simple installation

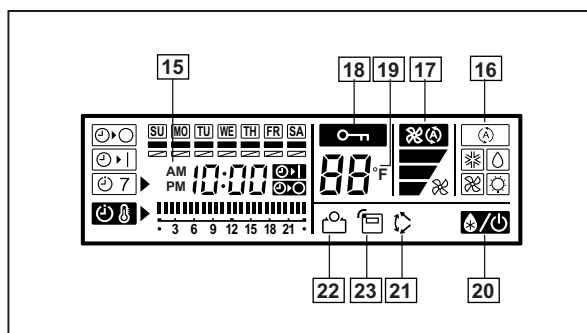
Components are compatible with standard switch boxes. Flat back construction allows equipment to be installed wherever it is needed.



FUNCTIONS



Display panel



- 1** START/STOP button
Pressed to start and stop operation.
- 2** Set Temperature button
Selects the setting temperature.
- 3** Master control button
Selects the operating mode(AUTO, HEAT, FAN, COOL, DRY).
- 4** Fan control button
Selects the fan speed (AUTO, LOW, MED, HIGH).
- 5** Energy save button
Turns the energy efficient mode on and off.
- 6** Thermo sensor button
Selects whether the room temperature is detected at the indoor unit (remote sensor) or the remote controller.
- 7** Timer mode (CLOCK ADJUST) button
Selects the timer mode (OFF TIMER, ON TIMER, WEEKLY TIMER)
Set the current time.
- 8** Day (DAY OFF) button
Temporarily cancels of one day timer.
- 9** Set back button
pressed select the set back timer.
- 10** Set time button
Pessed to select the set back timer.
- 11** Delete button
The schedule of a weekly timer is deleted.
- 12** Set button
Sets the date, hour, minute and on-off time.
- 13** Vertical air flow direction and swing button
Push for two seconds to change the swing mode
- 14** Operation lamp
Lights during operation and when the timer is on.
- 15** Timer and clock display
- 16** Operation mode display
- 17** Fan speed display
- 18** Central control display
- 19** Temperature display
- 20** Stand by display
Indicates during defrosting operation.
- 21** Vertical swing display
- 22** Energy save display
- 23** Thermo sensor display

SPECIFICATION

SIZE [H x W x D in. (mm)]	4-23/32 x 4-23/32 x 43/64 (120 x 120 x 17)
WEIGHT oz. (g)	5-21/35 (160)
CABLE LENGTH ft.(m)	33 (10)
POWER (V)	12

2-3. SPECIFICATIONS

CASSETTE TYPE
AUU18-24R

CASSETTE TYPE
AUU18-24R

TYPE				CASSETTE MODELS	
				INVERTER HEAT PUMP	
MODEL NAME		INDOOR		AUU18RCLX	AUU24RCLX
		OUTDOOR		AOU18RLX	AOU24RLX
POWER SOURCE				208/230V~ 60Hz	
AVAILABLE VOLTAGE RANGE				187-253V ~ 60Hz	
CAPACITY	COOLING	RATED/MAX	kW	5.20 / 6.30	6.50 / 8.00
			BTU/h	17,800 / 21,500	22,200 / 27,300
	HEATING	RATED/MAX	kW	6.15 / 7.50	7.10 / 8.50
			BTU/h	21,000 / 25,600	24,200 / 29,000
INPUT POWER	COOLING	RATED/MAX	kW	1.61 / 2.88	2.10 / 2.88
	HEATING	RATED/MAX		2.05 / 2.88	2.37 / 2.88
CURRENT	COOLING	RATED/MAX	A	7.0 / 12.5	9.2 / 12.5
	HEATING	RATED/MAX		8.9 / 12.5	10.4 / 12.5
STARTING CURRENT			A	8.4	9.5
SEER		COOLING		16.0	15.0
HSPF		HEATING		8.5	8.5
MOISTURE REMOVAL			pints/h(l/h)	5.3 (2.5)	6.4 (3.0)
AIR CIRCULATION COOL/HEAT	INDOOR	High	CFM(m³/h)	559 / 495 (950 / 840)	618 / 548 (1050 / 930)
		Med		477 / 424 (810 / 720)	536 / 465 (910 / 790)
		Low		394 / 365 (670 / 620)	435 / 395 (740 / 670)
		Quiet		-	-
	OUTDOOR	High		1942 / 1942 (3300 / 3300)	2119 / 2237 (3600 / 3800)
		Low		-	-
FAN SPEED COOL/HEAT	INDOOR	High	r.p.m	450 / 400	490 / 440
		Med		390 / 350	430 / 380
		Low		330 / 310	360 / 330
		Quiet		-	-
	OUTDOOR	High		780 / 780	850 / 900
		Low		-	-
FAN TYPE x Q'ty		INDOOR		TURBO × 1	
		OUTDOOR		PROPELLER × 1	
FAN MOTOR OUTPUT		INDOOR	W	42	
		OUTDOOR		100	
NOISE LEVEL (SOUND PRESSURE)	INDOOR	High	dB(A)	42.0 / 40.0	45.0 / 43.0
		Med		39.0 / 38.0	43.0 / 39.0
		Low		36.0 / 36.0	38.0 / 35.0
COOL/HEAT	OUTDOOR			51.0 / 53.0	53.0 / 55.0
COMPRESSOR	TYPE			DC TWIN ROTARY (INVERTER)	
	OUTPUT		W	1300	
	STARTING METHOD			Inverter	
HEAT EXCHANGER TYPE	INDOOR	Coil		Copper tube	
		Fin		Aluminium	
		Rows x Stages		2 × 10	
		Fin Pitch	FPI	20	
		Coil Dimensions	in. (mm)	8 - 9/32 × 38 - 3/16 × 1-1/16 (210 × 970 × 26.6) [× 2 pieces]	
	OUTDOOR	Coil		Copper tube	
		Fin		Aluminium	
		Rows x Stages	2 × 38		
Fin Pitch	FPI	20			
Coil Dimensions	in. (mm)	31 - 13/32 × 35 - 7/16 × 1 - 7/16 (798 × 900 × 36.38)			
CASING COLOR		INDOOR		White (5Y9/0.5NN)	
		OUTDOOR		Beige (10YR7.5/1.0NN)	
DIMENSIONS H × W × D	INDOOR	NET	in. (mm)	9 - 11/16 × 32 - 11/16 × 32 - 11/16 (246 × 830 × 830)	
	OUTDOOR			32 - 11/16 × 35 - 7/16 × 13 (830 × 900 × 330)	
	INDOOR	GROSS		13 - 31/32 × 41 - 23/32 × 40 - 11/32 (355 × 1060 × 1025)	
	OUTDOOR			38 - 3/16 × 41 - 11/32 × 17 - 17/32 (970 × 1050 × 445)	
WEIGHT	INDOOR	NET	lb. (Kg)	75 (34)	
	OUTDOOR			141 (64)	
	INDOOR	GROSS		97 (44)	
	OUTDOOR			154 (70)	
PIPE	CONNECTION METHOD			FLARE	
	SIZE	LIQUID	in. (mm)	Φ 1/4 (6.35)	Φ 3/8 (9.52)
		GAS		Φ 1/2 (12.70)	Φ 5/8 (15.88)
	MAX LENGTH		ft. (m)	164 (50) [chargeless:49 (15)]	
	MAX HEIGHT		ft. (m)	66 (20)	
REFRIGERANT		TYPE		R410A	
		CHARGE	lb. oz. (g)	4lb. 3oz. (1900)	
REFRIGERANT OIL		TYPE		POE	
OPERATION(OUTDOOR)		COOLING	°F (°C)	0 to 115 (-18 to 46)	
		HEATING		14 to 75 (-10 to 24)	
REMOTE CONTROLLER TYPE				WIRED	
DRAIN PIPE	MATERIAL			ABS	
	SIZE	mm		Outer diameter 37.0 (1 - 15/32)	
		(Reference in.)		Inner diameter 32.0 (1 - 1/4)	

Note:
Specifications are based on the following conditions.
Power source of specifications : 230V
Cooling:Indoor temperature of 80.6 °F (27°C)DB / 66.2 °F(19°C)WB,and outdoor temperature of 95.0 °F (35°C)DB/75.2 °F (24°C)WB.
Heating:Indoor temperature of 68.0 °F (20°C)DB / 59.0 °F (15°C)WB,and outdoor temperature of 44.6 °F (7°C)DB/42.8 °F (6°C)WB.
Pipe length : 24ft. 7in.(7.5m),Height difference : 0 ft.(0m) [Outdoor unit - Indoor unit]

2-4. DIMENSIONS

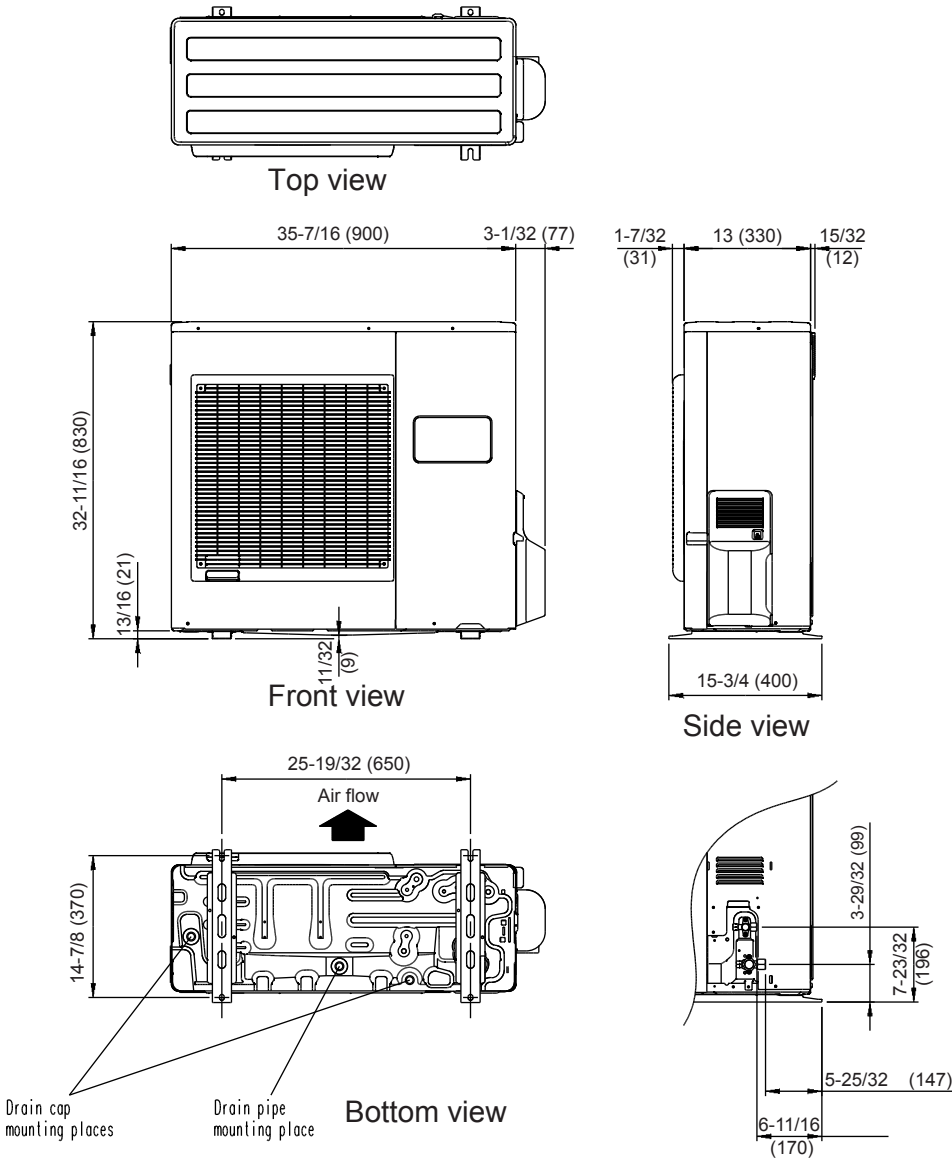
2-4-1. OUTDOOR UNIT

MODELS : AOU18R, AOU24R

Unit : in.(mm)

CASSETTE TYPE
AUU18-24R

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AUU18-24R

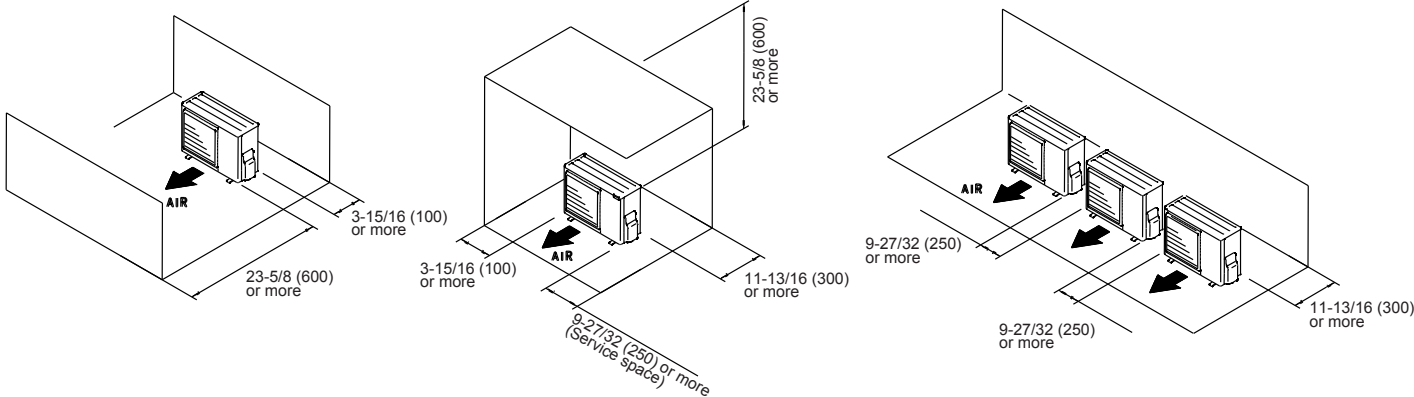


MOUNTING POSITION

When there are obstacles at the back or front sides.

