

INDOOR UNIT

1. MULTI TYPE : 2-4ROOMS TYPE

ASU9RMLQ AUU9RML

ASU12RMLQ AUU12RML

ASU18RMLQ AUU18RML

ARU9RML

ARU12RML

ARU18RML

1. FEATURE

1-1. MODEL

INDOOR UNIT			
ARU9RML	ARU12RML ARU18RML	ASU9RMLQ ASU12RMLQ ASU18RMLQ	AUU9RML AUU12RML AUU18RML
Concealed Ceiling type (small)	Concealed Ceiling type	Wall Mounted Type	Cassette Type (Compact)
			
OUTDOOR UNIT			
AOU36RML1			
			

INDOOR UNIT CONNECTION PATTERNS

MODEL : AOU36RML1

CONNECTION PATTERN	When 3 and 4 indoor units are connected (Btu/h)			
	NO.1 Indoor unit	NO.2 Indoor unit	NO.3 Indoor unit	NO.4 Indoor unit
1	9,000	9,000	9,000	-
2	9,000	9,000	12,000	-
3	9,000	12,000	12,000	-
4	12,000	12,000	12,000	-
5	18,000	9,000	9,000	-
6	9,000	9,000	9,000	9,000

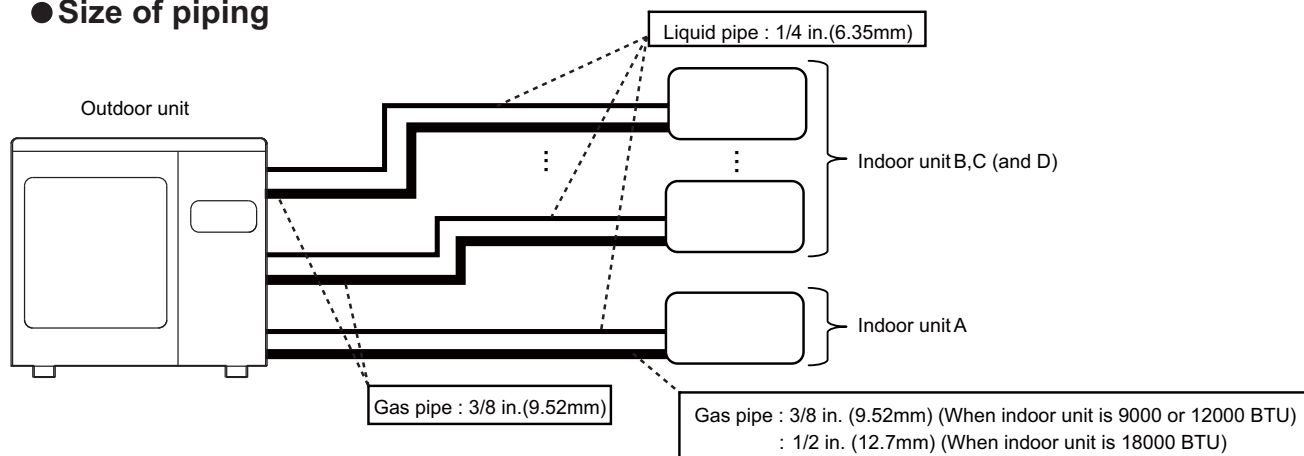
CONNECTION PATTERN	When 2 indoor units are connected (Btu/h)			
	NO.1 Indoor unit	NO.2 Indoor unit	NO.3 Indoor unit	NO.4 Indoor unit
1	18,000	18,000	-	-

*If you choice 2 indoor units system "18000 BTU + 18000 BTU", then you have to purchase optional parts (UTP-MU36A2) for connection 2 rooms , and you can't add on more indoor unit.

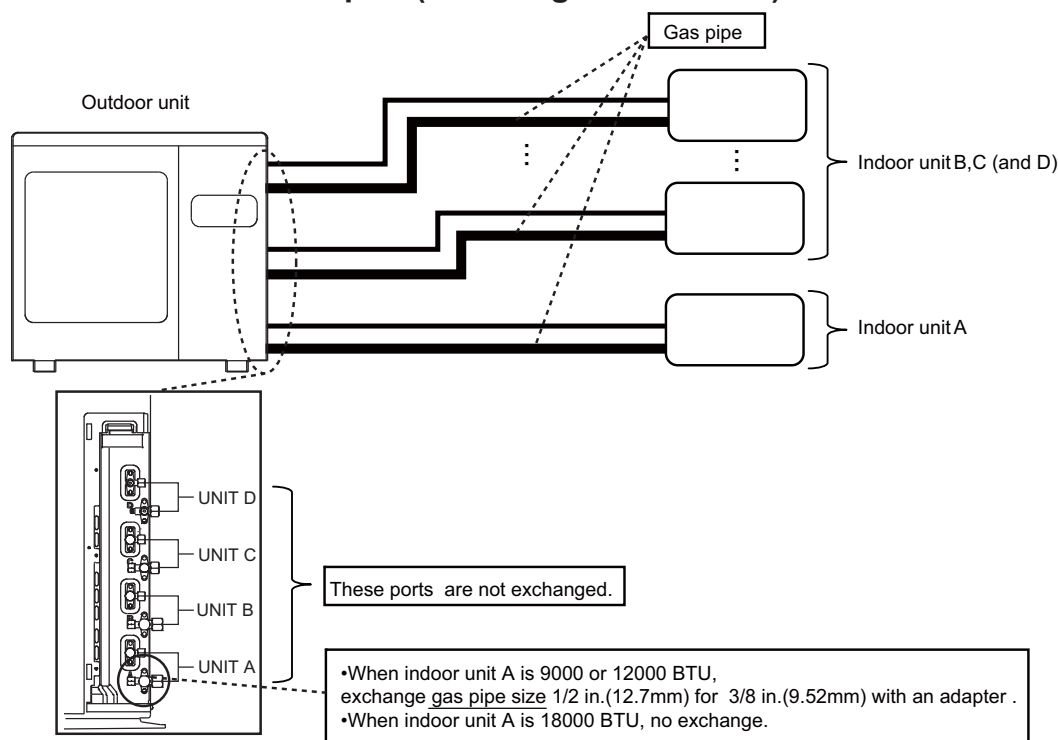
1-2. DIFFERENCE OF CONNECTING THE NUMBER OF INDOOR UNITS

■ 3 OR 4 ROOMS COMBINATION

● Size of piping



● How to use an adapter (including outdoor unit)



● Connection pipe length

MAX	total	ft.(m)	230(70)
	each unit		82(25)
MIN	each unit		16(5)

● Refrigerant charge

PIPE LENGTH (TOTAL)	ft.	~164	197	230(MAX)	0.27 oz./ft. 25g/m
	m	~50	60	70(MAX)	
ADDITIONAL CHARGE	lb.oz.	0 (Charge less)	8.9 oz.	1 lb.1.8 oz.	
	g	0 (Charge less)	250	500	

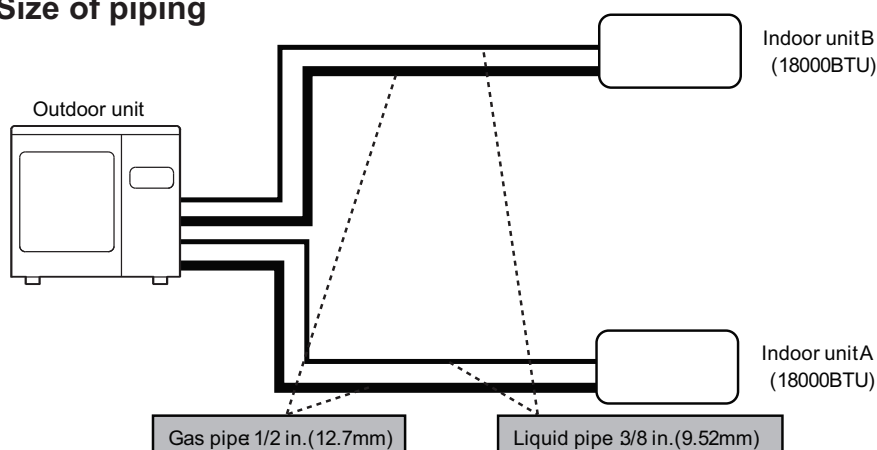
● Operation range

COOLING	°F(°C)	32 to 115 (0 to 46) *14 to 115(-10 to 46)
HEATING		14 to 75 (-10 to 24)

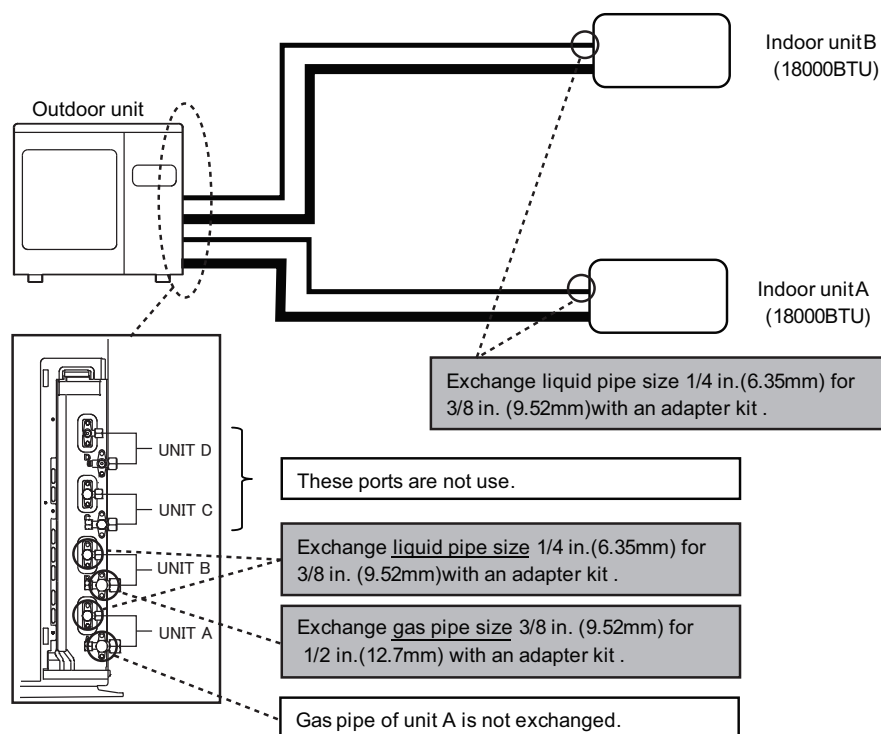
*Operation up to 14 °F(-10°C) is possible only in cases in which 2 or more units are operating.

■ 2 ROOMS COMBINATION (WITH OPTIONAL PARTS UTP-MU36A2)

● Size of piping



● How to use an adapter (optional parts UTP-MU36A2)



● Connection pipe length

MAX	Total	ft.(m)	164(50)
	Each unit		82(25)
MIN	Each unit		25(7.5)

● Refrigerant charge

PIPE LENGTH (TOTAL)	ft.	~98	131	164(MAX)	0.32 oz./ft. 30g/m
	m	~30	40	50(MAX)	
ADDITIONAL CHARGE	lb.oz.	0 (Charge less)	10.6 oz.	1 lb.5.2 oz.	
	g	0 (Charge less)	300	600	

● Operation range

COOLING	°F(°C)	50 to 115 (10 to 46)
HEATING		14 to 75 (-10 to 24)

Please note that the hatching items are different from those of 3 or 4rooms combination.

1-3. SELECT FUNCTION

■ WALL MOUNTED TYPE

● Auto restart

When the air conditioner power was temporarily turned off by a power failure etc.
It restarts automatically after the power recovers.
(Operated by setting before the power failure.)

● Clean room conditioning is realized by equipping the plasma air cleaner

Plasma air cleaner quickly removes small dust particles and odors.
Original plasma air cleaning unit effectively cleans the air in the room.

● Coil dry operation

The indoor unit evaporator can be dried by pressing the COIL DRY button
on the remote control unit.

● Wired remote control unit (option)

The optional wired remote control unit can be used.

■ CONCEALED CEILING TYPE

● Auto restart

When the air conditioner power was temporarily turned off by a power failure etc.
It restarts automatically after the power recovers.
(Operated by setting before the power failure.)

● Thin and compact indoor unit

● Setting the room temperature detection location

The detection location of the room temperature can be selected from the following
three example. Choose the detection location that is best for the installation location.

- A. Indoor unit setting (factory setting)
- B. Remote control unit setting
- C. Indoor unit / remote control unit setting (room temperature sensor selection)

■ CASSETTE TYPE (COMPACT)

● Auto restart

When the air conditioner power was temporarily turned off by a power failure etc.
It restarts automatically after the power recovers. (Operated by setting before the power failure.)

● Remote control unit signal code setting

The Remote control unit signal code can be changed by four patterns.

2. REMOTE CONTROLLER

2-1. WIRELESS REMOTE CONTROLLER (FOR WALL MOUNTED TYPE)

Wireless remote controller is an accessory of all indoor units.

■ FEATURES



- * Four kinds of timer setup (ON / OFF / PROGRAM / SLEEP) are possible.
- * Four kinds of timers. Easy operation.
- * Can be used jointly with Wired remote controllers.

● Built-in timers

Select from four different timer programs (ON / OFF / PROGRAM / SLEEP).

● Program timer

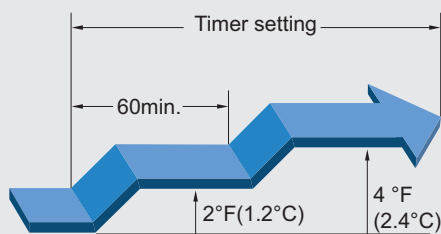
The program timer operates the ON and OFF timer once within a 24 hour period.

● Sleep timer

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

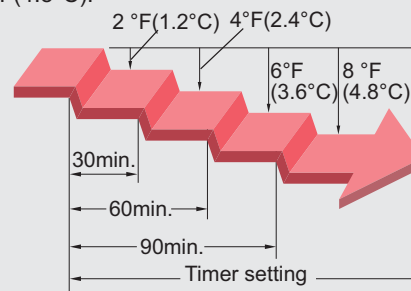
Cooling operation/dry operation

When the sleep timer is set, the set temperature automatically rises 2 °F(1.2°C) every hour. The set temperature can rise up to a maximum of 4 °F(2.4°C).

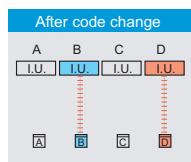
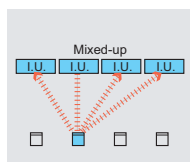


Heating operation

When the sleep timer is set, the set temperature automatically drops 2 °F(1.2°C) every 30 minutes. The set temperature can drop to a maximum of 8 °F(4.8°C).

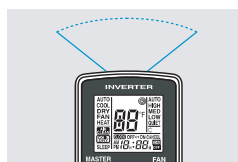


● Switching remote controller signal code



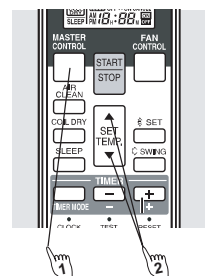
- Code selector switch eliminates unit being wrongly switched. (Up to 4 codes can be set.)

*I.U.=Indoor unit

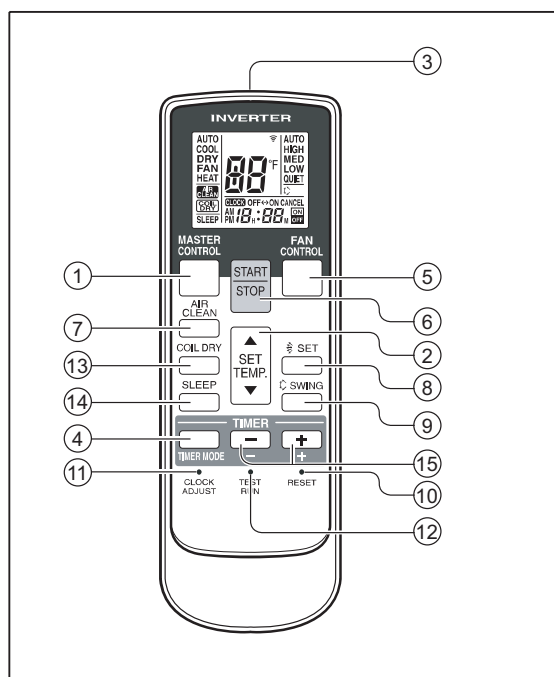


- Wide and precise transmitting range.

1. Press the MASTER CONTROL button for more than five seconds to start the code change.
2. Press the (▲) or (▼) button to select the desired code.
→ A → B → C → D →
3. Press the MASTER CONTROL button again to end the code change.



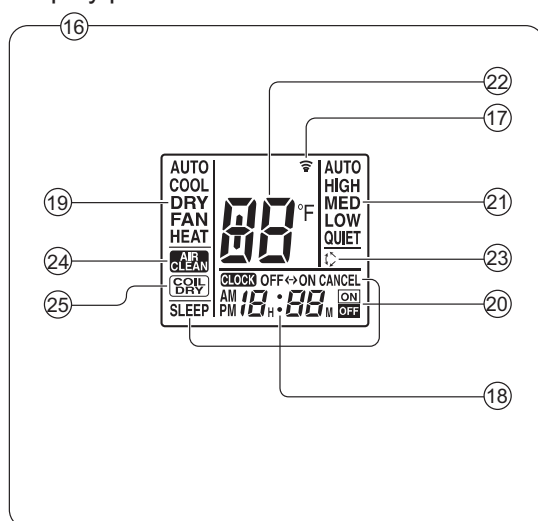
FUNCTIONS



- ① MASTER CONTROL button
- ② SET TEMP. buttons(▲/▼)
- ③ Signal Transmitter
- ④ TIMER MODE button
- ⑤ FAN CONTROL button
- ⑥ START/STOP button
- ⑦ AIR CLEAN button
- ⑧ AIR FLOW DIRECTION SET button
- ⑨ AIR FLOW DIRECTION SWING button
- ⑩ RESET button
- ⑪ CLOCK ADJUST button
- ⑫ TEST RUN button

- Perform a test run only when installing the air conditioner. If the signal to perform a test run is received during normal operation, the air conditioner's thermostat will malfunction.
- If the signal to perform a test run is received during normal operation, the unit will switch to the test operation mode and the indoor unit's OPERATION and TIMER indicator lamps will flash simultaneously.
- To stop the test operation mode, press the START/STOP button to stop the air conditioner.

Display panel



- ⑬ COIL DRY button
- ⑭ SLEEP button
- ⑮ SET TIME button(+/-)
- ⑯ Remote Control Unit Display
- ⑰ Transmit Indicator
- ⑱ Clock Display
- ⑲ Operating Mode Display
- ⑳ Timer Mode Display
- ㉑ Fan Speed Display
- ㉒ Temperature Set Display
- ㉓ SWING Display
- ㉔ AIR CLEAN Display
- ㉕ COIL DRY Display

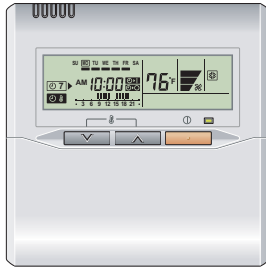
SPECIFICATION

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

SIZE [H×W×D in. (mm)]	6 - 15/16 × 2 - 7/32 × 23/32 (176 × 56 × 18)
WEIGHT oz. (g)	3(85) w/o batteries

2-2. WIRED REMOTE CONTROLLER (FOR CONCEALED CEILING TYPE and OPTIONAL PART FOR WALL MOUNTED TYPE)

■ 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 bulge in the back.
- * Built in room temperature sensor.

● High performance and compact size

Three functions are combined in one unit.



● Built-in timers

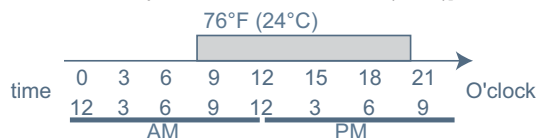
Weekly timer

Possible to set ON/OFF time to operate twice each day of the week.



Setup screen example

[Set to Wednesday: AM8:00 to PM8:00, 76°F (24°C)]



At "Weekly timer" + "Set back timer" setup

76°F → 84°F → 76°F
(24°C → 28°C → 24°C)

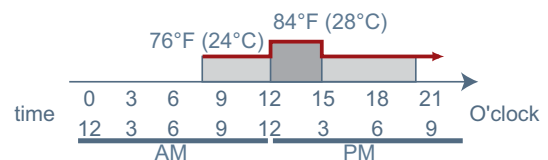
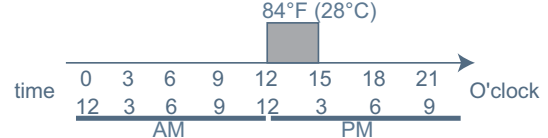
Setback timer

Possible to set temperature for two time spans and for each day of the week.

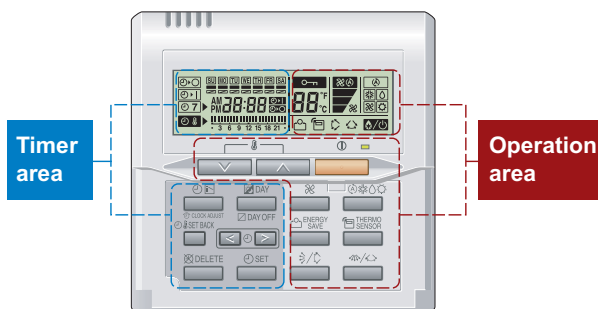


Setup screen example

[Set from Sunday to Saturday: PM12:00 to PM3:00, 84°F (28°C)]



● Easy-to-understand operation

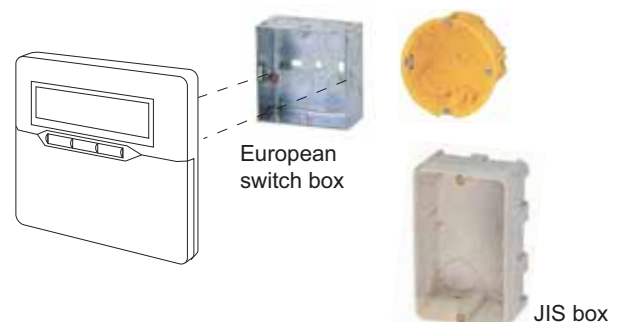


[Variable timer control]

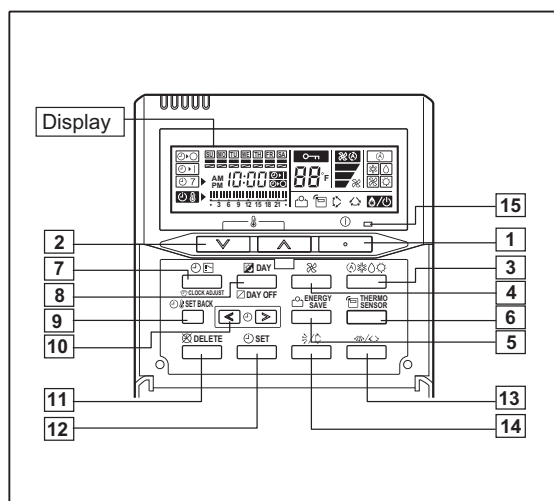
The operation/display sections are zoned according to time and operation, enabling variable programming to match application.

● Simple installation

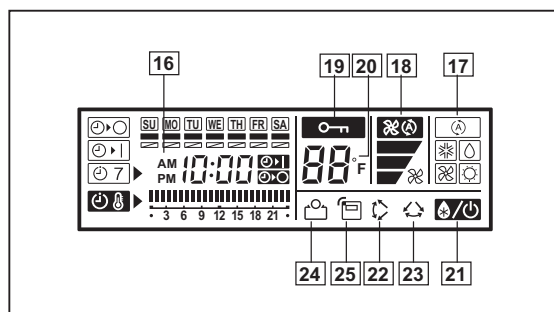
Components are compatible with standard switch boxes. Flat back construction allows equipment to be installed wherever it is needed.



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 to select the set back timer.
- 10 Set time button**
Pressed to set time.
- 11 Delete button**
The schedule of a weekly timer is deleted.
- 12 Set button**
Sets the date, hour, minute and on-off time.
- 13 Horizontal air flow direction and swing button**
Push for two seconds to change the swing mode.
- 14 Vertical air flow direction and swing button**
Push for two seconds to change the swing mode
- 15 Operation lamp**
Lights during operation and when the timer is on.
- 16 Timer and clock display**
- 17 Operation mode display**
- 18 Fan speed display**
- 19 Central control display**
- 20 Temperature display**
- 21 Stand by display**
Indicates during defrosting operation.
- 22 Vertical swing display**
- 23 Horizontal swing display**
- 24 Energy save display**
- 25 Thermo sensor display**

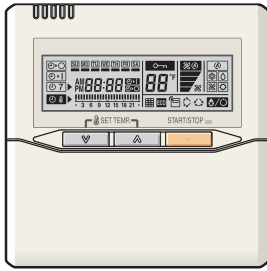
SPECIFICATION

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)	5-5/8 (160)
CABLE LENGTH ft.(m)	33 (10)
POWER (V)	12

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

2-3. WIRED REMOTE CONTROLLER (FOR CASSETTE TYPE)

■ 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.)
- * Up to 16 indoor units can be simultaneously controlled.
- * Economy operation are possible.
- * Easy installation with a slim shape with no bulge in the back.
- * The room temperature can be controlled by being detected the temperature accurately with built-in thermo sensor.

● Simple function setting

Setting of the air conditioner selection function is performed by remote controller.

● High performance and compact size

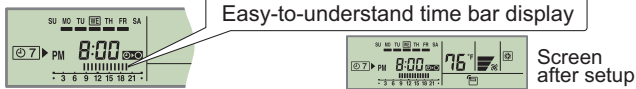
Three functions are combined in one unit.



