



AIR CONDITIONER

Wall Mounted type

DESIGN & TECHNICAL MANUAL

INDOOR



ASU30CLX1
ASU36CLX1

OUTDOOR



AOU30CLX1
AOU36CLX1

FUJITSU GENERAL LIMITED

1. INDOOR UNIT

WALL MOUNTED TYPE :

ASU30CLX1

ASU36CLX1

CONTENTS

1. INDOOR UNIT

1. FEATURE	01 - 01
2. WIRELESS REMOTE CONTROLLER	01 - 03
3. SPECIFICATIONS	01 - 05
4. DIMENSIONS	01 - 06
5. WIRING DIAGRAMS	01 - 07
6. CAPACITY TABLE	01 - 08
6-1. COOLING CAPACITY	01 - 08
7. FAN PERFORMANCE	01 - 10
7-1. AIR VELOCITY DISTRIBUTION.....	01 - 10
7-2. AIR FLOW.....	01 - 12
8. OPERATION NOISE	01 - 13
8-1. NOISE LEVEL CURVE	01 - 13
8-2. SOUND LEVEL CHECK POINT	01 - 14
9. ELECTRIC CHARACTERISTICS	01 - 15
10. SAFETY DEVICES	01 - 16
11. EXTERNAL INPUT & OUTPUT	01 - 17
11-1. EXTERNAL INPUT	01 - 17
11-2. EXTERNAL OUTPUT.....	01 - 18
12. FUNCTION SETTING	01 - 19
12-1. INDOOR UNIT	01 - 19
13. OPTIONAL PARTS	01 - 21

1. FEATURE

■ MODEL

ASU30CLX1 / AOU30CLX1
ASU36CLX1 / AOU36CLX1



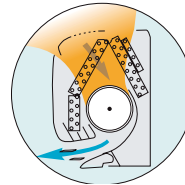
■ FEATURES

● High energy performance

		MODEL	
		ASU30CLX1	ASU36CLX1
Seasonal Energy Efficiency Ratio (SEER)	BTU/hW	16.5	15.5
Energy Efficient Ratio (EER)		9.5	8.5

MEASUREMENT CONDITIONS
ANSI/ASHRAE STANDARD 37-1988

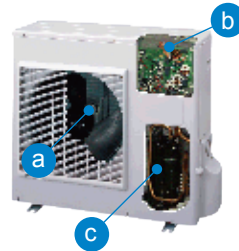
● ALL DC



High efficiency layout

Large air flow and quiet operation by new air flow path

- a DC fan motor**
- b PAM control**
PAM technology makes a compressor more powerful.
- c DC twin rotary compressor**
More compact compared with conventional model



Front view

● Super quiet

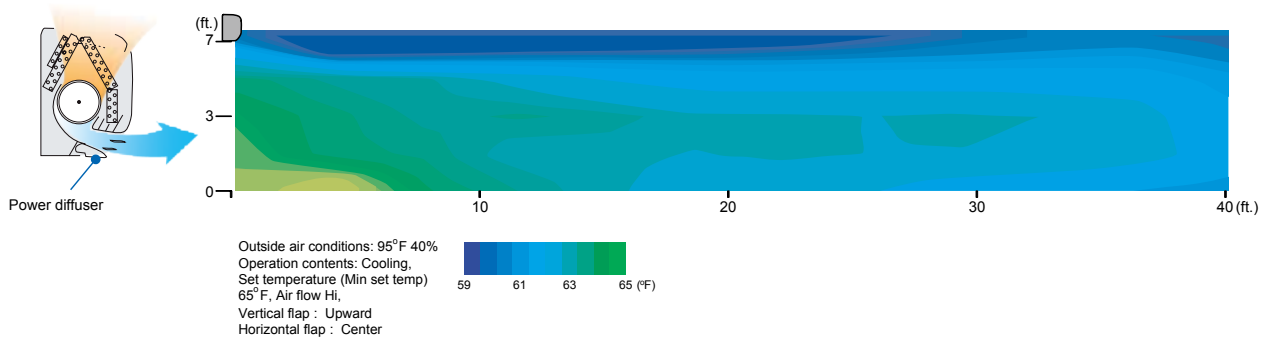
Air flow mode can be set in 4 steps and more detailed air flow setting is possible.

● Easy maintenance

Easy maintenance and always clean. Troublesome maintenance has been made easy.
Since the front panel is easy to remove, maintenance is also easy.

● Power diffuser

“Healthy horizontal air flow” does not blow cool air directly at the occupants in the room.

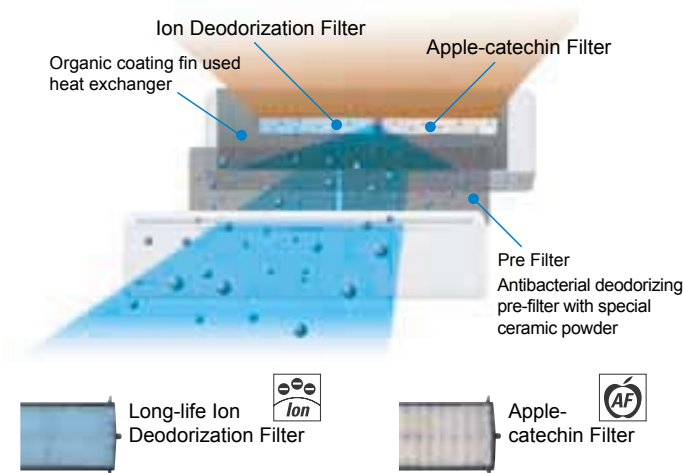


● Low outdoor air temperature cooling correspondence

Corresponds to cooling operation at 14°F (-10°C) outdoor air temperature

● Corresponds to maximum 164 feet (50m) long piping

● Air conditioner filter features



● Blue fin heat exchanger

Corrosion-resistance of the heat exchanger even in coastal areas has been improved by blue fin treatment of the outdoor unit heat exchanger.



2. WIRELESS REMOTE CONTROLLER

■ FEATURES



- * Four kinds of timer setup (On / Off / Program / Sleep) are possible.
- * Four kinds of timers. Easy operation.
- * Easy to change transmission code (4 patterns) by button operation.

● Built-in timers

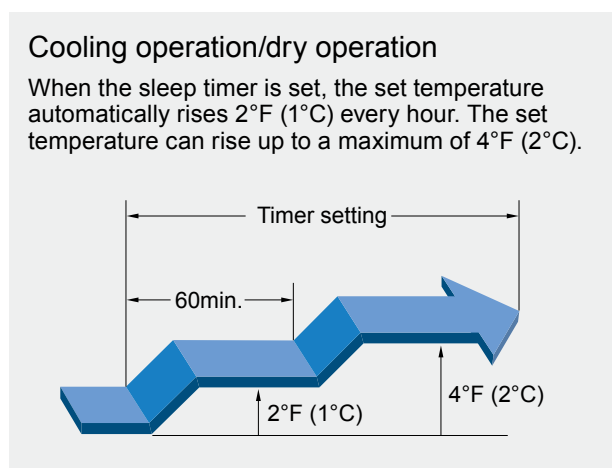
Select from four different timer programs (On / Off / Program / Sleep).

● Program timer

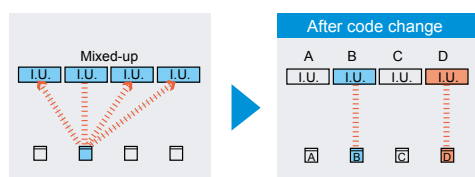
The program timer operates the on and off timer once within a 24 hour period.

● Sleep timer

The sleep timer function automatically corrects the temperature thermostat setting according to the timer setting to prevent excessive cooling while sleeping.



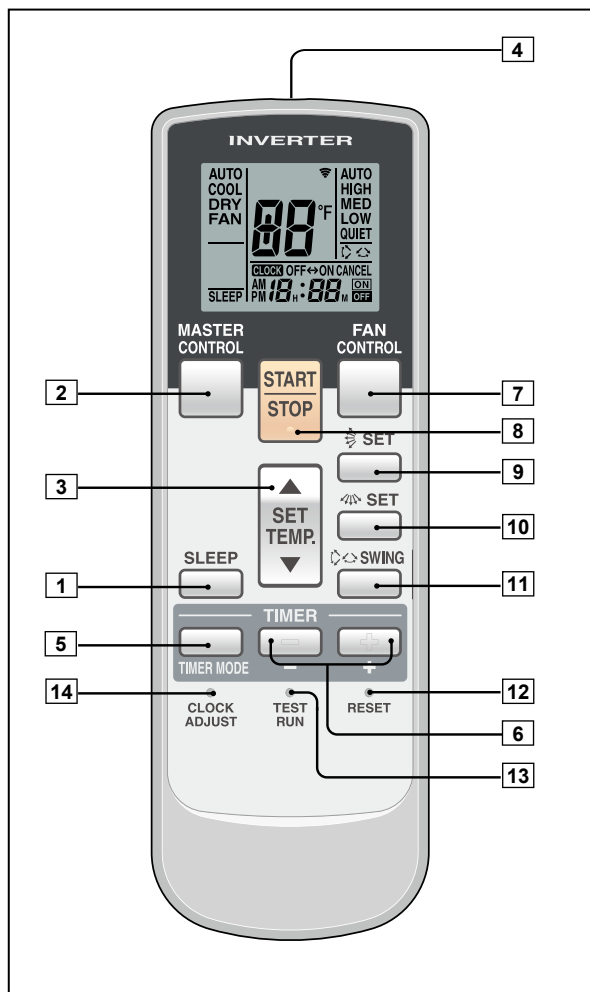
● Switching remote controller signal code



- Code selector switch eliminates unit being wrongly switched.
(Up to 4 codes can be set.)

*I.U.=Indoor unit

FUNCTIONS



- 1 SLEEP button
- 2 MASTER CONTROL button
- 3 SET TEMP. button (▲ / ▼)
- 4 Signal transmitter
- 5 TIMER MODE button
- 6 TIMER SET (+ / -) button
- 7 FAN CONTROL button
- 8 START/STOP button
- 9 SET button (Vertical)
- 10 SET button (Horizontal)
- 11 SWING button
- 12 RESET button
- 13 TEST RUN button

- This button is used when installing the air conditioner, and should not be used under normal conditions, as it will cause the indoor unit's thermostat function to operate incorrectly.
- If this button is pressed during normal operation, the indoor unit will switch to test operation mode, and the Indoor Unit's OPERATION Indicator Lamp and TIMER Indicator Lamp will begin to flash simultaneously.
- To stop the test operation mode, press the START/STOP button to stop the air conditioner.

14 CLOCK ADJUST button

15 Remote controller display

16 Transmit indicator

17 Clock display

18 Operating mode display

19 Timer mode display

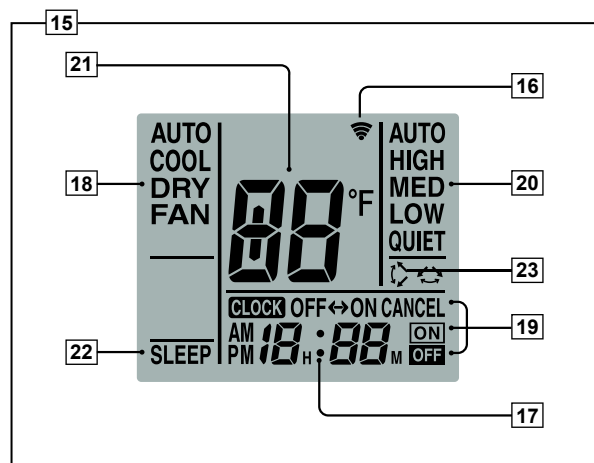
20 Fan speed display

21 Temperature set display

22 Sleep display

23 Swing display

Display panel



To facilitate explanation, the accompanying illustration has been drawn to show all possible indicators; in actual operation, however, the display will only show those indicators appropriate to the current operation.