When there are obstacles at the back, side(s), and top.

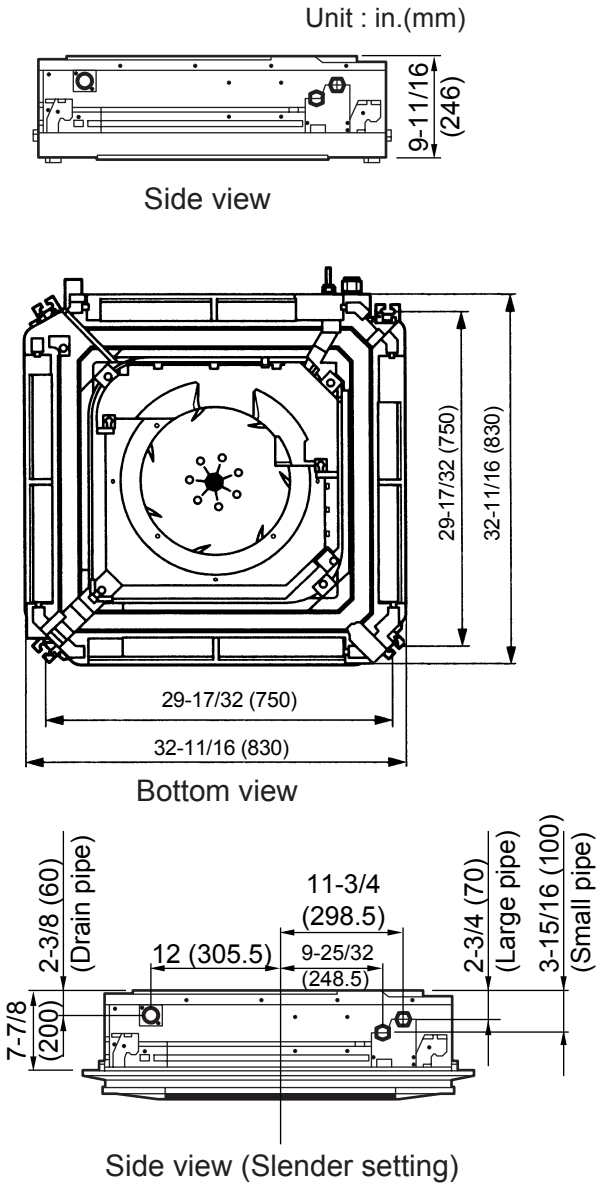
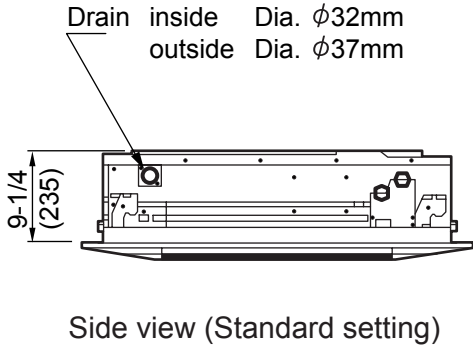
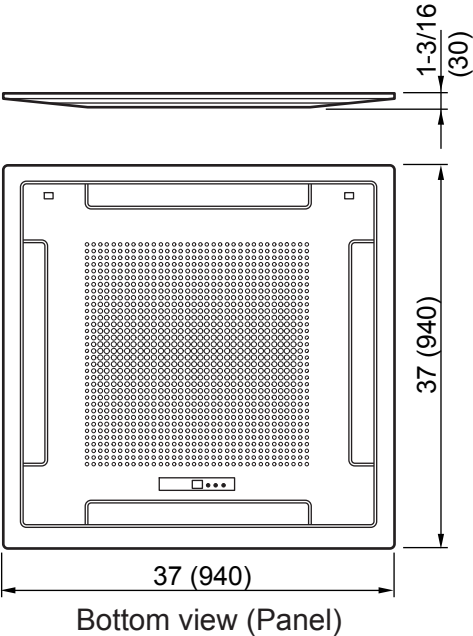
When there are obstacles at the back, side with the installation of more than one unit.



2-4-2. INDOOR UNIT

MODELS : AUU18R, AUU24R

CASSETTE TYPE
AUU18-24R



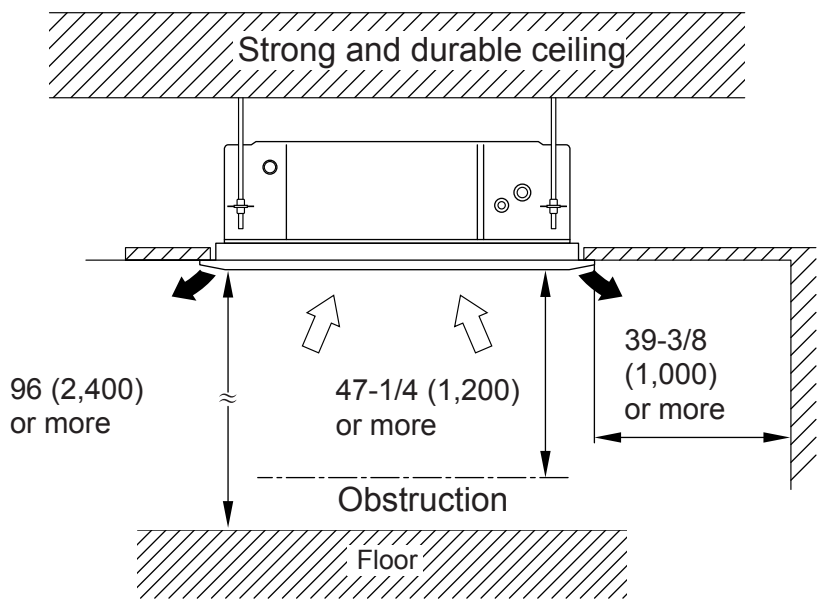
CASSETTE TYPE
AUU18-24R

■ MOUNTING POSITION

Unit : in.(mm)