● Built-in timers

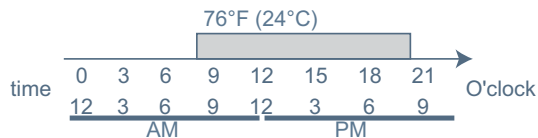
Weekly timer

Possible to set ON/OFF time to operate twice each day of the week.



Setup screen exa

[Set to Wednesday: AM 8:00 to PM 8:00. 76°F (24°C)]



At "Weekly timer" + "Set back timer" setup

76°F → 84°F → 76°F
24°C → 28°C → 24°C

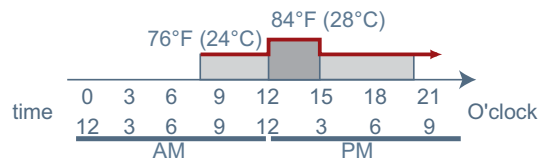
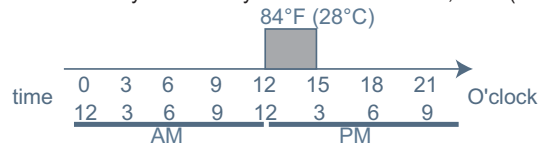
Setback timer

Possible to set temperature for two time spans and for each day of the week.

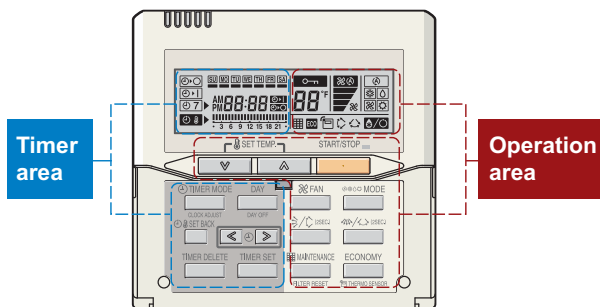


Setup screen example

[Set from Sunday to Saturday: PM12:00 to PM3:00, 84°F (28°C).]



● Easy-to-understand operation

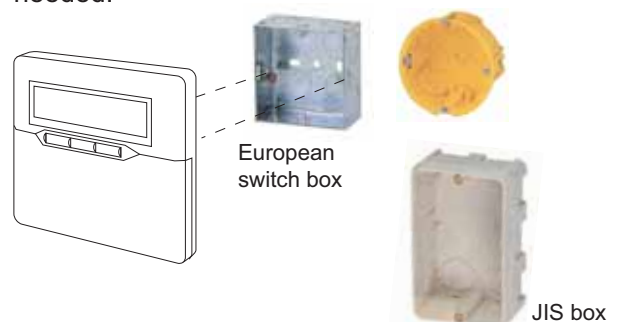


[Variable timer control]

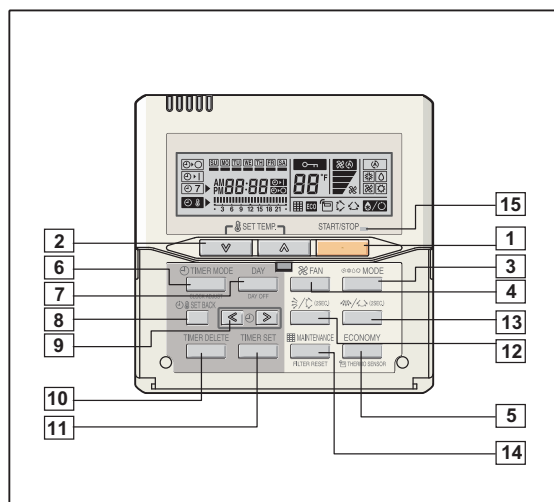
The operation/display sections are zoned according to time and operation, enabling variable programming to match application.

● Simple installation

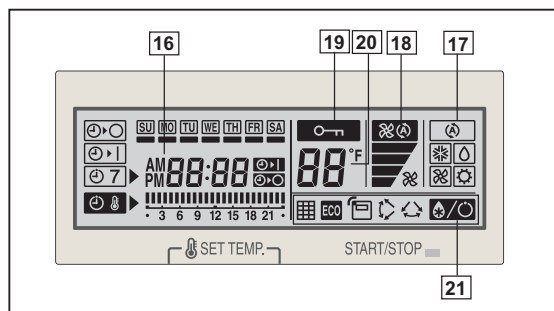
Components are compatible with standard switch boxes. Flat back construction allows equipment to be installed wherever it is needed.



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, QUIET, LOW, MED, HIGH).
- 5 Economy button**
Turns the economy efficient mode on and off.
- 6 Timer mode (CLOCK ADJUST) button**
Selects the timer mode (OFF TIMER, ON TIMER, WEEKLY TIMER).
Set the current time.
- 7 Day (DAY OFF) button**
Temporarily cancels of one day timer.
- 8 Set back button**
Pressed to select the set back timer.
- 9 Set time button**
Pressed to set time.
- 10 Delete button**
The schedule of a weekly timer is deleted.
- 11 Set button**
Sets the date, hour, minute and on-off time.
- 12 Vertical airflow direction and swing button**
Push for two seconds to change the swing mode.
- 13 Horizontal airflow direction and swing button**
Push for two seconds to change the swing mode.
- 14 Filter button**
- 15 Operation lamp**
Lights during operation and when the timer is on.
- 16 Timer and clock display**
- 17 Operation mode display**
- 18 Fan speed display**
- 19 Operation lock display**
- 20 Temperature display**
- 21 Function display**

- Defrost display
- Thermo sensor display
- Economy display
- Vertical swing display
- Horizontal swing display
- Filter display

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)]	4-23/32 x 4-23/32 x 43/64 (120 x 120 x 17)
WEIGHT oz. (g)	5-5/8 (160)
CABLE LENGTH ft. (m)	33 (10)
POWER (V)	12

2-4. WIRELESS REMOTE CONTROLLER (OPTIONAL PART FOR CASSETTE TYPE)

■ 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.

● Simple function setting

Setting of the air conditioner selection function is performed by remote controller.

● Built-in timers

Select from four different timer programs (ON / OFF / PROGRAM / SLEEP).

● Program timer

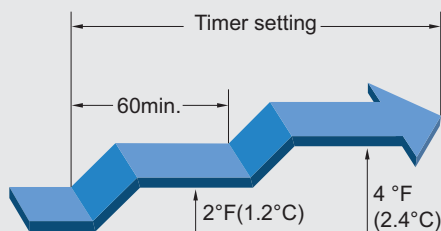
The program timer operates the ON and OFF timer once within a 24 hour period.

● Sleep timer

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

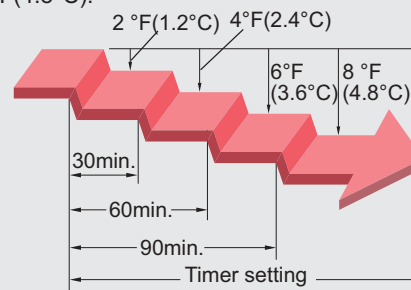
Cooling operation/dry operation

When the sleep timer is set, the set temperature automatically rises 2 °F(1.2°C) every hour. The set temperature can rise up to a maximum of 4 °F(2.4°C).

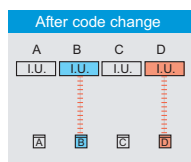
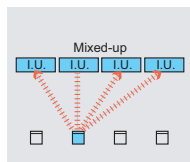


Heating operation

When the sleep timer is set, the set temperature automatically drops 2 °F(1.2°C) every 30 minutes. The set temperature can drop to a maximum of 8 °F(4.8°C).

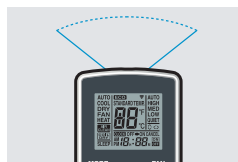


● Switching remote controller signal code



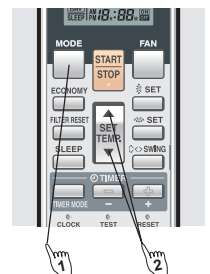
- Code selector switch eliminates unit being wrongly switched. (Up to 4 codes can be set.)

*I.U.=Indoor unit

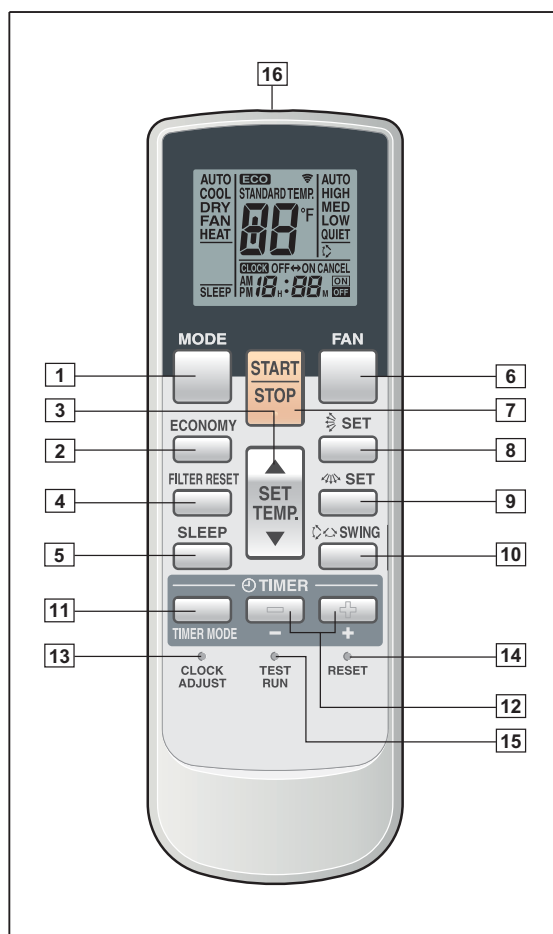


- Wide and precise transmitting range.

1. Press the MODE button for more than five seconds to start the code change.
2. Press the (▲) or (▼) button to select the desired code.
→ A → B → C → D
3. Press the MODE button again to end the code change.

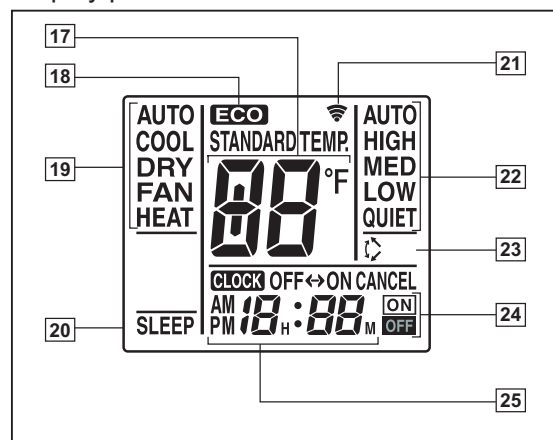


FUNCTIONS



- 1** **MODE button**
Selects the operating mode (AUTO, HEAT, FAN, COOL, DRY).
/Start / end R.C. custom code change. (Max 4 types)
- 2** **Economy button**
- 3** **Set temp. button (▲ / ▼)**
Set remote controller custom code buttons
Sets the indoor temp. / Sets R.C. custom code.
- 4** **Filter reset button**
- 5** **Sleep button**
Pressed to select sleep timer.
- 6** **Fan button**
Selects the fan speed (AUTO, QUIET, LOW, MED, HIGH).
- 7** **START/STOP button**
Pressed to start and stop operation.
- 8** **Set button (Vertical)**
Air flow direction vertical set button.
- 9** **Set button (Horizontal)**
Air flow direction horizontal set button.
- 10** **Swing button**
Air flow direction swing button.
- 11** **Timer mode button**
Pressed to select the timer mode. (OFF TIMER, ON TIMER, PROGRAM TIMER, TIMER CANCEL)
- 12** **Timer set (⊕ / ⊖) button**
Sets the current time and on-off time.
- 13** **Clock adjust button**
Sets the current time.
- 14** **Reset button**
Used when replacing batteries.
- 15** **Test run button**
Used when testing the air conditioner after installation.

Display panel



- 16** **Signal transmitter**
- 17** **Temperature set display**
- 18** **Economy display**
- 19** **Operating mode display**
- 20** **Sleep display**
- 21** **Transmit indicator**
- 22** **Fan speed display**
- 23** **Swing display**
- 24** **Timer mode display**
- 25** **Clock display**

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 oz. (g)	3 (85) w/o batteries
ACCESSORY	Holder

3. SPECIFICATIONS

3-1. WALL MOUNTED TYPE

TYPE				WALL MOUNTED MODELS			
				HEAT PUMP TYPE			
MODEL NAME				ASU9RMLQ	ASU12RMLQ	ASU18RMLQ	
POWER SOURCE				230/208V~ 60Hz			
AVAILABLE VOLTAGE RANGE				187-253V ~ 60Hz			
CAPACITY	COOLING	RATED	kW	2.80	3.50	5.20	
			BTU/h	9500	12000	17800	
		MIN.-MAX.	kW	1.50-3.30	1.50-4.00	1.80-5.60	
			BTU/h	5100-11300	5100-13600	6100-19000	
	HEATING	RATED	kW	3.20	4.10	6.00	
			BTU/h	11000	14000	20500	
		MIN.-MAX.	kW	1.50-3.80	1.50-4.50	1.60-6.70	
			BTU/h	5100-13000	5100-15400	5500-23000	
MOISTURE REMOVAL			pints/h (l/h)	1.7 (0.8)	2.3 (1.1)	4.9 (2.3)	
FAN	AIR FLOW RATE	COOLING	High	CFM (m³/h)	312 (530)	365 (620)	377 (640)
			Med		271 (460)	318 (540)	347 (590)
			Low		224 (380)	265 (450)	294 (500)
			Quiet		194 (330)	224 (380)	253 (430)
		HEATING	High		312 (530)	365 (620)	377 (640)
			Med		271 (460)	318 (540)	347 (590)
			Low		241 (410)	282 (480)	294 (500)
			Quiet		206 (350)	241 (410)	253 (430)
	TYPE x Q'ty			Closs Frow Fan × 1			
	MOTOR OUTPUT		W	42			
	SOUND PRESSURE LEVEL	COOLING	High	dB(A)	37	42	44
			Med		33	38	42
Low			27		32	38	
Quiet			24		27	33	
HEATING		High	37		42	44	
		Med	33		38	42	
		Low	29		33	38	
		Quiet	25		29	33	
HEAT EXCHANGER TYPE	DIMENSION (H×W×D)		in. (mm)	13-7/32 × 25 × 1-1/16 (336×635×26.6)		13-7/32 × 25 × 1-1/16 3-5/16 × 25 × 17/32 (336×635×26.6 , 84×635×13.3)	
	FIN PITCH		FPI	21		21 (2ROW) / 18 (1ROW)	
	ROWS x STAGES			2 × 16		2 × 16 + 1 × 4	
	PIPE TYPE			COPPER TUBE			
ENCLOSURE	FIN TYPE		ALUMINUM				
	MATERIAL		HIPS				
	COLOR		WHITE (Approximate color of MUNSELL N 9.25/)				
DIMENSIONS H ×W ×D	NET		in. (mm)	11-5/32×31-3/32×9-1/16 (283×790×230)			
	GROSS			12-7/16×32-7/8×14-3/16 (316×835×360)			
WEIGHT	NET		lb. (Kg)	20 (9.5)			
	GROSS			26 (12)			
CONNECTION PIPE	SIZE	LIQUID	in. (mm)	Φ 1 / 4 (6.35)		Φ 3 / 8 (9.52) *	
		GAS		Φ 3 / 8 (9.52)		Φ 1/2 (12.7)	
	METHOD			FLARE			
OPERATION RANGE	COOLING			°F(°C)			64 to 90 (18 to 32)
				%RH			80 or less
	HEATING			°F(°C)			60 to 88 (16 to 31)
REMOTE CONTROLLER TYPE				WIRELESS [WIRED (OPTION)]			
DRAIN PIPE	MATERIAL			PVC			
	SIZE			in.(mm)	OUTER DIAMETER Φ 9/16(14.0)		
					INNER DIAMETER Φ 1(25.5)		

Note:

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling: Indoor temperature of 80°F (26.7°C)DB / 67°F (19.4°C)WB, and outdoor temperature of 95°F (35°C)DB/75°F (23.9°C)WB.

Heating: Indoor temperature of 70°F (21.1°C)DB / 60°F (15.6°C)WB, and outdoor temperature of 47°F (8.3°C)DB/43°F (6.1°C)WB.

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

* When 2 indoor units are connected with optional parts MTP-MU36A2.

3-2. CONCEALED CEILING TYPE

TYPE				CONCEALED CEILING MODELS			
				HEAT PUMP TYPE			
MODEL NAME				ARU9RML	ARU12RML	ARU18RML	
POWER SOURCE				230/208V ~ 60Hz			
AVAILABLE VOLTAGE RANGE				187-253V ~ 60Hz			
CAPACITY	COOLING	RATED	kW	2.80	3.50	5.20	
			BTU/h	9500	12000	17800	
		MIN.-MAX.	kW	1.50-3.30	1.50-4.00	1.80-5.60	
	BTU/h		5100-11300	5100-13600	6100-19000		
	HEATING	RATED	kW	3.20	4.10	6.00	
			BTU/h	11000	14000	20500	
		MIN.-MAX.	kW	1.50-3.80	1.50-4.50	1.60-6.70	
BTU/h	5100-13000		5100-15400	5500-23000			
MOISTURE REMOVAL			pints/h (l/h)	1.9 (0.9)	2.5 (1.2)	3.4 (1.6)	
FAN	AIR FLOW RATE	COOLING	High	CFM(m³/h)	294 (500)	412 (700)	494 (840)
			Med		241 (410)	377 (640)	412 (700)
			Low		218 (370)	324 (550)	377 (640)
			Quiet		-	-	-
		HEATING	High		294 (500)	412 (700)	494 (840)
			Med		241 (410)	377 (640)	412 (700)
			Low		218 (370)	324 (550)	377 (640)
			Quiet		-	-	-
	TYPE x Q'ty			SIROCCO × 1	SIROCCO × 2	SIROCCO × 2	
	MOTOR OUTPUT		W	11	21	21	
RECOMMENDED STATIC PRESSURE			in.WG (Pa)	0 - 0.16 (0 to 40)			
SOUND PRESSURE LEVEL Non Measuring duct (Set the Measuring duct *1)	COOLING	High	dB(A)	39 (34)	36 (33)	40 (36)	
		Med		35 (30)	34 (30)	36 (34)	
		Low		32 (27)	31 (28)	34 (32)	
		Quiet		-	-	-	
	HEATING	High		39 (34)	36 (33)	40 (36)	
		Med		35 (30)	34 (30)	36 (34)	
		Low		32 (27)	31 (28)	34 (32)	
		Quiet		-	-	-	
HEAT EXCHANGER TYPE	DIMENSION (HxWxD)		in. (mm)	11-9/16 × 16-5/32 × 1-9/16 (294×410×39.9)	11-9/16 × 27-9/16 × 1-1/16 (294×700×26.6)	11-9/16 × 27-9/16 × 1-9/16 (294×700×39.9)	
	FIN PITCH		FPI	18	20	20	
	ROWS x STAGES			3 × 14	2 × 14	3 × 14	
	PIPE TYPE			COPPER TUBE			
	FIN TYPE			ALUMINUM			
ENCLOSURE	MATERIAL			GALVANIZED STEEL SHEET			
	COLOR			-			
DIMENSIONS H × W × D	NET		in. (mm)	8-35/64 × 25-5/8 × 23-1/2 (217 × 650 × 596)	8-35/64 × 37-1/64 × 23-1/2 (217 × 940 × 596)		
	GROSS			12-3/4 × 20-29/32 × 27 (324 × 785 × 686)	12-3/4 × 42-5/16 × 27 (324 × 1075 × 686)		
WEIGHT	NET		lb. (Kg)	40 (18)	55 (25)		
	GROSS			48 (22)	64 (29)		
CONNECTION PIPE	SIZE	LIQUID	in. (mm)	Φ 1 / 4 (6.35)			Φ 3 / 8 (9.52) *2
		GAS		Φ 3 / 8 (9.52)		Φ 1/2 (12.7)	
	METHOD			FLARE			
OPERATION RANGE	COOLING	°F(°C)	64 to 90 (18 to 32)				
		%RH	80 or less				
	HEATING	°F(°C)	60 to 88 (16 to 31)				
REMOTE CONTROLLER TYPE				WIRED			
DRAIN PIPE	MATERIAL			PS			
	SIZE		in. (mm)	OUTER DIAMETER Φ 1-1/32(26.0)			
				INNER DIAMETER Φ 27/32(21.5)			

Note:

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling: Indoor temperature of 80°F(26.7°C)DB / 67°F(19.4°C)WB, and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB.

Heating: Indoor temperature of 70°F(21.1°C)DB / 60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.

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

*1: Detail is in 8-2-2.CONCEALED CEILING TYPE.

*2: When 2 indoor units are connected with optional parts MTP-MU36A2.

3-3. CASSETTE TYPE

TYPE				CASSETTE MODELS			
				INVERTER HEAT PUMP TYPE			
MoDel name				AUU9RML	AUU12RML	AUU18RML	
Power source				230 / 208V ~ 60Hz			
Available voltage range				187-253V ~ 60Hz			
CAPACITY	COOLING	RATED	kW	2.60	3.50	5.20	
			BTU/h	8800	12000	17800	
		MIN. - MAX.	kW	1.50-3.30	1.50-4.00	1.80-5.60	
			BTU/h	5100-11300	5100-13600	6100-19000	
	HEATING	RATED	kW	3.20	4.10	6.00	
			BTU/h	11000	14000	20500	
		MIN. - MAX.	kW	1.50-3.80	1.50-4.50	1.60-6.70	
			BTU/h	5100-13000	5100-15400	5500-23000	
MOISTURE REMOVAL			pints/h (l/h)	1.9 (0.9)	2.5 (1.2)	3.4 (1.6)	
FAN	AIR FLOW RATE	COOLING	High	CFM (m³/h)	318 (540)	359 (610)	441(750)
			MeD		288 (490)	312 (530)	359 (610)
			Low		259 (440)	277 (470)	306 (520)
			Quiet		230 (390)	241 (410)	241 (410)
		HEATING	High		318 (540)	353 (600)	471 (800)
			MeD		288 (490)	312 (530)	418 (710)
			Low		259 (440)	277 (470)	353 (600)
			Quiet		230 (390)	241 (410)	265 (450)
	TYPE x Q'ty			Turbo x1			
	MOTOR OUTPUT		W	42			
SOUND PRESSURE LEVEL	COOLING	High	DB (A)	33	37	42	
		MeD		31	33	37	
		Low		29	31	33	
		Quiet		26	27	27	
	HEATING	High		34	37	44	
		MeD		32	33	40	
		Low		29	31	37	
		Quiet		27	28	30	
HEAT EXCHANGE TYPE	DIMENSIONS (H x W x D)		in. (mm)	8-9/32 × 51-9/16 × 17/32 + 8-9/32 × 49-7/32 × 17/32 (210×1310×13.3 + 210×1250×13.3)			
	FIN PITCH		FPI	21			
	ROWS x STAGES		2 × 10				
	PIPE TYPE		COPPER TUBE				
	FIN TYPE		ALUMINIUM				
ENCLOSURE (Panel)	MATERIAL		PS				
	COLOR		WHITE (Approximate color of MUNSELL N 9.25 /)				
DIMENSIONS (H x W x D)	NET	UNIT	in. (mm)	9-21/32×22-7/16×22-7/16 (245×570×570)			
		PANEL		1-15/16×27-9/16×27-9/16 (49×700×700)			
	GROSS	UNIT		10-7/16×28-3/4×24-19/32 (265×730×625)			
		PANEL		4-23/32×30-1/8×29-23/32 (120×765×755)			
WEIGHT	NET	UNIT	lb. (Kg)	33 (15)			
		PANEL		5.7 (2.6)			
	GROSS	UNIT		40 (18)			
		PANEL		10 (4.5)			
CONNECTION PIPE	SIZE	LIQUID	in. (mm)	Φ 1 / 4 (6.35)		Φ 3 / 8 (9.52) *	
		GAS		Φ 3 / 8 (9.52)		Φ 1/2 (12.7)	
	METHOD			FLARE			
OPERATION RANGE	COOLING	°F(°C)	64 to 90 (18 to 32)				
		%RH	80 or less				
	HEATING	°F(°C)	60 to 88 (16 to 31)				
REMOTE CONTROLLER TYPE				WIRED [WIRELESS : OPTION]			
DRAIN PIPE	MATERIAL			ABS			
	SIZE		in. (mm)	OUTER DIAMETER Φ 1 (25.4)			
				INNER DIAMETER Φ3/4 (19.4)			

Note :

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling : Indoor temperature of 80°F(26.7°C)DB / 67°F(19.4°C)WB.and outdoor temperature of 95°F(35.00°C)DB/75°F(23.9°C)WB.

Heating : Indoor temperature of 70°F(21.1°C)DB / 60°F(15.6°C)WB.and outdoor temperature of 47°F(8.3°C)DB / 43°F(6.1°C)WB.