Functions will be different due to type of indoor unit.
For details, please see operation manual.

SPECIFICATION

SIZE [H x W x D]	in. (mm)	6-11/16 x 2-7/32 x 3/4 (170 x 56 x 19)
WEIGHT [w/o batteries]	oz. (g)	3 (85)
ACCESSORY		Holder

3. SPECIFICATIONS

Type				WALL MOUNTED INVERTER COOLING ONLY			
Model name				ASU30CLX1	ASU36CLX1		
Power source				208/230V ~ 60Hz			
Available voltage range				187-253V ~ 60Hz			
Capacity	Cooling	Rated	kW	9.00	9.70		
			BTU/h	30,700	33,000		
		Min-Max	kW	2.90 - 9.50	2.90 - 10.00		
			BTU/h	9900 - 32400	9900 - 34100		
	Heating	Rated	kW	-	-		
			BTU/h	-	-		
Min-Max		kW	-	-			
		BTU/h	-	-			
Input power	Cooling	Rated	kW	3.24	3.88		
				Max	3.87	4.10	
	Heating	Rated		-	-		
		Max		-	-		
Current	Cooling	Rated	A	14.2	17.0		
		Max		17.0	18.0		
	Heating	Rated		-	-		
		Max		-	-		
EER	Cooling	kW/kW	2.78	2.50			
		BTU/hW	9.5	8.5			
COP	Heating	kW/kW	-	-			
		BTU/hW	-	-			
SEER	Cooling	BTU/hW	16.5	15.5			
HSPF	Heating	BTU/hW	-	-			
SENSIBLE CAPACITY				Cooling	kW	6.25	6.39
POWER FACTOR				Cooling	%	99	99
				Heating		-	-
Moisture removal				pints/h (l/h)		9.7(4.6)	10.1(4.8)
Fan	Airflow rate	Cooling	High	CFM (m ³ /h)	659 (1,120)	694 (1,180)	
			Med		530 (900)	530 (900)	
			Low		435 (740)	435 (740)	
			Quiet		365 (620)	365 (620)	
		Heating	High		-	-	
			Med		-	-	
			Low		-	-	
			Quiet		-	-	
	Type × Q'ty				Cross flow fan x 1		
	Motor output				W		42
Sound pressure level				Cooling	High	49	50
					Med	42	42
					Low	37	37
					Quiet	33	33
				Heating	High	-	-
					Med	-	-
					Low	-	-
					Quiet	-	-
Heat exchanger type				Dimensions (H × W × D)	in. (mm)		Main:15-7/8 x 33-3/4 x 1-1/16 (378×832×26.6) Sub: 3-5/16 x 33-3/4 x 17/32 (84×832×13.3)
				Fin pitch	FPI		Main:21, Sub:18
				Rows x Stages			Main:2×18, Sub:1×4
				Pipe type			Copper
				Fin type			Aluminium
Enclosure				Material	Polystyrene		
				Color	White Approximate Color of MUNSELL N9.25/		
Dimensions (H×W×D)		Net		mm	320×998×228		
				inch	12-5/8×39-1/4×9		
		Gross		mm	319×1090×429		
				inch	12-3/5×42-15/16×16-7/8		
Weight		Net		lb.(kg)	31 (14)		
				Gross		40 (18)	
Connection pipe		Size	Liquid	in. (mm)	Ø3/8 (Ø9.52)		
			Gas		Ø5/8 (Ø15.88)		
		Method	Flare				
Operation range		Cooling	°F (°C)	64 to 90 (18 to 32)			
			%RH	80 or less			
		Heating	°F (°C)	-	-		
Remote controller type				Wireless			
Drain pipe		Material		PVC			
		Size		mm (Reference in.)		Outer diameter: 28 (1-3/32) Inner diameter: 16 (5/8)	

Note :

Specifications are based on the following conditions.

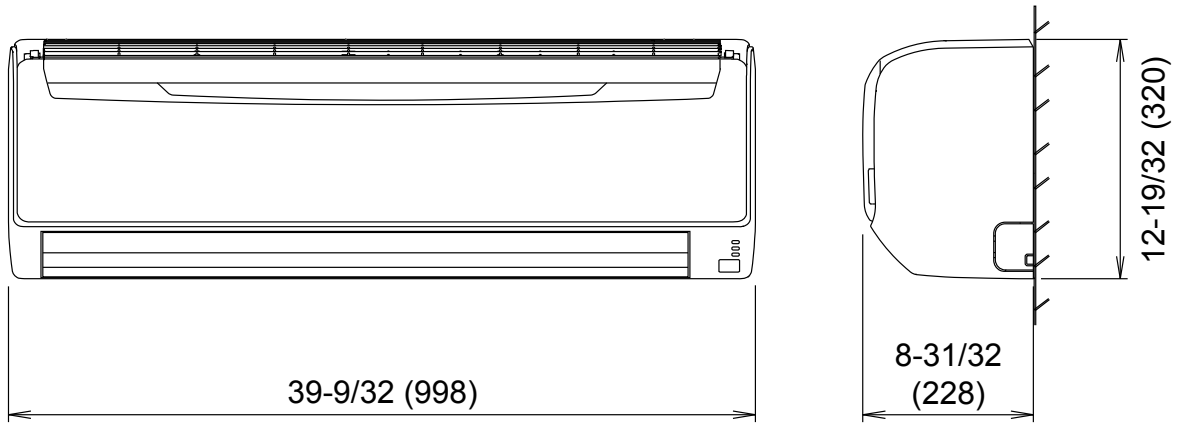
Cooling : Indoor temperature of 80°F (26.67 °C)DB / 67°F (19.44 °C)WB, and outdoor temperature of 95°F (35 °C)DB / 75°F (23.9 °C)WB.

Pipe length : 24ft.7in. (7.5 m), Height difference : 0 m.(Outdoor unit - Indoor unit)

4. DIMENSIONS

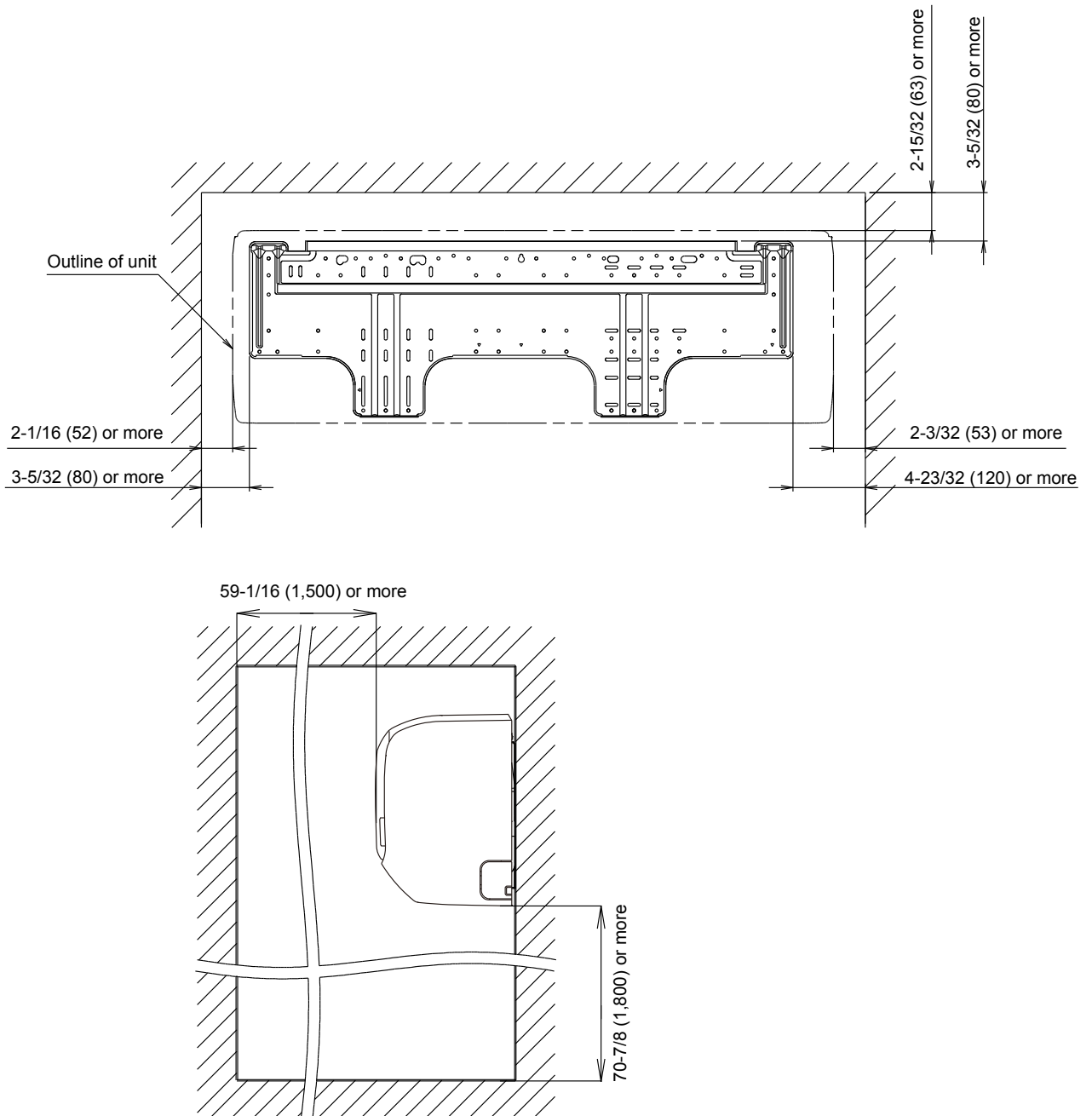
MODEL: ASU30CLX1, ASU36CLX1

Unit : in. (mm)