CASSETTE TYPE
AUU18-24R

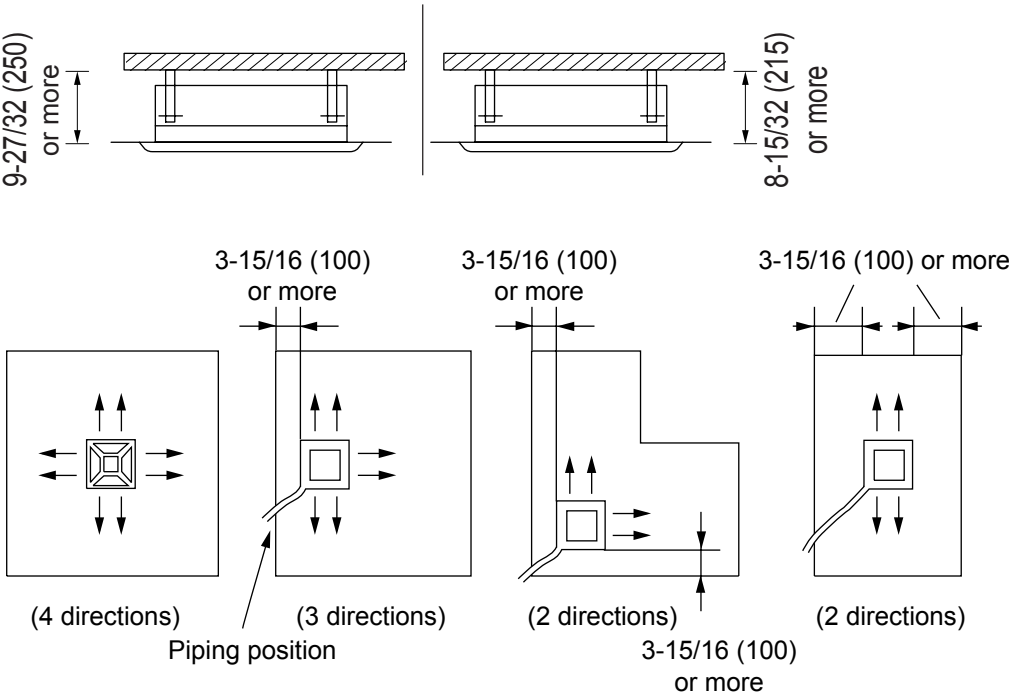
CASSETTE TYPE
AUU18-24R



You can select 2-way setting

(A) Standard setting

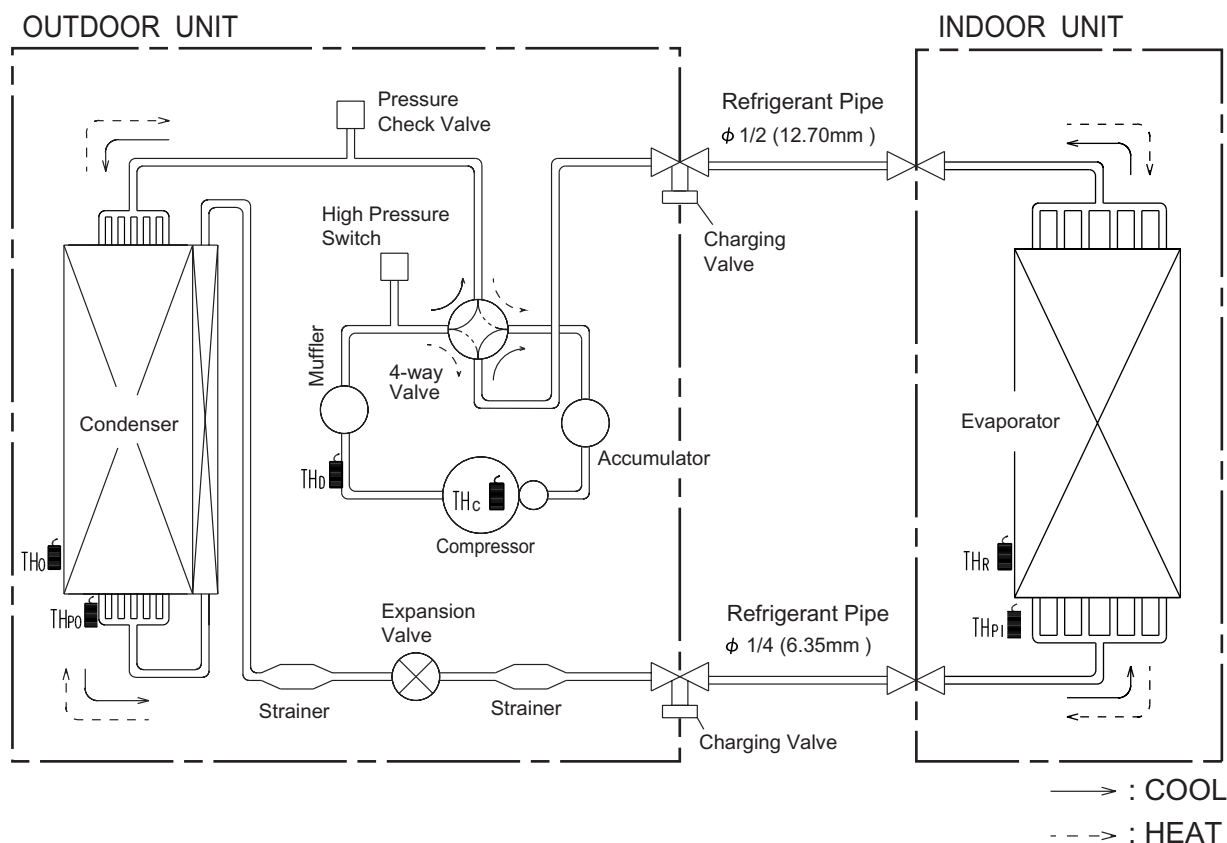
(B) Slender setting



2-5. REFRIGERANT CIRCUIT

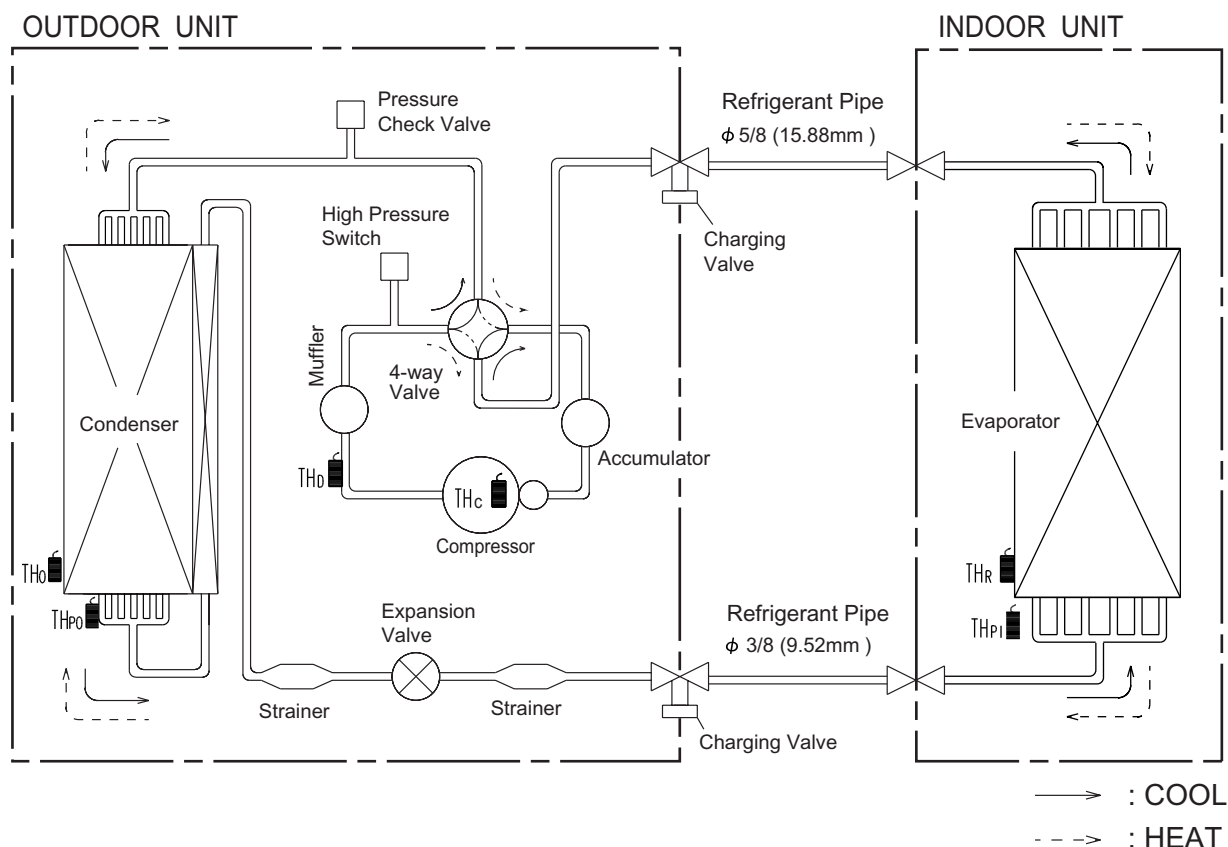
■ MODELS : AUU18R / AOU18R

CASSETTE TYPE
AUU18-24R



CASSETTE TYPE
AUU18-24R

■ MODELS : AUU24R / AOU24R



THo : THERMISTOR(DISCHARGE TEMP.)

THo : THERMISTOR(OUTDOOR TEMP.)

THpo : THERMISTOR(PIPE TEMP.)

THc : THERMISTOR(COMPRESSOR TEMP.)

THr : THERMISTOR(ROOM TEMP.)

THpi : THERMISTOR(PIPE TEMP.)

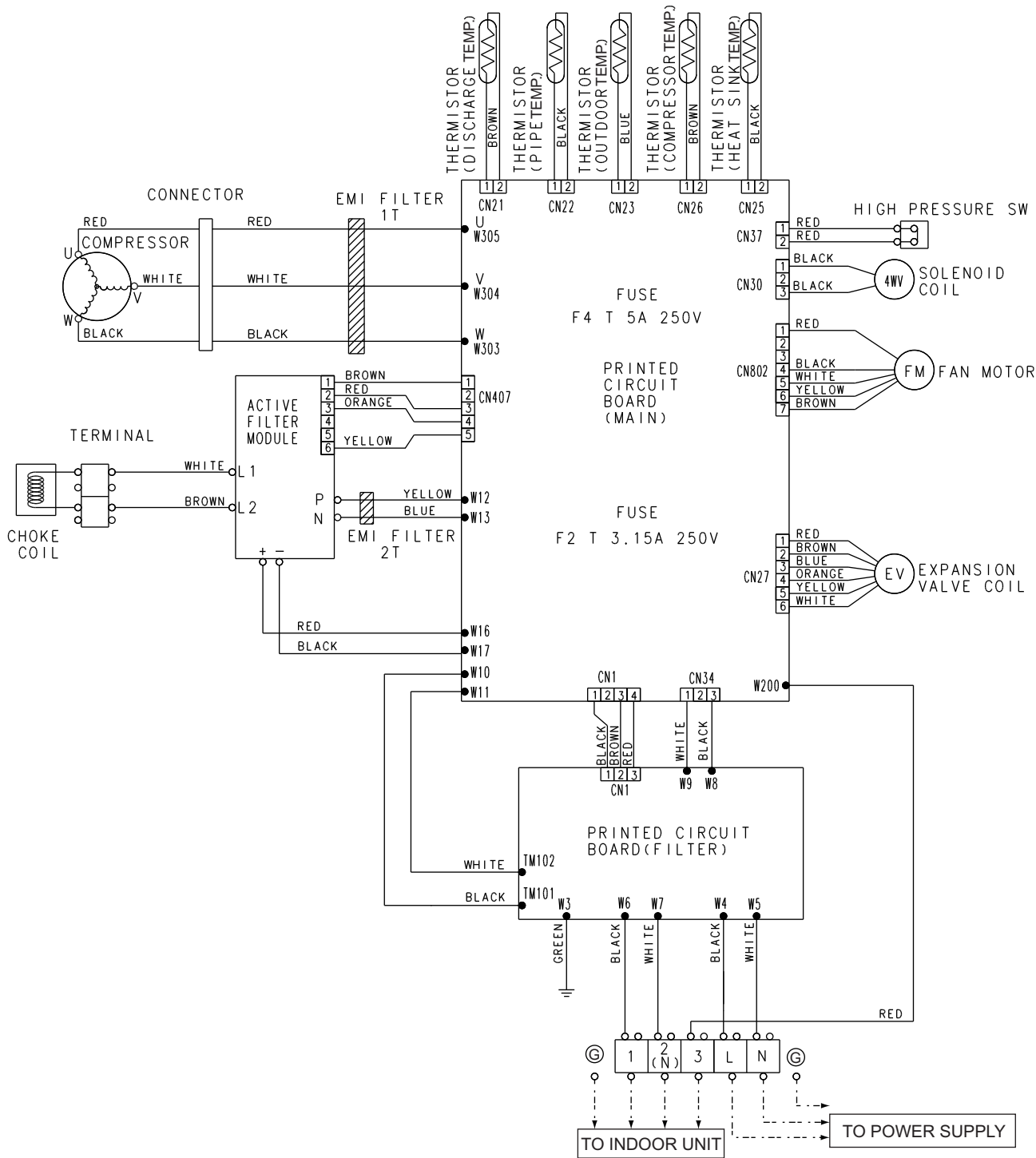
2-6. WIRING DIAGRAMS

2-6-1. OUTDOOR UNIT

■ MODELS : AOU18R, AOU24R

CASSETTE TYPE
AUU18-24R

CASSETTE TYPE
AUU18-24R

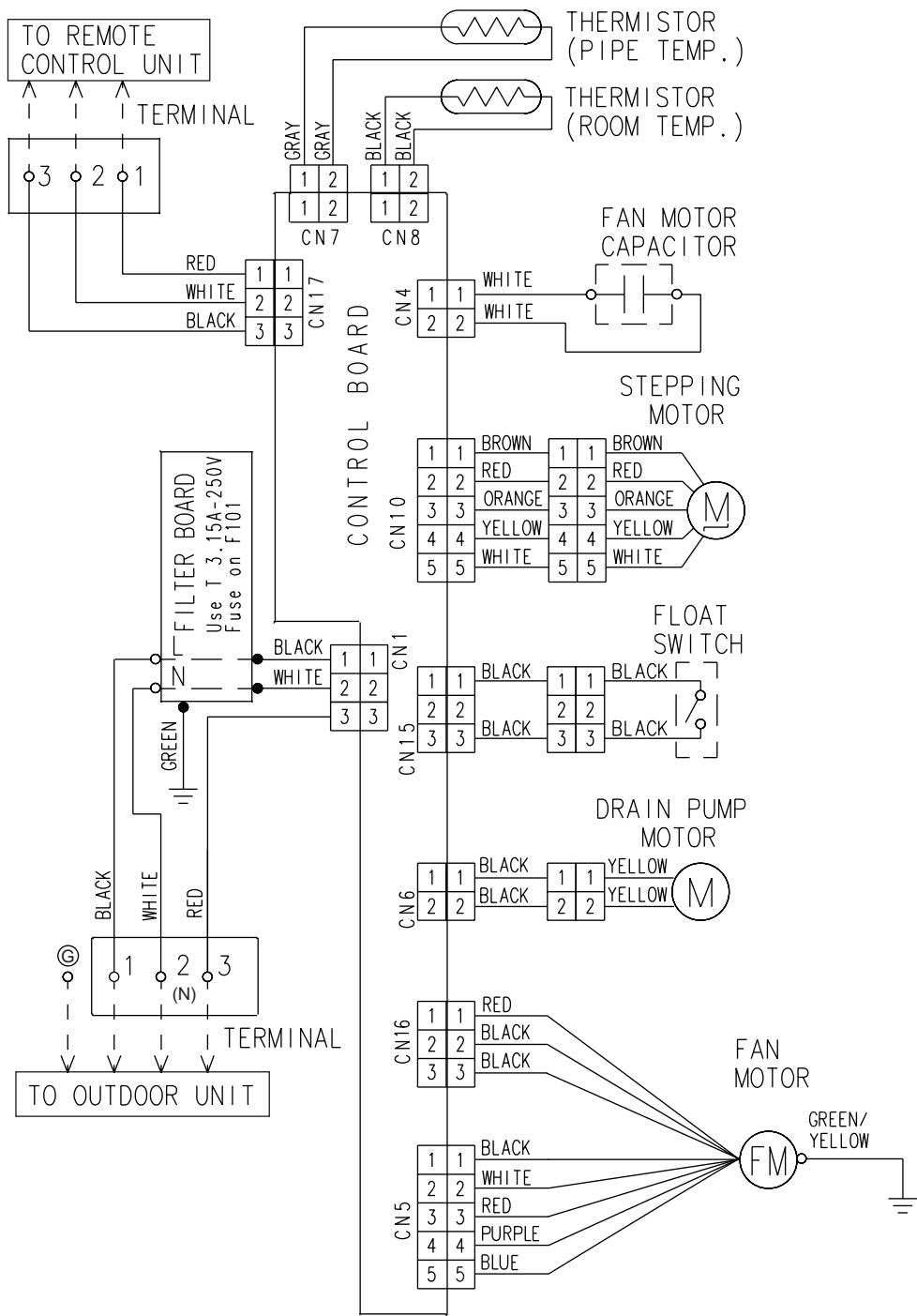


2-6-2. INDOOR UNIT

MODELS : AUU18R, AUU24R

CASSETTE TYPE
AUU18-24R

CASSETTE TYPE
AUU18-24R



2-7. CAPACITY TABLE

MODELS : AUU18R / AOU18R

COOLING

AFR	559
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		Indoor temperature																	
		64°FDB			70°FDB			75°FDB			80°FDB			85°FDB			90°FDB		
		54°FWB			60°FWB			63°FWB			67°FWB			71°FWB			73°FWB		
Outdoor temperature	(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0	16.98	12.17	0.73	19.16	12.24	0.75	20.24	13.41	0.75	21.68	14.03	0.76	23.13	14.49	0.77	23.85	16.06	0.77
	14	16.26	11.52	0.98	18.34	11.59	1.00	19.38	12.69	1.01	20.76	13.28	1.02	22.15	13.72	1.03	22.84	15.20	1.04
	32	14.71	10.81	1.27	16.59	10.87	1.29	17.53	11.91	1.31	18.78	12.46	1.32	20.03	12.87	1.33	20.66	14.27	1.34
	41	14.26	10.78	1.38	16.08	10.84	1.40	16.99	11.88	1.41	18.20	12.43	1.43	19.42	12.84	1.45	20.02	14.23	1.45
	50	16.13	11.49	2.04	18.19	11.56	2.08	19.22	12.66	2.10	20.59	13.25	2.12	21.96	13.68	2.14	22.65	15.16	2.16
	59	17.84	12.32	1.83	20.12	12.39	1.86	21.26	13.58	1.88	22.77	14.20	1.90	24.30	14.67	1.92	25.05	16.26	1.93
	67	17.44	12.29	2.00	19.67	12.36	2.03	20.78	13.54	2.05	22.26	14.17	2.07	23.75	14.63	2.09	24.49	16.22	2.10
	77	19.02	12.94	2.38	21.45	13.02	2.42	22.66	14.26	2.44	24.27	14.92	2.47	25.90	15.41	2.50	26.71	17.08	2.51
	87	17.63	12.23	2.58	19.88	12.30	2.63	21.00	13.48	2.65	22.50	14.10	2.68	24.00	14.56	2.71	24.75	16.14	2.72
	95	16.84	11.37	2.78	19.00	11.44	2.82	20.07	12.53	2.85	21.50	13.11	2.88	22.94	13.54	2.91	23.65	15.01	2.93
	104	14.39	11.63	2.39	16.23	11.71	2.43	17.15	12.82	2.45	18.37	13.42	2.48	19.60	13.86	2.51	20.21	15.36	2.52
	115	11.85	10.12	1.97	13.36	10.19	2.00	14.12	11.16	2.02	15.12	11.68	2.04	16.14	12.06	2.06	16.64	13.37	2.07

AFR: Air flow rate(CFM) TC : Total capacity (kBtu) SHC: Sensible Heat capacity (kBtu) PI : Power Input (kW)