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

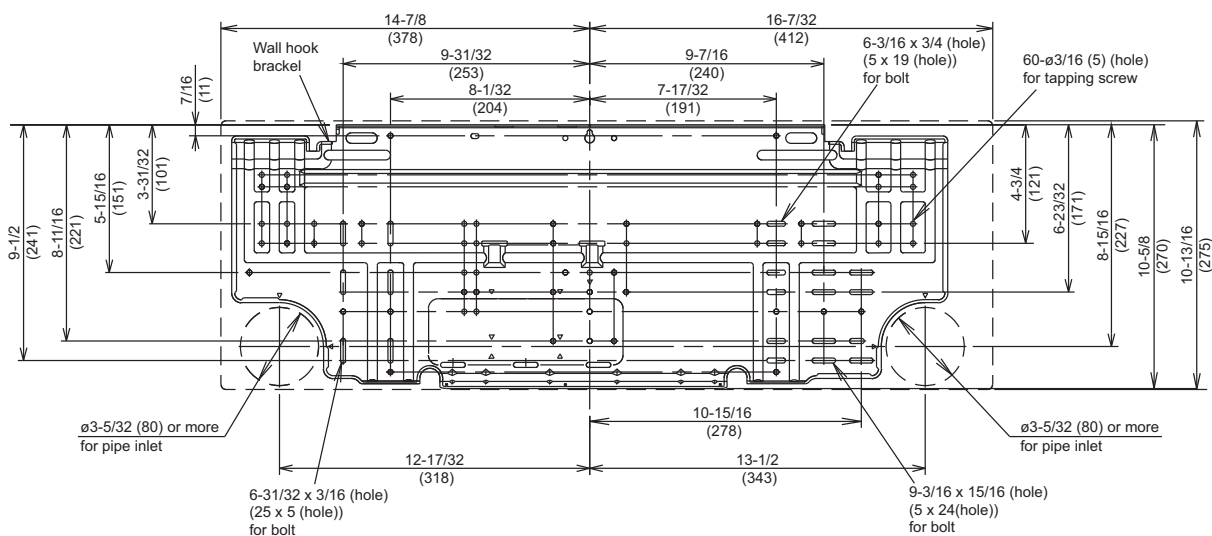
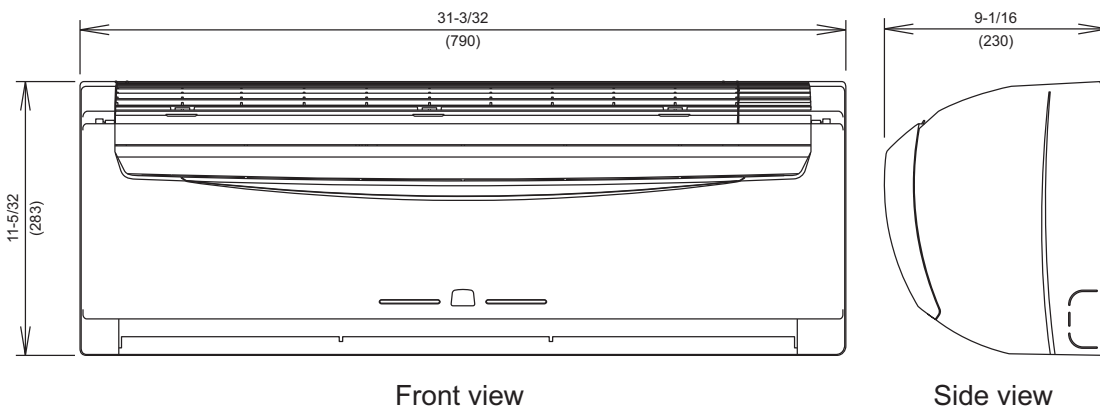
* When 2 indoor units are connected with optional parts MTP-MU36A2.

4. DIMENSIONS

4-1. WALL MOUNTED TYPE

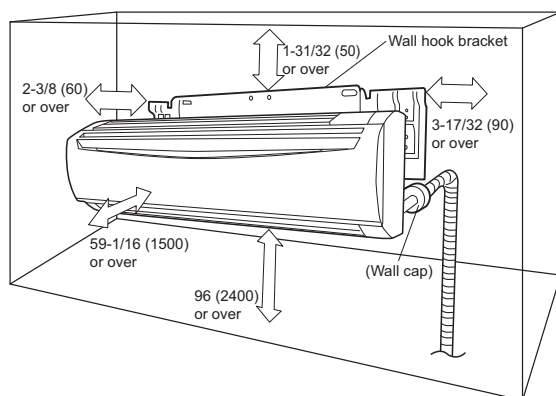
■ MODEL : ASU9R, ASU12R, ASU18R

[Unit : Inch (mm)]



■ INSTALLATION PLACE

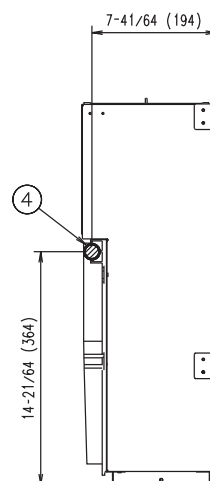
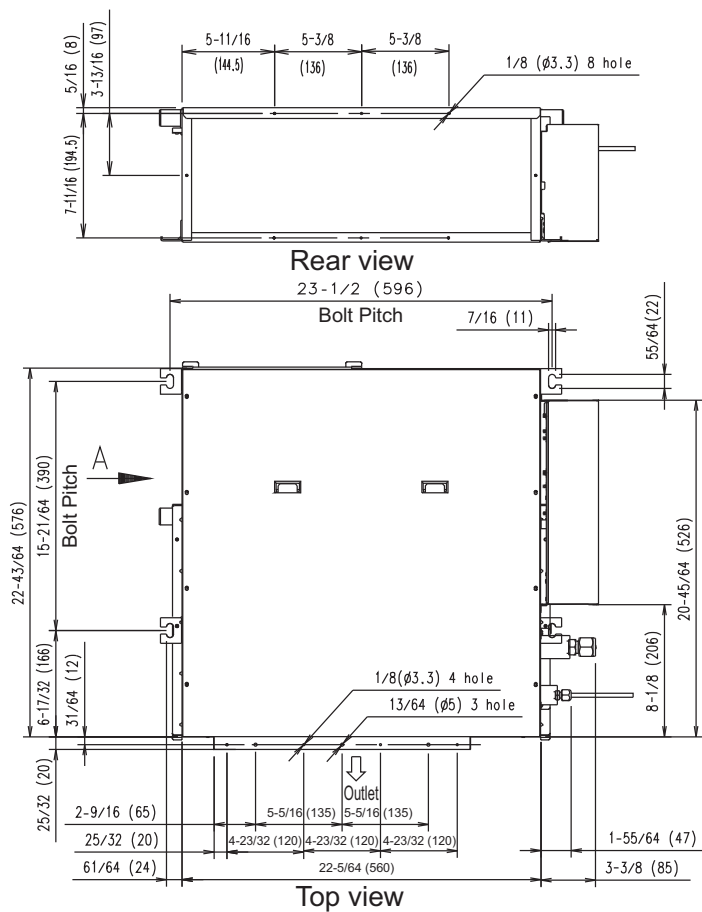
[Unit : Inch (mm)]



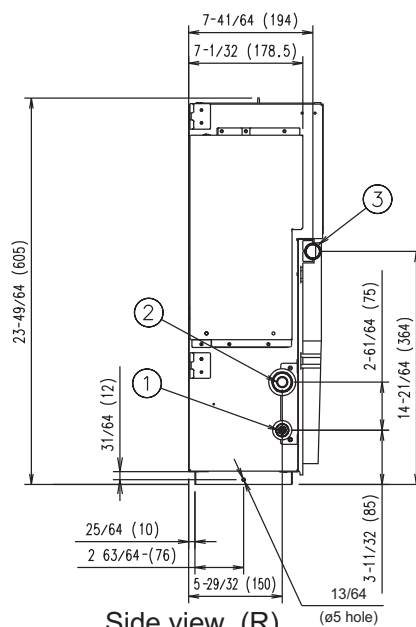
4-2. CONCEALED CEILING TYPE

■ MODEL : ARU9R

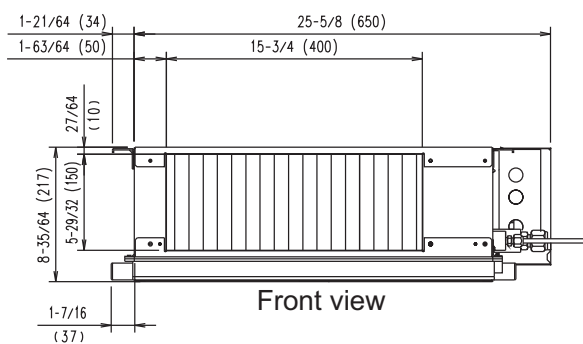
[Unit : Inch (mm)]



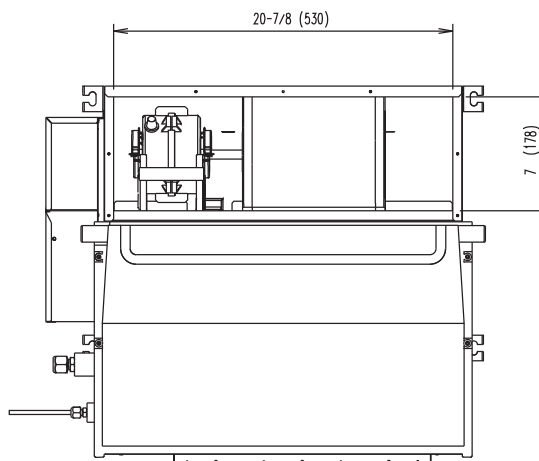
View A



Side view (R)



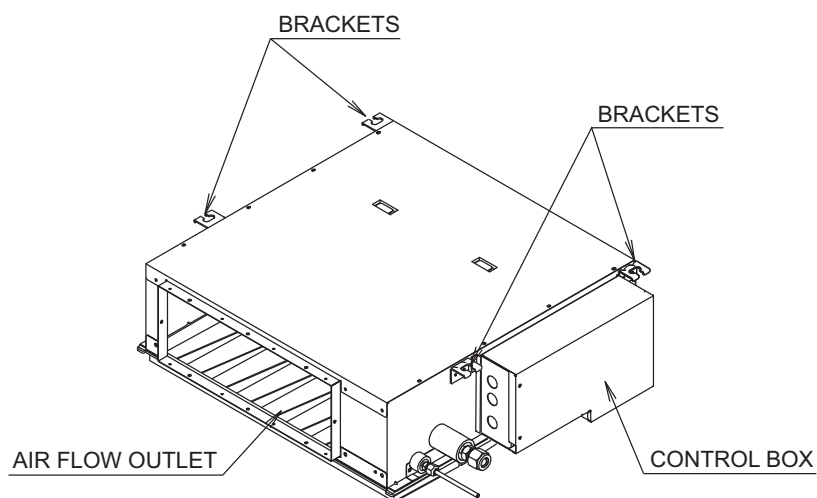
Front view



Bottom view

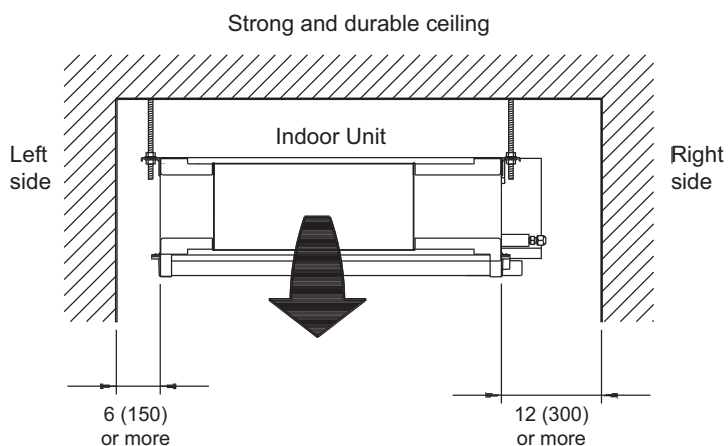
- ① Refrigerant pipe flare connection (Liquid)
- ② Refrigerant pipe flare connection (Gas)
- ③④ Drain pipe connection

■ BIRD'S-EYE VIEW



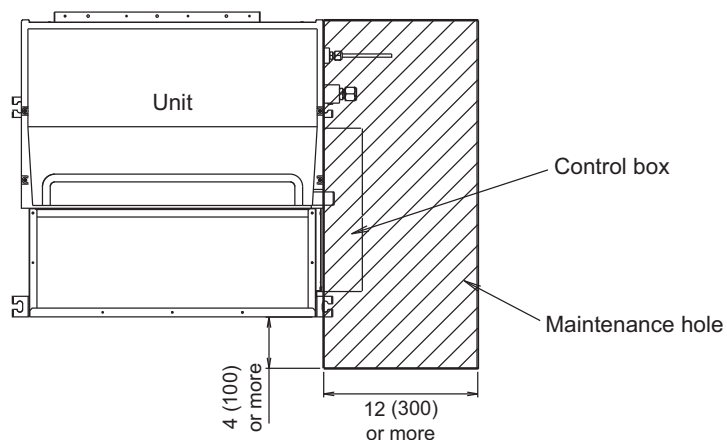
■ INSTALLATION PLACE

[Unit : Inch (mm)]



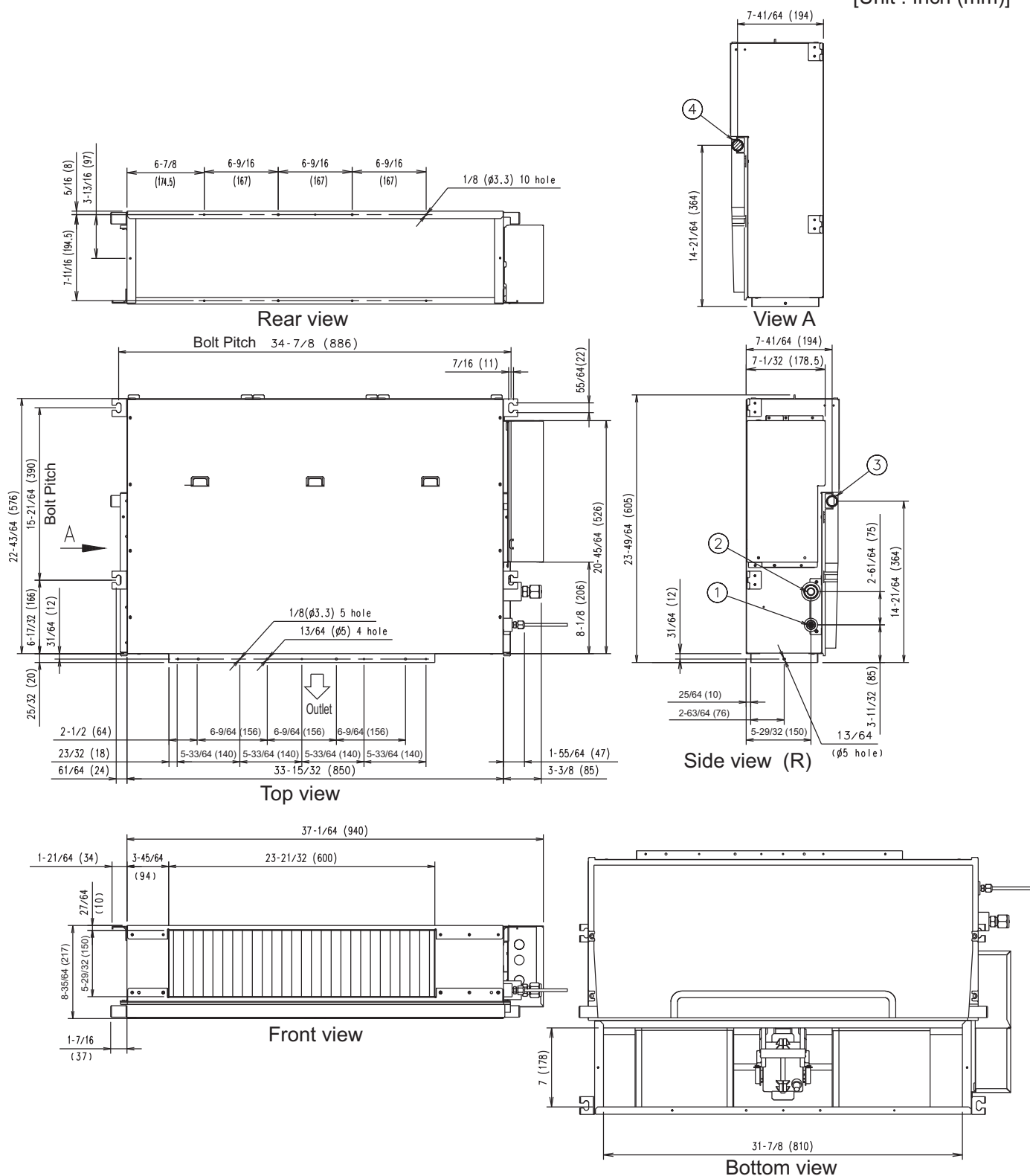
■ MAINTENANCE HOLE

[Unit : Inch (mm)]



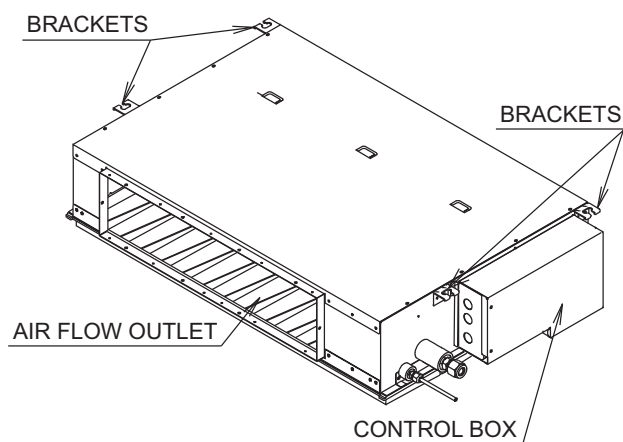
MODEL : ARU12R, ARU18R

[Unit : Inch (mm)]



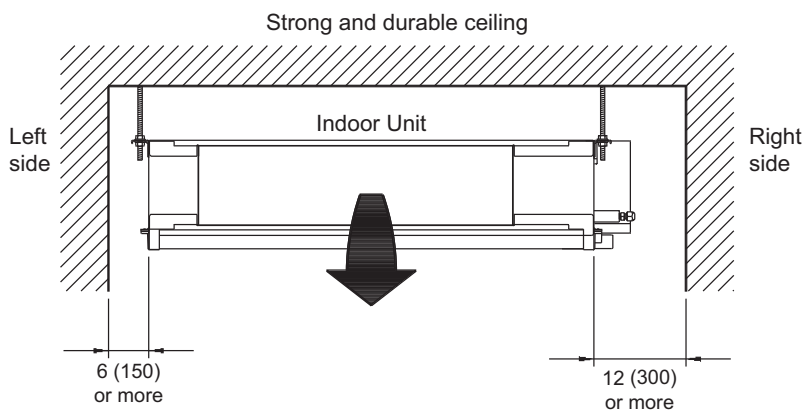
- ① Refrigerant pipe flare connection (Liquid)
- ② Refrigerant pipe flare connection (Gas)
- ③④ Drain pipe connection

■ BIRD'S-EYE VIEW



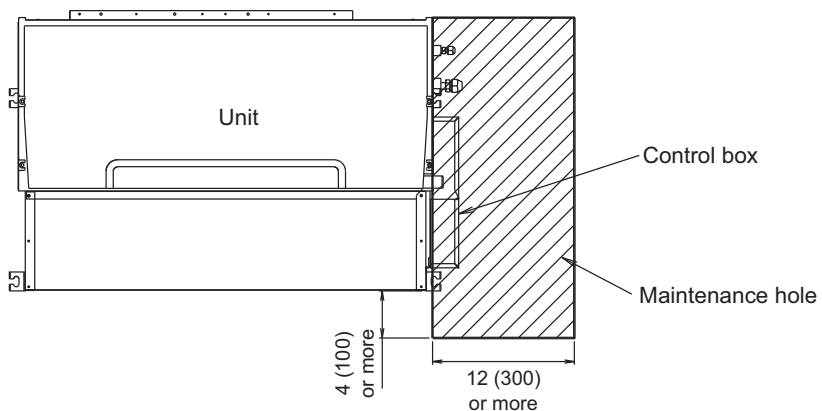
■ INSTALLATION PLACE

[Unit : Inch (mm)]



■ MAINTENANCE HOLE

[Unit : Inch (mm)]

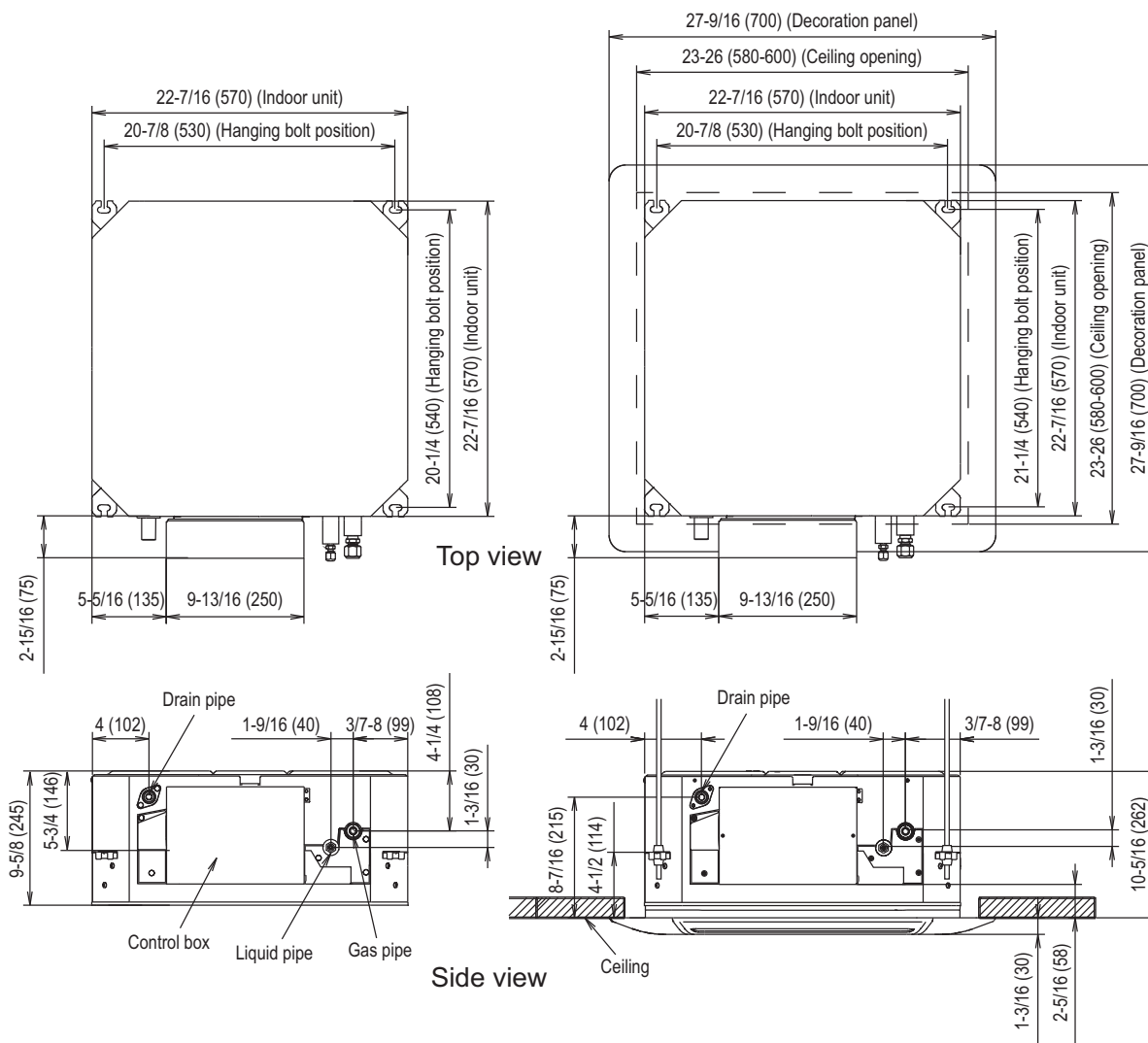


4-3. CASSETTE TYPE

■ MODEL : AUU9R, AUU12R, AUU18R

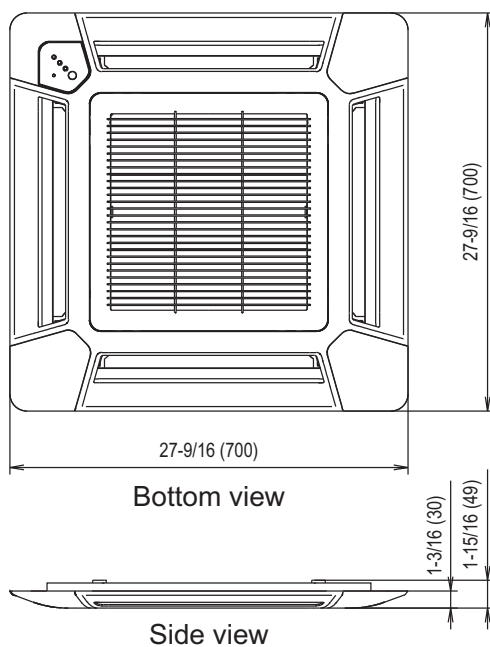
[Unit : Inch (mm)]

• Decoration panel mounting state



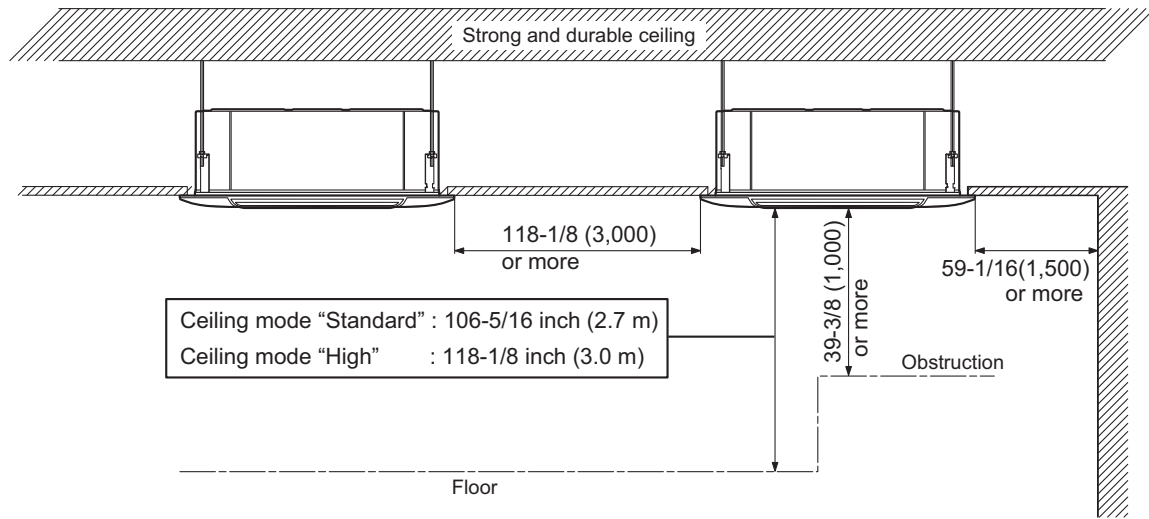
■ MODEL : UTG-UFUB-W

[Unit : Inch (mm)]



■ INSTALLATION PLACE

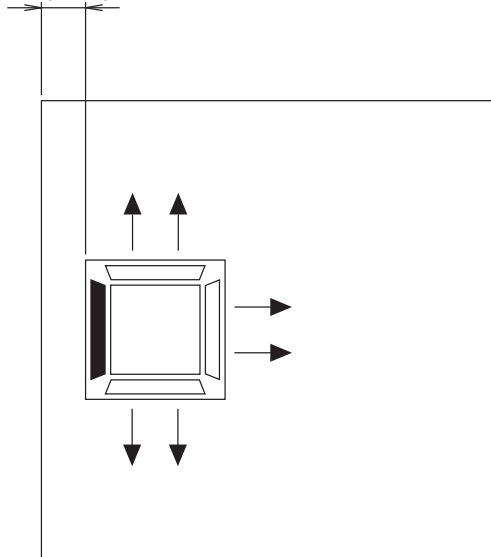
[Unit : Inch (mm)]



● 3-way directions setting

[Unit : Inch (mm)]

3-15/16 (100) or more*

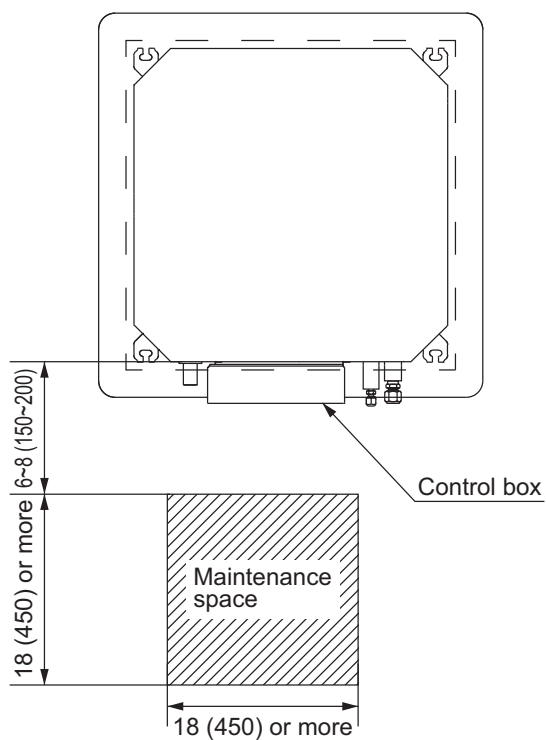


To set "3-way directions", the air outlet shutter plate (UTR-YDZB) sold separately must be installed and "outlet-direction" switched to "3-way" by remote controller.