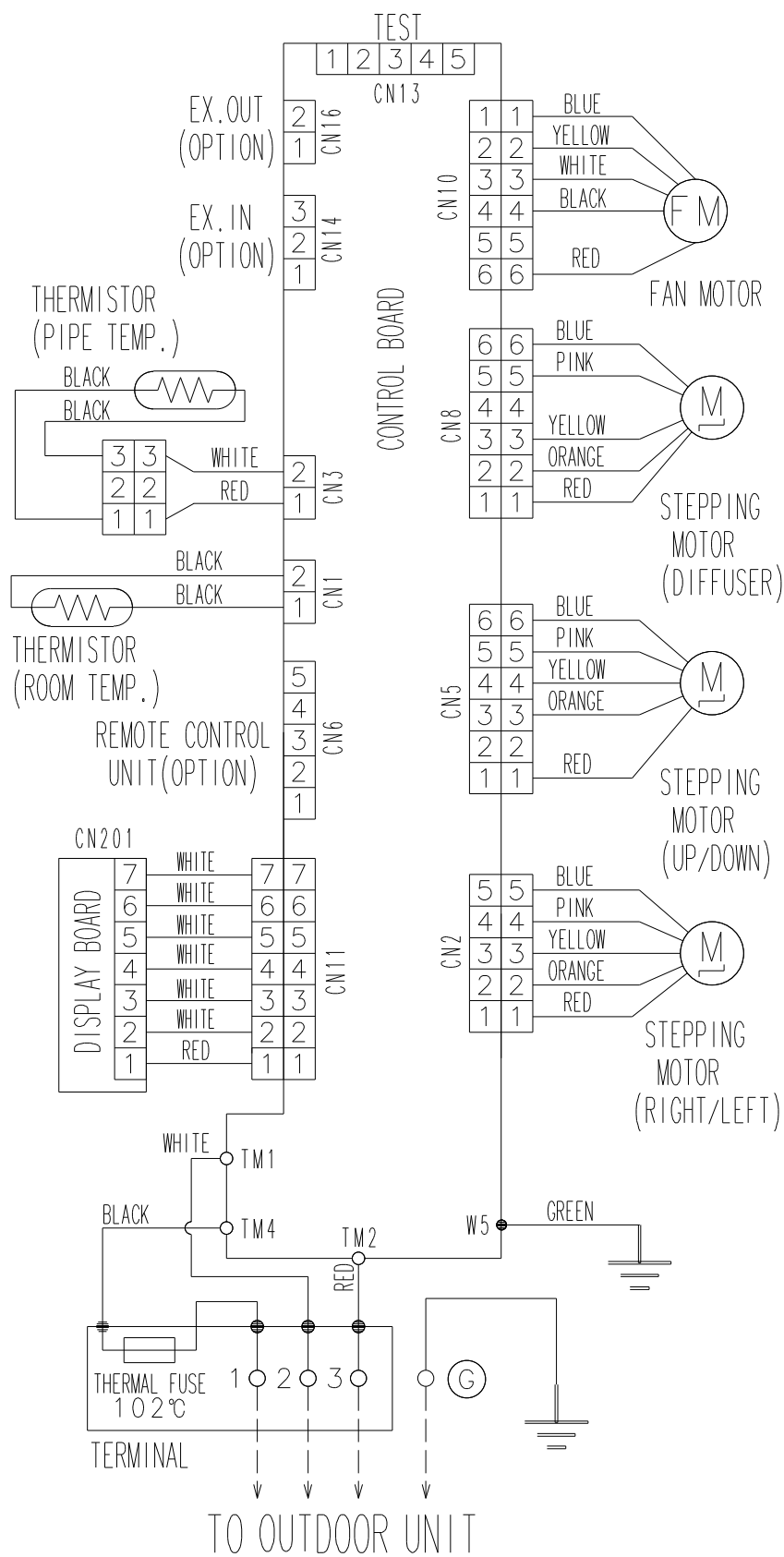
INSTALLATION PLACE

Unit : in. (mm)



5. WIRING DIAGRAMS

MODEL: ASU30CLX1, ASU36CLX1



6. CAPACITY TABLE

6-1. COOLING CAPACITY

■ MODEL: ASU30CLX1

AFR	659
-----	-----

		Indoor temperature																	
		64			70			75			80			85			90		
		54			60			63			67			71			73		
Outdoor temperature	°FDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	14	26.31	18.98	0.82	29.31	19.09	0.83	32.30	20.83	0.84	33.30	22.49	0.85	35.30	22.40	0.86	37.30	23.86	0.87
	32	26.28	19.70	1.08	29.27	19.81	1.10	32.27	21.61	1.11	33.27	23.34	1.12	35.26	23.24	1.13	37.26	24.76	1.14
	41	26.26	18.96	1.20	29.26	19.07	1.22	32.25	20.80	1.24	33.25	22.46	1.25	35.24	22.37	1.26	37.24	23.83	1.27
	50	26.20	19.33	1.36	29.19	19.44	1.38	32.17	21.21	1.40	33.17	22.90	1.41	35.16	22.81	1.42	37.15	24.30	1.44
	59	26.02	19.23	1.50	28.99	19.34	1.53	31.95	21.10	1.55	32.94	22.78	1.56	34.92	22.69	1.57	36.89	24.17	1.59
	67	25.03	18.67	1.76	27.88	18.78	1.78	30.73	20.48	1.81	31.68	22.12	1.82	33.58	22.03	1.84	35.48	23.47	1.86
	77	26.98	19.77	2.52	30.05	19.88	2.55	33.12	21.69	2.59	34.15	23.42	2.61	36.20	23.33	2.63	38.25	24.85	2.66
	87	25.67	19.03	2.81	28.60	19.14	2.86	31.52	20.88	2.90	32.50	22.55	2.91	34.45	22.46	2.94	36.40	23.92	2.97
	95	24.26	18.24	3.13	27.02	18.35	3.18	29.79	20.01	3.22	30.70	21.35	3.24	32.55	21.53	3.27	34.39	22.93	3.30
	104	22.68	17.37	3.43	25.26	17.47	3.49	27.84	19.06	3.54	28.70	20.58	3.56	30.43	20.50	3.59	32.15	21.84	3.63
	115	17.27	14.47	2.87	19.23	14.56	2.91	21.20	15.88	2.96	21.86	17.15	2.97	23.17	17.08	3.00	24.48	18.20	3.03

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

AFR	18.7
-----	------

		Indoor temperature																	
		17.8			21.1			23.9			26.7			29.4			32.2		
		12.2			15.6			17.7			19.4			21.7			22.8		
Outdoor temperature	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	-10.0	7.71	5.56	0.82	8.59	5.60	0.83	9.47	6.10	0.84	9.76	6.59	0.85	10.35	6.56	0.86	10.93	6.99	0.87
	0.0	7.70	5.77	1.08	8.58	5.81	1.10	9.46	6.33	1.11	9.75	6.84	1.12	10.33	6.81	1.13	10.92	7.26	1.14
	5.0	7.70	5.56	1.20	8.57	5.59	1.22	9.45	6.10	1.24	9.74	6.58	1.25	10.33	6.56	1.26	10.91	6.98	1.27
	10.0	7.68	5.66	1.36	8.55	5.70	1.38	9.43	6.22	1.40	9.72	6.71	1.41	10.30	6.69	1.42	10.89	7.12	1.44
	15.0	7.63	5.64	1.50	8.50	5.67	1.53	9.36	6.18	1.55	9.65	6.68	1.56	10.23	6.65	1.57	10.81	7.08	1.59
	19.4	7.33	5.47	1.76	8.17	5.50	1.78	9.01	6.00	1.81	9.28	6.48	1.82	9.84	6.46	1.84	10.40	6.88	1.86
	25.0	7.91	5.79	2.52	8.81	5.83	2.55	9.71	6.36	2.59	10.01	6.86	2.61	10.61	6.84	2.63	11.21	7.28	2.66
	30.6	7.52	5.58	2.81	8.38	5.61	2.86	9.24	6.12	2.90	9.52	6.61	2.91	10.10	6.58	2.94	10.67	7.01	2.97
	35.0	7.11	5.35	3.13	7.92	5.38	3.18	8.73	5.87	3.22	9.00	6.26	3.24	9.54	6.31	3.27	10.08	6.72	3.30
	40.0	6.65	5.09	3.43	7.40	5.12	3.49	8.16	5.59	3.54	8.41	6.03	3.56	8.92	6.01	3.59	9.42	6.40	3.63
	46.1	5.06	4.24	2.87	5.64	4.27	2.91	6.21	4.65	2.96	6.41	5.03	2.97	6.79	5.01	3.00	7.17	5.33	3.03

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

MODEL: ASU36CLX1

AFR	695
-----	-----

		Indoor temperature																				
		°FDB			64			70			75			80			85			90		
		°FWB			54			60			63			67			71			73		
Outdoor temperature	°FDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
	14	27.62	19.93	1.01	30.77	20.05	1.03	33.92	21.87	1.04	34.97	23.61	1.05	37.07	23.52	1.06	39.16	25.05	1.07			
	32	27.59	20.68	1.33	30.74	20.80	1.35	33.88	22.69	1.37	34.93	24.50	1.38	37.02	24.41	1.39	39.12	26.00	1.41			
	41	27.58	19.90	1.48	30.72	20.02	1.51	33.86	21.84	1.53	34.91	23.58	1.54	37.00	23.49	1.55	39.10	25.02	1.57			
	50	27.51	20.29	1.68	30.65	20.41	1.70	33.78	22.27	1.73	34.83	24.05	1.74	36.92	23.95	1.76	39.01	25.51	1.77			
	59	27.32	20.19	1.85	30.44	20.31	1.88	33.55	22.15	1.91	34.59	23.92	1.92	36.66	23.82	1.94	38.74	25.38	1.96			
	67	26.28	19.60	2.16	29.27	19.72	2.20	32.26	21.51	2.23	33.26	23.23	2.24	35.26	23.13	2.27	37.25	24.64	2.29			
	77	28.33	20.75	3.10	31.55	20.88	3.15	34.78	22.77	3.20	35.86	24.59	3.21	38.01	24.49	3.25	40.16	26.09	3.28			
	87	26.96	19.98	3.47	30.03	20.10	3.52	33.10	21.92	3.58	34.12	23.68	3.60	36.17	23.58	3.63	38.22	25.12	3.67			
	95	25.47	19.15	3.86	28.37	19.27	3.92	31.28	21.02	3.98	33.00	21.80	3.88	34.18	22.60	4.04	36.11	24.08	4.08			
	104	23.81	18.24	4.23	26.52	18.35	4.30	29.24	20.01	4.37	30.14	21.61	4.39	31.95	21.52	4.43	33.76	22.93	4.48			
115	18.13	15.20	3.54	20.19	15.29	3.59	22.26	16.67	3.65	22.95	18.01	3.67	24.33	17.94	3.70	25.70	19.11	3.74				

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

AFR	19.7
-----	------

		Indoor temperature																				
		°CDB			17.8			21.1			23.9			26.7			29.4			32.2		
		°CWB			12.2			15.6			17.7			19.4			21.7			22.8		
Outdoor temperature	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
	-10.0	8.10	5.84	1.01	9.02	5.88	1.03	9.94	6.41	1.04	10.25	6.92	1.05	10.86	6.89	1.06	11.48	7.34	1.07			
	0.0	8.09	6.06	1.33	9.01	6.10	1.35	9.93	6.65	1.37	10.24	7.18	1.38	10.85	7.15	1.39	11.47	7.62	1.41			
	5.0	8.08	5.83	1.48	9.00	5.87	1.51	9.92	6.40	1.53	10.23	6.91	1.54	10.84	6.88	1.55	11.46	7.33	1.57			
	10.0	8.06	5.95	1.68	8.98	5.98	1.70	9.90	6.53	1.73	10.21	7.05	1.74	10.82	7.02	1.76	11.43	7.48	1.77			
	15.0	8.01	5.92	1.85	8.92	5.95	1.88	9.83	6.49	1.91	10.14	7.01	1.92	10.75	6.98	1.94	11.35	7.44	1.96			
	19.4	7.70	5.75	2.16	8.58	5.78	2.20	9.46	6.30	2.23	9.75	6.81	2.24	10.33	6.78	2.27	10.92	7.22	2.29			
	25.0	8.30	6.08	3.10	9.25	6.12	3.15	10.19	6.67	3.20	10.51	7.21	3.21	11.14	7.18	3.25	11.77	7.65	3.28			
	30.6	7.90	5.86	3.47	8.80	5.89	3.52	9.70	6.43	3.58	10.00	6.94	3.60	10.60	6.91	3.63	11.20	7.36	3.67			
	35.0	7.47	5.61	3.86	8.32	5.65	3.92	9.17	6.16	3.98	9.70	6.39	3.88	10.02	6.62	4.04	10.58	7.06	4.08			
	40.0	6.98	5.35	4.23	7.77	5.38	4.30	8.57	5.87	4.37	8.83	6.33	4.39	9.36	6.31	4.43	9.89	6.72	4.48			
46.1	5.31	4.45	3.54	5.92	4.48	3.59	6.52	4.89	3.65	6.73	5.28	3.67	7.13	5.26	3.70	7.53	5.60	3.74				