AFR	15.8
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		Indoor temperature																	
		17.78°CDB			21.11°CDB			23.89°CDB			26.67°CDB			29.44°CDB			32.22°CDB		
		12.22°CWB			15.56°CWB			17.72°CWB			19.44°CWB			21.67°CWB			22.78°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	-17.78	4.97	3.56	0.73	5.61	3.59	0.75	5.93	3.93	0.75	6.35	4.11	0.76	6.77	4.24	0.77	6.99	4.70	0.77
	-10.00	4.76	3.37	0.98	5.37	3.39	1.00	5.68	3.72	1.01	6.08	3.89	1.02	6.49	4.02	1.03	6.69	4.45	1.04
	0.00	4.31	3.16	1.27	4.86	3.18	1.29	5.13	3.49	1.31	5.50	3.65	1.32	5.87	3.77	1.33	6.05	4.18	1.34
	5.00	4.18	3.16	1.38	4.71	3.18	1.40	4.98	3.48	1.41	5.33	3.64	1.43	5.69	3.76	1.45	5.86	4.17	1.45
	10.00	4.72	3.36	2.04	5.33	3.38	2.08	5.63	3.71	2.10	6.03	3.88	2.12	6.43	4.01	2.14	6.63	4.44	2.16
	15.00	5.23	3.61	1.83	5.89	3.63	1.86	6.23	3.98	1.88	6.67	4.16	1.90	7.12	4.30	1.92	7.34	4.76	1.93
	19.44	5.11	3.60	2.00	5.76	3.62	2.03	6.09	3.97	2.05	6.52	4.15	2.07	6.96	4.29	2.09	7.17	4.75	2.10
	25.00	5.57	3.79	2.38	6.28	3.81	2.42	6.64	4.18	2.44	7.11	4.37	2.47	7.59	4.51	2.50	7.82	5.00	2.51
	30.56	5.16	3.58	2.58	5.82	3.60	2.63	6.15	3.95	2.65	6.59	4.13	2.68	7.03	4.27	2.71	7.25	4.73	2.72
	35.00	4.93	3.33	2.78	5.56	3.35	2.82	5.88	3.67	2.85	6.30	3.84	2.88	6.72	3.97	2.91	6.93	4.40	2.93
	40.00	4.21	3.41	2.39	4.75	3.43	2.43	5.02	3.76	2.45	5.38	3.93	2.48	5.74	4.06	2.51	5.92	4.50	2.52
	46.11	3.47	2.97	1.97	3.91	2.98	2.00	4.13	3.27	2.02	4.43	3.42	2.04	4.73	3.53	2.06	4.87	3.91	2.07

AFR: Air flow rate(m³/min) TC : Total capacity (kW) SHC: Sensible Heat capacity (kW) PI : Power Input (kW)

CASSETTE TYPE
AUU18-24R

CASSETTE TYPE
AUU18-24R

● HEATING

AFR	494
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			Indoor temperature									
			60°FDB		65°FDB		70°FDB		75°FDB		78°FDB	
Outdoor temperature	(°FDB)	(°FWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	14	12	20.59	2.72	19.93	2.80	19.26	2.88	18.59	2.96	18.18	3.01
	23	19	22.78	2.72	22.04	2.80	21.30	2.88	20.56	2.96	20.12	3.01
	32	28	24.83	2.72	24.02	2.80	23.22	2.88	22.41	2.96	21.93	3.01
	41	37	25.78	2.72	24.94	2.80	24.10	2.88	23.27	2.96	22.76	3.01
	47	43	27.37	2.72	26.49	2.80	25.60	2.88	24.71	2.96	24.17	3.01
	50	47	28.08	2.72	27.17	2.80	26.26	2.88	25.34	2.96	24.79	3.01
	59	50	29.17	2.72	28.23	2.80	27.28	2.88	26.33	2.96	25.76	3.01
	68	59	26.03	2.29	25.19	2.35	24.34	2.42	23.50	2.49	22.99	2.53
	75	65	26.87	2.31	26.00	2.38	25.13	2.45	24.26	2.52	23.73	2.56

AFR: Air flow rate(CFM) TC : Total capacity (kBTU) PI : Power Input (kW)

AFR	14.0
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			Indoor temperature									
			15.56°CDB		18.33°CDB		21.11°CDB		23.89°CDB		25.56°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	6.03	2.72	5.84	2.80	5.64	2.88	5.44	2.96	5.33	3.01
	-5.00	-7.22	6.67	2.72	6.46	2.80	6.24	2.88	6.02	2.96	5.89	3.01
	0.00	-2.22	7.27	2.72	7.04	2.80	6.80	2.88	6.56	2.96	6.42	3.01
	5.00	2.78	7.55	2.72	7.31	2.80	7.06	2.88	6.81	2.96	6.67	3.01
	8.33	6.11	8.02	2.72	7.76	2.80	7.50	2.88	7.24	2.96	7.08	3.01
	10.00	8.33	8.22	2.72	7.96	2.80	7.69	2.88	7.42	2.96	7.26	3.01
	15.00	10.00	8.54	2.72	8.27	2.80	7.99	2.88	7.71	2.96	7.55	3.01
	20.00	15.00	7.62	2.29	7.38	2.35	7.13	2.42	6.88	2.49	6.73	2.53
	23.89	18.33	7.87	2.31	7.62	2.38	7.36	2.45	7.10	2.52	6.95	2.56

AFR: Air flow rate(m³/min) TC : Total capacity (kW) PI : Power Input (kW)

MODELS : AUU24R / AOU24R

COOLING

AFR 618

		Indoor temperature																	
		64°FDB			70°FDB			75°FDB			80°FDB			85°FDB			90°FDB		
		54°FWB			60°FWB			63°FWB			67°FWB			71°FWB			73°FWB		
Outdoor temperature	(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0	20.25	15.51	0.66	22.84	15.61	0.67	24.12	17.10	0.67	25.85	17.89	0.68	27.57	18.48	0.69	28.44	20.48	0.69
	14	19.47	14.45	0.95	21.96	14.54	0.97	23.20	15.92	0.98	24.86	16.66	0.99	26.52	17.21	1.00	27.35	19.07	1.01
	32	17.81	13.47	1.27	20.09	13.55	1.29	21.22	14.85	1.31	22.74	15.53	1.32	24.26	16.04	1.33	25.02	17.78	1.34
	41	18.03	14.15	1.38	20.33	14.24	1.40	21.48	15.60	1.41	23.01	16.32	1.43	24.55	16.86	1.45	25.32	18.68	1.45
	50	19.90	14.71	2.00	22.44	14.80	2.04	23.71	16.22	2.06	25.40	16.97	2.08	27.10	17.53	2.10	27.95	19.42	2.11
	59	22.12	15.51	1.84	24.95	15.61	1.87	26.35	17.10	1.89	28.24	17.89	1.91	30.12	18.48	1.93	31.06	20.48	1.94
	67	20.54	15.01	1.96	23.17	15.10	1.99	24.47	16.54	2.01	26.22	17.31	2.03	27.98	17.88	2.05	28.85	19.81	2.06
	77	22.95	15.72	2.39	25.88	15.82	2.43	27.34	17.33	2.45	29.29	18.13	2.48	31.25	18.72	2.51	32.23	20.75	2.52
	87	22.44	15.69	2.59	25.31	15.79	2.64	26.74	17.30	2.66	28.65	18.10	2.69	30.56	18.69	2.72	31.52	20.71	2.73
	95	21.38	15.19	2.78	24.12	15.28	2.82	25.48	16.74	2.85	27.30	17.51	2.88	29.12	18.09	2.91	30.03	20.05	2.93
	104	17.57	13.38	2.44	19.82	13.46	2.48	20.94	14.75	2.50	22.43	15.43	2.53	23.93	15.94	2.56	24.68	17.67	2.57
	115	12.92	11.31	1.99	14.57	11.38	2.02	15.39	12.47	2.04	16.49	13.04	2.06	17.59	13.47	2.08	18.14	14.93	2.09

AFR: Air flow rate(CFM) TC : Total capacity (kBTU) SHC: Sensible Heat capacity (kBTU) PI : Power Input (kW)

AFR 17.5

		Indoor temperature																	
		17.78°CDB			21.11°CDB			23.89°CDB			26.67°CDB			29.44°CDB			32.22°CDB		
		12.22°CWB			15.56°CWB			17.72°CWB			19.44°CWB			21.67°CWB			22.78°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	-17.78	5.93	4.54	0.66	6.69	4.57	0.67	7.07	5.01	0.67	7.57	5.24	0.68	8.08	5.41	0.69	8.33	6.00	0.69
	-10.00	5.70	4.23	0.95	6.43	4.26	0.97	6.80	4.66	0.98	7.28	4.88	0.99	7.77	5.04	1.00	8.01	5.59	1.01
	0.00	5.22	3.95	1.27	5.88	3.97	1.29	6.22	4.35	1.31	6.66	4.55	1.32	7.11	4.70	1.33	7.33	5.21	1.34
	5.00	5.28	4.14	1.38	5.96	4.17	1.40	6.29	4.57	1.41	6.74	4.78	1.43	7.19	4.94	1.45	7.42	5.47	1.45
	10.00	5.83	4.31	2.00	6.57	4.34	2.04	6.94	4.75	2.06	7.44	4.97	2.08	7.94	5.13	2.10	8.19	5.69	2.11
	15.00	6.48	4.54	1.84	7.31	4.57	1.87	7.72	5.01	1.89	8.27	5.24	1.91	8.82	5.41	1.93	9.10	6.00	1.94
	19.44	6.02	4.40	1.96	6.79	4.42	1.99	7.17	4.85	2.01	7.68	5.07	2.03	8.19	5.24	2.05	8.45	5.80	2.06
	25.00	6.72	4.60	2.39	7.58	4.63	2.43	8.01	5.08	2.45	8.58	5.31	2.48	9.15	5.48	2.51	9.44	6.08	2.52
	30.56	6.57	4.60	2.59	7.41	4.62	2.64	7.83	5.07	2.66	8.39	5.30	2.69	8.95	5.47	2.72	9.23	6.07	2.73
	35.00	6.26	4.45	2.78	7.06	4.48	2.82	7.46	4.90	2.85	8.00	5.13	2.88	8.53	5.30	2.91	8.80	5.87	2.93
	40.00	5.15	3.92	2.44	5.81	3.94	2.48	6.13	4.32	2.50	6.57	4.52	2.53	7.01	4.67	2.56	7.23	5.17	2.57
	46.11	3.78	3.31	1.99	4.27	3.33	2.02	4.51	3.65	2.04	4.83	3.82	2.06	5.15	3.95	2.08	5.31	4.37	2.09

AFR: Air flow rate(m³/min) TC : Total capacity (kW) SHC: Sensible Heat capacity (kW) PI : Power Input (kW)

● HEATING

AFR	547
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			Indoor temperature									
			60°FDB		65°FDB		70°FDB		75°FDB		78°FDB	
Outdoor temperature	(°FDB)	(°FWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	14	12	23.91	2.72	23.14	2.80	22.36	2.88	21.59	2.96	21.12	3.01
	23	19	26.29	2.72	25.44	2.80	24.58	2.88	23.73	2.96	23.21	3.01
	32	28	28.55	2.72	27.63	2.80	26.70	2.88	25.77	2.96	25.21	3.01
	41	37	29.35	2.72	28.40	2.80	27.45	2.88	26.50	2.96	25.92	3.01
	47	43	31.02	2.72	30.01	2.80	29.00	2.88	28.00	2.96	27.39	3.01
	50	47	31.80	2.72	30.77	2.80	29.74	2.88	28.70	2.96	28.08	3.01
	59	50	32.75	2.72	31.69	2.80	30.63	2.88	29.56	2.96	28.92	3.01
	68	59	29.24	2.20	28.30	2.27	27.35	2.33	26.40	2.39	25.83	2.43
	75	65	30.38	2.22	29.39	2.28	28.41	2.35	27.42	2.42	26.83	2.45

AFR: Air flow rate(CFM) TC : Total capacity (kBTU) PI : Power Input (kW)

AFR	15.5
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			Indoor temperature									
			15.56 °CDB		18.33°CDB		21.11°CDB		23.89°CDB		25.56°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	7.00	2.72	6.78	2.80	6.55	2.88	6.32	2.96	6.19	3.01
	-5.00	-7.22	7.70	2.72	7.45	2.80	7.20	2.88	6.95	2.96	6.80	3.01
	0.00	-2.22	8.36	2.72	8.09	2.80	7.82	2.88	7.55	2.96	7.39	3.01
	5.00	2.78	8.60	2.72	8.32	2.80	8.04	2.88	7.76	2.96	7.59	3.01
	8.33	6.11	9.08	2.72	8.79	2.80	8.50	2.88	8.20	2.96	8.02	3.01
	10.00	8.33	9.31	2.72	9.01	2.80	8.71	2.88	8.41	2.96	8.23	3.01
	15.00	10.00	9.59	2.72	9.28	2.80	8.97	2.88	8.66	2.96	8.47	3.01
	20.00	15.00	8.57	2.20	8.29	2.27	8.01	2.33	7.73	2.39	7.56	2.43
	23.89	18.33	8.90	2.22	8.61	2.28	8.32	2.35	8.03	2.42	7.86	2.45

AFR: Air flow rate(m³/min) TC : Total capacity (kW) PI : Power Input (kW)