*When installing the indoor unit, be careful about the maintenance hole

■ MAINTENANCE SPACE

[Unit : Inch (mm)]

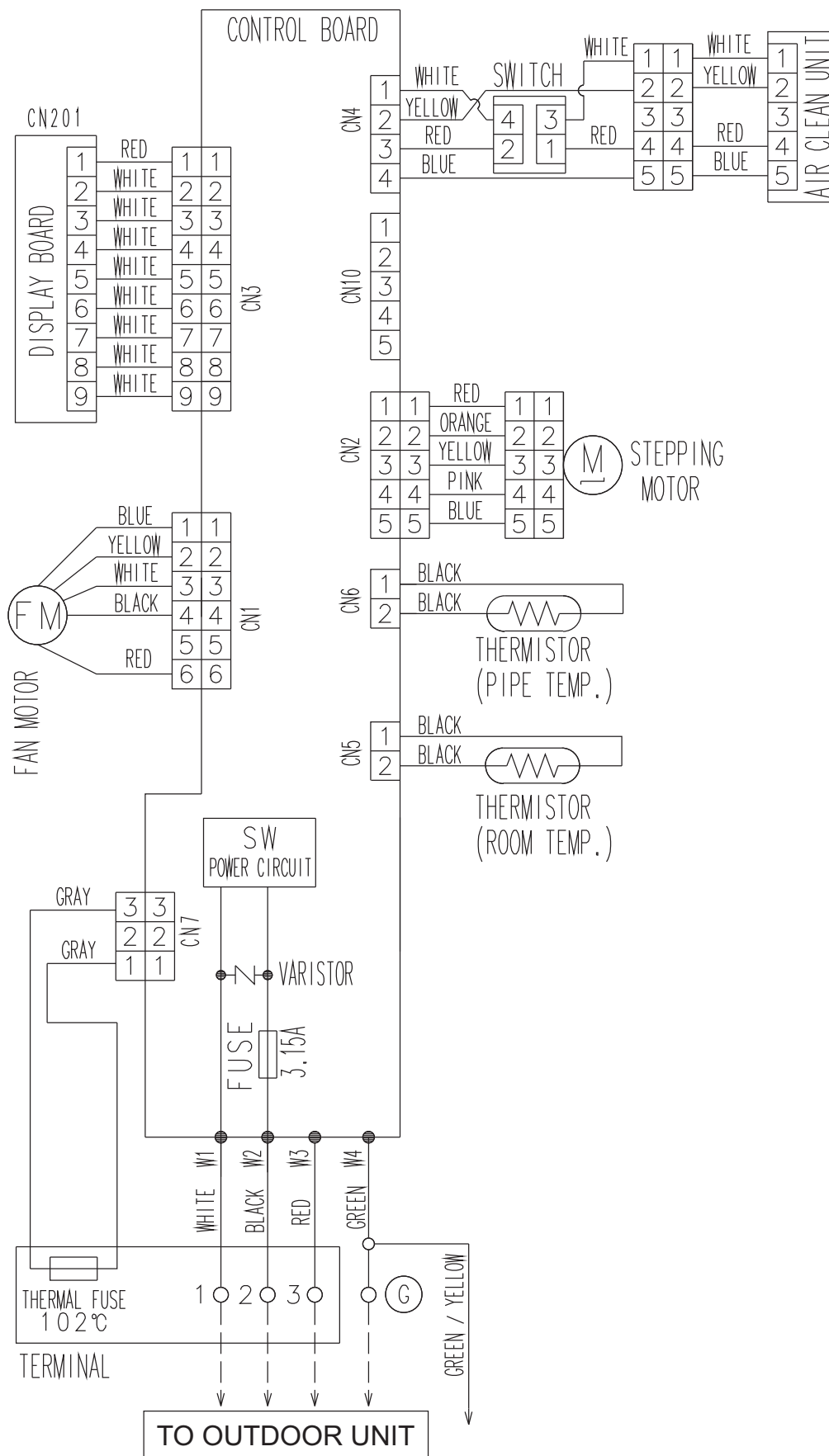


*Be sure to leave the maintenance space follow as above sketch area for future service.

5. WIRING DIAGRAMS

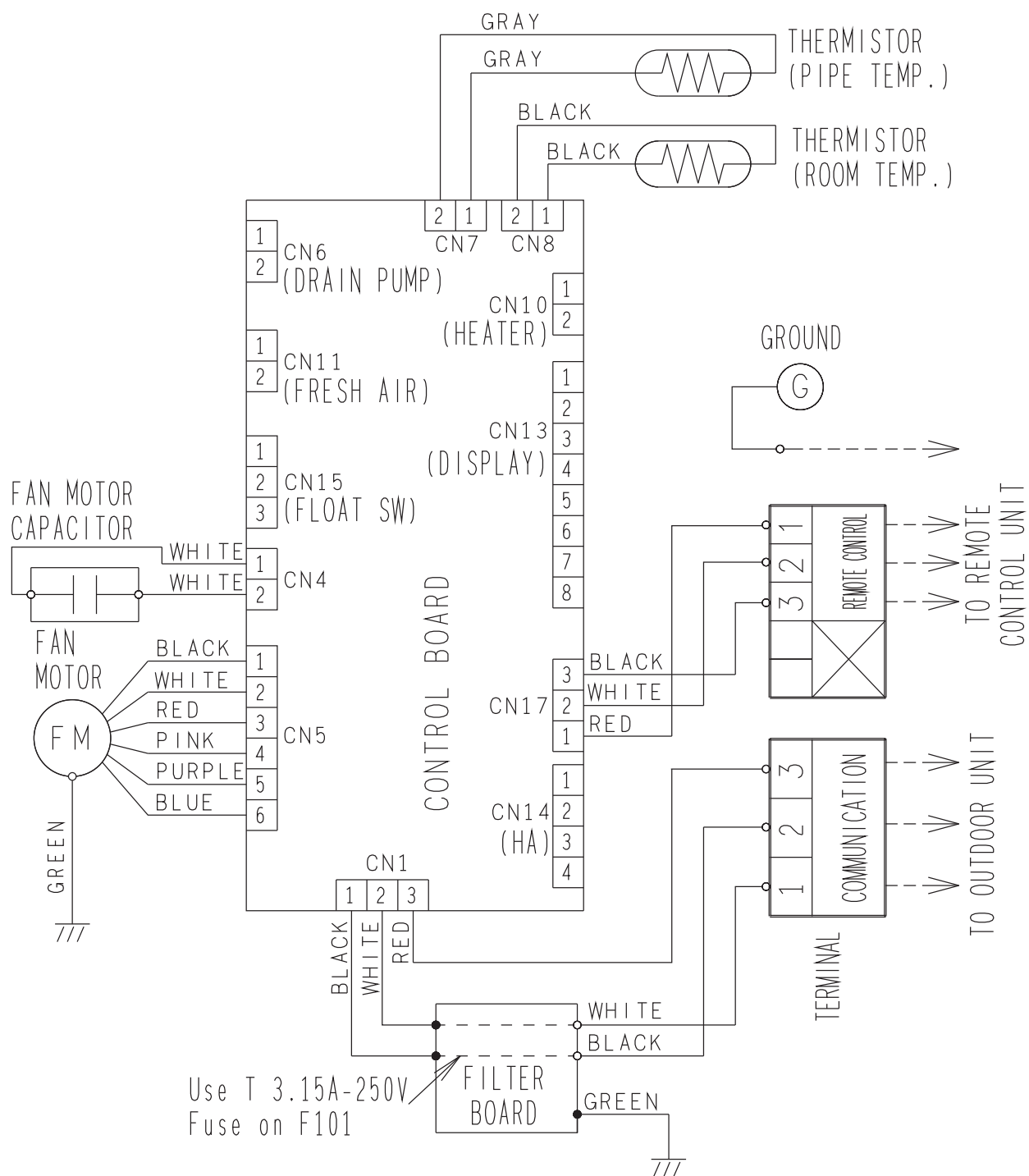
5-1. WALL MOUNTED TYPE

■ MODEL : ASU9R, ASU12R, ASU18R



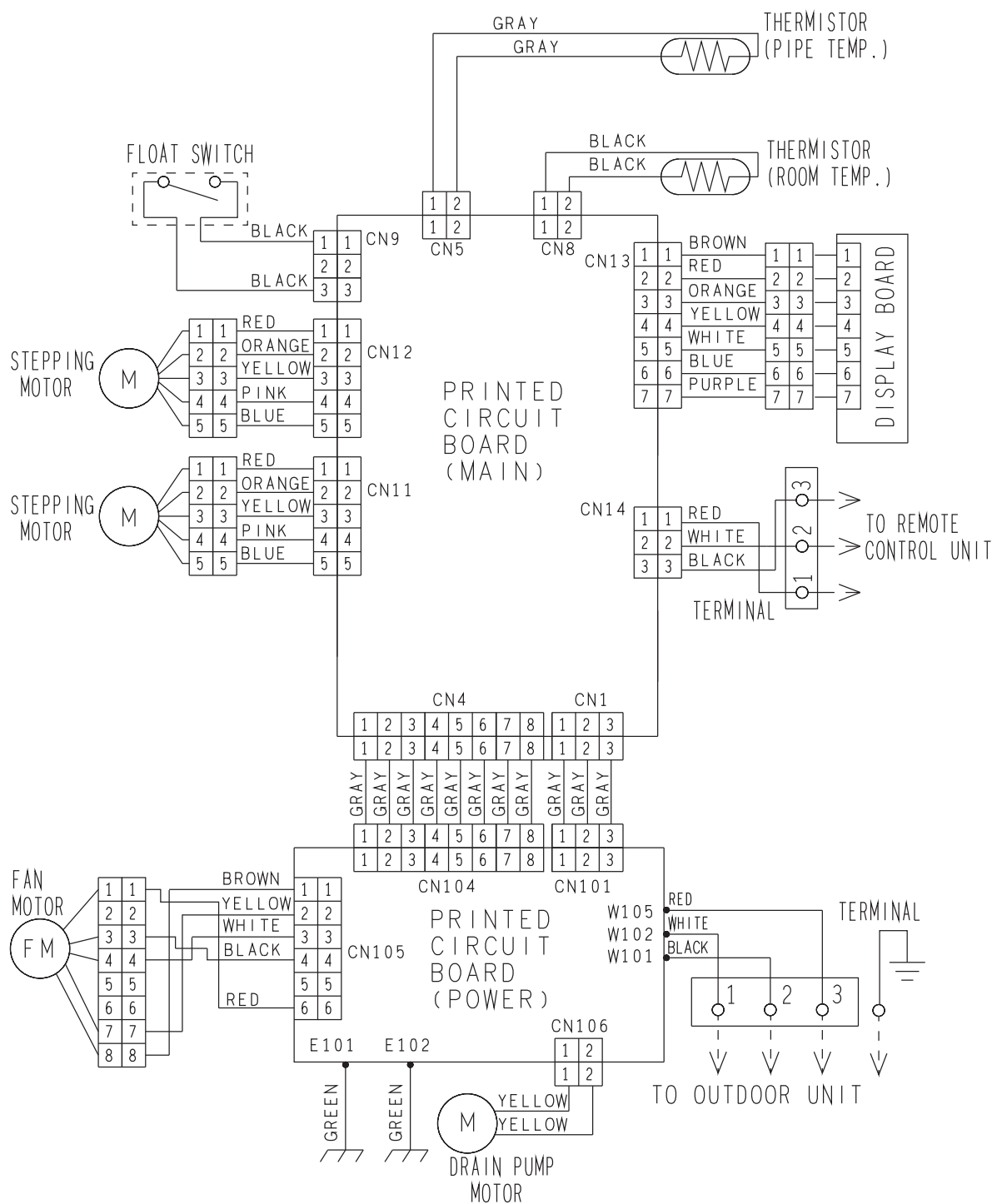
5-2. CONCEALED CEILING TYPE

■ MODEL : ARU9R, ARU12R, ARU18R



5-3. CASSETTE TYPE

■ MODEL : AUU9R, AUU12R, AUU18R



6. CAPACITY TABLE

6-1. WALL MOUNTED COMBINATIONS

This table is created using the maximum capacity.

■ MODEL : ASU9R + ASU9R + ASU9R / AOU36R

● COOLING

AFR 312 + 312 + 312

		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			
		(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI					
Outdoor temperature	32	22.34	18.66	0.99	25.20	18.77	1.01	26.62	20.57	1.02	28.52	21.52	1.03	30.43	22.22	1.04	31.38	24.63	1.05						
	41	21.52	17.98	1.18	24.28	18.09	1.20	25.64	19.82	1.21	27.47	20.73	1.23	29.31	21.41	1.24	30.23	23.73	1.25						
	50	20.38	17.48	1.34	22.98	17.58	1.37	24.28	19.27	1.38	26.01	20.16	1.39	27.75	20.82	1.41	28.62	23.07	1.42						
	59	21.74	18.07	1.44	24.52	18.18	1.46	25.90	19.92	1.47	27.75	20.84	1.49	29.61	21.52	1.51	30.53	23.86	1.52						
	67	26.31	20.13	1.80	29.67	20.25	1.83	31.35	22.19	1.85	33.58	23.21	1.87	35.83	23.97	1.89	36.95	26.57	1.90						
	77	24.39	19.25	2.05	27.51	19.37	2.09	29.06	21.22	2.10	31.14	22.21	2.13	33.22	22.93	2.15	34.26	25.42	2.16						
	87	25.24	20.10	2.81	28.47	20.22	2.86	30.07	22.16	2.88	32.22	23.18	2.91	34.37	23.94	2.95	35.44	26.54	2.96						
	95	25.86	19.92	3.61	29.16	20.04	3.67	30.81	21.96	3.70	33.00	22.97	3.74	35.21	23.72	3.78	36.31	26.30	3.81						
	104	21.08	17.78	3.14	23.77	17.89	3.19	25.11	19.60	3.22	26.90	20.51	3.26	28.70	21.18	3.29	29.60	23.47	3.31						
	115	14.25	14.88	2.27	16.07	14.97	2.31	16.98	16.40	2.33	18.19	17.16	2.36	19.40	17.72	2.39	20.01	19.65	2.40						
AFR : Air flow rate (CFM) TC : Total capacity (kBTU) SHC : Sensible Heat capacity (kBTU) PI : Power Input (kW)																									

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

AFR 8.8 + 8.8 + 8.8

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	6.54	5.46	0.99	7.38	5.50	1.01	7.80	6.02	1.02	8.35	6.30	1.03	8.91	6.51	1.04	9.19	7.21	1.05
	5.00	6.30	5.27	1.18	7.11	5.30	1.20	7.51	5.80	1.21	8.05	6.07	1.23	8.59	6.27	1.24	8.85	6.95	1.25
	10.00	5.97	5.12	1.34	6.73	5.15	1.37	7.11	5.64	1.38	7.62	5.90	1.39	8.13	6.10	1.41	8.38	6.76	1.42
	15.00	6.37	5.29	1.44	7.18	5.33	1.46	7.59	5.83	1.47	8.13	6.10	1.49	8.67	6.30	1.51	8.94	6.99	1.52
	19.44	7.71	5.90	1.80	8.69	5.93	1.83	9.18	6.50	1.85	9.84	6.80	1.87	10.49	7.02	1.89	10.82	7.78	1.90
	25.00	7.14	5.64	2.05	8.06	5.67	2.09	8.51	6.22	2.10	9.12	6.50	2.13	9.73	6.72	2.15	10.03	7.45	2.16
	30.56	7.39	5.89	2.81	8.34	5.92	2.86	8.81	6.49	2.88	9.44	6.79	2.91	10.07	7.01	2.95	10.38	7.77	2.96
	35.00	7.57	5.83	3.61	8.54	5.87	3.67	9.02	6.43	3.70	9.70	6.75	3.74	10.31	6.95	3.78	10.64	7.70	3.81
	40.00	6.17	5.21	3.14	6.96	5.24	3.19	7.35	5.74	3.22	7.88	6.01	3.26	8.41	6.20	3.29	8.67	6.88	3.31
46.11	4.17	4.36	2.27	4.71	4.39	2.31	4.97	4.80	2.33	5.33	5.03	2.36	5.68	5.19	2.39	5.86	5.75	2.40	

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

AFR 312 + 312 + 312

			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	27.57	2.96	26.67	3.05	25.78	3.13	24.88	3.22	24.34	3.27
	23	19	31.75	3.11	30.73	3.20	29.69	3.29	28.66	3.38	28.04	3.44
	32	28	38.03	3.28	36.80	3.38	35.56	3.48	34.33	3.57	33.58	3.63
	41	37	40.84	3.47	39.52	3.57	38.19	3.67	36.86	3.78	36.07	3.84
	47	43	42.99	3.59	41.60	3.70	40.20	3.80	38.80	3.91	37.97	3.97
	50	47	45.79	3.67	44.30	3.78	42.82	3.89	41.33	4.00	40.43	4.06
	59	50	43.30	3.08	41.90	3.17	40.49	3.26	39.08	3.35	38.24	3.40
	68	59	41.29	2.59	39.95	2.66	38.61	2.74	37.27	2.81	36.46	2.86
75	65	44.36	2.59	42.93	2.66	41.48	2.74	40.04	2.81	39.18	2.86	

AFR : Air flow rate(CFM)

TC : Total capacity (kBTU)

PI : Power Input (kW)

AFR 8.8 + 8.8 + 8.8

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.07	2.96	7.81	3.05	7.55	3.13	7.29	3.22	7.13	3.27
	-5.00	-7.22	9.30	3.11	9.00	3.20	8.70	3.29	8.39	3.38	8.21	3.44
	0.00	-2.22	11.14	3.28	10.78	3.38	10.42	3.48	10.05	3.57	9.84	3.63
	5.00	2.78	11.96	3.47	11.57	3.57	11.19	3.67	10.80	3.78	10.56	3.84
	8.33	6.11	12.59	3.59	12.18	3.70	11.80	3.80	11.37	3.91	11.12	3.97
	10.00	8.33	13.41	3.67	12.98	3.78	12.54	3.89	12.10	4.00	11.84	4.06
	15.00	10.00	12.68	3.08	12.27	3.17	11.86	3.26	11.45	3.35	11.20	3.40
	20.00	15.00	12.09	2.59	11.70	2.66	11.31	2.74	10.92	2.81	10.68	2.86
23.89	18.33	12.99	2.59	12.57	2.66	12.15	2.74	11.73	2.81	11.47	2.86	

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

MODEL : ASU12R + ASU9R + ASU9R / AOU36R

● COOLING

AFR 365 + 312 + 312

		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		
		(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC
Outdoor temperature	32	25.44	19.98	1.52	28.69	20.10	1.55	30.31	22.03	1.56	32.47	23.04	1.58	34.64	23.80	1.59	35.72	26.38	1.60
	41	24.07	19.37	1.72	27.15	19.49	1.75	28.68	21.35	1.76	30.73	22.34	1.78	32.78	23.07	1.80	33.81	25.57	1.81
	50	24.71	19.66	1.57	27.87	19.78	1.60	29.44	21.67	1.61	31.54	22.67	1.63	33.65	23.41	1.65	34.70	25.95	1.66
	59	23.36	19.05	1.78	26.34	19.17	1.81	27.83	21.00	1.83	29.81	21.97	1.85	31.81	22.69	1.87	32.80	25.15	1.88
	67	27.06	20.72	1.91	30.52	20.85	1.95	32.24	22.84	1.96	34.54	23.90	1.99	36.85	24.68	2.01	38.00	27.36	2.02
	77	26.06	20.26	2.40	29.39	20.39	2.44	31.05	22.34	2.46	33.26	23.37	2.49	35.49	24.14	2.52	36.60	26.75	2.53
	87	24.63	19.08	3.03	27.78	19.19	3.08	29.35	21.03	3.11	31.44	22.00	3.14	33.55	22.72	3.18	34.59	25.18	3.20
	95	26.56	20.49	3.96	29.96	20.62	4.02	31.65	22.59	4.06	33.90	23.63	4.10	36.17	24.41	4.15	37.30	27.05	4.17
	104	20.74	17.90	3.07	23.39	18.01	3.12	24.71	19.73	3.15	26.48	20.65	3.19	28.25	21.32	3.22	29.13	23.63	3.24
	115	13.99	15.05	2.22	15.78	15.15	2.26	16.67	16.59	2.28	17.86	17.36	2.30	19.05	17.93	2.33	19.65	19.87	2.34
AFR : Air flow rate (CFM)		TC : Total capacity (kBtu)			SHC : Sensible Heat capacity (kBtu)			PI : Power Input (kW)											

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

AFR 10.3 + 8.8 + 8.8

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	7.45	5.85	1.52	8.40	5.89	1.55	8.88	6.45	1.56	9.51	6.75	1.58	10.15	6.97	1.59	10.46	7.73	1.60
	5.00	7.05	5.67	1.72	7.95	5.71	1.75	8.40	6.25	1.76	9.00	6.54	1.78	9.60	6.76	1.80	9.90	7.49	1.81
	10.00	7.24	5.76	1.57	8.16	5.79	1.60	8.62	6.35	1.61	9.24	6.64	1.63	9.86	6.86	1.65	10.16	7.60	1.66
	15.00	6.84	5.58	1.78	7.72	5.61	1.81	8.15	6.15	1.83	8.73	6.43	1.85	9.32	6.65	1.87	9.61	7.37	1.88
	19.44	7.93	6.07	1.91	8.94	6.11	1.95	9.44	6.69	1.96	10.12	7.00	1.99	10.79	7.23	2.01	11.13	8.01	2.02
	25.00	7.63	5.94	2.40	8.61	5.97	2.44	9.09	6.54	2.46	9.74	6.84	2.49	10.39	7.07	2.52	10.72	7.84	2.53
	30.56	7.21	5.59	3.03	8.14	5.62	3.08	8.60	6.16	3.11	9.21	6.44	3.14	9.83	6.66	3.18	10.13	7.38	3.20
	35.00	7.78	6.00	3.96	8.77	6.04	4.02	9.27	6.62	4.06	9.90	6.90	4.10	10.59	7.15	4.15	10.93	7.92	4.17
	40.00	6.07	5.24	3.07	6.85	5.28	3.12	7.24	5.78	3.15	7.75	6.05	3.19	8.27	6.25	3.22	8.53	6.92	3.24
46.11	4.10	4.41	2.22	4.62	4.44	2.26	4.88	4.86	2.28	5.23	5.09	2.30	5.58	5.25	2.33	5.75	5.82	2.34	
AFR : Air flow rate (m³/min) TC : Total capacity (kW) SHC : Sensible Heat capacity (kW) PI : Power Input (kW)																			