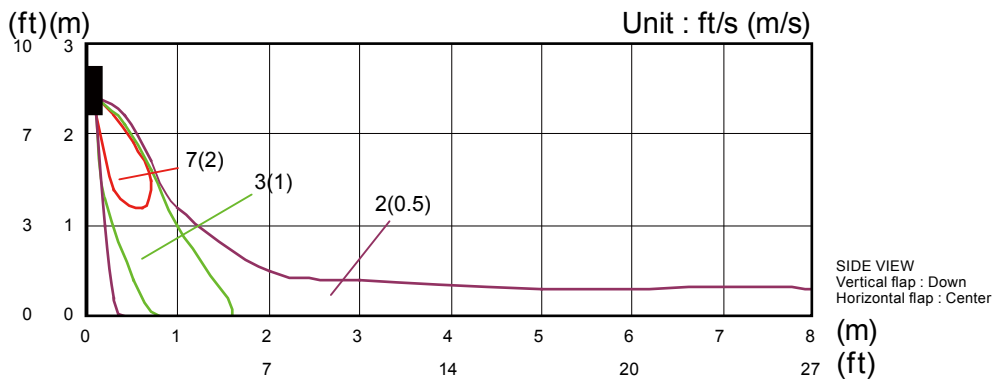
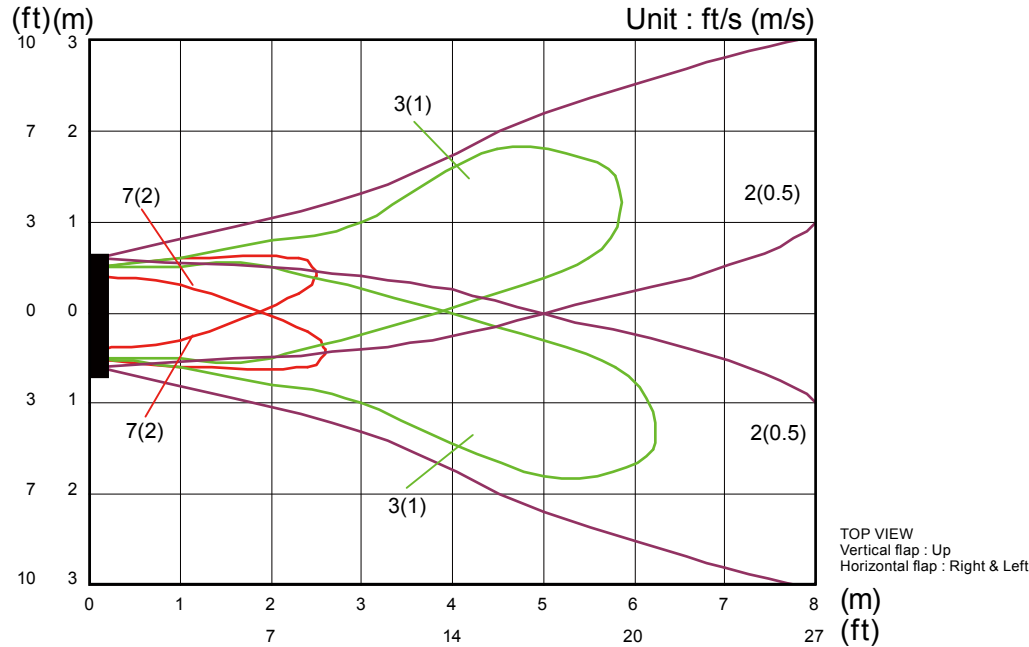
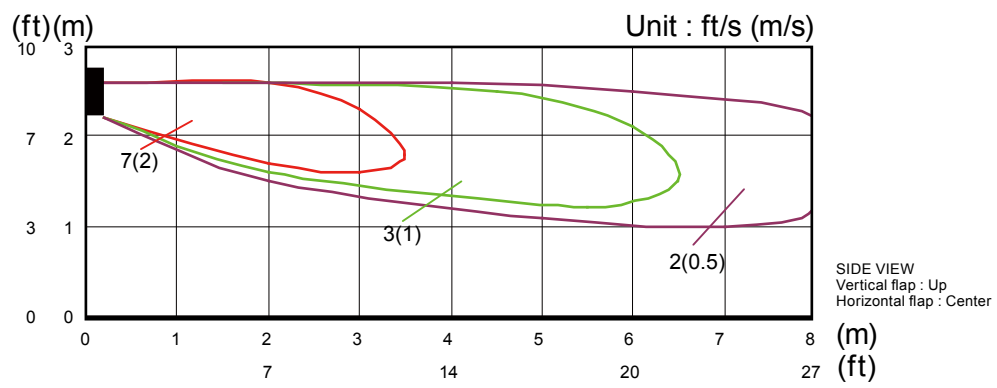
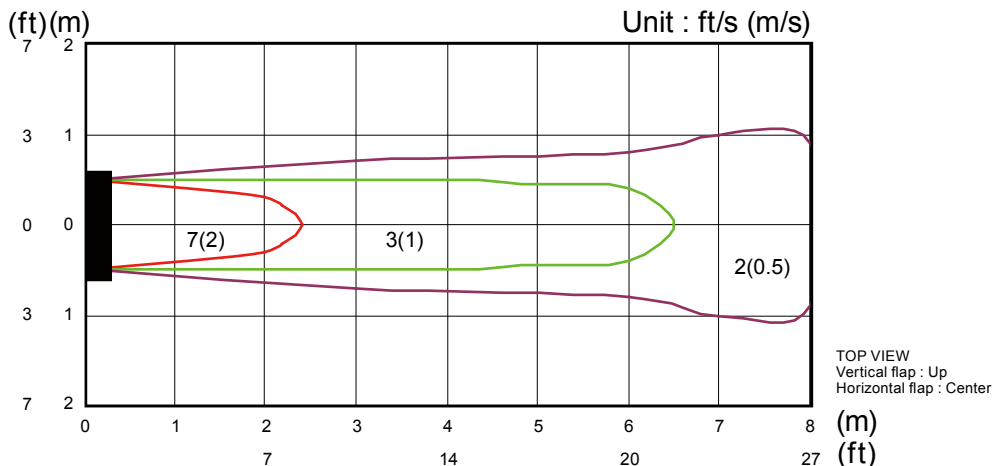
AFR: Air flow rate (m³/min)
 TC: Total capacity (kW)
 SHC: Sensible heat capacity (kW)
 PI: Power input (kW)

7. FAN PERFORMANCE

7-1. AIR VELOCITY DISTRIBUTION

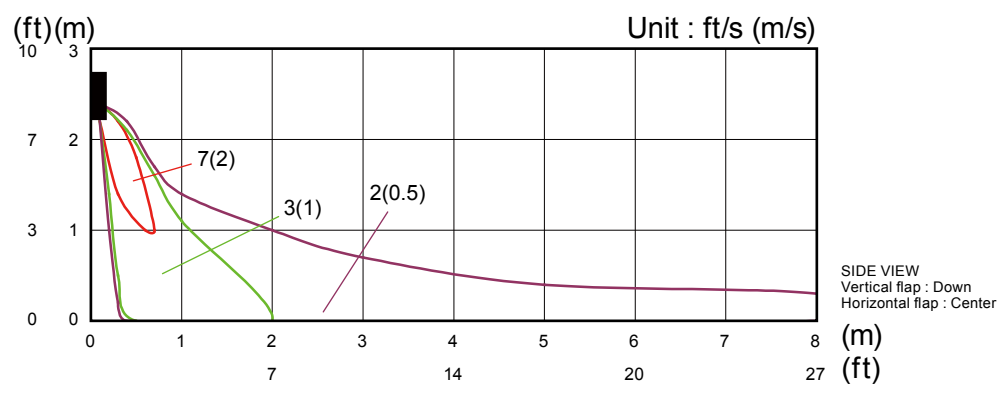
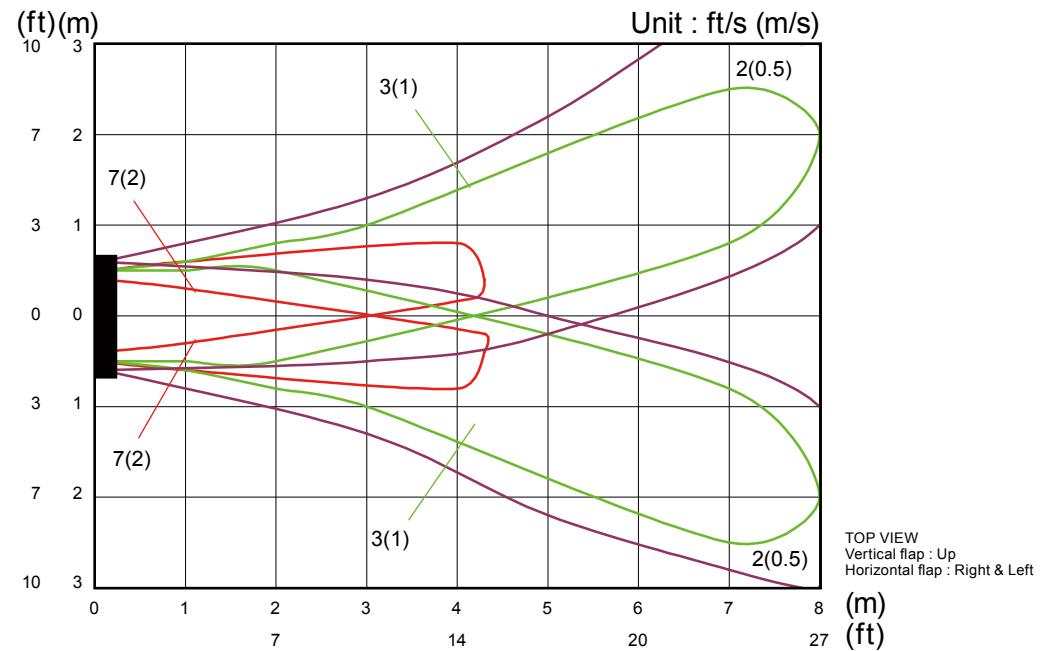
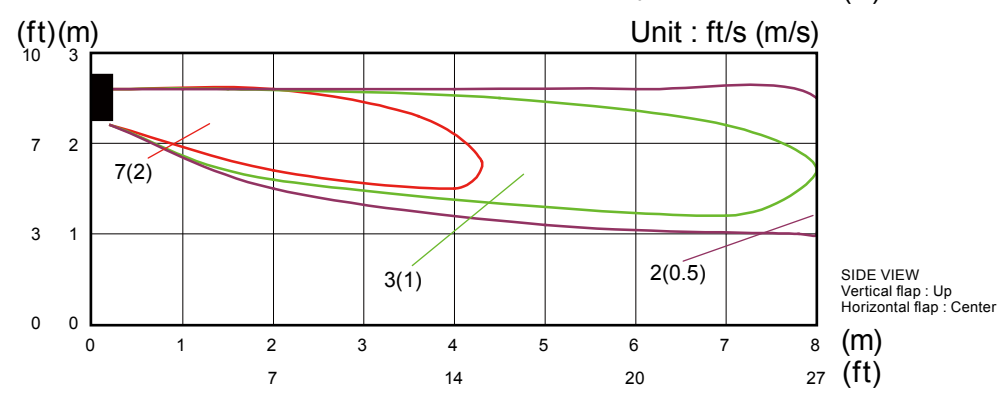
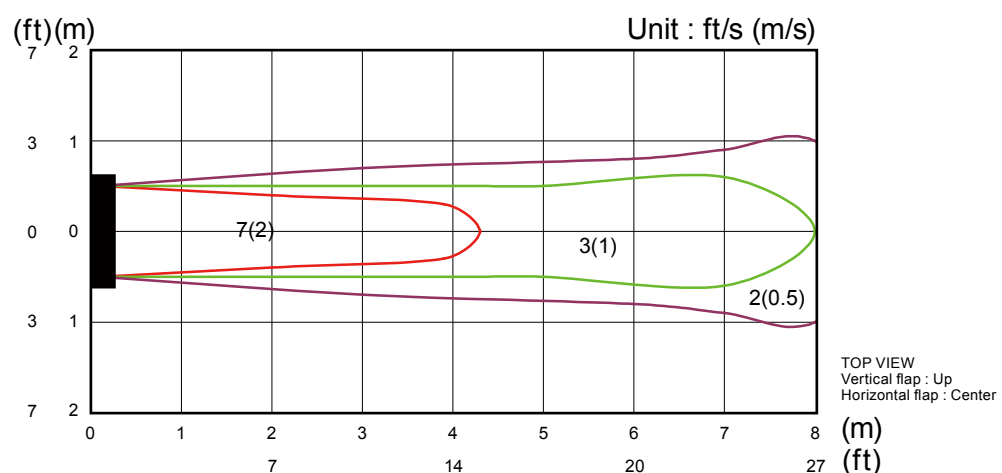
Note:
Fan speed : HIGH
Operation mode : FAN