2-8. CAPACITY COMPENSATION FOR PIPE LENGTH AND HEIGHT DIFFERENCE

■ MODELS : AUU18R / AOU18R

CASSETTE TYPE
AUU18-24R

CASSETTE TYPE
AUU18-24R

COOLING				PIPE LENGTH						
				5 m	7.5 m	15 m	20 m	30 m	40 m	50 m
				16 ft.	25 ft.	49 ft.	66 ft.	98 ft.	131 ft.	164 ft.
HEIGHT DIFFERENCE	Outdoor unit is bottom-side	20m	66ft.	-	-	-	0.919	0.883	0.851	0.825
		10m	33ft.	-	-	0.944	0.919	0.883	0.851	0.825
		7.5m	25ft.	-	1.000	0.944	0.919	0.883	0.851	0.825
		5m	16ft.	1.031	1.000	0.944	0.919	0.883	0.851	0.825
		0m	0ft.	1.031	1.000	0.944	0.919	0.883	0.851	0.825
	Outdoor unit is up-side	-5m	-16ft.	1.022	0.992	0.936	0.911	0.876	0.844	0.818
		-7.5m	-25ft.	-	0.988	0.932	0.908	0.872	0.841	0.815
		-10m	-33ft.	-	-	0.929	0.904	0.869	0.837	0.811
		-20m	-66ft.	-	-	-	0.889	0.855	0.824	0.798

HEATING				PIPE LENGTH						
				5 m	7.5 m	15 m	20 m	30 m	40 m	50 m
				16 ft.	25 ft.	49 ft.	66 ft.	98 ft.	131 ft.	164 ft.
HEIGHT DIFFERENCE	Outdoor unit is bottom-side	20m	66ft.	-	-	-	0.963	0.950	0.926	0.905
		10m	33ft.	-	-	0.982	0.973	0.959	0.936	0.914
		7.5m	25ft.	-	0.993	0.985	0.976	0.962	0.938	0.916
		5m	16ft.	0.995	0.995	0.987	0.978	0.964	0.940	0.918
		0m	0ft.	1.000	1.000	0.992	0.983	0.969	0.945	0.923
	Outdoor unit is up-side	-5m	-16ft.	1.000	1.000	0.992	0.983	0.969	0.945	0.923
		-7.5m	-25ft.	-	1.000	0.992	0.983	0.969	0.945	0.923
		-10m	-33ft.	-	-	0.992	0.983	0.969	0.945	0.923
		-20m	-66ft.	-	-	-	0.983	0.969	0.945	0.923

■ MODELS : AUU24R / AOU24R

CASSETTE TYPE
AUU18-24R

CASSETTE TYPE
AUU18-24R

COOLING				PIPE LENGTH						
				5 m	7.5 m	15 m	20 m	30 m	40 m	50 m
				16 ft.	25 ft.	49 ft.	66 ft.	98 ft.	131 ft.	164 ft.
HEIGHT DIFFERENCE	Outdoor unit is bottom-side	20m	66ft.	-	-	-	0.938	0.931	0.916	0.905
		10m	33ft.	-	-	0.943	0.938	0.931	0.916	0.905
		7.5m	25ft.	-	1.000	0.943	0.938	0.931	0.916	0.905
		5m	16ft.	1.018	1.000	0.943	0.938	0.931	0.916	0.905
	Outdoor unit is up-side	0m	0ft.	1.018	1.000	0.943	0.938	0.931	0.916	0.905
		-5m	-16ft.	1.009	0.992	0.935	0.931	0.924	0.909	0.898
		-7.5m	-25ft.	-	0.988	0.931	0.927	0.920	0.905	0.894
		-10m	-33ft.	-	-	0.928	0.923	0.916	0.901	0.891
		-20m	-66ft.	-	-	-	0.908	0.901	0.887	0.876

HEATING				PIPE LENGTH						
				5 m	7.5 m	15 m	20 m	30 m	40 m	50 m
				16 ft.	25 ft.	49 ft.	66 ft.	98 ft.	131 ft.	164 ft.
HEIGHT DIFFERENCE	Outdoor unit is bottom-side	20m	66ft.	-	-	-	0.963	0.950	0.926	0.905
		10m	33ft.	-	-	0.982	0.973	0.959	0.936	0.914
		7.5m	25ft.	-	0.993	0.985	0.976	0.962	0.938	0.916
		5m	16ft.	0.995	0.995	0.987	0.978	0.964	0.940	0.918
	Outdoor unit is up-side	0m	0ft.	1.000	1.000	0.992	0.983	0.969	0.945	0.923
		-5m	-16ft.	1.000	1.000	0.992	0.983	0.969	0.945	0.923
		-7.5m	-25ft.	-	1.000	0.992	0.983	0.969	0.945	0.923
		-10m	-33ft.	-	-	0.992	0.983	0.969	0.945	0.923
		-20m	-66ft.	-	-	-	0.983	0.969	0.945	0.923

2-9. ADDITIONAL CHARGE CALCULATION

MODELS : AUU18R / AOU18R

REFRIGERANT TYPE		R410A
REFRIGERANT AMOUNT	lb. oz. (g)	4 lb. 3 oz. (1900)

REFRIGERANT CHARGE

PIPE LENGTH	ft.	~49	66	98	131	164(MAX)	0.22 oz./ft. (20g/m)
	m	~15	20	30	40	50(MAX)	
ADDITIONAL CHARGE	lb. oz.	0 (Chargeless)	3.7 oz.	10.8 oz.	1 lb. 2.1 oz.	1 lb. 9.3 oz.	
	g	0 (Chargeless)	100	300	500	700	

MODELS : AUU24R / AOU24R

REFRIGERANT TYPE		R410A
REFRIGERANT AMOUNT	lb. oz. (g)	4 lb. 3 oz. (1900)

REFRIGERANT CHARGE

PIPE LENGTH	ft.	~49	66	98	131	164(MAX)	0.43 oz./ft. (40g/m)
	m	~15	20	30	40	50(MAX)	
ADDITIONAL CHARGE	lb. oz.	0 (Chargeless)	7.3 oz.	1 lb. 5.1 oz.	2 lb. 3.3 oz.	3 lb. 1.5 oz.	
	g	0 (Chargeless)	200	600	1000	1400	

2-10. OPERATION RANGE

Model		Mode	Operation Range		
Indoor unit	Outdoor unit		Indoor temperature	Indoor humidity	Outdoor temperature
AUU18R AUU24R	AOU18R AOU24R	Cooling Dry	64 to 88°F (18 to 31°C)	About 80% or less	0 to 115°F (-18 to 46°C)
		Heating	60 to 88°F (16 to 31°C)	-	14 to 75°F (-10 to 24°C)

CASSETTE TYPE
AUU18-24R

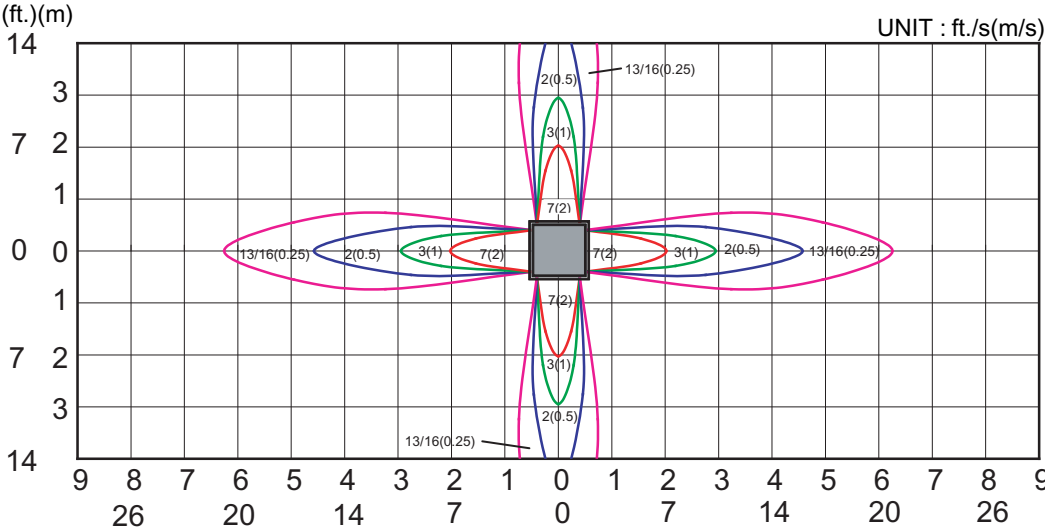
CASSETTE TYPE
AUU18-24R

2-11. FAN PERFORMANCE AND AIR FLOW

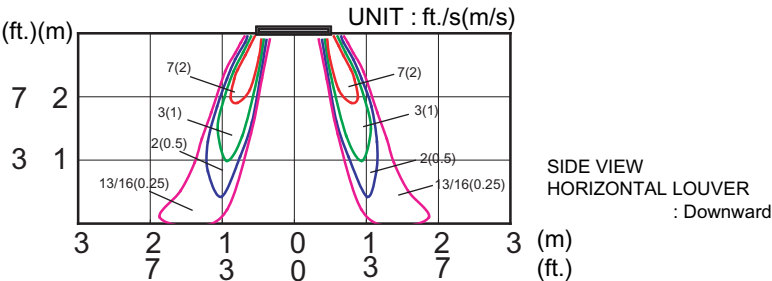
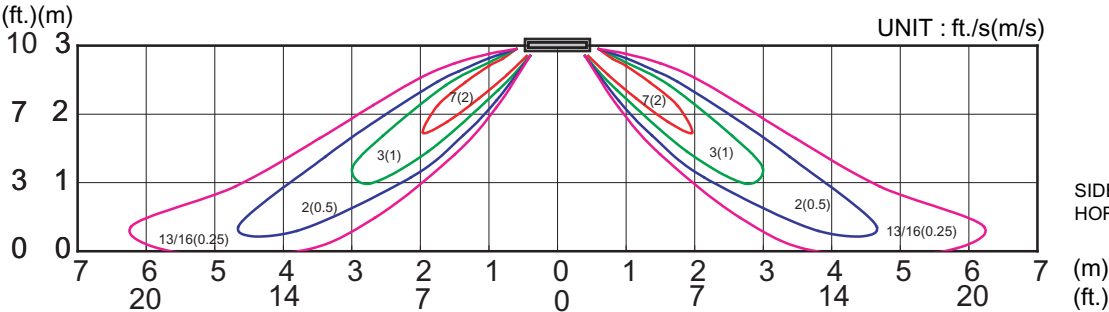
2-11-1. AIR VELOCITY DISTRIBUTION

■MODEL : AUU18R

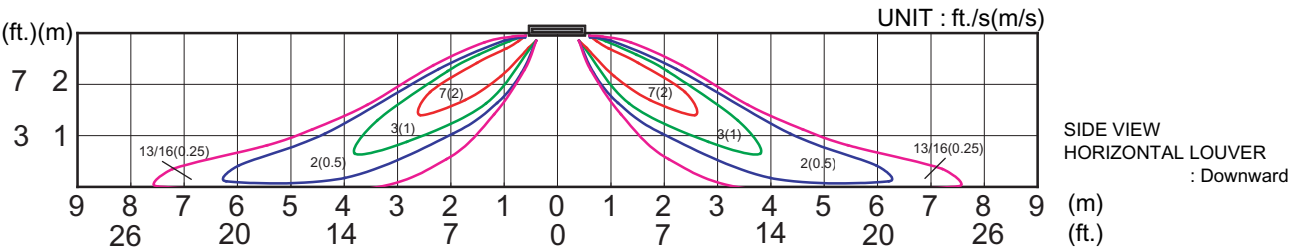
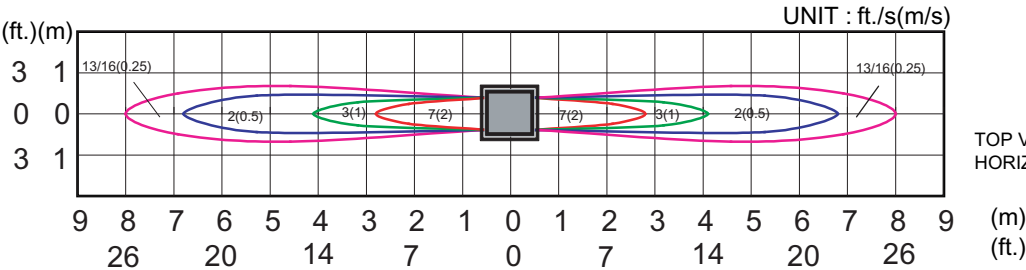
4-WAY AIR OUTLET