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

AFR 365 + 312 + 312

			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	28.01	3.27	27.10	3.37	26.19	3.47	25.28	3.56	24.73	3.62
	23	19	32.22	3.44	31.17	3.54	30.13	3.64	29.08	3.74	28.45	3.80
	32	28	38.49	3.64	37.24	3.74	35.99	3.85	34.74	3.96	33.99	4.02
	41	37	41.25	3.85	39.91	3.96	38.57	4.07	37.23	4.19	36.43	4.26
	47	43	42.77	3.87	41.39	3.98	40.00	4.10	38.61	4.21	37.77	4.28
	50	47	44.81	3.83	43.36	3.94	41.90	4.06	40.44	4.17	39.57	4.24
	59	50	42.40	3.21	41.03	3.31	39.65	3.40	38.27	3.50	37.44	3.56
	68	59	40.39	2.70	39.09	2.78	37.77	2.86	36.46	2.94	35.67	2.99
75	65	43.47	2.70	42.06	2.78	40.65	2.86	39.23	2.94	38.39	2.99	

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

PI : Power Input (kW)

AFR 10.3 + 8.8 + 8.8

		Indoor temperature									
		15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
		(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI
Outdoor temperature	-10.00	-11.11	8.20	3.27	7.94	3.37	7.67	7.40	3.56	7.24	3.62
	-5.00	-7.22	9.44	3.44	9.13	3.54	8.82	8.52	3.74	8.33	3.80
	0.00	-2.22	11.27	3.64	10.91	3.74	10.54	10.18	3.96	9.96	4.02
	5.00	2.78	12.08	3.85	11.69	3.96	11.30	10.90	4.19	10.67	4.26
	8.33	6.11	12.53	3.87	12.12	3.98	11.70	11.31	4.21	11.06	4.28
	10.00	8.33	13.12	3.83	12.70	3.94	12.27	11.85	4.17	11.59	4.24
	15.00	10.00	12.42	3.21	12.02	3.31	11.61	11.21	3.50	10.97	3.56
	20.00	15.00	11.83	2.70	11.45	2.78	11.06	10.68	2.94	10.45	2.99
	23.89	18.33	12.73	2.70	12.32	2.78	11.91	11.49	2.94	11.24	2.99

AFR : Air flow rate(m³/min)

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

MODEL : ASU12R + ASU12R + ASU9R / AOU36R

● COOLING

AFR 365 + 365 + 312

		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		
		(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Outdoor temperature	32	25.86	21.00	1.52	29.16	21.13	1.55	30.81	23.15	1.56	33.01	24.22	1.58	35.21	25.02	1.60	36.31	27.73	1.60	
	41	24.46	20.18	1.72	27.59	20.31	1.75	29.15	22.25	1.77	31.23	23.28	1.79	33.32	24.04	1.81	34.36	26.65	1.82	
	50	25.16	20.57	1.57	28.38	20.69	1.59	29.98	22.67	1.61	32.12	23.72	1.63	34.26	24.50	1.64	35.33	27.15	1.65	
	59	27.88	22.11	1.59	31.45	22.25	1.61	33.22	24.38	1.63	35.59	25.50	1.65	37.97	26.34	1.66	39.16	29.19	1.67	
	67	27.60	21.72	1.91	31.13	21.86	1.95	32.88	23.95	1.96	35.23	25.05	1.98	37.59	25.88	2.01	38.76	28.68	2.02	
	77	28.13	21.74	2.70	31.73	21.87	2.74	33.52	23.97	2.77	35.91	25.07	2.80	38.31	25.90	2.83	39.51	28.70	2.85	
	87	26.91	21.19	3.03	30.35	21.32	3.08	32.06	23.35	3.11	34.35	24.43	3.14	36.64	25.23	3.18	37.79	27.97	3.20	
	95	27.10	21.28	3.95	30.57	21.40	4.02	32.29	23.45	4.06	34.60	24.54	4.10	36.91	25.34	4.15	38.07	28.09	4.17	
	104	21.12	18.63	3.07	23.82	18.75	3.12	25.16	20.54	3.15	26.95	21.49	3.18	28.76	22.19	3.22	29.65	24.60	3.24	
	115	14.21	15.61	2.22	16.03	15.71	2.26	16.93	17.21	2.28	18.14	18.01	2.30	19.35	18.60	2.33	19.96	20.61	2.34	
AFR : Air flow rate (CFM)		TC : Total capacity (kBTU)				SHC : Sensible Heat capacity (kBTU)				PI : Power Input (kW)										

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

AFR 10.3 + 10.3 + 8.8

		Indoor temperature																		
		17.8°CDB				21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB				15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	
	0.00	7.57	6.15	1.52	8.54	6.19	1.55	9.02	6.78	1.56	9.67	7.09	1.58	10.31	7.33	1.60	10.64	8.12	1.60	
	5.00	7.17	5.91	1.72	8.08	5.95	1.75	8.54	6.52	1.77	9.15	6.82	1.79	9.76	7.04	1.81	10.06	7.80	1.82	
	10.00	7.37	6.02	1.57	8.31	6.06	1.59	8.78	6.64	1.61	9.41	6.95	1.63	10.04	7.17	1.64	10.35	7.95	1.65	
	15.00	8.17	6.48	1.59	9.21	6.52	1.61	9.73	7.14	1.63	10.42	7.47	1.65	11.12	7.71	1.66	11.47	8.55	1.67	
	19.44	8.08	6.36	1.91	9.12	6.40	1.95	9.63	7.01	1.96	10.32	7.34	1.98	11.01	7.58	2.01	11.35	8.40	2.02	
	25.00	8.24	6.37	2.70	9.29	6.41	2.74	9.82	7.02	2.77	10.52	7.34	2.80	11.22	7.59	2.83	11.57	8.41	2.85	
	30.56	7.88	6.21	3.03	8.89	6.24	3.08	9.39	6.84	3.11	10.06	7.16	3.14	10.73	7.39	3.18	11.07	8.19	3.20	
	35.00	7.94	6.23	3.95	8.95	6.27	4.02	9.46	6.87	4.06	10.10	7.16	4.10	10.81	7.42	4.15	11.15	8.23	4.17	
	40.00	6.18	5.46	3.07	6.98	5.49	3.12	7.37	6.02	3.15	7.89	6.29	3.18	8.42	6.50	3.22	8.69	7.21	3.24	
46.11	4.16	4.57	2.22	4.69	4.60	2.26	4.96	5.04	2.28	5.31	5.27	2.30	5.67	5.45	2.33	5.85	6.04	2.34		
AFR : Air flow rate (m³/min) TC : Total capacity (kW) SHC : Sensible Heat capacity (kW) PI : Power Input (kW)																				

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

AFR 365 + 365 + 312

			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	28.63	3.29	27.70	3.39	26.77	3.49	25.84	3.58	25.28	3.64
	23	19	32.93	3.46	31.87	3.56	30.80	3.66	29.73	3.76	29.08	3.82
	32	28	39.38	3.65	38.11	3.76	36.83	3.87	35.55	3.97	34.78	4.04
	41	37	42.28	3.65	40.91	3.76	39.54	3.87	38.16	3.97	37.34	4.04
	47	43	43.84	3.87	42.42	3.99	41.00	4.10	39.57	4.22	38.72	4.28
	50	47	46.39	3.90	44.89	4.01	43.38	4.13	41.87	4.24	40.97	4.31
	59	50	43.55	3.22	42.14	3.31	40.72	3.41	39.31	3.50	38.46	3.56
	68	59	41.45	2.70	40.10	2.78	38.76	2.86	37.41	2.94	36.60	2.99
75	65	44.67	2.70	43.23	2.78	41.78	2.86	40.32	2.94	39.45	2.98	

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

PI : Power Input (kW)

AFR 10.3 + 10.3 + 8.8

		Indoor temperature										
		15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB		
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.39	3.29	8.11	3.39	7.84	3.49	7.57	3.58	7.41	3.64
	-5.00	-7.22	9.65	3.46	9.33	3.56	9.02	3.66	8.71	3.76	8.52	3.82
	0.00	-2.22	11.54	3.65	11.16	3.76	10.79	3.87	10.41	3.97	10.19	4.04
	5.00	2.78	12.38	3.65	11.98	3.76	11.58	3.87	11.18	3.97	10.94	4.04
	8.33	6.11	12.84	3.87	12.43	3.99	12.00	4.10	11.59	4.22	11.34	4.28
	10.00	8.33	13.59	3.90	13.15	4.01	12.71	4.13	12.26	4.24	12.00	4.31
	15.00	10.00	12.75	3.22	12.34	3.31	11.93	3.41	11.51	3.50	11.26	3.56
	20.00	15.00	12.14	2.70	11.75	2.78	11.35	2.86	10.96	2.94	10.72	2.99
23.89	18.33	13.08	2.70	12.66	2.78	12.24	2.86	11.81	2.94	11.56	2.98	

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

MODEL : ASU12R + ASU12R + ASU12R / AOU36R

COOLING

AFR	365 + 365 + 365
-----	-----------------

		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
	32	27.40	22.22	1.75	30.90	22.36	1.78	32.64	24.49	1.79	34.97	25.63	1.81	37.31	26.47	1.83	38.47	29.34	1.84
	41	25.84	21.39	1.96	29.15	21.52	1.99	30.79	23.58	2.01	32.98	24.67	2.03	35.19	25.48	2.05	36.29	28.24	2.07
	50	26.66	21.71	1.79	30.07	21.84	1.82	31.76	23.93	1.83	34.03	25.03	1.85	36.31	25.86	1.87	37.44	28.66	1.88
	59	29.65	23.10	1.68	33.44	23.24	1.70	35.32	25.46	1.72	37.84	26.64	1.74	40.37	27.51	1.76	41.63	30.49	1.77
	67	28.44	22.55	1.91	32.08	22.69	1.94	33.89	24.86	1.96	36.31	26.01	1.98	38.74	26.86	2.00	39.95	29.77	2.01
	77	28.94	22.78	2.70	32.64	22.91	2.75	34.48	25.11	2.77	36.94	26.27	2.81	39.41	27.13	2.84	40.64	30.07	2.85
	87	27.76	22.24	3.03	31.31	22.38	3.08	33.07	24.52	3.11	35.43	25.65	3.14	37.80	26.50	3.18	38.98	29.37	3.20
	95	27.97	22.38	3.95	31.55	22.52	4.02	33.33	24.67	4.06	35.70	25.81	4.10	38.09	26.66	4.15	39.28	29.54	4.17
	104	21.80	19.64	3.06	24.59	19.76	3.11	25.98	21.65	3.14	27.83	22.65	3.18	29.69	23.39	3.21	30.62	25.93	3.23
115	14.58	15.32	2.22	16.44	15.41	2.26	17.37	16.89	2.28	18.61	17.67	2.30	19.86	18.25	2.33	20.48	20.22	2.34	
AFR : Air flow rate (CFM) TC : Total capacity (kBtu) SHC : Sensible Heat capacity (kBtu) PI : Power Input (kW)																			

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

AFR	10.3 + 10.3 + 10.3
-----	--------------------

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	8.02	6.51	1.75	9.05	6.55	1.78	9.56	7.17	1.79	10.24	7.51	1.81	10.93	7.75	1.83	11.27	8.59	1.84
	5.00	7.57	6.27	1.96	8.54	6.30	1.99	9.02	6.91	2.01	9.66	7.23	2.03	10.31	7.46	2.05	10.63	8.27	2.07
	10.00	7.81	6.36	1.79	8.81	6.40	1.82	9.30	7.01	1.83	9.97	7.33	1.85	10.63	7.57	1.87	10.97	8.39	1.88
	15.00	8.68	6.76	1.68	9.79	6.81	1.70	10.35	7.46	1.72	11.08	7.80	1.74	11.83	8.06	1.76	12.19	8.93	1.77
	19.44	8.33	6.61	1.91	9.40	6.65	1.94	9.93	7.28	1.96	10.63	7.62	1.98	11.35	7.87	2.00	11.70	8.72	2.01
	25.00	8.48	6.67	2.70	9.56	6.71	2.75	10.10	7.35	2.77	10.82	7.69	2.81	11.54	7.95	2.84	11.90	8.81	2.85
	30.56	8.13	6.52	3.03	9.17	6.56	3.08	9.69	7.18	3.11	10.38	7.51	3.14	11.07	7.76	3.18	11.42	8.60	3.20
	35.00	8.19	6.55	3.95	9.24	6.59	4.02	9.76	7.23	4.06	10.50	7.59	4.10	11.16	7.81	4.15	11.51	8.65	4.17
	40.00	6.39	5.75	3.06	7.20	5.79	3.11	7.61	6.34	3.14	8.15	6.63	3.18	8.70	6.85	3.21	8.97	7.59	3.23
46.11	4.27	4.49	2.22	4.82	4.51	2.26	5.09	4.95	2.28	5.45	5.17	2.30	5.82	5.34	2.33	6.00	5.92	2.34	

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

HEATING

AFR	365 + 365 + 365
-----	-----------------

			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	29.41	3.01	28.46	3.10	27.51	3.19	26.55	3.28	25.98	3.33
	23	19	33.84	3.16	32.74	3.25	31.64	3.35	30.54	3.44	29.88	3.50
	32	28	40.48	3.36	39.17	3.46	37.86	3.55	36.54	3.65	35.75	3.71
	41	37	43.53	3.52	42.12	3.62	40.71	3.73	39.30	3.83	38.45	3.89
	47	43	45.56	3.59	44.08	3.69	42.60	3.80	41.12	3.90	40.23	3.97
	50	47	47.86	2.95	46.31	3.04	44.76	3.13	43.20	3.21	42.27	3.26
	59	50	45.31	2.98	43.84	3.07	42.37	3.16	40.90	3.25	40.01	3.30
	68	59	43.09	2.51	41.69	2.58	40.29	2.65	38.89	2.73	38.05	2.77
75	65	46.50	2.50	45.00	2.58	43.48	2.65	41.97	2.72	41.07	2.77	

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

PI : Power Input (kW)

AFR	10.3 + 10.3 + 10.3
-----	--------------------

		Indoor temperature									
		15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
		(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI
Outdoor temperature	-10.00	-11.11	8.62	3.01	8.34	3.10	8.06	3.19	7.78	7.61	3.33
	-5.00	-7.22	9.91	3.16	9.59	3.25	9.27	3.35	8.95	8.75	3.50
	0.00	-2.22	11.86	3.36	11.47	3.46	11.09	3.55	10.70	10.47	3.71
	5.00	2.78	12.75	3.52	12.34	3.62	11.92	3.73	11.51	11.26	3.89
	8.33	6.11	13.34	3.59	12.91	3.69	12.50	3.80	12.04	11.78	3.97
	10.00	8.33	14.02	2.95	13.57	3.04	13.11	3.13	12.65	12.38	3.26
	15.00	10.00	13.27	2.98	12.84	3.07	12.41	3.16	11.98	11.72	3.30
	20.00	15.00	12.62	2.51	12.21	2.58	11.80	2.65	11.39	11.14	2.77
	23.89	18.33	13.62	2.50	13.18	2.58	12.74	2.65	12.29	12.03	2.77

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

MODEL : ASU18R + ASU9R + ASU9R / AOU36R

● COOLING

AFR 377 + 312 + 312

		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		
		(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC
Outdoor temperature	32	27.62	22.40	1.75	31.15	22.54	1.78	32.91	24.69	1.79	35.26	25.84	1.81	37.61	26.68	1.83	38.79	29.58	1.84
	41	26.05	21.57	1.96	29.38	21.70	1.99	31.04	23.77	2.01	33.25	24.87	2.03	35.48	25.69	2.05	36.59	28.47	2.07
	50	26.88	21.88	1.79	30.31	22.02	1.82	32.02	24.12	1.83	34.31	25.24	1.85	36.60	26.07	1.87	37.74	28.89	1.88
	59	29.89	23.28	1.68	33.71	23.43	1.70	35.61	25.67	1.72	38.15	26.85	1.74	40.70	27.73	1.76	41.97	30.74	1.77
	67	28.68	22.74	1.91	32.34	22.87	1.94	34.17	25.06	1.96	36.60	26.22	1.98	39.05	27.08	2.00	40.27	30.02	2.01
	77	29.18	22.96	2.70	32.91	23.10	2.75	34.76	25.31	2.77	37.24	26.48	2.81	39.73	27.35	2.84	40.97	30.31	2.85
	87	27.98	22.43	3.03	31.56	22.56	3.08	33.34	24.72	3.11	35.72	25.86	3.14	38.11	26.71	3.18	39.30	29.61	3.20
	95	28.20	22.56	3.95	31.81	22.70	4.02	33.60	24.87	4.06	36.00	26.02	4.10	38.40	26.87	4.15	39.60	29.79	4.17
	104	21.98	19.80	3.06	24.79	19.92	3.11	26.19	21.83	3.14	28.06	22.84	3.18	29.94	23.58	3.21	30.87	26.14	3.23
	115	14.70	15.45	2.22	16.58	15.54	2.26	17.51	17.03	2.28	18.76	17.81	2.30	20.02	18.40	2.33	20.64	20.39	2.34
AFR : Air flow rate (CFM)		TC : Total capacity (kBTU)			SHC : Sensible Heat capacity (kBTU)			PI : Power Input (kW)											

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

AFR 10.7 + 8.8 + 8.8

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	8.09	6.56	1.75	9.12	6.60	1.78	9.64	7.23	1.79	10.33	7.57	1.81	11.02	7.82	1.83	11.36	8.66	1.84
	5.00	7.63	6.32	1.96	8.61	6.36	1.99	9.09	6.96	2.01	9.74	7.29	2.03	10.39	7.52	2.05	10.72	8.34	2.07
	10.00	7.87	6.41	1.79	8.88	6.45	1.82	9.38	7.07	1.83	10.05	7.39	1.85	10.72	7.63	1.87	11.06	8.46	1.88
	15.00	8.75	6.82	1.68	9.87	6.86	1.70	10.43	7.52	1.72	11.17	7.87	1.74	11.92	8.12	1.76	12.29	9.00	1.77
	19.44	8.40	6.66	1.91	9.47	6.70	1.94	10.01	7.34	1.96	10.72	7.68	1.98	11.44	7.93	2.00	11.80	8.79	2.01
	25.00	8.55	6.73	2.70	9.64	6.77	2.75	10.18	7.41	2.77	10.91	7.76	2.81	11.64	8.01	2.84	12.00	8.88	2.85
	30.56	8.20	6.57	3.03	9.24	6.61	3.08	9.77	7.24	3.11	10.46	7.58	3.14	11.16	7.82	3.18	11.51	8.67	3.20
	35.00	8.26	6.61	3.95	9.32	6.65	4.02	9.84	7.28	4.06	10.50	7.59	4.10	11.25	7.87	4.15	11.60	8.72	4.17
	40.00	6.44	5.80	3.06	7.26	5.83	3.11	7.67	6.39	3.14	8.22	6.69	3.18	8.77	6.91	3.21	9.04	7.66	3.23
46.11	4.31	4.52	2.22	4.86	4.55	2.26	5.13	4.99	2.28	5.50	5.22	2.30	5.86	5.39	2.33	6.05	5.97	2.34	
AFR : Air flow rate (m³/min) TC : Total capacity (kW) SHC : Sensible Heat capacity (kW) PI : Power Input (kW)																			

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

● HEATING

AFR 377 + 312 + 312

			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	29.00	3.01	28.06	3.10	27.12	3.19	26.18	3.28	25.61	3.33
	23	19	33.36	3.16	32.28	3.25	31.20	3.35	30.11	3.44	29.46	3.50
	32	28	39.91	3.36	38.62	3.46	37.32	3.55	36.03	3.65	35.25	3.71
	41	37	42.92	3.52	41.53	3.62	40.14	3.73	38.74	3.83	37.91	3.89
	47	43	44.92	3.59	43.46	3.69	42.00	3.80	40.54	3.90	39.67	3.97
	50	47	47.19	2.95	45.66	3.04	44.13	3.13	42.60	3.21	41.68	3.26
	59	50	44.67	2.98	43.23	3.07	41.78	3.16	40.32	3.25	39.45	3.30
	68	59	42.48	2.51	41.11	2.58	39.73	2.65	38.35	2.73	37.52	2.77
75	65	45.85	2.50	44.36	2.58	42.87	2.65	41.38	2.72	40.49	2.77	
AFR : Air flow rate (CFM)			TC : Total capacity (kBtu)				PI : Power Input (kW)					

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

AFR 10.7 + 8.8 + 8.8

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.49	3.01	8.22	3.10	7.94	3.19	7.67	3.28	7.50	3.33
	-5.00	-7.22	9.77	3.16	9.45	3.25	9.14	3.35	8.82	3.44	8.63	3.50
	0.00	-2.22	11.69	3.36	11.31	3.46	10.93	3.55	10.55	3.65	10.32	3.71
	5.00	2.78	12.57	3.52	12.16	3.62	11.76	3.73	11.35	3.83	11.10	3.89
	8.33	6.11	13.16	3.59	12.73	3.69	12.30	3.80	11.88	3.90	11.62	3.97
	10.00	8.33	13.82	2.95	13.37	3.04	12.93	3.13	12.48	3.21	12.21	3.26
	15.00	10.00	13.08	2.98	12.66	3.07	12.24	3.16	11.81	3.25	11.56	3.30
	20.00	15.00	12.44	2.51	12.04	2.58	11.64	2.65	11.23	2.73	10.99	2.77
23.89	18.33	13.43	2.50	12.99	2.58	12.56	2.65	12.12	2.72	11.86	2.77	
AFR : Air flow rate (m³/min)			TC : Total capacity (kW)				PI : Power Input (kW)					

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

This table is created using the maximum capacity.

MODEL : ASU9R + ASU9R + ASU9R + ASU9R / AOU36R

● COOLING

AFR 312 + 312 + 312 + 312

		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
	32	27.62	22.40	1.75	31.15	22.54	1.78	32.91	24.69	1.79	35.26	25.84	1.81	37.61	26.68	1.83	38.79	29.58	1.84
	41	26.05	21.57	1.96	29.38	21.70	1.99	31.04	23.77	2.01	33.25	24.87	2.03	35.48	25.69	2.05	36.59	28.47	2.07
	50	26.88	21.88	1.79	30.31	22.02	1.82	32.02	24.12	1.83	34.31	25.24	1.85	36.60	26.07	1.87	37.74	28.89	1.88
	59	29.89	23.28	1.68	33.71	23.43	1.70	35.61	25.67	1.72	38.15	26.85	1.74	40.70	27.73	1.76	41.97	30.74	1.77
	67	28.68	22.74	1.91	32.34	22.87	1.94	34.17	25.06	1.96	36.60	26.22	1.98	39.05	27.08	2.00	40.27	30.02	2.01
	77	29.18	22.96	2.70	32.91	23.10	2.75	34.76	25.31	2.77	37.24	26.48	2.81	39.73	27.35	2.84	40.97	30.31	2.85
	87	27.98	22.43	3.03	31.56	22.56	3.08	33.34	24.72	3.11	35.72	25.86	3.14	38.11	26.71	3.18	39.30	29.61	3.20
	95	28.20	22.56	3.95	31.81	22.70	4.02	33.60	24.87	4.06	36.00	26.02	4.10	38.40	26.87	4.15	39.60	29.79	4.17
	104	21.98	19.80	3.06	24.79	19.92	3.11	26.19	21.83	3.14	28.06	22.84	3.18	29.94	23.58	3.21	30.87	26.14	3.23
115	14.70	15.45	2.22	16.58	15.54	2.26	17.51	17.03	2.28	18.76	17.81	2.30	20.02	18.40	2.33	20.64	20.39	2.34	
AFR : Air flow rate (CFM) TC : Total capacity (kBtu) SHC : Sensible Heat capacity (kBtu) PI : Power Input (kW)																			

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

AFR 8.8 + 8.8 + 8.8 + 8.8

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	8.09	6.56	1.75	9.12	6.60	1.78	9.64	7.23	1.79	10.33	7.57	1.81	11.02	7.82	1.83	11.36	8.66	1.84
	5.00	7.63	6.32	1.96	8.61	6.36	1.99	9.09	6.96	2.01	9.74	7.29	2.03	10.39	7.52	2.05	10.72	8.34	2.07
	10.00	7.87	6.41	1.79	8.88	6.45	1.82	9.38	7.07	1.83	10.05	7.39	1.85	10.72	7.63	1.87	11.06	8.46	1.88
	15.00	8.75	6.82	1.68	9.87	6.86	1.70	10.43	7.52	1.72	11.17	7.87	1.74	11.92	8.12	1.76	12.29	9.00	1.77
	19.44	8.40	6.66	1.91	9.47	6.70	1.94	10.01	7.34	1.96	10.72	7.68	1.98	11.44	7.93	2.00	11.80	8.79	2.01
	25.00	8.55	6.73	2.70	9.64	6.77	2.75	10.18	7.41	2.77	10.91	7.76	2.81	11.64	8.01	2.84	12.00	8.88	2.85
	30.56	8.20	6.57	3.03	9.24	6.61	3.08	9.77	7.24	3.11	10.46	7.58	3.14	11.16	7.82	3.18	11.51	8.67	3.20
	35.00	8.26	6.61	3.95	9.32	6.65	4.02	9.84	7.28	4.06	10.50	7.59	4.10	11.25	7.87	4.15	11.60	8.72	4.17
	40.00	6.44	5.80	3.06	7.26	5.83	3.11	7.67	6.39	3.14	8.22	6.69	3.18	8.77	6.91	3.21	9.04	7.66	3.23
46.11	4.31	4.52	2.22	4.86	4.55	2.26	5.13	4.99	2.28	5.50	5.22	2.30	5.86	5.39	2.33	6.05	5.97	2.34	
AFR : Air flow rate (m³/min)		TC : Total capacity (kW)			SHC : Sensible Heat capacity (kW)			PI : Power Input (kW)											

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

AFR 312 + 312 + 312 + 312

			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	29.00	2.94	28.06	3.02	27.12	3.11	26.18	3.19	25.61	3.25
	23	19	33.36	3.08	32.28	3.17	31.20	3.26	30.11	3.35	29.46	3.41
	32	28	39.91	3.27	38.62	3.37	37.32	3.46	36.03	3.56	35.25	3.62
	41	37	42.92	3.43	41.53	3.53	40.14	3.63	38.74	3.73	37.91	3.79
	47	43	44.92	3.49	43.46	3.60	42.00	3.70	40.54	3.80	39.67	3.86
	50	47	47.19	2.88	45.66	2.96	44.13	3.05	42.60	3.13	41.68	3.18
	59	50	44.67	2.91	43.23	2.99	41.78	3.08	40.32	3.16	39.45	3.21
	68	59	42.48	2.44	41.11	2.51	39.73	2.59	38.35	2.66	37.52	2.70
	75	65	45.85	2.44	44.36	2.51	42.87	2.58	41.38	2.65	40.49	2.70

AFR : Air flow rate (CFM)

TC : Total capacity (kBTU)

PI : Power Input (kW)

AFR 8.8 + 8.8 + 8.8 + 8.8

		Indoor temperature										
		15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB		
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.49	2.94	8.22	3.02	7.94	3.11	7.67	3.19	7.50	3.25
	-5.00	-7.22	9.77	3.08	9.45	3.17	9.14	3.26	8.82	3.35	8.63	3.41
	0.00	-2.22	11.69	3.27	11.31	3.37	10.93	3.46	10.55	3.56	10.32	3.62
	5.00	2.78	12.57	3.43	12.16	3.53	11.76	3.63	11.35	3.73	11.10	3.79
	8.33	6.11	13.16	3.49	12.73	3.60	12.30	3.70	11.88	3.80	11.62	3.86
	10.00	8.33	13.82	2.88	13.37	2.96	12.93	3.05	12.48	3.13	12.21	3.18
	15.00	10.00	13.08	2.91	12.66	2.99	12.24	3.08	11.81	3.16	11.56	3.21
	20.00	15.00	12.44	2.44	12.04	2.51	11.64	2.59	11.23	2.66	10.99	2.70
	23.89	18.33	13.43	2.44	12.99	2.51	12.56	2.58	12.12	2.65	11.86	2.70

AFR : Air flow rate (m³/min)

TC : Total capacity (kW)

PI : Power Input (kW)

6-2. ANOTHER COMBINATIONS TYPE

This table is created using the maximum capacity.