MODEL : ASU30CLX1



Note:
Fan speed : High
Operation mode : FAN

MODEL : ASU36CLX1



7-2. AIR FLOW

■ MODEL: ASU30CLX1

● Cooling

Fan speed	Number of rotations (r.p.m.)	Air flow	
HIGH	1480	1120	m ³ /h
		311	l/s
		659	CFM
MED	1220	900	m ³ /h
		250	l/s
		530	CFM
LOW	1020	740	m ³ /h
		206	l/s
		435	CFM
QUIET	900	620	m ³ /h
		172	l/s
		365	CFM

■ MODEL: ASU36CLX1

● Cooling

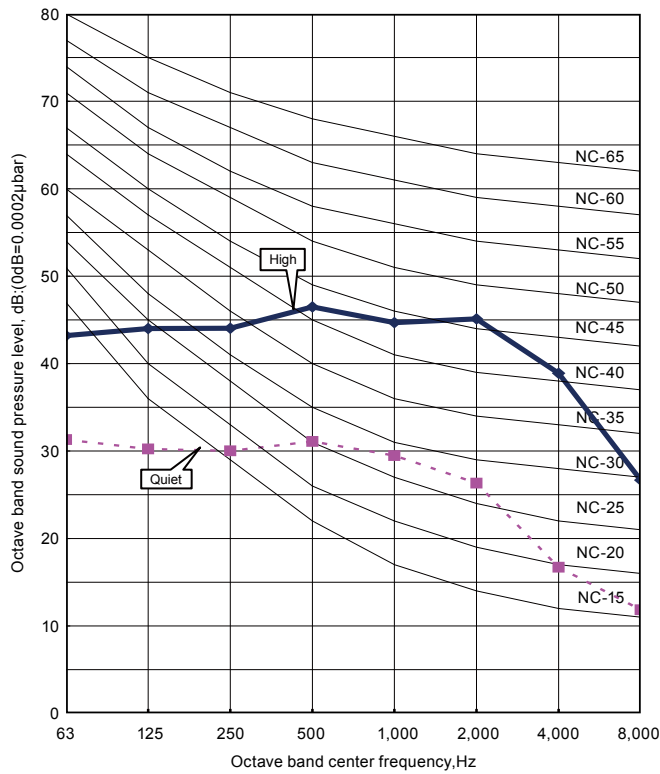
Fan speed	Number of rotations (r.p.m.)	Air flow	
HIGH	1560	1180	m ³ /h
		328	l/s
		694	CFM
MED	1220	900	m ³ /h
		250	l/s
		530	CFM
LOW	1020	740	m ³ /h
		206	l/s
		435	CFM
QUIET	900	620	m ³ /h
		172	l/s
		365	CFM

8. OPERATION NOISE

8-1. NOISE LEVEL CURVE

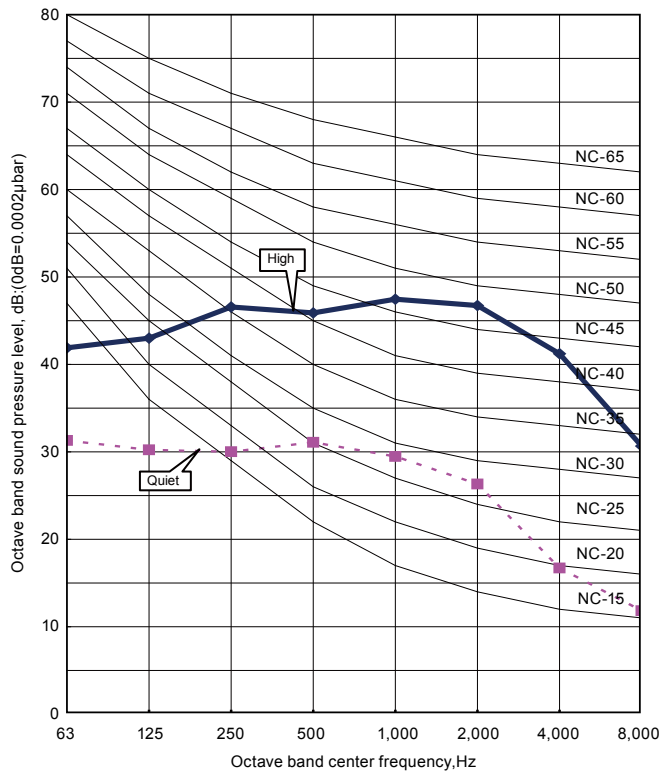
MODEL: ASU30CLX1

● Cooling

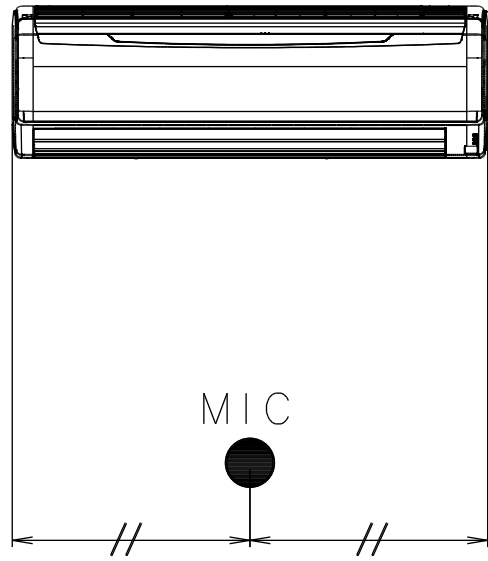
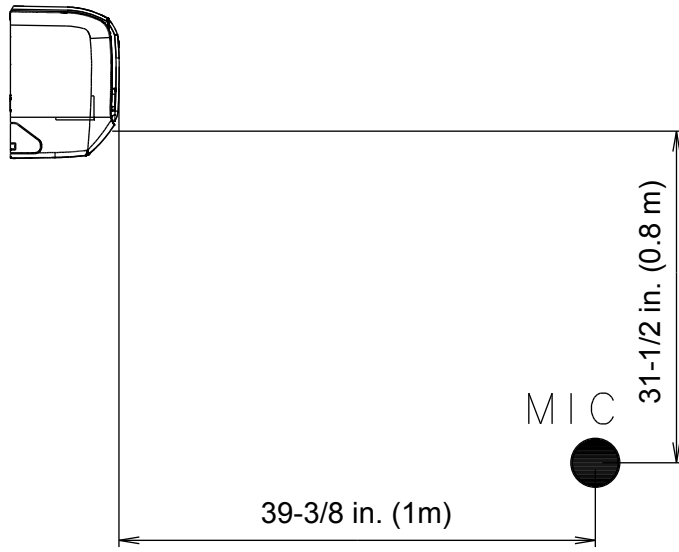


MODEL: ASU36CLX1

● COOLING



8-2. SOUND LEVEL CHECK POINT



9. ELECTRIC CHARACTERISTICS

Model name		ASU30CLX1, ASU36CLX1	
Power supply	Voltage	V	208/230~
	Frequency	Hz	60
Max. operating current		A	0.3
*)Wiring Spec.	Circuit breaker	A	0.4
	Connection cable	AWG	14
	Limited wiring length	ft.	167

*) Wiring Spec.
Selected Sample
(Selected based on Japan Electrotechnical Standard and Codes Committee E0005)

10. SAFETY DEVICES

	Protection form	Model	
		ASU30CLX1	ASU36CLX1
Circuit protection	Current fuse (PCB)	3.15A 250V	
Terminal protection	Current fuse	3A 250V	
Fan motor protection	Thermal protection program	212^{+27}_{-18} °F (100^{+15}_{-10} °C) OFF 203^{+9}_{-18} °F (95^{+5}_{-10} °C) ON	

11. EXTERNAL INPUT & OUTPUT

Connector	INPUT	OUTPUT	REMARKS
CN14	Control input (Operation / stop)	-	See external input/output settings for details.
CN16	-	Operation status output	

11-1. EXTERNAL INPUT

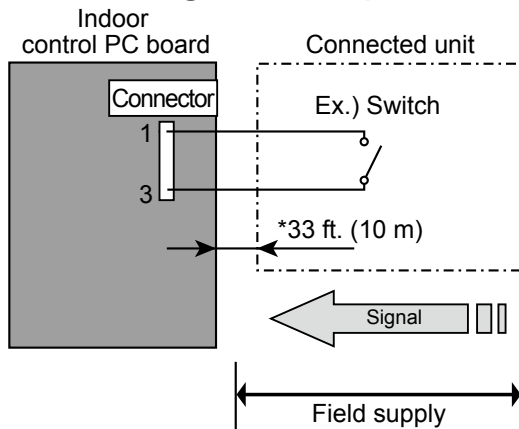
■ CONTROL INPUT (Operation/Stop)

The air conditioner can be remotely operated by means of the following on-site work.

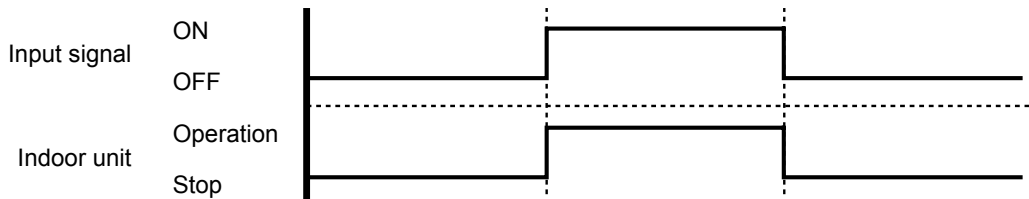
Operation is started at the following contents by adding the contact input of a commercial ON/OFF switch to a connector on the external control PC board and turning it ON.

	Initial starting after power turned on	Starting other than at the left
Operation mode	Auto changeover	Mode at previous operation
Set temperature	75°F (24°C)	Temperature at previous operation
Air flow mode	AUTO	Mode at previous operation
Up-down air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation
Left-right air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation

● Circuit diagram example



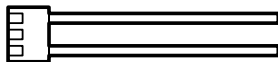
* Make the distance from the PC board to the connected unit within 33 ft. (10m).
Contact capacity : 5VDC or more, 20mA or more.
Please use the non-polar relays and switches.