Note :
Condition
Fan speed : High
Operation mode : FAN

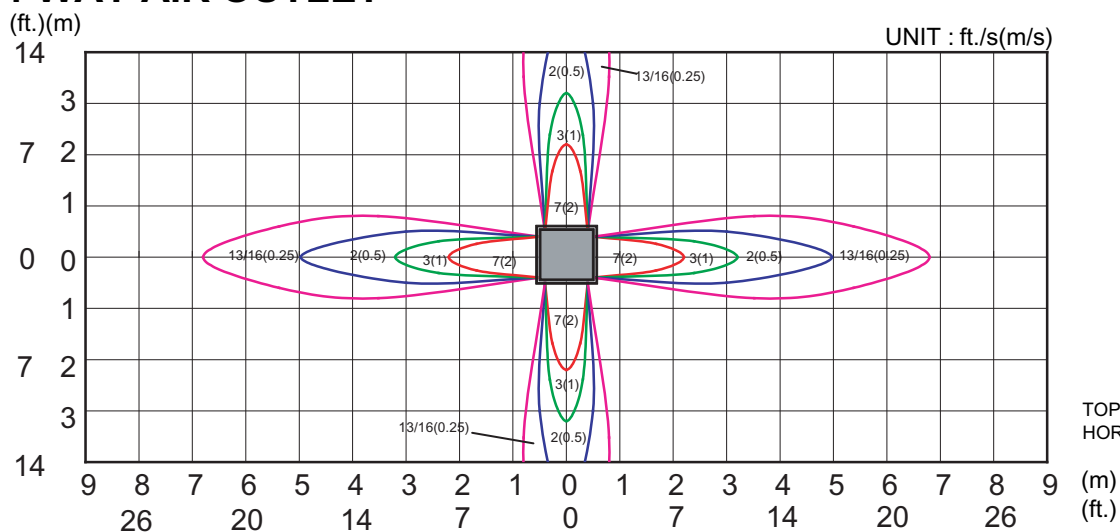


2-WAY AIR OUTLET

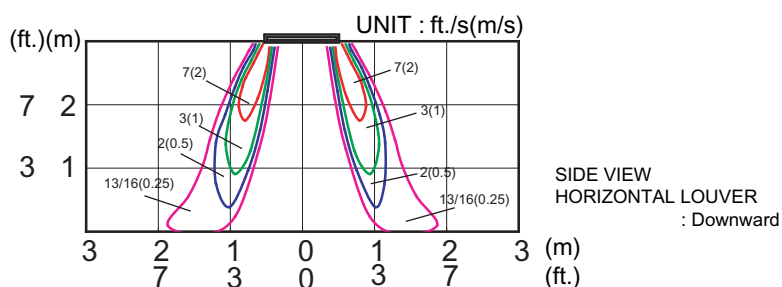
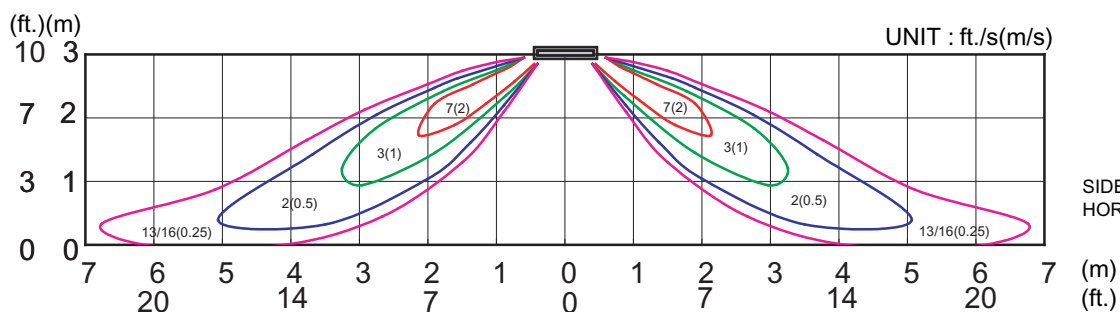


MODEL : AUU24R

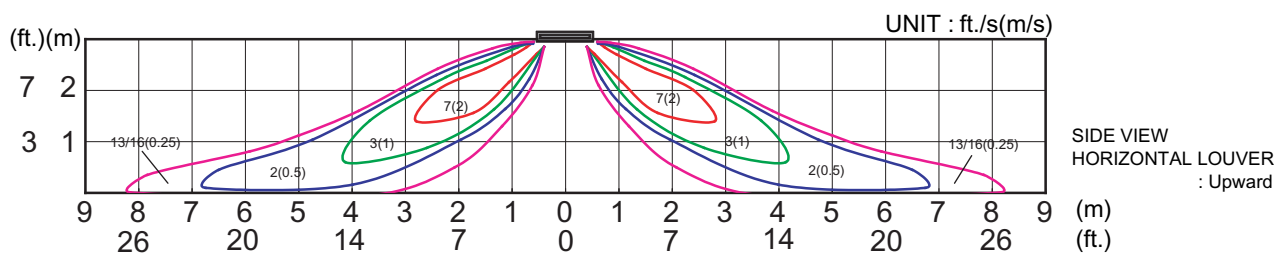
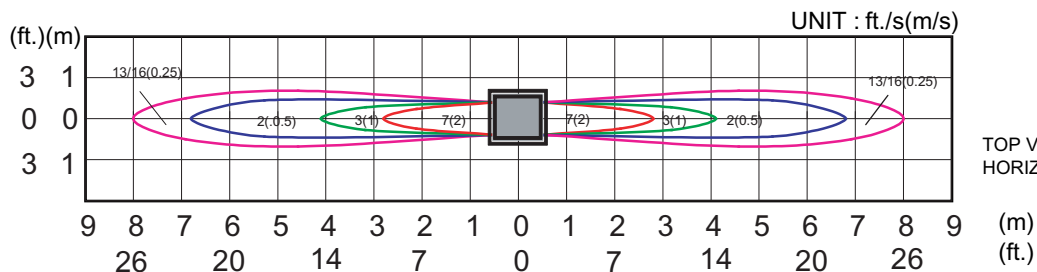
4-WAY AIR OUTLET



Note :
Condition
Fan speed : High
Operation mode : FAN



2-WAY AIR OUTLET



2-11-2. AIR FLOW

■ MODELS : AUU18R / AOU18R

	FAN SPEED	NUMBER OF ROTATIONS (r.p.m)	AIR FLOW	
Indoor unit	HIGH	450	m ³ /h	950
			l/s	264
			CFM	559
	MED	390	m ³ /h	810
			l/s	225
			CFM	477
	LOW	330	m ³ /h	670
			l/s	186
			CFM	394
Outdoor unit	HIGH	780	m ³ /h	3300
			l/s	917
			CFM	1942

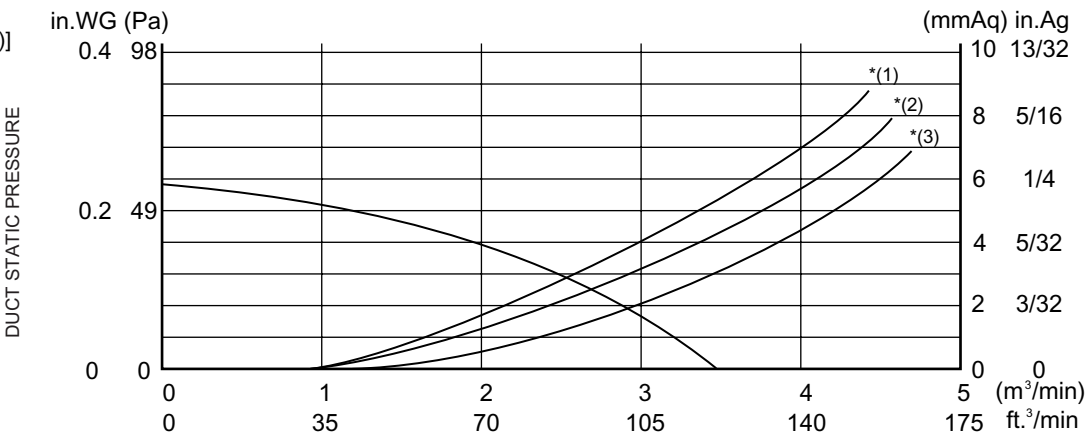
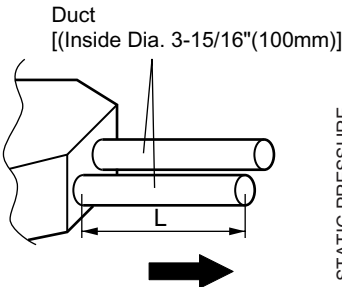
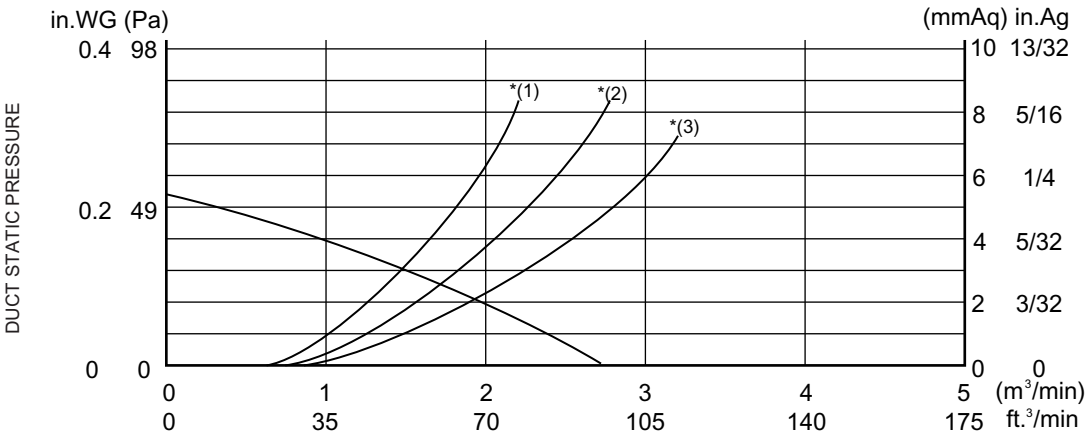
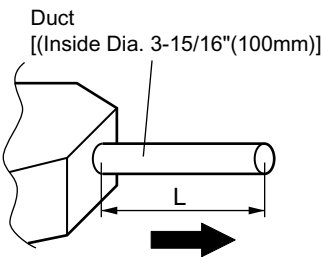
■ MODELS : AUU24R / AOU24R

	FAN SPEED	NUMBER OF ROTATIONS (r.p.m)	AIR FLOW	
Indoor unit	HIGH	490	m ³ /h	1050
			l/s	292
			CFM	618
	MED	430	m ³ /h	910
			l/s	253
			CFM	536
	LOW	360	m ³ /h	740
			l/s	206
			CFM	435
Outdoor unit	HIGH	850	m ³ /h	3600
			l/s	1000
			CFM	2119

2-11-3. DUCT CONNECTION

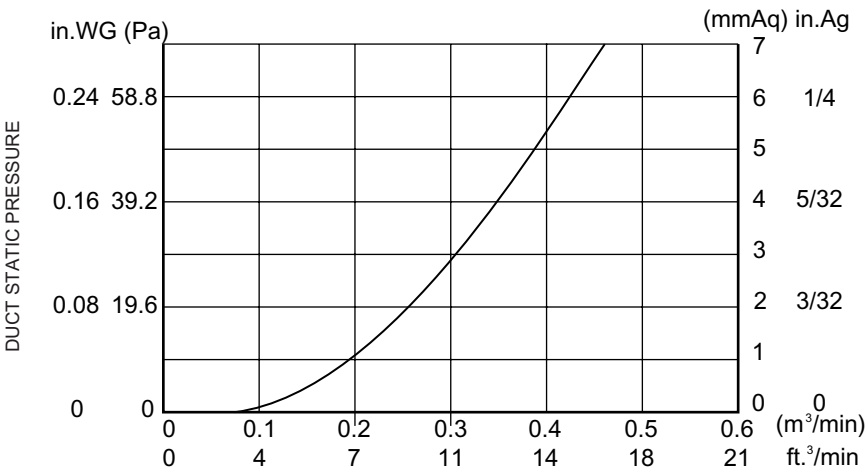
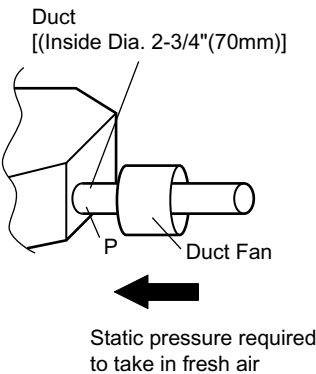
MODELS : AUU18R, AUU24R

OUTLET AIR



* (1) L=16' 4-27/32" (5m)
* (2) L=9' 10-1/8" (3m)
* (3) L=3' 3-3/8" (1m)