■ INDOOR UNIT : 9000BTU + 9000BTU + 9000BTU

● COOLING

		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
	32	22.34	18.66	0.99	25.20	18.77	1.01	26.62	20.57	1.02	28.52	21.52	1.03	30.43	22.22	1.04	31.38	24.63	1.05
	41	21.52	17.98	1.18	24.28	18.09	1.20	25.64	19.82	1.21	27.47	20.73	1.23	29.31	21.41	1.24	30.23	23.73	1.25
	50	20.38	17.48	1.34	22.98	17.58	1.37	24.28	19.27	1.38	26.01	20.16	1.39	27.75	20.82	1.41	28.62	23.07	1.42
	59	21.74	18.07	1.44	24.52	18.18	1.46	25.90	19.92	1.47	27.75	20.84	1.49	29.61	21.52	1.51	30.53	23.86	1.52
	67	26.31	20.13	1.80	29.67	20.25	1.83	31.35	22.19	1.85	33.58	23.21	1.87	35.83	23.97	1.89	36.95	26.57	1.90
	77	24.39	19.25	2.05	27.51	19.37	2.09	29.06	21.22	2.10	31.14	22.21	2.13	33.22	22.93	2.15	34.26	25.42	2.16
	87	25.24	20.10	2.81	28.47	20.22	2.86	30.07	22.16	2.88	32.22	23.18	2.91	34.37	23.94	2.95	35.44	26.54	2.96
	95	25.86	19.92	3.61	29.16	20.04	3.67	30.81	21.96	3.70	33.00	22.97	3.74	35.21	23.72	3.78	36.31	26.30	3.81
	104	21.08	17.78	3.14	23.77	17.89	3.19	25.11	19.60	3.22	26.90	20.51	3.26	28.70	21.18	3.29	29.60	23.47	3.31
	115	14.25	14.88	2.27	16.07	14.97	2.31	16.98	16.40	2.33	18.19	17.16	2.36	19.40	17.72	2.39	20.01	19.65	2.40

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	6.54	5.46	0.99	7.38	5.50	1.01	7.80	6.02	1.02	8.35	6.30	1.03	8.91	6.51	1.04	9.19	7.21	1.05
	5.00	6.30	5.27	1.18	7.11	5.30	1.20	7.51	5.80	1.21	8.05	6.07	1.23	8.59	6.27	1.24	8.85	6.95	1.25
	10.00	5.97	5.12	1.34	6.73	5.15	1.37	7.11	5.64	1.38	7.62	5.90	1.39	8.13	6.10	1.41	8.38	6.76	1.42
	15.00	6.37	5.29	1.44	7.18	5.33	1.46	7.59	5.83	1.47	8.13	6.10	1.49	8.67	6.30	1.51	8.94	6.99	1.52
	19.44	7.71	5.90	1.80	8.69	5.93	1.83	9.18	6.50	1.85	9.84	6.80	1.87	10.49	7.02	1.89	10.82	7.78	1.90
	25.00	7.14	5.64	2.05	8.06	5.67	2.09	8.51	6.22	2.10	9.12	6.50	2.13	9.73	6.72	2.15	10.03	7.45	2.16
	30.56	7.39	5.89	2.81	8.34	5.92	2.86	8.81	6.49	2.88	9.44	6.79	2.91	10.07	7.01	2.95	10.38	7.77	2.96
	35.00	7.57	5.83	3.61	8.54	5.87	3.67	9.02	6.43	3.70	9.70	6.75	3.74	10.31	6.95	3.78	10.64	7.70	3.81
	40.00	6.17	5.21	3.14	6.96	5.24	3.19	7.35	5.74	3.22	7.88	6.01	3.26	8.41	6.20	3.29	8.67	6.88	3.31
	46.11	4.17	4.36	2.27	4.71	4.39	2.31	4.97	4.80	2.33	5.33	5.03	2.36	5.68	5.19	2.39	5.86	5.75	2.40

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	28.83	3.15	27.89	3.24	26.96	3.34	26.02	3.43	25.46	3.49
	23	19	32.86	3.30	31.80	3.40	30.73	3.50	29.66	3.59	29.02	3.65
	32	28	38.64	3.71	37.39	3.82	36.14	3.93	34.88	4.04	34.13	4.10
	41	37	41.31	4.07	39.98	4.18	38.63	4.30	37.29	4.42	36.49	4.50
	47	43	42.99	4.06	41.59	4.18	40.20	4.30	38.80	4.42	37.96	4.49
	50	47	45.58	4.06	44.10	4.18	42.62	4.30	41.14	4.42	40.25	4.49
	59	50	42.82	3.36	41.43	3.46	40.04	3.56	38.65	3.66	37.82	3.71
	68	59	41.29	2.87	39.95	2.95	38.61	3.03	37.27	3.12	36.46	3.17
75	65	44.59	2.84	43.15	2.93	41.70	3.01	40.25	3.10	39.38	3.15	

TC : Total capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.44	3.15	8.17	3.24	7.90	3.34	7.62	3.43	7.46	3.49
	-5.00	-7.22	9.62	3.30	9.31	3.40	9.00	3.50	8.69	3.59	8.50	3.65
	0.00	-2.22	11.32	3.71	10.95	3.82	10.58	3.93	10.22	4.04	10.00	4.10
	5.00	2.78	12.10	4.07	11.71	4.18	11.32	4.30	10.92	4.42	10.69	4.50
	8.33	6.11	12.59	4.06	12.18	4.18	11.80	4.30	11.36	4.42	11.12	4.49
	10.00	8.33	13.35	4.06	12.92	4.18	12.48	4.30	12.05	4.42	11.79	4.49
	15.00	10.00	12.54	3.36	12.14	3.46	11.73	3.56	11.32	3.66	11.08	3.71
	20.00	15.00	12.09	2.87	11.70	2.95	11.31	3.03	10.92	3.12	10.68	3.17
23.89	18.33	13.06	2.84	12.64	2.93	12.21	3.01	11.79	3.10	11.53	3.15	

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

■ INDOOR UNIT : 12000BTU + 9000BTU + 9000BTU

● COOLING

		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
	32	25.44	19.98	1.79	28.69	20.10	1.82	30.31	22.03	1.84	32.47	23.04	1.86	34.64	23.80	1.88	35.72	26.38	1.89
	41	24.07	19.37	1.99	27.15	19.49	2.02	28.68	21.35	2.04	30.73	22.34	2.06	32.78	23.07	2.09	33.81	25.57	2.10
	50	24.71	19.66	1.84	27.87	19.78	1.87	29.44	21.67	1.89	31.54	22.67	1.91	33.65	23.41	1.93	34.70	25.95	1.94
	59	23.36	19.05	2.05	26.34	19.17	2.09	27.83	21.00	2.11	29.81	21.97	2.13	31.81	22.69	2.15	32.80	25.15	2.16
	67	27.06	20.72	2.18	30.52	20.85	2.22	32.24	22.84	2.24	34.54	23.90	2.27	36.85	24.68	2.29	38.00	27.36	2.30
	77	26.06	20.26	2.67	29.39	20.39	2.71	31.05	22.34	2.74	33.26	23.37	2.77	35.49	24.14	2.80	36.60	26.75	2.81
	87	24.63	19.08	3.30	27.78	19.19	3.36	29.35	21.03	3.38	31.44	22.00	3.42	33.55	22.72	3.46	34.59	25.18	3.48
	95	26.56	20.49	4.23	29.96	20.62	4.30	31.65	22.59	4.33	33.90	23.63	4.38	36.17	24.41	4.43	37.30	27.05	4.46
	104	20.74	17.90	3.34	23.39	18.01	3.40	24.71	19.73	3.43	26.48	20.65	3.47	28.25	21.32	3.50	29.13	23.63	3.52
	115	13.99	15.05	2.49	15.78	15.15	2.53	16.67	16.59	2.56	17.86	17.36	2.58	19.05	17.93	2.61	19.65	19.87	2.63

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	7.45	5.85	1.79	8.40	5.89	1.82	8.88	6.45	1.84	9.51	6.75	1.86	10.15	6.97	1.88	10.46	7.73	1.89
	5.00	7.05	5.67	1.99	7.95	5.71	2.02	8.40	6.25	2.04	9.00	6.54	2.06	9.60	6.76	2.09	9.90	7.49	2.10
	10.00	7.24	5.76	1.84	8.16	5.79	1.87	8.62	6.35	1.89	9.24	6.64	1.91	9.86	6.86	1.93	10.16	7.60	1.94
	15.00	6.84	5.58	2.05	7.72	5.61	2.09	8.15	6.15	2.11	8.73	6.43	2.13	9.32	6.65	2.15	9.61	7.37	2.16
	19.44	7.93	6.07	2.18	8.94	6.11	2.22	9.44	6.69	2.24	10.12	7.00	2.27	10.79	7.23	2.29	11.13	8.01	2.30
	25.00	7.63	5.94	2.67	8.61	5.97	2.71	9.09	6.54	2.74	9.74	6.84	2.77	10.39	7.07	2.80	10.72	7.84	2.81
	30.56	7.21	5.59	3.30	8.14	5.62	3.36	8.60	6.16	3.38	9.21	6.44	3.42	9.83	6.66	3.46	10.13	7.38	3.48
	35.00	7.78	6.00	4.23	8.77	6.04	4.30	9.27	6.62	4.33	9.90	6.90	4.38	10.59	7.15	4.43	10.93	7.92	4.46
	40.00	6.07	5.24	3.34	6.85	5.28	3.40	7.24	5.78	3.43	7.75	6.05	3.47	8.27	6.25	3.50	8.53	6.92	3.52
	46.11	4.10	4.41	2.49	4.62	4.44	2.53	4.88	4.86	2.56	5.23	5.09	2.58	5.58	5.25	2.61	5.75	5.82	2.63

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	30.00	3.37	29.03	3.47	28.05	3.57	27.08	3.67	26.49	3.73
	23	19	34.16	3.53	33.06	3.64	31.95	3.74	30.84	3.85	30.17	3.91
	32	28	40.18	3.97	38.88	4.09	37.57	4.20	36.27	4.32	35.48	4.39
	41	37	41.04	4.06	39.71	4.18	38.38	4.30	37.04	4.42	36.24	4.50
	47	43	42.77	4.06	41.39	4.18	40.00	4.30	38.61	4.42	37.77	4.49
	50	47	45.43	4.05	43.96	4.17	42.48	4.29	41.01	4.41	40.12	4.48
	59	50	43.09	3.41	41.69	3.51	40.29	3.61	38.89	3.71	38.05	3.77
	68	59	41.51	2.91	40.17	3.00	38.82	3.08	37.47	3.17	36.66	3.22
75	65	45.03	2.91	43.57	2.99	42.11	3.08	40.64	3.16	39.76	3.22	

TC : Total capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.79	3.37	8.50	3.47	8.22	3.57	7.93	3.67	7.76	3.73
	-5.00	-7.22	10.01	3.53	9.68	3.64	9.36	3.74	9.03	3.85	8.84	3.91
	0.00	-2.22	11.77	3.97	11.39	4.09	11.00	4.20	10.62	4.32	10.39	4.39
	5.00	2.78	12.02	4.06	11.63	4.18	11.24	4.30	10.85	4.42	10.62	4.50
	8.33	6.11	12.53	4.06	12.12	4.18	11.70	4.30	11.31	4.42	11.06	4.49
	10.00	8.33	13.31	4.05	12.88	4.17	12.44	4.29	12.01	4.41	11.75	4.48
	15.00	10.00	12.62	3.41	12.21	3.51	11.80	3.61	11.39	3.71	11.14	3.77
	20.00	15.00	12.16	2.91	11.77	3.00	11.37	3.08	10.97	3.17	10.74	3.22
23.89	18.33	13.19	2.91	12.76	2.99	12.33	3.08	11.90	3.16	11.65	3.22	

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

■ INDOOR UNIT : 12000BTU + 12000BTU + 9000BTU

● COOLING

		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
	32	25.86	21.00	1.79	29.16	21.13	1.82	30.81	23.15	1.84	33.01	24.22	1.86	35.21	25.02	1.88	36.31	27.73	1.89
	41	24.46	20.18	1.99	27.59	20.31	2.03	29.15	22.25	2.04	31.23	23.28	2.07	33.32	24.04	2.09	34.36	26.65	2.10
	50	25.16	20.57	1.84	28.38	20.69	1.87	29.98	22.67	1.88	32.12	23.72	1.91	34.26	24.50	1.93	35.33	27.15	1.94
	59	27.88	22.11	1.86	31.45	22.25	1.89	33.22	24.38	1.90	35.59	25.50	1.93	37.97	26.34	1.95	39.16	29.19	1.96
	67	27.60	21.72	2.18	31.13	21.86	2.22	32.88	23.95	2.24	35.23	25.05	2.26	37.59	25.88	2.29	38.76	28.68	2.30
	77	28.13	21.74	2.97	31.73	21.87	3.02	33.52	23.97	3.04	35.91	25.07	3.08	38.31	25.90	3.11	39.51	28.70	3.13
	87	26.91	21.19	3.30	30.35	21.32	3.36	32.06	23.35	3.39	34.35	24.43	3.42	36.64	25.23	3.46	37.79	27.97	3.48
	95	27.10	21.28	4.22	30.57	21.40	4.30	32.29	23.45	4.33	34.60	24.54	4.38	36.91	25.34	4.43	38.07	28.09	4.46
	104	21.12	18.63	3.34	23.82	18.75	3.40	25.16	20.54	3.42	26.95	21.49	3.46	28.76	22.19	3.50	29.65	24.60	3.52
	115	14.21	15.61	2.49	16.03	15.71	2.53	16.93	17.21	2.56	18.14	18.01	2.58	19.35	18.60	2.61	19.96	20.61	2.63

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	7.57	6.15	1.79	8.54	6.19	1.82	9.02	6.78	1.84	9.67	7.09	1.86	10.31	7.33	1.88	10.64	8.12	1.89
	5.00	7.17	5.91	1.99	8.08	5.95	2.03	8.54	6.52	2.04	9.15	6.82	2.07	9.76	7.04	2.09	10.06	7.80	2.10
	10.00	7.37	6.02	1.84	8.31	6.06	1.87	8.78	6.64	1.88	9.41	6.95	1.91	10.04	7.17	1.93	10.35	7.95	1.94
	15.00	8.17	6.48	1.86	9.21	6.52	1.89	9.73	7.14	1.90	10.42	7.47	1.93	11.12	7.71	1.95	11.47	8.55	1.96
	19.44	8.08	6.36	2.18	9.12	6.40	2.22	9.63	7.01	2.24	10.32	7.34	2.26	11.01	7.58	2.29	11.35	8.40	2.30
	25.00	8.24	6.37	2.97	9.29	6.41	3.02	9.82	7.02	3.04	10.52	7.34	3.08	11.22	7.59	3.11	11.57	8.41	3.13
	30.56	7.88	6.21	3.30	8.89	6.24	3.36	9.39	6.84	3.39	10.06	7.16	3.42	10.73	7.39	3.46	11.07	8.19	3.48
	35.00	7.94	6.23	4.22	8.95	6.27	4.30	9.46	6.87	4.33	10.10	7.16	4.38	10.81	7.42	4.43	11.15	8.23	4.46
	40.00	6.18	5.46	3.34	6.98	5.49	3.40	7.37	6.02	3.42	7.89	6.29	3.46	8.42	6.50	3.50	8.69	7.21	3.52
	46.11	4.16	4.57	2.49	4.69	4.60	2.53	4.96	5.04	2.56	5.31	5.27	2.58	5.67	5.45	2.61	5.85	6.04	2.63

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	30.36	3.34	29.38	3.44	28.39	3.54	27.41	3.64	26.81	3.70
	23	19	34.61	3.50	33.49	3.61	32.36	3.71	31.24	3.81	30.56	3.87
	32	28	40.70	3.94	39.38	4.05	38.06	4.17	36.74	4.28	35.94	4.35
	41	37	41.59	3.94	40.24	4.05	38.89	4.17	37.54	4.28	36.73	4.35
	47	43	43.84	4.06	42.42	4.18	41.00	4.30	39.57	4.42	38.72	4.49
	50	47	46.18	4.01	44.69	4.13	43.19	4.24	41.69	4.36	40.79	4.43
	59	50	43.80	3.37	42.38	3.47	40.95	3.57	39.53	3.67	38.68	3.73
	68	59	42.15	2.88	40.79	2.96	39.42	3.05	38.05	3.13	37.23	3.18
75	65	45.81	2.87	44.33	2.96	42.84	3.04	41.35	3.12	40.46	3.17	

TC : Total capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.89	3.34	8.60	3.44	8.32	3.54	8.03	3.64	7.85	3.70
	-5.00	-7.22	10.14	3.50	9.81	3.61	9.48	3.71	9.15	3.81	8.95	3.87
	0.00	-2.22	11.92	3.94	11.54	4.05	11.15	4.17	10.76	4.28	10.53	4.35
	5.00	2.78	12.18	3.94	11.79	4.05	11.39	4.17	10.99	4.28	10.76	4.35
	8.33	6.11	12.84	4.06	12.43	4.18	12.00	4.30	11.59	4.42	11.34	4.49
	10.00	8.33	13.53	4.01	13.09	4.13	12.65	4.24	12.21	4.36	11.95	4.43
	15.00	10.00	12.83	3.37	12.41	3.47	12.00	3.57	11.58	3.67	11.33	3.73
	20.00	15.00	12.35	2.88	11.95	2.96	11.55	3.05	11.14	3.13	10.90	3.18
	23.89	18.33	13.42	2.87	12.98	2.96	12.55	3.04	12.11	3.12	11.85	3.17

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

■ INDOOR UNIT : 12000BTU + 12000BTU + 12000BTU

● COOLING

		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
	32	27.40	22.22	1.84	30.90	22.36	1.87	32.64	24.49	1.89	34.97	25.63	1.91	37.31	26.47	1.93	38.47	29.34	1.94
	41	25.84	21.39	2.23	29.15	21.52	2.27	30.79	23.58	2.29	32.98	24.67	2.31	35.19	25.48	2.34	36.29	28.24	2.35
	50	26.66	21.71	2.06	30.07	21.84	2.09	31.76	23.93	2.11	34.03	25.03	2.13	36.31	25.86	2.16	37.44	28.66	2.17
	59	29.65	23.10	1.95	33.44	23.24	1.98	35.32	25.46	2.00	37.84	26.64	2.02	40.37	27.51	2.04	41.63	30.49	2.05
	67	28.44	22.55	2.18	32.08	22.69	2.22	33.89	24.86	2.24	36.31	26.01	2.26	38.74	26.86	2.29	39.95	29.77	2.30
	77	28.94	22.78	2.97	32.64	22.91	3.03	34.48	25.11	3.05	36.94	26.27	3.09	39.41	27.13	3.12	40.64	30.07	3.14
	87	27.76	22.24	3.30	31.31	22.38	3.36	33.07	24.52	3.39	35.43	25.65	3.42	37.80	26.50	3.46	38.98	29.37	3.48
	95	27.97	22.38	4.22	31.55	22.52	4.30	33.33	24.67	4.33	35.70	25.81	4.38	38.09	26.66	4.43	39.28	29.54	4.45
	104	21.80	19.64	3.33	24.59	19.76	3.39	25.98	21.65	3.42	27.83	22.65	3.46	29.69	23.39	3.49	30.62	25.93	3.51
	115	14.58	15.32	2.49	16.44	15.41	2.53	17.37	16.89	2.55	18.61	17.67	2.58	19.86	18.25	2.61	20.48	20.22	2.62

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	8.02	6.51	1.84	9.05	6.55	1.87	9.56	7.17	1.89	10.24	7.51	1.91	10.93	7.75	1.93	11.27	8.59	1.94
	5.00	7.57	6.27	2.23	8.54	6.30	2.27	9.02	6.91	2.29	9.66	7.23	2.31	10.31	7.46	2.34	10.63	8.27	2.35
	10.00	7.81	6.36	2.06	8.81	6.40	2.09	9.30	7.01	2.11	9.97	7.33	2.13	10.63	7.57	2.16	10.97	8.39	2.17
	15.00	8.68	6.76	1.95	9.79	6.81	1.98	10.35	7.46	2.00	11.08	7.80	2.02	11.83	8.06	2.04	12.19	8.93	2.05
	19.44	8.33	6.61	2.18	9.40	6.65	2.22	9.93	7.28	2.24	10.63	7.62	2.26	11.35	7.87	2.29	11.70	8.72	2.30
	25.00	8.48	6.67	2.97	9.56	6.71	3.03	10.10	7.35	3.05	10.82	7.69	3.09	11.54	7.95	3.12	11.90	8.81	3.14
	30.56	8.13	6.52	3.30	9.17	6.56	3.36	9.69	7.18	3.39	10.38	7.51	3.42	11.07	7.76	3.46	11.42	8.60	3.48
	35.00	8.19	6.55	4.22	9.24	6.59	4.30	9.76	7.23	4.33	10.50	7.59	4.38	11.16	7.81	4.43	11.51	8.65	4.45
	40.00	6.39	5.75	3.33	7.20	5.79	3.39	7.61	6.34	3.42	8.15	6.63	3.46	8.70	6.85	3.49	8.97	7.59	3.51
	46.11	4.27	4.49	2.49	4.82	4.51	2.53	5.09	4.95	2.55	5.45	5.17	2.58	5.82	5.34	2.61	6.00	5.92	2.62

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	30.66	3.36	29.67	3.46	28.67	3.56	27.67	3.66	27.07	3.72
	23	19	34.97	3.52	33.83	3.62	32.70	3.73	31.56	3.83	30.88	3.89
	32	28	41.35	3.71	40.01	3.82	38.67	3.93	37.32	4.03	36.52	4.10
	41	37	43.96	3.90	42.54	4.02	41.11	4.13	39.68	4.25	38.82	4.32
	47	43	45.56	4.06	44.08	4.18	42.60	4.30	41.12	4.42	40.23	4.49
	50	47	47.59	4.05	46.05	4.17	44.51	4.28	42.96	4.40	42.03	4.47
	59	50	45.13	3.41	43.67	3.51	42.20	3.61	40.74	3.71	39.85	3.77
	68	59	43.18	2.87	41.78	2.95	40.38	3.04	38.97	3.12	38.13	3.17
75	65	46.79	2.86	45.28	2.94	43.76	3.03	42.24	3.11	41.32	3.16	