● Parts (Optional)

Parts name	Model name
External connect kit	UTY-XWZX

Wire (External input)

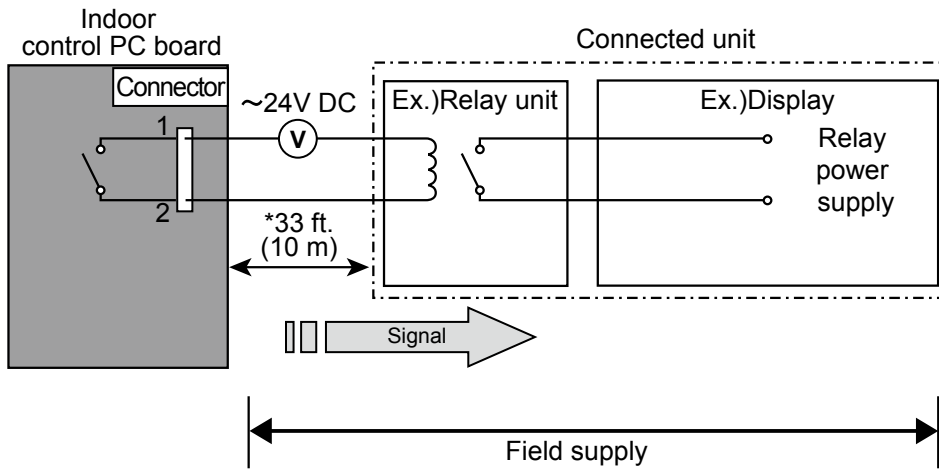


11-2. EXTERNAL OUTPUT

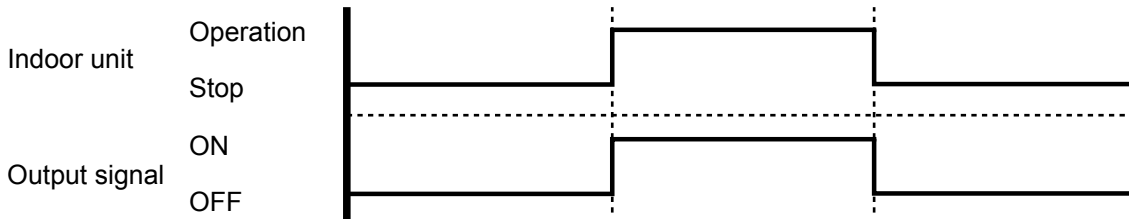
■ OPERATION STATUS OUTPUT

An air conditioner operation status signal can be output.

● Circuit diagram example



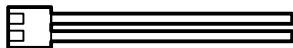
* Make the distance from the PC board to the connected unit within 33ft. (10m).
Relay spec. : Max.24VDC, 10mA to less than 500mA.



● Parts (Optional)

Parts name	Model name
External connect kit	UTY-XWZX

Wire (External output)



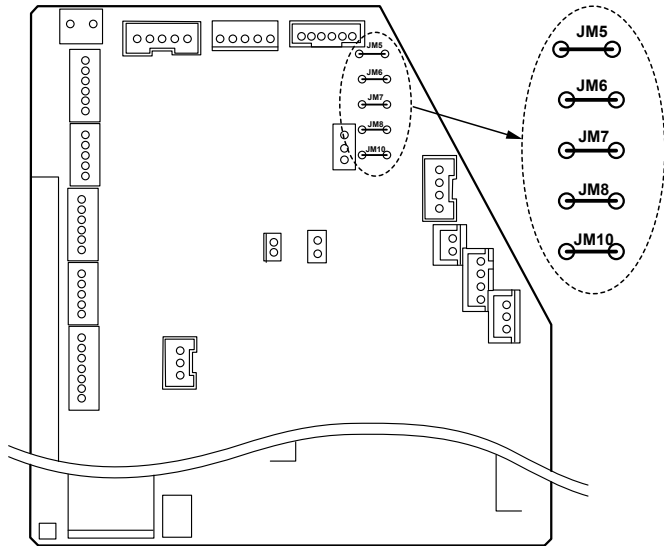
12. FUNCTION SETTING

12-1. INDOOR UNIT

INDOOR UNIT		
Jumper Wire	JM 5	Auto restart
	JM 6	Room temperature correction
	JM 7	
	JM 8	Remote controller signal code
	JM 10	

■ SWITCH POSITION

MAIN PCB



■ JUMPER WIRE SETTING

● Auto restart setting (JM5)

(◆... Factory setting)

JM 5	Auto restart
◆ Connect	Validity
Disconnect	Invalidity

● Room temperature correction setting (JM6, JM7)

(◆... Factory setting)

JM 6	JM 7	Room temperature correction	
		Cooling	Drying
◆ Connect	Connect	Standard	
Disconnect	Connect	Slightly lower control	
Connect	Disconnect	Slightly lower control	
Disconnect	Disconnect	Lower control	

● Remote controller signal code setting (JM8, JM10)

(◆... Factory setting)

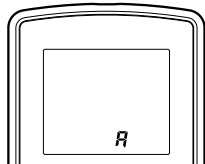
Jumper wire		Remote controller signal code
JM 8	JM 10	
◆ Connect	Connect	A
Disconnect	Connect	B
Connect	Disconnect	C
Disconnect	Disconnect	D

■ REMOTE CONTROLLER SIGNAL CODE SETTING

Use the following steps to select the signal code of the remote controller.

(Note that the air conditioner cannot receive a signal code if the air conditioner has not been set for the signal code.)

1. Press the START/STOP button until only the clock is displayed on the remote controller display.
2. Press the MODE button for at least five seconds to display the current signal code (initially set to \overline{A}).
3. Press the SET TEMP. (\blacktriangle) (\blacktriangledown) button to change the signal code between $\overline{A} \rightarrow \overline{B} \rightarrow \overline{C} \rightarrow \overline{D}$.
Match the code on the display to the air conditioner signal code.
4. Press the MODE button again to return to the clock display. The signal code will be changed.

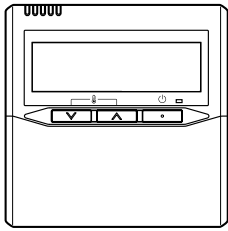


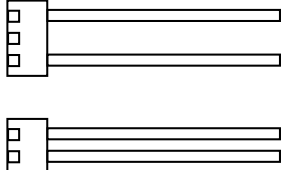


If no buttons are pressed within 30 seconds after the signal code is displayed, the system returns to the original clock display. In this case, start again from step 1.

The air conditioner signal code is set to A prior to shipment. Contact your retailer to change the signal code.

The remote controller resets to signal code A when the batteries in the remote controller are replaced. If you use a signal code other than signal code A, reset the signal code after replacing the batteries.
If you do not know the air conditioner signal code setting, try each of the signal codes ($\overline{A} \rightarrow \overline{B} \rightarrow \overline{C} \rightarrow \overline{D}$) until you find the code which operates the air conditioner.

13. OPTIONAL PARTS

Exterior	Parts name	Model No.	Summary
	Wired remote controller	UTY-RNBYU	Unit control is performed by wired remote controller.
	Apple-catechin filter	UTR-FA13-1	Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.
	Ion deodorisation filter	UTR-FA13-2	The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra fine-particle ceramic.
	External connect kit	UTY-XWZX	Use to connect with various peripheral devices and air conditioner PC board.

2. OUTDOOR UNIT

SINGLE TYPE :

AOU30CLX1

AOU36CLX1

CONTENTS

2. OUTDOOR UNIT

1. SPECIFICATIONS.....	02 - 01
2. DIMENSIONS	02 - 02
3. REFRIGERANT CIRCUIT	02 - 03
4. WIRING DIAGRAMS.....	02 - 04
5. CAPACITY COMPENSATION RATE FOR PIPE LENGTH AND HEIGHT DIFFERENCE	02 - 05
6. ADDITIONAL CHARGE CALCULATION.....	02 - 06
7. AIR FLOW.....	02 - 07
8. OPERATION NOISE.....	02 - 08
8-1. NOISE LEVEL CURVE	02 - 08
8-2. SOUND LEVEL CHECK POINT	02 - 09
9. ELECTRIC CHARACTERISTICS.....	02 - 10
10. SAFETY DEVICES	02 - 11

1. SPECIFICATIONS

Type				INVERTER COOLING ONLY	
Model name				AOU30CLX1	AOU36CLX1
Power source				208/230V~ 60Hz	
Available voltage range				187-253V ~ 60Hz	
Starting current			A	14.2	17.0
Fan	Airflow rate	Cooling	CFM (m ³ /h)	2,119 (3,600)	
		Heating		-	
	Type × Q'ty		Propeller fan×1		
	Motor output		W	100	
Sound pressure level	Cooling	dB(A)	54		
	Heating		-		
Heat exchanger type	Dimensions (H × W × D)	in.	31-7/16 x 35-7/16 x 1-7/16		
		mm	798 x 900 x 36.4		
	Fin pitch	FPI	20		
	Rows x Stages	2 × 38			
	Pipe type	Copper			
	Fin type	Aluminum			
Compressor	Type × Q'ty		Rotary x 1		
	Motor output	W	2,100		
Refrigerant	Type		R410A		
	Charge	lb.oz.	4lb.10.1oz.		
		kg	2.1		
Refrigerant oil	Type		POE (RB68)		
Enclosure	Material		Steel		
	Color		Beige Approximate color of MUNSELL 10YR7.5/1.0		
Dimensions (H×W×D)	Net	mm	830 x 900 x 330		
		inch	32-3/4 x 35-3/8 x 13		
	Gross	mm	970 x 1050 x 445		
		inch	38-1/4 x 41-1/2 x 17-1/2		
Weight	Net	lb.(kg)	135(61)		
	Gross		150(68)		
Connection pipe	Size	Liquid	in.	Ø3/8 (Ø9.52)	
		Gas	(mm)	Ø5/8 (Ø15.88)	
	Method		Flare		
	Max. length		ft.	164 (50) [chargeless:66(20)]	
	Max. height difference		(m)	98 (30)	
Operation range	Cooling	°F	14 to 115 (-10 to 46)		
	Heating	(°C)	-		

Note :

Specifications are based on the following conditions.

Cooling : Indoor temperature of 80°F(26.67°C)DB / 67°F(19.44°C)WB, and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB.