FRESH AIR

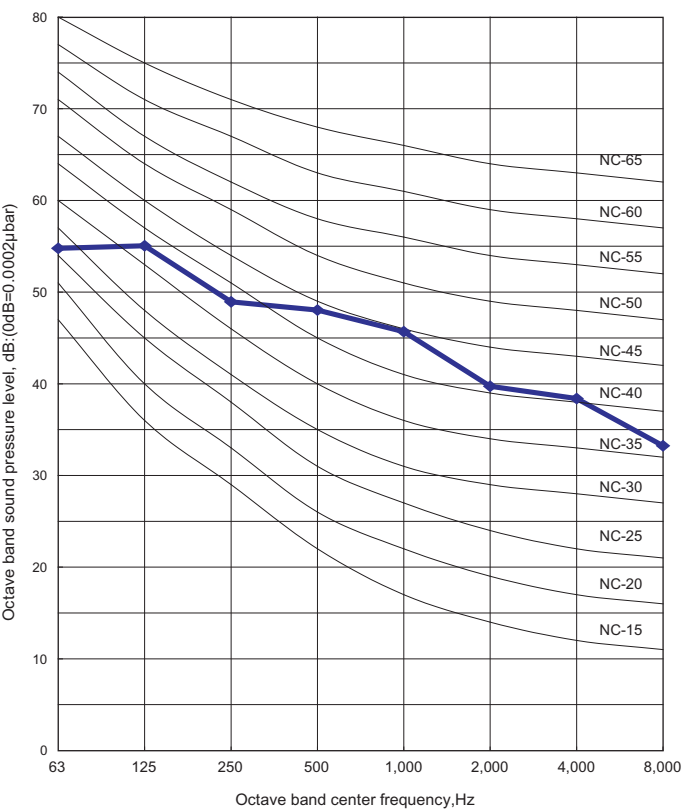


2-12. NOISE LEVEL CURVE

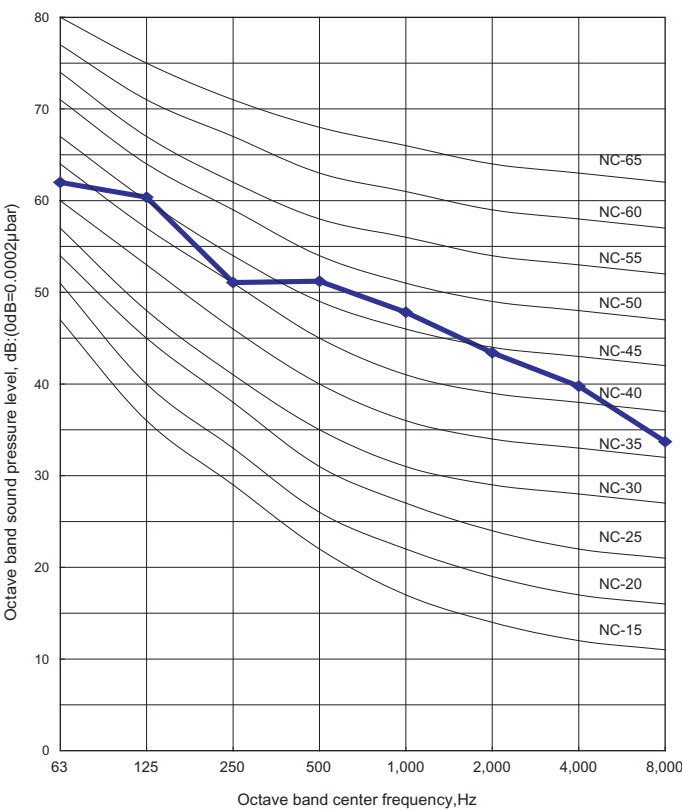
2-12-1. OUTDOOR UNIT

■ COOLING

● MODEL : AOU18R

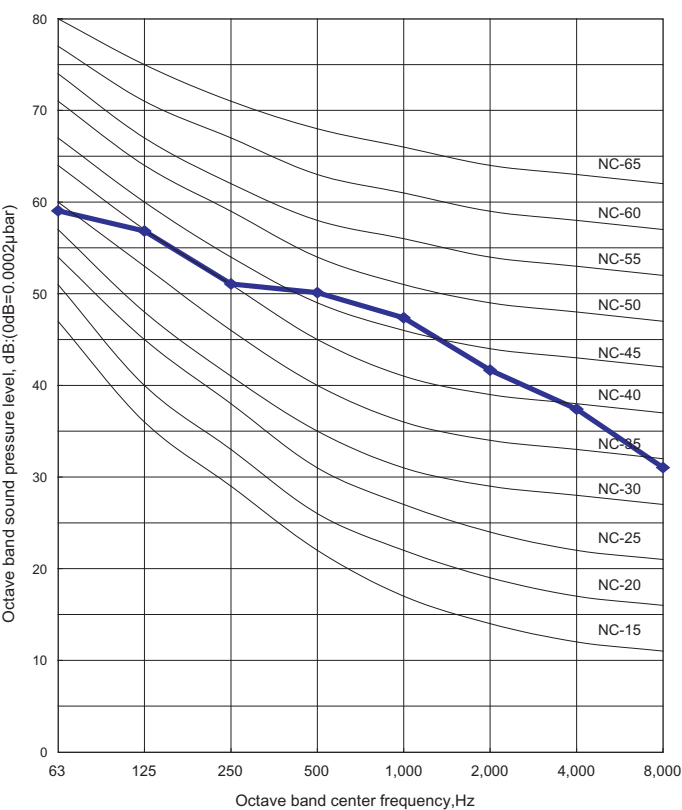


● MODEL : AOU24R

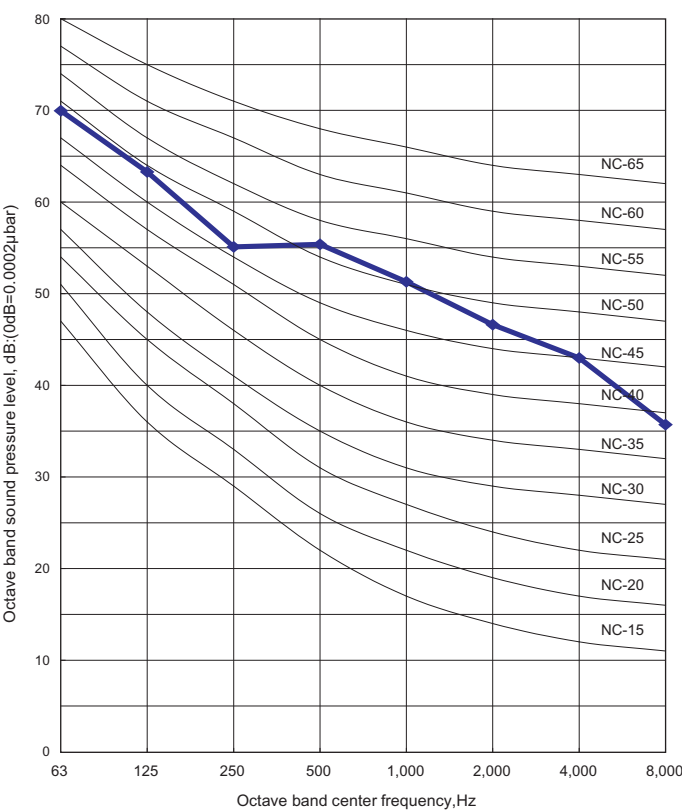


■ HEATING

● MODEL : AOU18R

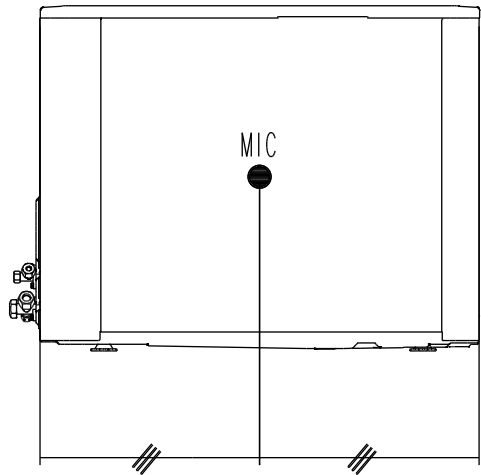
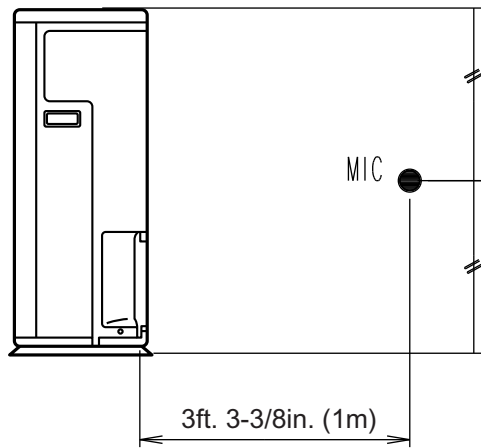