TC : Total capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.98	3.36	8.69	3.46	8.40	3.56	8.11	3.66	7.93	3.72
	-5.00	-7.22	10.24	3.52	9.91	3.62	9.58	3.73	9.24	3.83	9.04	3.89
	0.00	-2.22	12.11	3.71	11.72	3.82	11.33	3.93	10.93	4.03	10.70	4.10
	5.00	2.78	12.88	3.90	12.46	4.02	12.04	4.13	11.62	4.25	11.37	4.32
	8.33	6.11	13.34	4.06	12.91	4.18	12.50	4.30	12.04	4.42	11.78	4.49
	10.00	8.33	13.94	4.05	13.49	4.17	13.04	4.28	12.58	4.40	12.31	4.47
	15.00	10.00	13.22	3.41	12.79	3.51	12.36	3.61	11.93	3.71	11.67	3.77
	20.00	15.00	12.65	2.87	12.24	2.95	11.83	3.04	11.42	3.12	11.17	3.17
23.89	18.33	13.71	2.86	13.26	2.94	12.82	3.03	12.37	3.11	12.10	3.16	

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

■ INDOOR UNIT : 18000BTU + 9000BTU + 9000BTU

● COOLING

		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
	32	27.62	22.40	2.02	31.15	22.54	2.05	32.91	24.69	2.07	35.26	25.84	2.09	37.61	26.68	2.11	38.79	29.58	2.13
	41	26.05	21.57	2.23	29.38	21.70	2.27	31.04	23.77	2.29	33.25	24.87	2.31	35.48	25.69	2.34	36.59	28.47	2.35
	50	26.88	21.88	2.06	30.31	22.02	2.09	32.02	24.12	2.11	34.31	25.24	2.13	36.60	26.07	2.16	37.74	28.89	2.17
	59	29.89	23.28	1.95	33.71	23.43	1.98	35.61	25.67	2.00	38.15	26.85	2.02	40.70	27.73	2.04	41.97	30.74	2.05
	67	28.68	22.74	2.18	32.34	22.87	2.22	34.17	25.06	2.24	36.60	26.22	2.26	39.05	27.08	2.29	40.27	30.02	2.30
	77	29.18	22.96	2.97	32.91	23.10	3.03	34.76	25.31	3.05	37.24	26.48	3.09	39.73	27.35	3.12	40.97	30.31	3.14
	87	27.98	22.43	3.30	31.56	22.56	3.36	33.34	24.72	3.39	35.72	25.86	3.42	38.11	26.71	3.46	39.30	29.61	3.48
	95	28.20	22.56	4.22	31.81	22.70	4.30	33.60	24.87	4.33	36.00	26.02	4.38	38.40	26.87	4.43	39.60	29.79	4.45
	104	21.98	19.80	3.33	24.79	19.92	3.39	26.19	21.83	3.42	28.06	22.84	3.46	29.94	23.58	3.49	30.87	26.14	3.51
	115	14.70	15.45	2.49	16.58	15.54	2.53	17.51	17.03	2.55	18.76	17.81	2.58	20.02	18.40	2.61	20.64	20.39	2.62

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	8.09	6.56	2.02	9.12	6.60	2.05	9.64	7.23	2.07	10.33	7.57	2.09	11.02	7.82	2.11	11.36	8.66	2.13
	5.00	7.63	6.32	2.23	8.61	6.36	2.27	9.09	6.96	2.29	9.74	7.29	2.31	10.39	7.52	2.34	10.72	8.34	2.35
	10.00	7.87	6.41	2.06	8.88	6.45	2.09	9.38	7.07	2.11	10.05	7.39	2.13	10.72	7.63	2.16	11.06	8.46	2.17
	15.00	8.75	6.82	1.95	9.87	6.86	1.98	10.43	7.52	2.00	11.17	7.87	2.02	11.92	8.12	2.04	12.29	9.00	2.05
	19.44	8.40	6.66	2.18	9.47	6.70	2.22	10.01	7.34	2.24	10.72	7.68	2.26	11.44	7.93	2.29	11.80	8.79	2.30
	25.00	8.55	6.73	2.97	9.64	6.77	3.03	10.18	7.41	3.05	10.91	7.76	3.09	11.64	8.01	3.12	12.00	8.88	3.14
	30.56	8.20	6.57	3.30	9.24	6.61	3.36	9.77	7.24	3.39	10.46	7.58	3.42	11.16	7.82	3.46	11.51	8.67	3.48
	35.00	8.26	6.61	4.22	9.32	6.65	4.30	9.84	7.28	4.33	10.50	7.59	4.38	11.25	7.87	4.43	11.60	8.72	4.45
	40.00	6.44	5.80	3.33	7.26	5.83	3.39	7.67	6.39	3.42	8.22	6.69	3.46	8.77	6.91	3.49	9.04	7.66	3.51
	46.11	4.31	4.52	2.49	4.86	4.55	2.53	5.13	4.99	2.55	5.50	5.22	2.58	5.86	5.39	2.61	6.05	5.97	2.62

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	30.22	3.20	29.24	3.29	28.26	3.39	27.28	3.48	26.69	3.54
	23	19	34.14	3.35	33.04	3.45	31.93	3.55	30.82	3.65	30.15	3.71
	32	28	39.83	3.54	38.54	3.65	37.24	3.75	35.95	3.85	35.17	3.92
	41	37	42.93	3.95	41.54	4.06	40.15	4.18	38.75	4.30	37.91	4.37
	47	43	44.91	4.06	43.46	4.18	42.00	4.30	40.54	4.42	39.66	4.49
	50	47	47.36	4.14	45.82	4.26	44.28	4.38	42.75	4.50	41.82	4.57
	59	50	44.50	3.44	43.06	3.55	41.61	3.65	40.16	3.75	39.30	3.81
	68	59	42.56	2.96	41.18	3.04	39.80	3.13	38.42	3.22	37.59	3.27
75	65	46.11	2.97	44.61	3.05	43.11	3.14	41.62	3.23	40.72	3.28	

TC : Total capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.85	3.20	8.57	3.29	8.28	3.39	7.99	3.48	7.82	3.54
	-5.00	-7.22	10.00	3.35	9.68	3.45	9.35	3.55	9.03	3.65	8.83	3.71
	0.00	-2.22	11.67	3.54	11.29	3.65	10.91	3.75	10.53	3.85	10.30	3.92
	5.00	2.78	12.57	3.95	12.17	4.06	11.76	4.18	11.35	4.30	11.10	4.37
	8.33	6.11	13.15	4.06	12.73	4.18	12.30	4.30	11.87	4.42	11.62	4.49
	10.00	8.33	13.87	4.14	13.42	4.26	12.97	4.38	12.52	4.50	12.25	4.57
	15.00	10.00	13.03	3.44	12.61	3.55	12.19	3.65	11.76	3.75	11.51	3.81
	20.00	15.00	12.47	2.96	12.06	3.04	11.66	3.13	11.25	3.22	11.01	3.27
23.89	18.33	13.50	2.97	13.07	3.05	12.63	3.14	12.19	3.23	11.93	3.28	

TC : Total capacity (kW)

PI : Power Input (kW)

This table is created using the maximum capacity.

■ INDOOR UNIT : 9000BTU + 9000BTU + 9000BTU + 9000BTU

● COOLING

		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
	32	27.62	22.40	2.02	31.15	22.54	2.05	32.91	24.69	2.07	35.26	25.84	2.09	37.61	26.68	2.11	38.79	29.58	2.13
	41	26.05	21.57	2.23	29.38	21.70	2.27	31.04	23.77	2.29	33.25	24.87	2.31	35.48	25.69	2.34	36.59	28.47	2.35
	50	26.88	21.88	2.06	30.31	22.02	2.09	32.02	24.12	2.11	34.31	25.24	2.13	36.60	26.07	2.16	37.74	28.89	2.17
	59	29.89	23.28	1.95	33.71	23.43	1.98	35.61	25.67	2.00	38.15	26.85	2.02	40.70	27.73	2.04	41.97	30.74	2.05
	67	28.68	22.74	2.18	32.34	22.87	2.22	34.17	25.06	2.24	36.60	26.22	2.26	39.05	27.08	2.29	40.27	30.02	2.30
	77	29.18	22.96	2.97	32.91	23.10	3.03	34.76	25.31	3.05	37.24	26.48	3.09	39.73	27.35	3.12	40.97	30.31	3.14
	87	27.98	22.43	3.30	31.56	22.56	3.36	33.34	24.72	3.39	35.72	25.86	3.42	38.11	26.71	3.46	39.30	29.61	3.48
	95	28.20	22.56	4.22	31.81	22.70	4.30	33.60	24.87	4.33	36.00	26.02	4.38	38.40	26.87	4.43	39.60	29.79	4.45
	104	21.98	19.80	3.33	24.79	19.92	3.39	26.19	21.83	3.42	28.06	22.84	3.46	29.94	23.58	3.49	30.87	26.14	3.51
	115	14.70	15.45	2.49	16.58	15.54	2.53	17.51	17.03	2.55	18.76	17.81	2.58	20.02	18.40	2.61	20.64	20.39	2.62

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
Outdoor temperature	(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	0.00	8.09	6.56	2.02	9.12	6.60	2.05	9.64	7.23	2.07	10.33	7.57	2.09	11.02	7.82	2.11	11.36	8.66	2.13
	5.00	7.63	6.32	2.23	8.61	6.36	2.27	9.09	6.96	2.29	9.74	7.29	2.31	10.39	7.52	2.34	10.72	8.34	2.35
	10.00	7.87	6.41	2.06	8.88	6.45	2.09	9.38	7.07	2.11	10.05	7.39	2.13	10.72	7.63	2.16	11.06	8.46	2.17
	15.00	8.75	6.82	1.95	9.87	6.86	1.98	10.43	7.52	2.00	11.17	7.87	2.02	11.92	8.12	2.04	12.29	9.00	2.05
	19.44	8.40	6.66	2.18	9.47	6.70	2.22	10.01	7.34	2.24	10.72	7.68	2.26	11.44	7.93	2.29	11.80	8.79	2.30
	25.00	8.55	6.73	2.97	9.64	6.77	3.03	10.18	7.41	3.05	10.91	7.76	3.09	11.64	8.01	3.12	12.00	8.88	3.14
	30.56	8.20	6.57	3.30	9.24	6.61	3.36	9.77	7.24	3.39	10.46	7.58	3.42	11.16	7.82	3.46	11.51	8.67	3.48
	35.00	8.26	6.61	4.22	9.32	6.65	4.30	9.84	7.28	4.33	10.50	7.59	4.38	11.25	7.87	4.43	11.60	8.72	4.45
	40.00	6.44	5.80	3.33	7.26	5.83	3.39	7.67	6.39	3.42	8.22	6.69	3.46	8.77	6.91	3.49	9.04	7.66	3.51
	46.11	4.31	4.52	2.49	4.86	4.55	2.53	5.13	4.99	2.55	5.50	5.22	2.58	5.86	5.39	2.61	6.05	5.97	2.62

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	30.62	2.91	29.62	2.99	28.63	3.08	27.63	3.16	27.04	3.21
	23	19	34.39	3.04	33.28	3.13	32.16	3.22	31.05	3.31	30.37	3.36
	32	28	39.80	3.21	38.51	3.30	37.22	3.39	35.93	3.49	35.15	3.55
	41	37	41.67	3.38	40.32	3.48	38.97	3.58	37.61	3.68	36.80	3.74
	47	43	44.91	3.64	43.46	3.74	42.00	3.85	40.54	3.96	39.66	4.02
	50	47	47.59	3.72	46.05	3.83	44.50	3.94	42.96	4.05	42.03	4.11
	59	50	46.66	3.41	45.15	3.51	43.63	3.61	42.12	3.71	41.21	3.77
	68	59	36.10	2.54	34.93	2.62	33.76	2.69	32.59	2.77	31.88	2.81
75	65	46.32	2.83	44.82	2.91	43.31	2.99	41.81	3.08	40.90	3.12	

TC : Total capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.97	2.91	8.68	2.99	8.39	3.08	8.09	3.16	7.92	3.21
	-5.00	-7.22	10.07	3.04	9.75	3.13	9.42	3.22	9.09	3.31	8.90	3.36
	0.00	-2.22	11.66	3.21	11.28	3.30	10.90	3.39	10.52	3.49	10.30	3.55
	5.00	2.78	12.20	3.38	11.81	3.48	11.41	3.58	11.02	3.68	10.78	3.74
	8.33	6.11	13.15	3.64	12.73	3.74	12.30	3.85	11.87	3.96	11.62	4.02
	10.00	8.33	13.94	3.72	13.49	3.83	13.04	3.94	12.58	4.05	12.31	4.11
	15.00	10.00	13.67	3.41	13.22	3.51	12.78	3.61	12.34	3.71	12.07	3.77
	20.00	15.00	10.57	2.54	10.23	2.62	9.89	2.69	9.54	2.77	9.34	2.81
	23.89	18.33	13.57	2.83	13.13	2.91	12.69	2.99	12.25	3.08	11.98	3.12

TC : Total capacity (kW)

PI : Power Input (kW)

6-3. 2 ROOMS COMBINATION

This table is created using the maximum capacity.

■ INDOOR UNIT : 18000BTU + 18000BTU (WITH OPTIONAL PARTS UTP-MU36A2)

● COOLING

		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		
		(°FDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC
Outdoor temperature	50	24.95	21.52	1.87	28.14	21.65	1.91	29.73	23.72	1.92	31.85	24.82	1.95	33.98	25.63	1.97	35.04	28.41	1.98
	59	26.67	22.72	1.79	30.08	22.86	1.82	31.77	25.04	1.84	34.04	26.20	1.86	36.32	27.06	1.88	37.45	29.99	1.89
	67	25.61	22.02	2.04	28.88	22.16	2.07	30.51	24.28	2.09	32.69	25.40	2.11	34.88	26.23	2.14	35.97	29.08	2.15
	77	26.13	22.35	2.83	29.47	22.49	2.88	31.13	24.64	2.91	33.35	25.78	2.94	35.58	26.63	2.97	36.69	29.51	2.99
	87	24.83	21.35	3.20	28.00	21.48	3.25	29.58	23.53	3.28	31.69	24.62	3.32	33.81	25.43	3.35	34.87	28.18	3.37
	95	25.07	21.75	4.22	28.28	21.88	4.30	29.87	23.97	4.33	32.00	25.08	4.38	34.14	25.90	4.43	35.21	28.71	4.45
	104	19.97	18.85	3.26	22.52	18.97	3.32	23.79	20.78	3.35	25.49	21.74	3.39	27.20	22.45	3.42	28.04	24.89	3.44
	115	13.83	15.74	2.36	15.60	15.83	2.40	16.48	17.35	2.42	17.66	18.15	2.44	18.84	18.75	2.47	19.43	20.78	2.49

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

		Indoor temperature																	
		17.8°CDB			21.1°CDB			23.9°CDB			26.7°CDB			29.4°CDB			32.2°CDB		
		12.2°CWB			15.6°CWB			17.2°CWB			19.4°CWB			21.7°CWB			22.8°CWB		
		(°CDB)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC
Outdoor temperature	10.00	7.31	6.31	1.87	8.25	6.35	1.91	8.71	6.95	1.92	9.34	7.27	1.95	9.96	7.51	1.97	10.27	8.33	1.98
	15.00	7.82	6.66	1.79	8.82	6.70	1.82	9.31	7.34	1.84	9.98	7.68	1.86	10.65	7.93	1.88	10.98	8.79	1.89
	19.44	7.51	6.46	2.04	8.47	6.50	2.07	8.94	7.12	2.09	9.58	7.45	2.11	10.22	7.69	2.14	10.54	8.52	2.15
	25.00	7.66	6.55	2.83	8.64	6.59	2.88	9.12	7.22	2.91	9.77	7.56	2.94	10.43	7.80	2.97	10.75	8.65	2.99
	30.56	7.28	6.26	3.20	8.21	6.29	3.25	8.67	6.90	3.28	9.29	7.22	3.32	9.91	7.45	3.35	10.22	8.26	3.37
	35.00	7.36	6.37	4.22	8.31	6.41	4.30	8.77	7.03	4.33	9.40	7.35	4.38	10.03	7.59	4.43	10.34	8.41	4.45
	40.00	5.85	5.53	3.26	6.60	5.56	3.32	6.97	6.09	3.35	7.47	6.37	3.39	7.97	6.58	3.42	8.22	7.29	3.44
	46.11	4.06	4.61	2.36	4.57	4.64	2.40	4.83	5.08	2.42	5.18	5.32	2.44	5.52	5.49	2.47	5.70	6.09	2.49

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

● HEATING

			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	28.62	3.33	27.69	3.42	26.76	3.52	25.83	3.62	25.27	3.68
	23	19	31.18	3.55	30.17	3.65	29.16	3.76	28.15	3.86	27.54	3.92
	32	28	35.63	3.83	34.48	3.94	33.32	4.05	32.16	4.17	31.47	4.23
	41	37	39.75	4.06	38.46	4.18	37.17	4.30	35.88	4.42	35.10	4.49
	47	43	42.78	4.06	41.39	4.18	40.00	4.30	38.61	4.42	37.78	4.49
	50	47	45.22	4.10	43.76	4.22	42.29	4.34	40.82	4.46	39.94	4.53
	59	50	42.20	3.39	40.83	3.49	39.46	3.59	38.09	3.69	37.27	3.75
	68	59	40.98	2.96	39.65	3.04	38.32	3.13	36.99	3.22	36.19	3.27
75	65	44.19	2.97	42.76	3.06	41.32	3.15	39.88	3.24	39.02	3.29	

TC : Total capacity (kBTU)

SHC : Sensible Heat capacity (kBTU)

PI : Power Input (kW)

			Indoor temperature									
			15.6°CDB		18.3°CDB		21.1°CDB		23.9°CDB		25.6°CDB	
Outdoor temperature	(°CDB)	(°CWB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-10.00	-11.11	8.39	3.33	8.12	3.42	7.84	3.52	7.57	3.62	7.41	3.68
	-5.00	-7.22	9.14	3.55	8.84	3.65	8.55	3.76	8.25	3.86	8.07	3.92
	0.00	-2.22	10.44	3.83	10.10	3.94	9.76	4.05	9.43	4.17	9.22	4.23
	5.00	2.78	11.65	4.06	11.27	4.18	10.89	4.30	10.51	4.42	10.29	4.49
	8.33	6.11	12.51	4.06	12.11	4.18	11.70	4.30	11.29	4.42	11.05	4.49
	10.00	8.33	13.26	4.10	12.83	4.22	12.40	4.34	11.96	4.46	11.71	4.53
	15.00	10.00	12.37	3.39	11.97	3.49	11.57	3.59	11.16	3.69	10.92	3.75
	20.00	15.00	12.01	2.96	11.62	3.04	11.23	3.13	10.84	3.22	10.61	3.27
23.89	18.33	12.95	2.97	12.53	3.06	12.11	3.15	11.69	3.24	11.44	3.29	

TC : Total capacity (kW)

SHC : Sensible Heat capacity (kW)

PI : Power Input (kW)

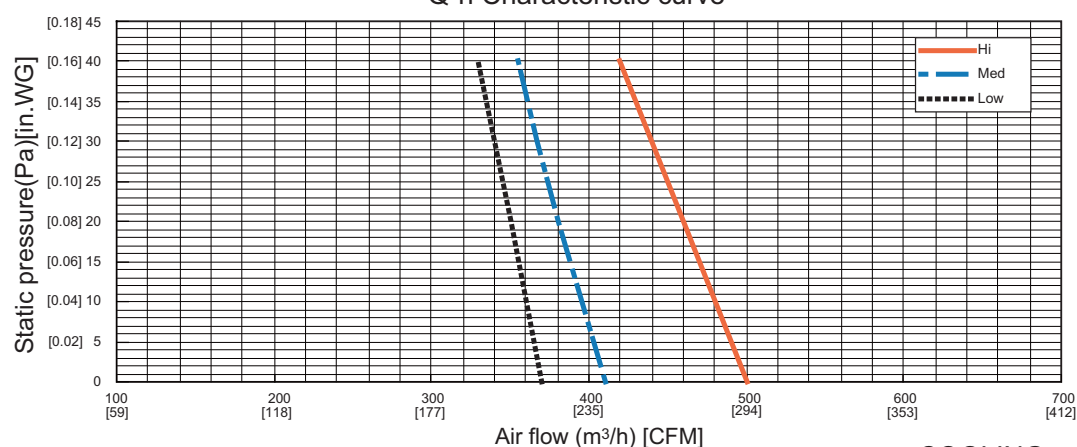
7. FAN PERFORMANCE

7-1. FAN PERFORMANCE AND CAPACITY

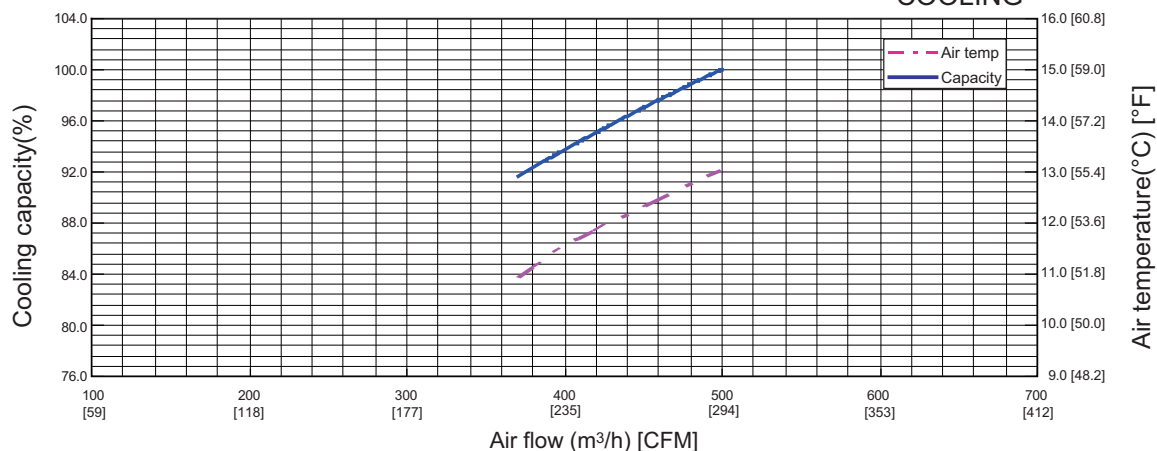
■ MODEL : ARU9R

			Static pressure (Pa) [in.WG]		
			0	20 [0.08]	40 [0.16]
Fan speed	Hi	m ³ /h	500	460	420
		l/s	139	128	117
		CFM	294	271	247
	Med	m ³ /h	410	380	355
		l/s	114	106	99
		CFM	241	224	209
	Low	m ³ /h	370	350	330
		l/s	103	97	92
		CFM	218	206	194