Pipe length : 24ft.7in.(7.5 m), Height difference : 0 m.(Outdoor unit - Indoor unit)

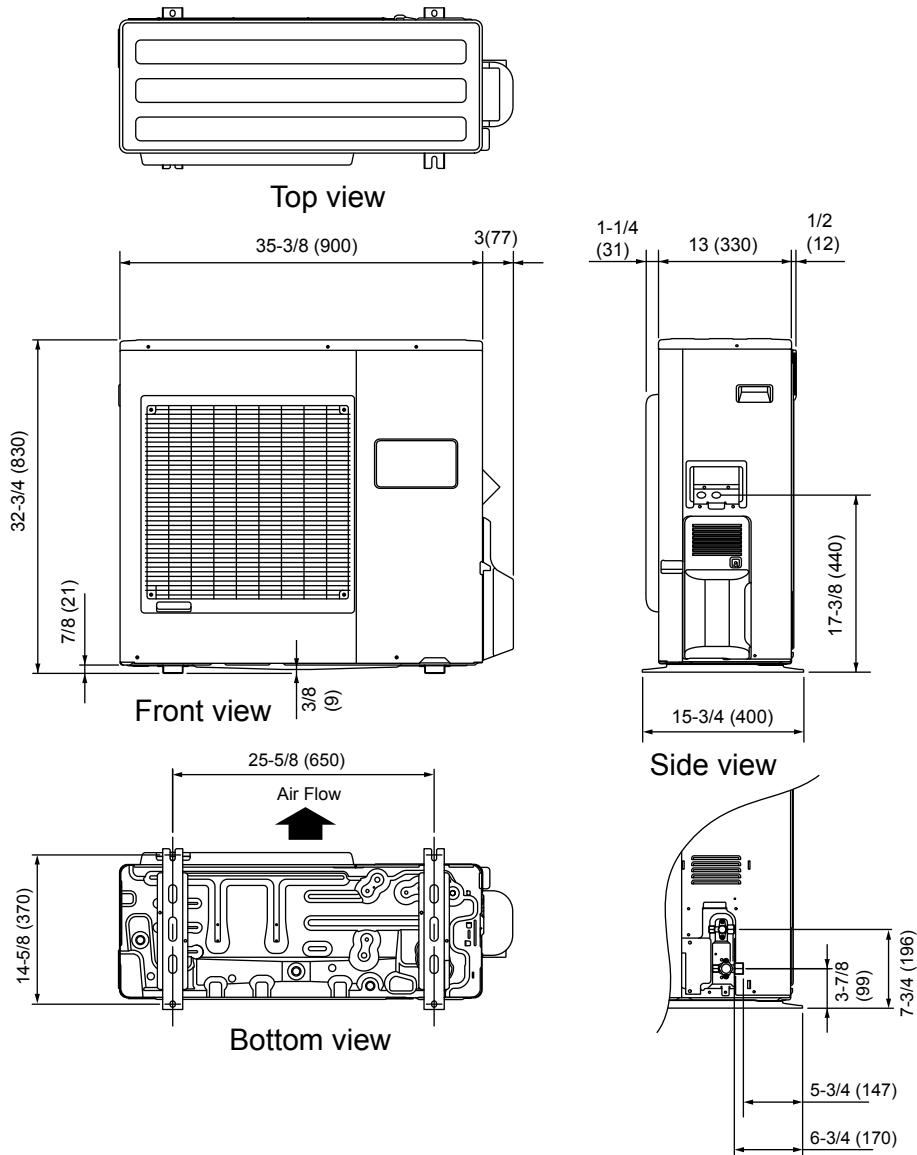
2. DIMENSIONS

MODEL: AOU30CLX1, AOU36CLX1

Unit : in.(mm)

OUTDOOR UNIT
AOU30-36CLX1

OUTDOOR UNIT
AOU30-36CLX1

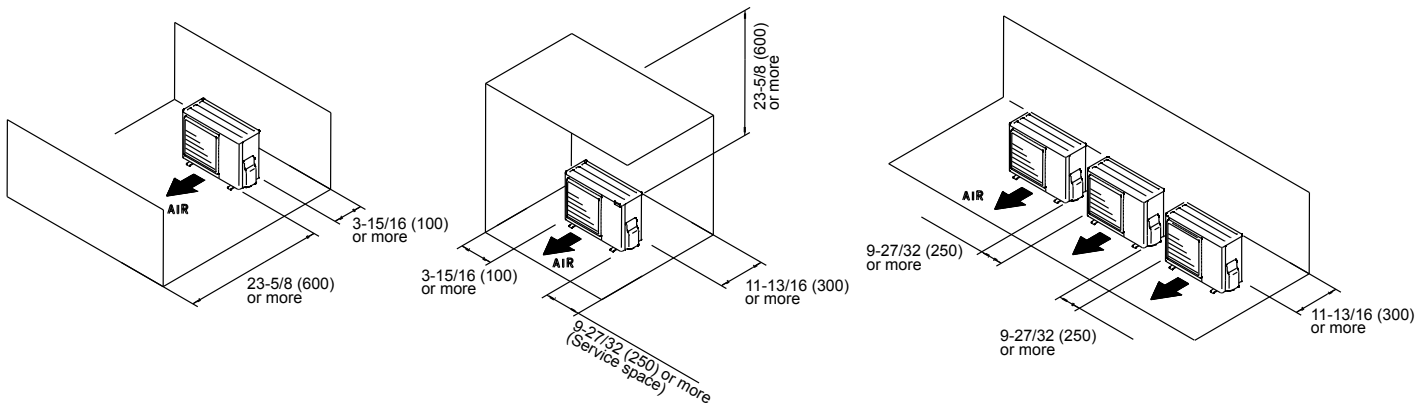


INSTALLATION PLACE

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.

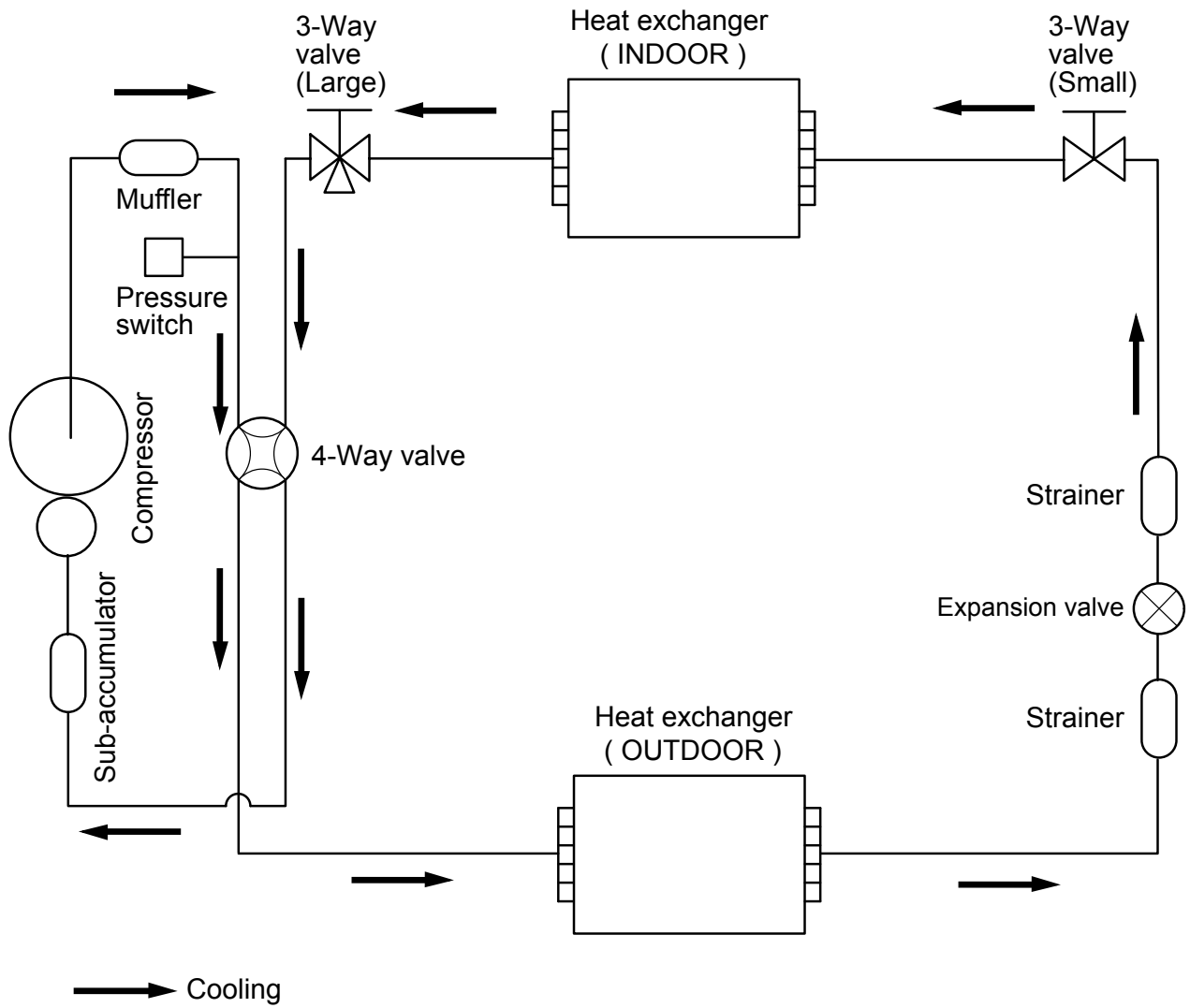


3. REFRIGERANT CIRCUIT

■ MODEL: AOU30CLX1, AOU36CLX1

OUTDOOR UNIT
AOU30-36CLX1

OUTDOOR UNIT
AOU30-36CLX1



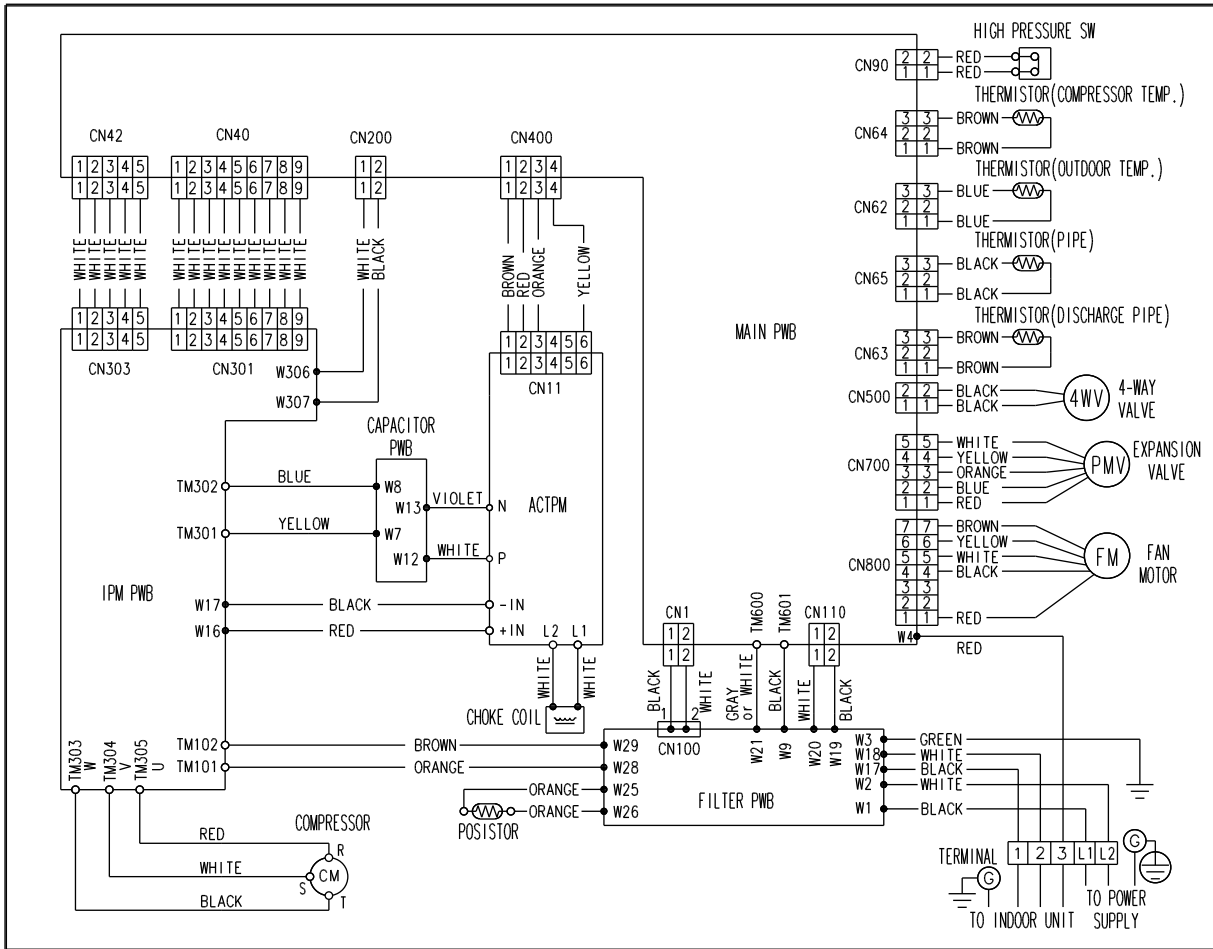
Refrigerant pipe diameter
Liquid : 3/8" (9.52 mm)
Gas : 5/8" (15.88 mm)