● MODEL : AOU24R



■ SOUND LEVEL CHECK POINT

CASSETTE TYPE
AUU18-24R

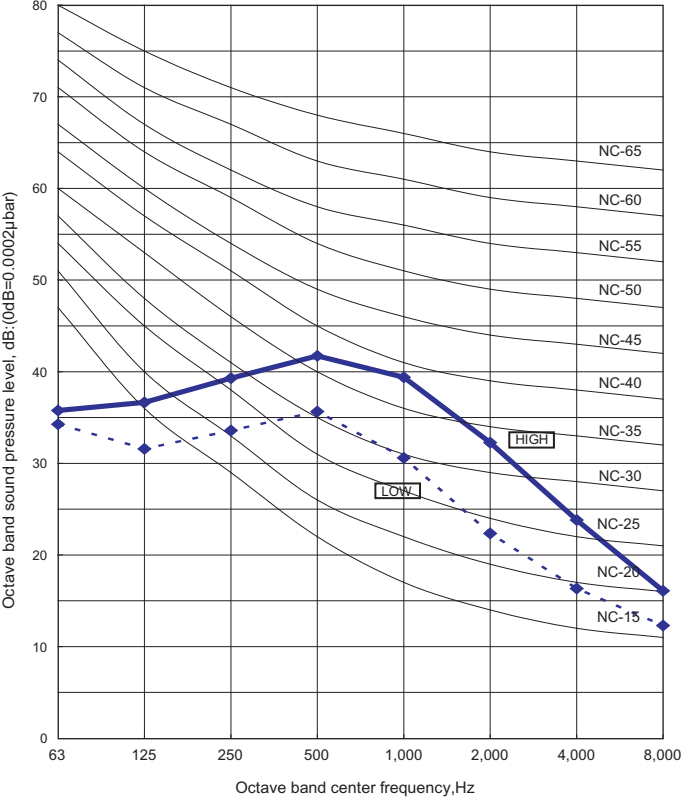


CASSETTE TYPE
AUU18-24R

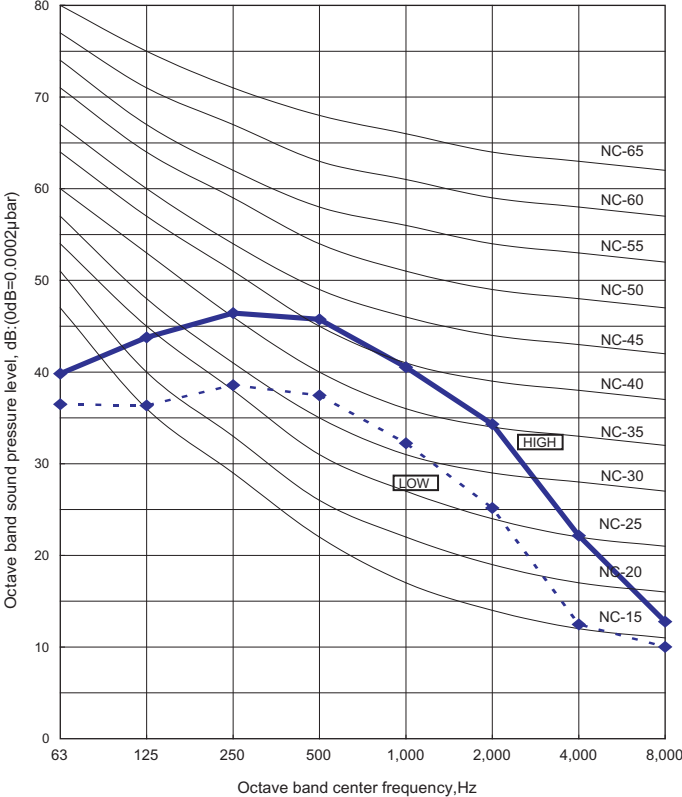
2-12-2. INDOOR UNIT

COOLING

MODEL : AUU18R

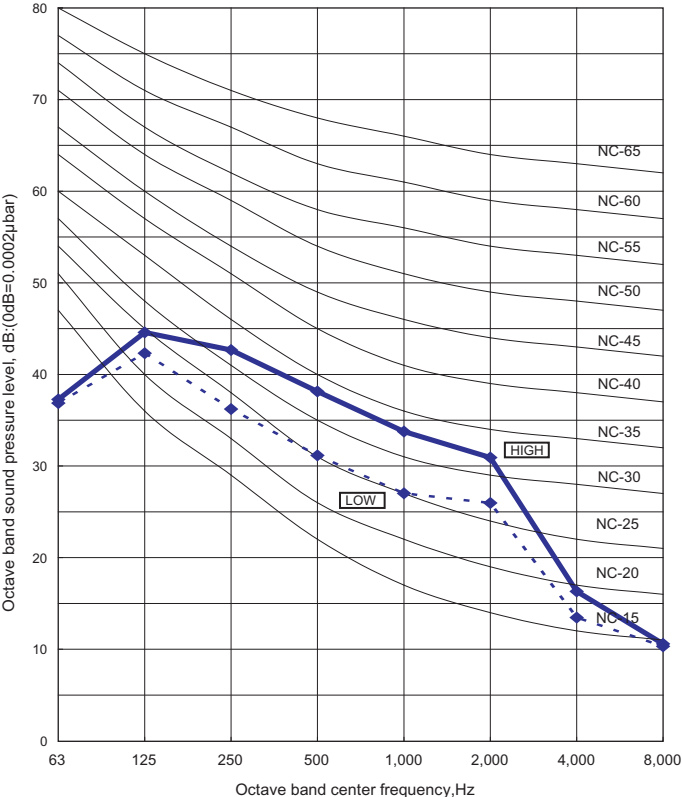


MODEL : AUU24R

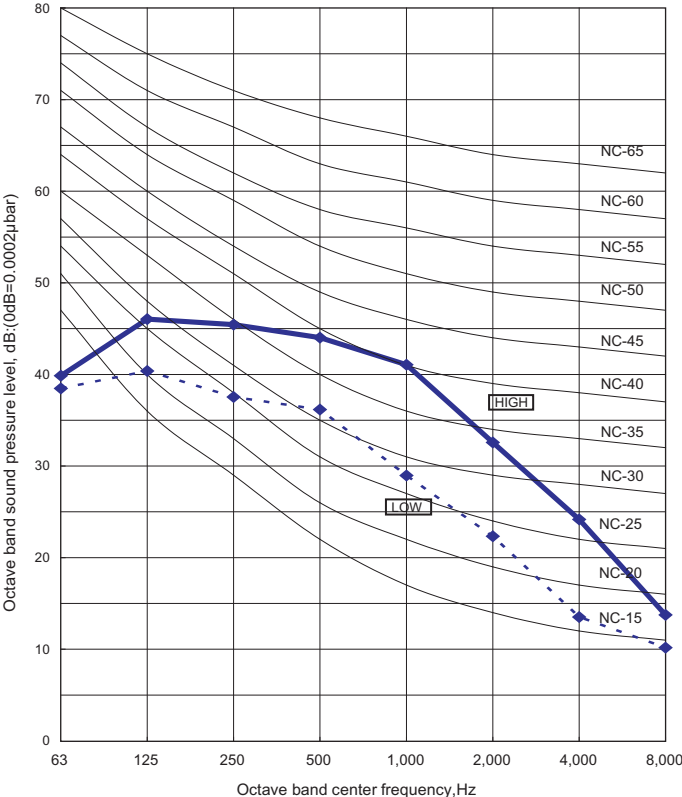


HEATING

MODEL : AUU18R



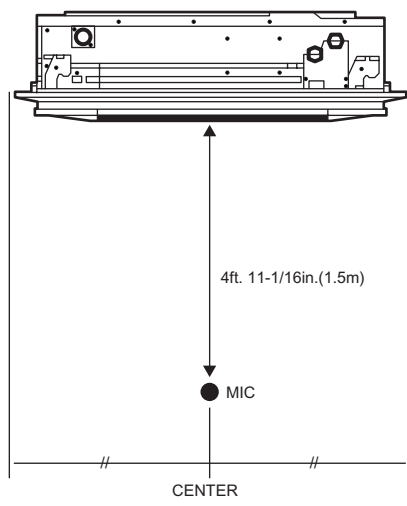
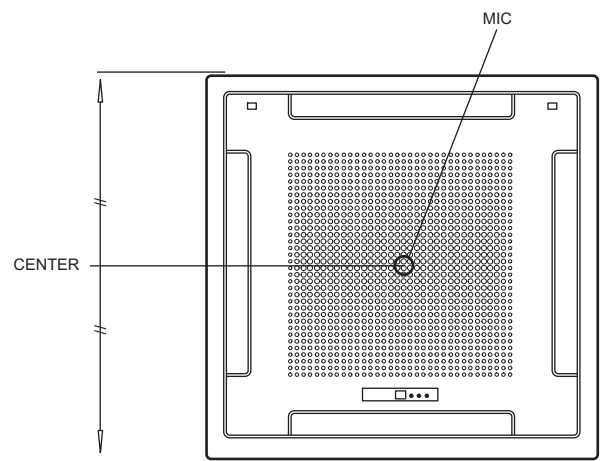
MODEL : AUU24R



■ SOUND LEVEL CHECK POINT

CASSETTE TYPE
AUJ18-24R

CASSETTE TYPE
AUJ18-24R



2-13. ELECTRIC CHARACTERISTICS

■ MODELS : AUU18R / AOU18R, AUU24R / AOU24R

Model Name	Indoor unit		AUU18R		AUU24R	
	Outdoor unit		AOU18R		AOU24R	
Power Supply	Voltage	V	230			
	Frequency	Hz	60			
Rated Value	Mode		Cooling	Heating	Cooling	Heating
	Current	A	7.0	8.9	9.2	10.4
	Input	kW	1.61	2.05	2.10	2.37
Max Operating Current		A	12.5	12.5	12.5	12.5
Starting Current		A	8.4		9.5	
*1) Wiring Spec.	Main Fuse (Circuit breaker) Current	A	20		20	
	Power Cable	AWG	12		12	
	*2)Limited wiring length	ft.	65		65	
Indoor Fan Motor	Input	kW	0.1		0.14	
	Full Load Amp.	A	0.45		0.63	
Outdoor Fan Motor	Input	kW	0.085		0.13	
	Full Load Amp.	A	0.38		0.59	

*1) Wiring Spec. :

Selected Sample (Selected based on Japan Electrotechnical Standard and Codes Committee E0005)

*2) Limited Wiring length :

This is the wiring length in case voltage descent is less than 2%.

When the wiring length becomes long, please select the wiring of a more larger diameter.

2-14. SAFETY DEVICE

■ OUTDOOR UNIT

	PROTECTION FORM	AOU18R , AOU24R	
FUSE ON MAIN PCB	CURRENT FUSE	3.15A 250V	
		5A 250V	
FAN MOTOR PROTECTION	THERMAL PROTECTOR	212 ⁺²⁷ ₋₁₈ °F	100 ⁺¹⁵ ₋₁₀ °C
COMPRESSOR PROTECTION	THERMAL PROTECTOR	OFF 257°F ON 176°F	OFF 125°C ON 80°C
HIGH PRESSURE PROTECTION	PRESSURE SWITCH	OFF:609±15 PSI ON:464±22 PSI	OFF:4.2±0.1MPa ON:3.2±0.15MPa

■ INDOOR UNIT

	PROTECTION FORM	AUU18R , AUU24R	
PCB FUSE	CURRENT FUSE	3.15A 250V	
FAN MOTOR PROTECTION	THERMAL PROTECTOR	302±9°F OFF	105±5°C OFF

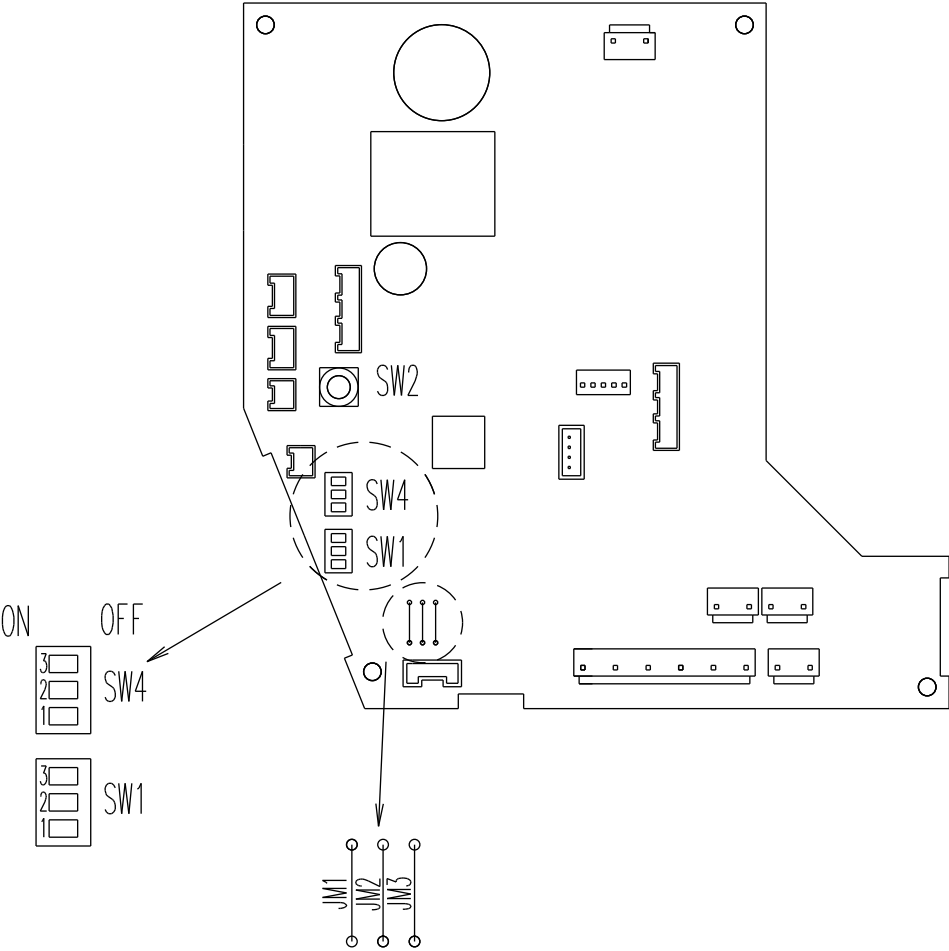
2-15. FUNCTION SETTING

2-15-1. INDOOR UNIT

INDOOR UNIT			
DIP SW	SW 1	1	Auto restart validity/invalidity
		2	Room temperature correct coefficient
		3	Room temperature correct coefficient
	SW 4	1	Forbidden
		2	Ceiling height setting
		3	
Rotary SW	SW 2		Indoor unit number setting
Jumper Wire		JM1	Forbidden
		JM2	Forbidden
		JM3	Forbidden

SWITCH POSITION

Indoor unit control circuit board



2-15-2. SWITCH FUNCTION (INDOOR UNIT)

■ DIP SWITCH SETTING

● SW1-1. Auto restart setting

Auto restart function can be selected by turning this switch ON/OFF.

AUTO RESTART SETTING

(◆ . . . Factory setting)

SW 1-1	SW state
OFF	Invalidity
ON	Validity

● SW1-2, 1-3. Room temperature correct coefficient of heating.

Decide the heating temperature correct coefficient value of heating.

TEMPERATURE CORRECTION

(◆ . . . Factory setting)

SW 1-2	SW 1-3	SW state		
		heating	dry	cooling
OFF	OFF	+3.6degF	-3.6degF	-3.6degF
ON	OFF	-3.6degF	-3.6degF	-3.6degF
OFF	ON	0 degF	0 degF	0 degF
ON	ON	+7.2degF	0 degF	0 degF

● SW4-1. Dip SW 4-1 setting forbidden

(◆ . . . Factory setting)

SW 4-1	OFF
--------	-----

● SW4-2, 4-3. Ceiling height setting

(◆ . . . Factory setting)

Ceiling height ft. (m)		DIP - SW4		
		1	2	3
8ft. 2-7/16in. to 9ft. 10-1/8in. (2.5 to 3.0)	Normal	-	OFF	OFF
9ft. 10-1/8in. to 11ft. 5-25/32in. (3.0 to 3.5)	High ceiling 1	-	ON	OFF
More than 11ft. 5-25/32in. (3.5)	High ceiling 2	-	OFF	ON
Less than 8ft. 2-7/16in. (2.5)	Low ceiling	-	ON	ON

If the setting for a low ceiling is selected, the capacity of the air conditioner decreases slightly.

■ ROTARY SWITCH SETTING (SW2)

This switch can be used when group control system.
Set the indoor unit address in the 0,1,-,15 order.

(◆ . . . Factory setting)

◆	SW 2	SW state
	0	Single
	1 - 15	Indoor unit address

■ JUMPER WIRE SETTING

JM 1, 2, 3 setting forbidden

(◆ . . . Factory setting)

◆	JM 1, 2, 3	SW state
	Connect	Forbidden
	Disconnect	

2-15-3. WIRED REMOTE CONTROLLER CIRCUIT BOARD

CASSETTE TYPE
AUU18-24R

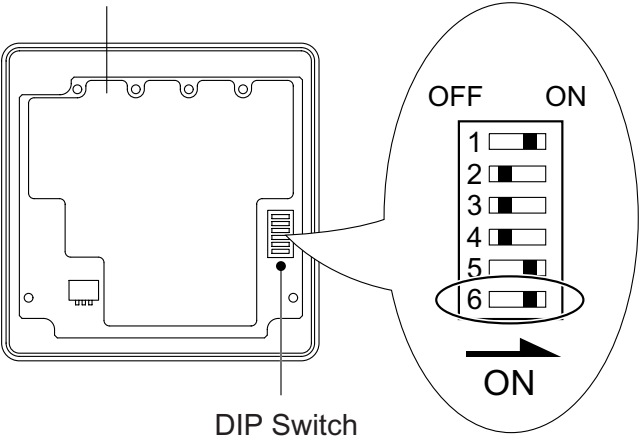
Wired remote controller		
DIP SW	1	Dual remote controller setting
	2	
	3	Group control setting
	4	Model setting
	5	Auto changeover setting
	6	Memory backup setting

CASSETTE TYPE
AUU18-24R

■ SWITCH POSITION

● Wired remote controller

Front case (back side)



2-15-4. WIRED REMOTE CONTROLLER

■ DIP SWITCH SETTING

● 1. SW setting

1-1 Dual remote controller setting

Set the remote controller DIP switch No.1 and 2 according to the following table.

(◆ . . . Factory setting)

Number of remote controller	Master unit		Slave unit	
	DIP-SW No.1	DIP-SW No.2	DIP-SW No.1	DIP-SW No.2
◆ 1 (Normal)	ON	OFF	—	—
2 (Dual)	OFF	OFF	ON	ON

1-2 Group control setting

Number of indoor unit connection (One/Multiple)

This is switched according to the number of connected indoor units.

(◆ . . . Factory setting)

DIP-SW No.3	Number of indoor unit
◆ OFF	One unit connection
ON	Multiple unit connection

1-3 Model setting

The system type of the outdoor unit can be selected by setting up DIP switch No.4 as follows.

(◆ . . . Factory setting)

DIP-SW No.4	Model
◆ OFF	Heat Pump model
ON	Cooling only model

1-4 Auto changeover setting

Selecting auto changeover validity / invalidity.

(◆ . . . Factory setting)

DIP-SW No.5	Auto changeover
OFF	Invalidity
◆ ON	Validity

1-5 Memory backup setting

Set to ON to use batteries for the memory backup.If batteries are not used, all of the settings stored in memory will be deleted if there is a power failure.

※ This function is wired remotecontrol only.

(◆ . . . Factory setting)

DIP-SW No.6	Memory backup
OFF	Invalidity
◆ ON	Validity

2-16. OPTIONAL PARTS

■ ADDITIONAL GRILLE UTG-AGEA-W

The additional grille hides the gap between the ceiling hole and the outlet grille.

Additional grille (optional parts)