4. WIRING DIAGRAMS

MODEL: AOU30CLX1, AOU36CLX1

OUTDOOR UNIT
AOU30-36CLX1

OUTDOOR UNIT
AOU30-36CLX1



5. CAPACITY COMPENSATION RATE FOR PIPE LENGTH AND HEIGHT DIFFERENCE

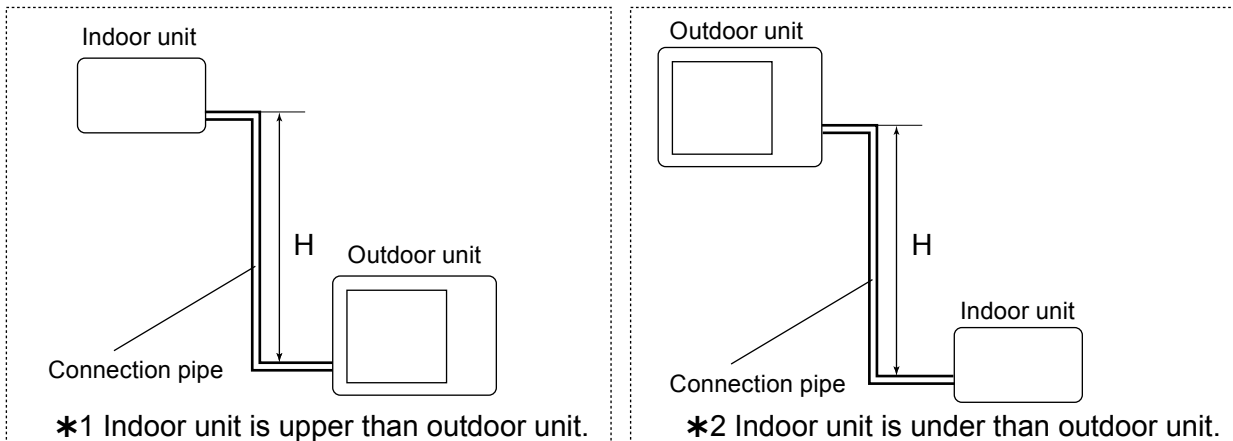
MODEL: AOU30CLX1, AOU36CLX1

OUTDOOR UNIT
AOU30-36CLX1

OUTDOOR UNIT
AOU30-36CLX1

COOLING				Pipe length						
				5m	7.5m	10m	20m	30m	40m	50m
				16ft.	25ft.	33ft.	66ft.	99ft.	131ft.	164ft.
Height difference H	*1 Indoor unit is upper than outdoor unit.	30m	99ft.	-	-	-	-	0.932	0.929	0.924
		20m	66ft.	-	-	-	0.945	0.947	0.945	0.940
		10m	33ft.	-	-	0.984	0.961	0.963	0.960	0.956
		7.5m	25ft.	-	0.988	0.988	0.965	0.967	0.964	0.959
		5m	16ft.	0.990	0.992	0.992	0.968	0.971	0.968	0.963
	*2 Indoor unit is under than outdoor unit	0m	0ft.	0.998	1.000	1.000	0.976	0.979	0.976	0.971
		-5m	-16ft.	0.998	1.000	1.000	0.976	0.979	0.976	0.971
		-7.5m	-25ft.	-	1.000	1.000	0.976	0.979	0.976	0.971
		-10m	-33ft.	-	-	1.000	0.976	0.979	0.976	0.971
		-20m	-66ft.	-	-	-	0.976	0.979	0.976	0.971
	-30m	-99ft.	-	-	-	-	0.979	0.976	0.971	

Height difference H



6. ADDITIONAL CHARGE CALCULATION

■ MODEL: AOU30CLX1, AOU36CLX1

Refrigerant type		R410A
Refrigerant amount	lb. oz.	4lb. 10.1oz.
	g	2100

● REFRIGERANT CHARGE

Pipe length	ft.	~66	98	131	164	0.43oz./ft. (40g/m)
	m	~20	30	40	50	
Additional charge	oz.	0 (Chargeless)	14.1	28.2	42.3	
	g	0 (Chargeless)	+400	+800	+1200	

7. AIR FLOW

■ MODEL: AOU30CLX1, AOU36CLX1

● Cooling

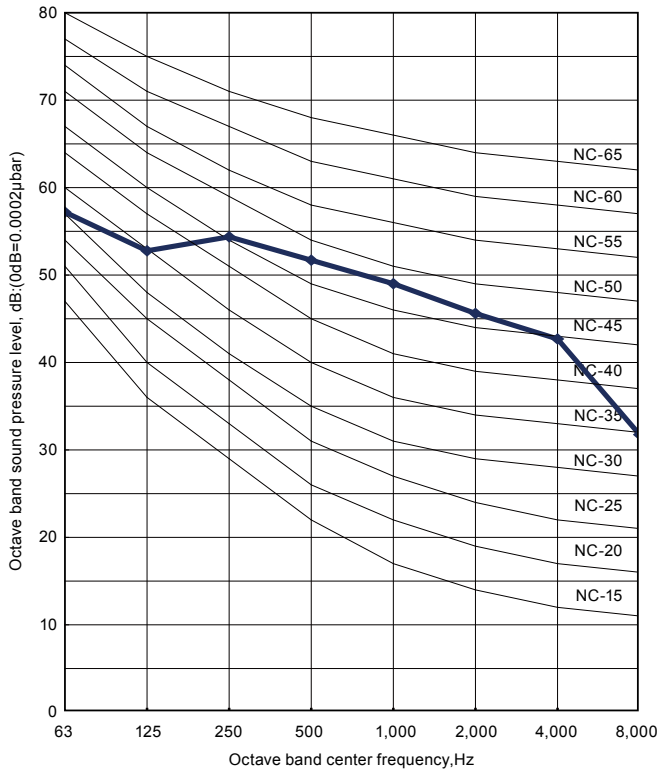
Number of rotations (r.p.m.)	Air flow	
	850	3600
1000		l/s
2119		CFM

8. OPERATION NOISE

8-1. NOISE LEVEL CURVE

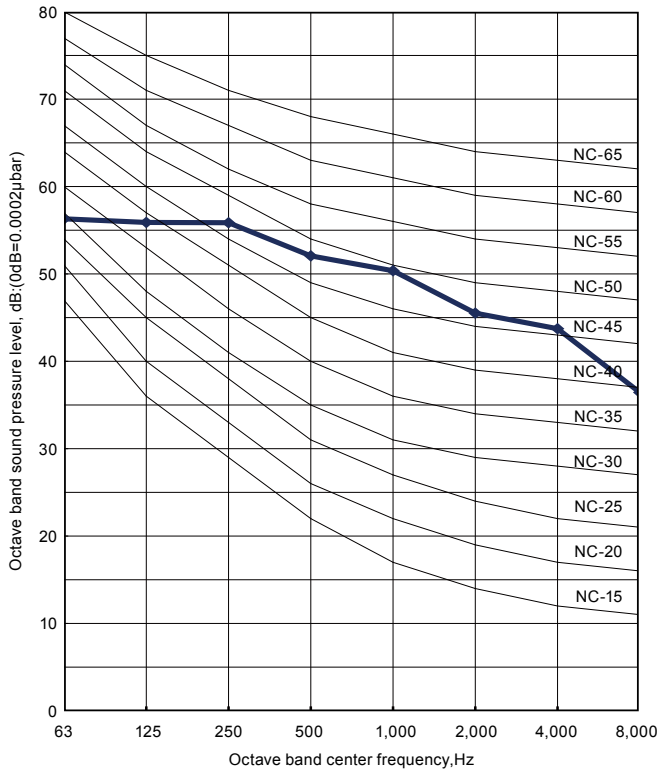
MODEL: AOU30CLX1

● Cooling



MODEL: AOU36CLX1

● Cooling

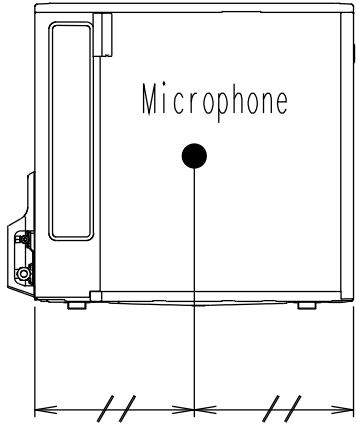
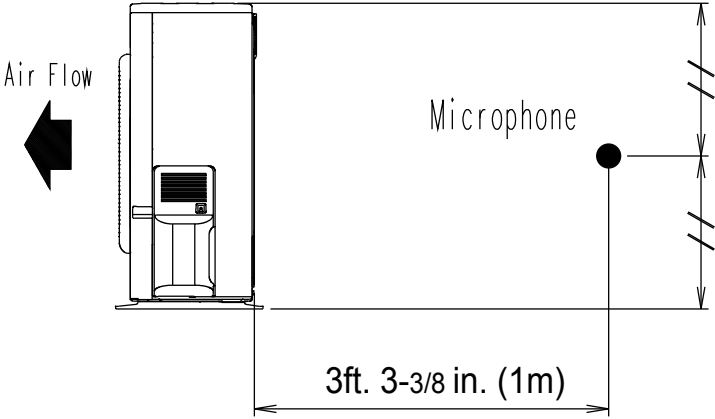


OUTDOOR UNIT
AOU30-36CLX1

OUTDOOR UNIT
AOU30-36CLX1

8-2. SOUND LEVEL CHECK POINT

OUTDOOR UNIT
AOU30-36CLX1



OUTDOOR UNIT
AOU30-36CLX1

9. ELECTRIC CHARACTERISTICS

Model Name			AOU30CLX1	AOU36CLX1
Power Supply	Voltage	V	208 / 230~	
	Frequency	Hz	60	
*1) Max. Operating Current		A	17.0	18.0
Starting Current		A	14.2	17.0
*2) Wiring Spec.	Main Fuse (Circuit breaker) Current	A	30	
	Power Cable	AWG	10	
	*3) Limited wiring length	ft.	60	57

*1) The maximum current is the total current of indoor unit and outdoor unit.

*2) Wiring Spec.

Selected Sample

(Selected based on Japan Electrotechnical Standard and Codes Committee E00005)

*3) 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.

10. SAFETY DEVICES

	Protection form	Model
		AOU30CLX1, AOU36CLX1
Circuit protection	Current fuse (NEAR THE TERMINAL)	5A 250V
	Current fuse (MAIN PRINTED CIRCUIT BOARD)	3.15A 250V x 2
Fan motor protection	Thermal protection program	OFF : 230 ⁺²⁷ ₋₁₈ °F (110 ⁺¹⁵ ₋₁₀ °C) ON : 221 ⁺²⁷ ₋₁₈ °F (105 ⁺¹⁵ ₋₁₀ °C)
High Pressure Protection	Pressure Switch	OFF : 4.2±0.1MPa ON : 3.2±0.15MPa
Compressor protection	Thermal protection program (COMPRESSOR TEMP.)	OFF : 226°F (108°C) ON : 176°F (80°C)
	Thermal protection program (DISCHARGE TEMP.)	OFF : 230°F (110°C) ON : After 7 minutes
	Thermal protection program (OUTDOOR TEMP.) (Cooling / Dry mode)	OFF : -13°F (-25°C) ON : -4°F (-20°C)

OUTDOOR UNIT
AOU30-36CLX1

OUTDOOR UNIT
AOU30-36CLX1