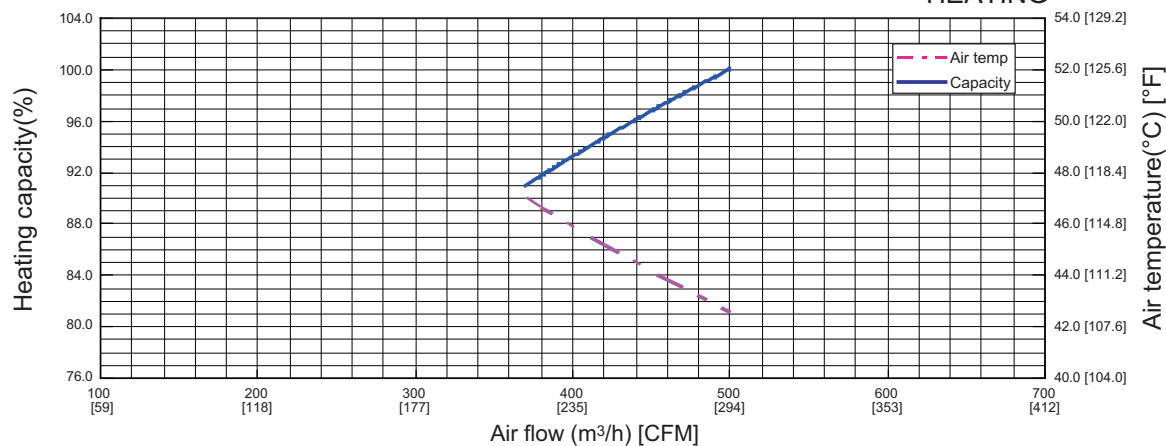
Q-h Characteristic curve



COOLING

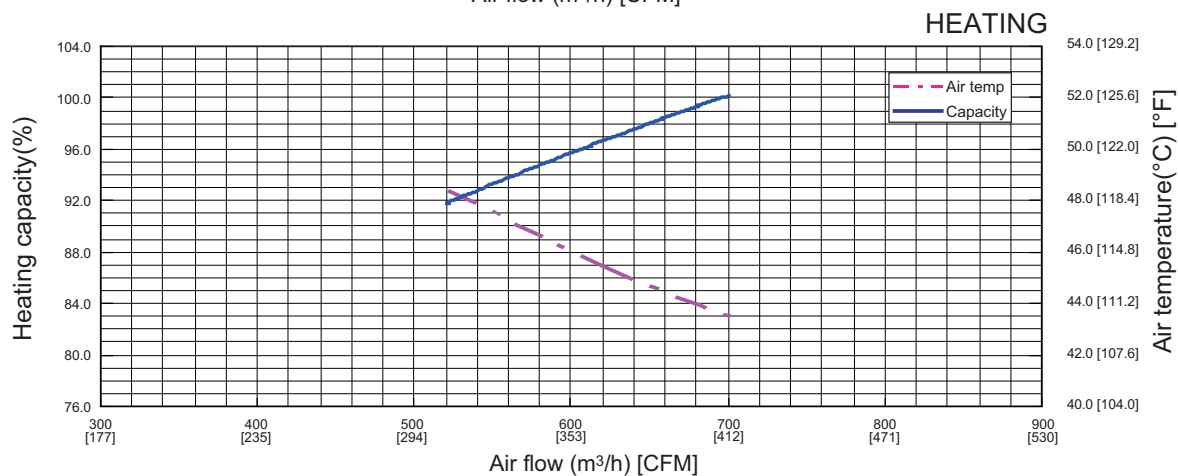
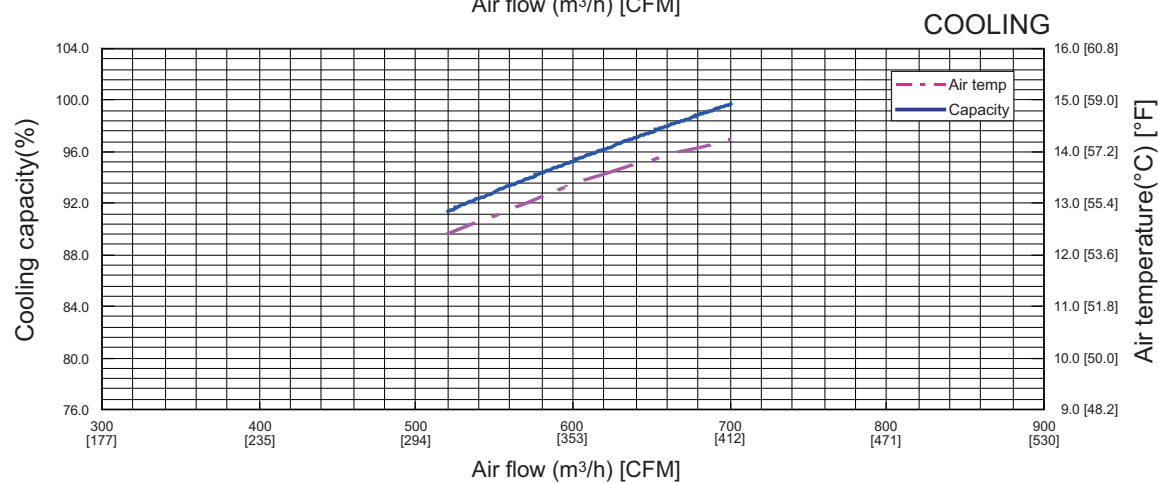
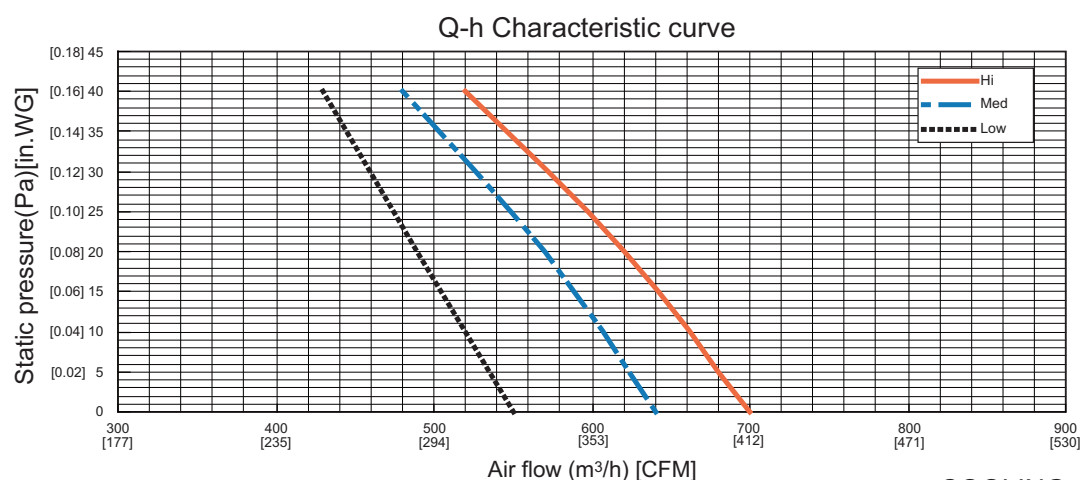


HEATING



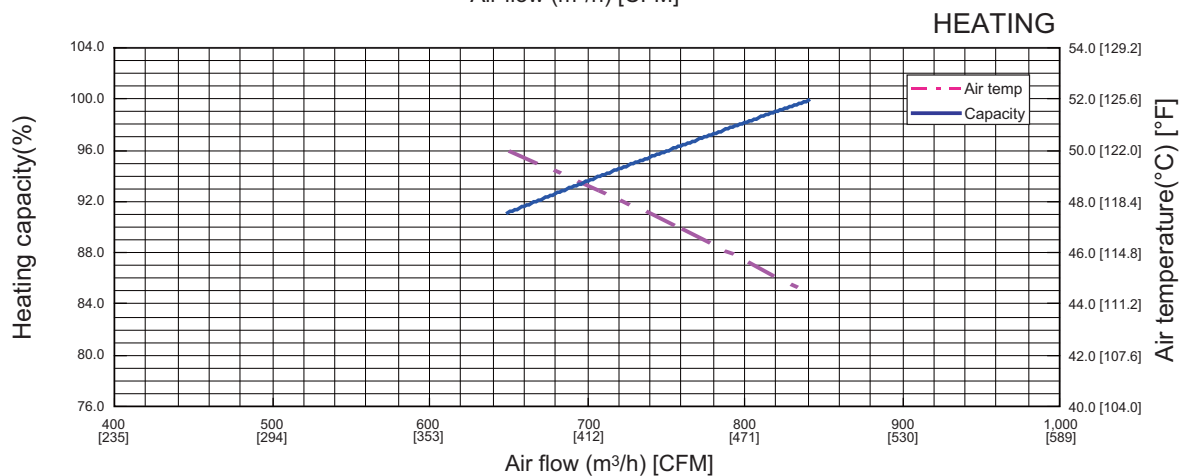
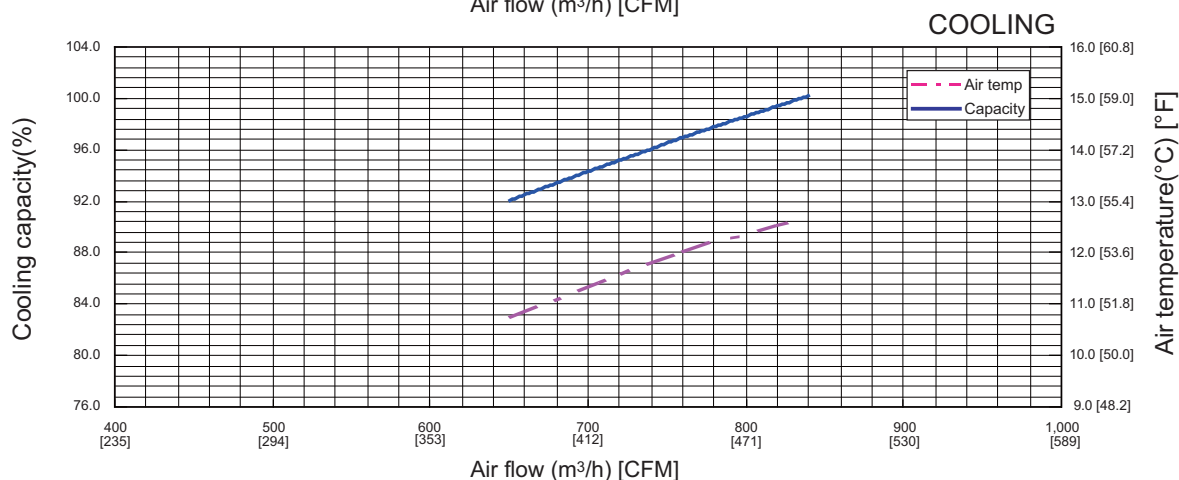
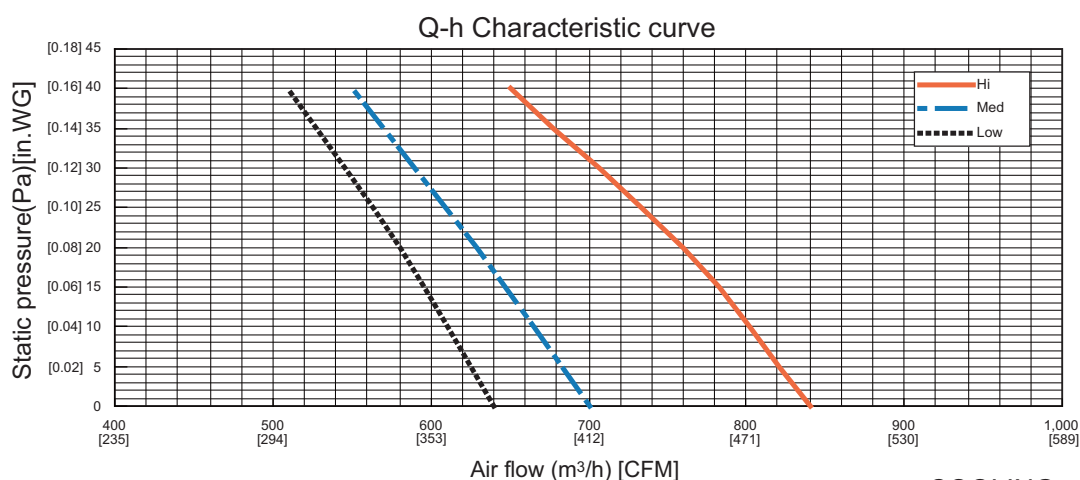
MODEL : ARU12R

			Static pressure (Pa) [in.WG]		
			0	20 [0.08]	40 [0.16]
Fan speed	Hi	m ³ /h	700	620	520
		l/s	194	172	144
		CFM	412	365	306
	Med	m ³ /h	640	570	480
		l/s	178	158	133
		CFM	377	335	283
	Low	m ³ /h	550	490	430
		l/s	153	136	119
		CFM	324	288	253



MODEL : ARU18R

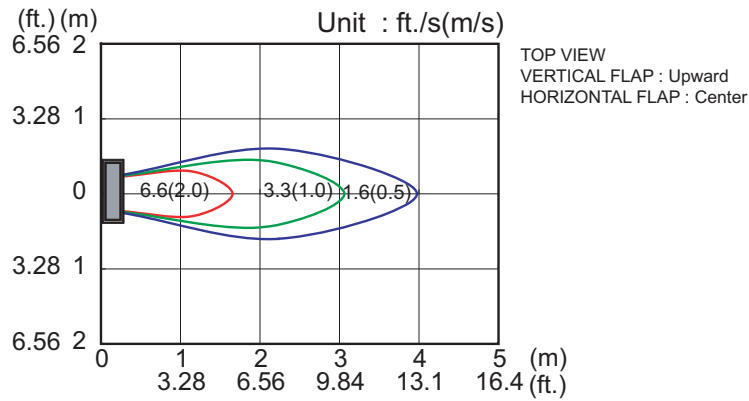
			Static pressure (Pa) [in.WG]		
			0	20 [0.08]	40 [0.16]
Fan speed	Hi	m ³ /h	840	760	650
		l/s	233	211	181
		CFM	494	447	383
	Med	m ³ /h	700	630	550
		l/s	194	175	153
		CFM	412	371	324
	Low	m ³ /h	640	580	510
		l/s	178	161	142
		CFM	377	341	300



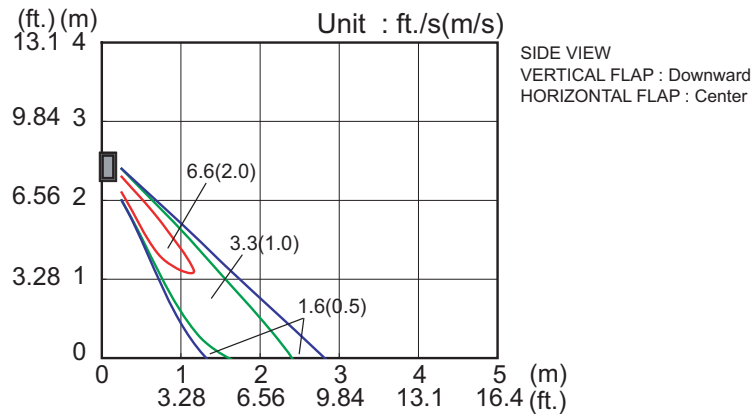
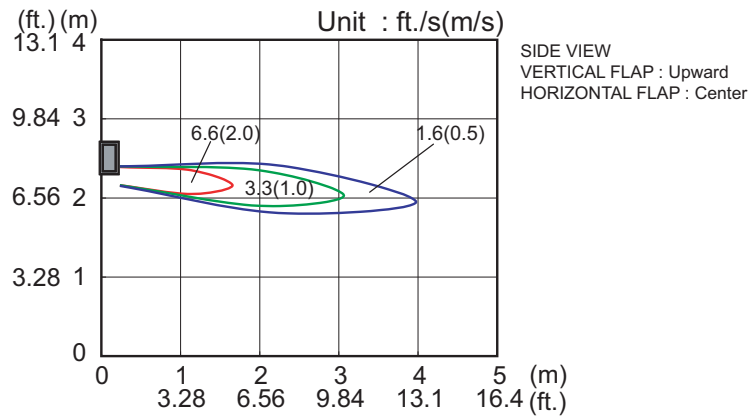
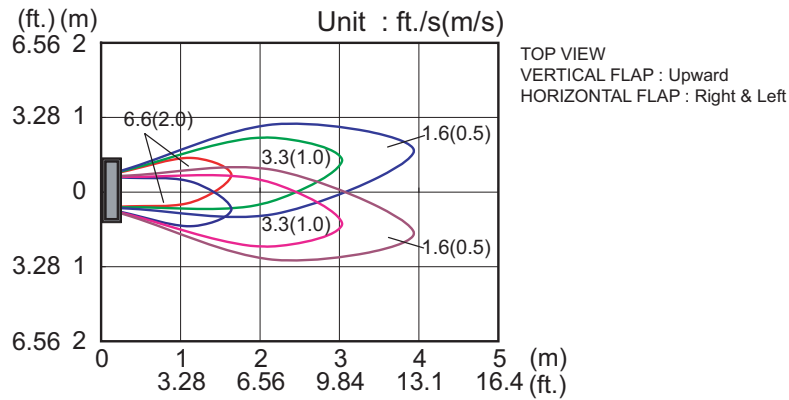
7-2. AIR VELOCITY DISTRIBUTION

7-2-1. WALL MOUNTED TYPE

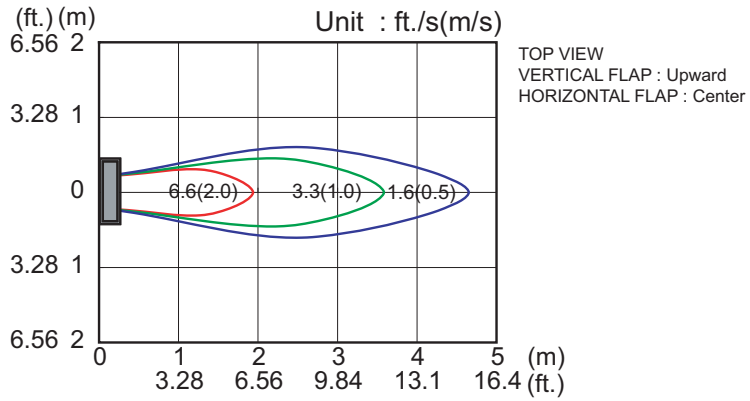
■ MODEL : ASU9R



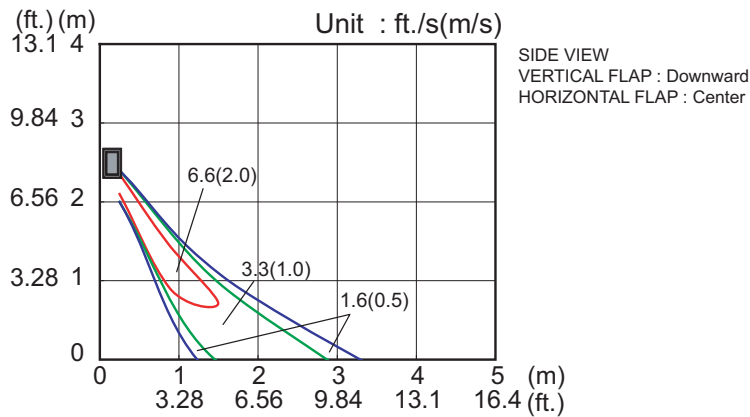
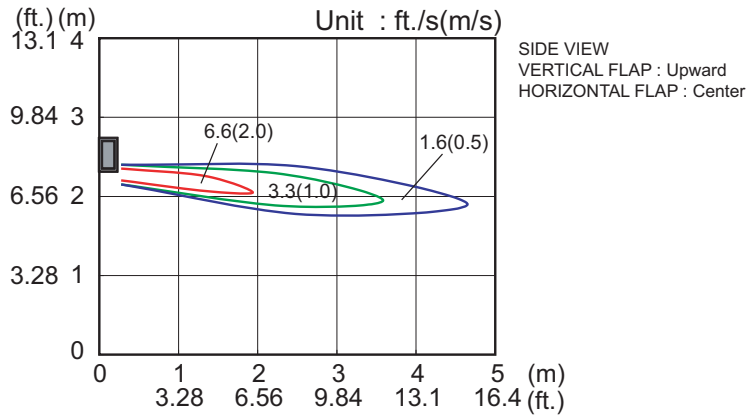
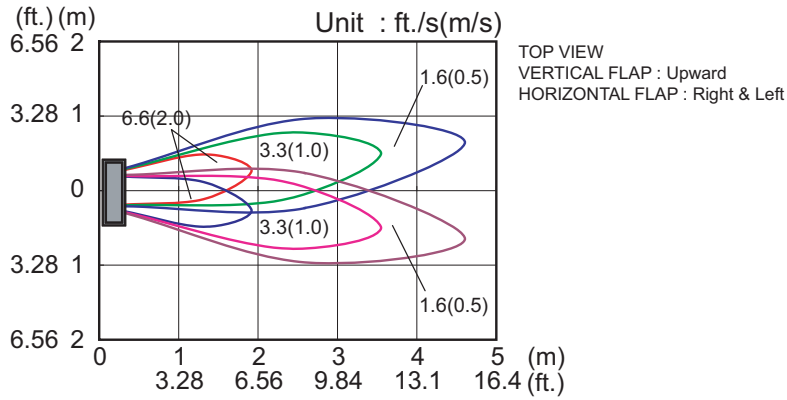
Note :
Condition
Fan speed : High
Operation mode :FAN



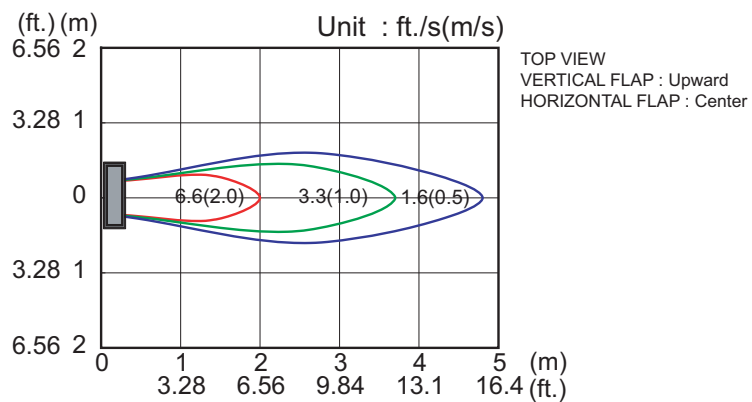
■ MODEL : ASU12R



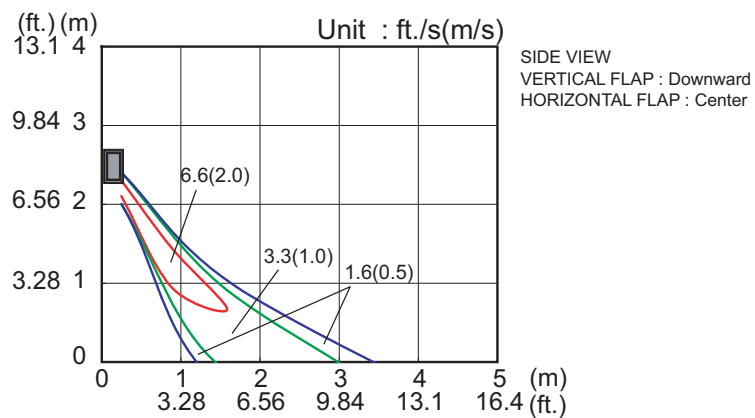
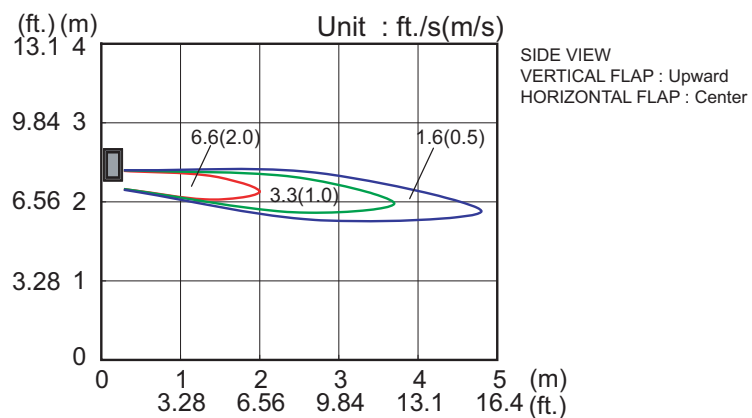
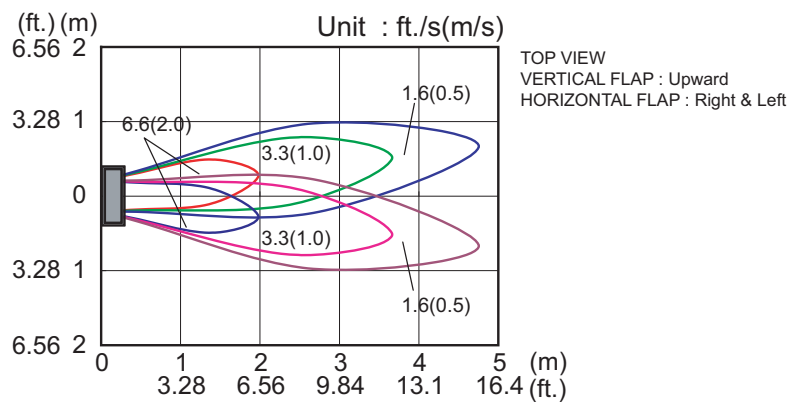
Note :
Condition
Fan speed : High
Operation mode :FAN



■ MODEL : ASU18R



Note :
Condition
Fan speed : High
Operation mode :FAN



7-2-2. CASSETTE TYPE

■ MODEL : AUU9R

● HEATING AIR VELOCITY DISTRIBUTION

Ceiling height

(ft.) (m)

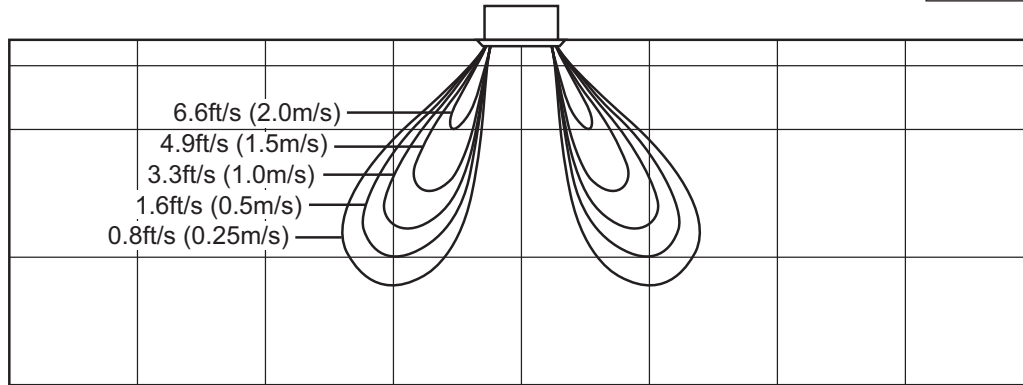
8.86 2.7

8.20 2.5

6.56 2

3.28 1

0



Note : Reference data

Condition

Fan speed : High

Vertical flap : Downward (4WAY)

Operation mode : Heating

● HEATING TEMPERATURE DISTRIBUTION

Ceiling height

(ft.) (m)

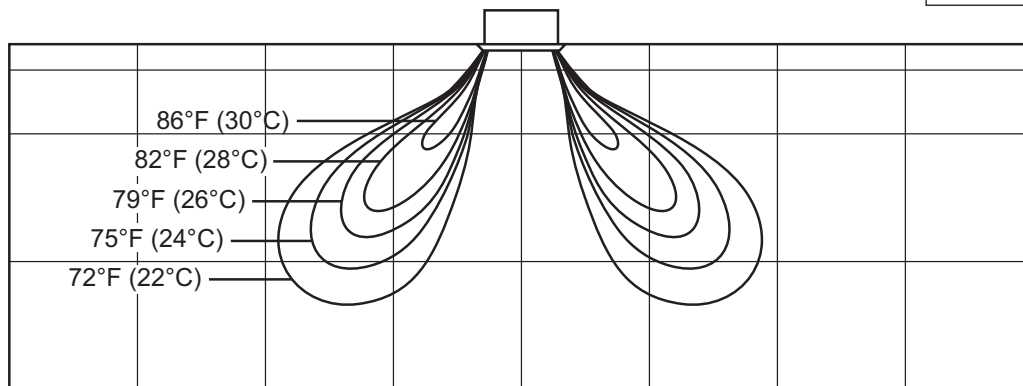
8.86 2.7

8.20 2.5

6.56 2

3.28 1

0



Note : Reference data

Condition

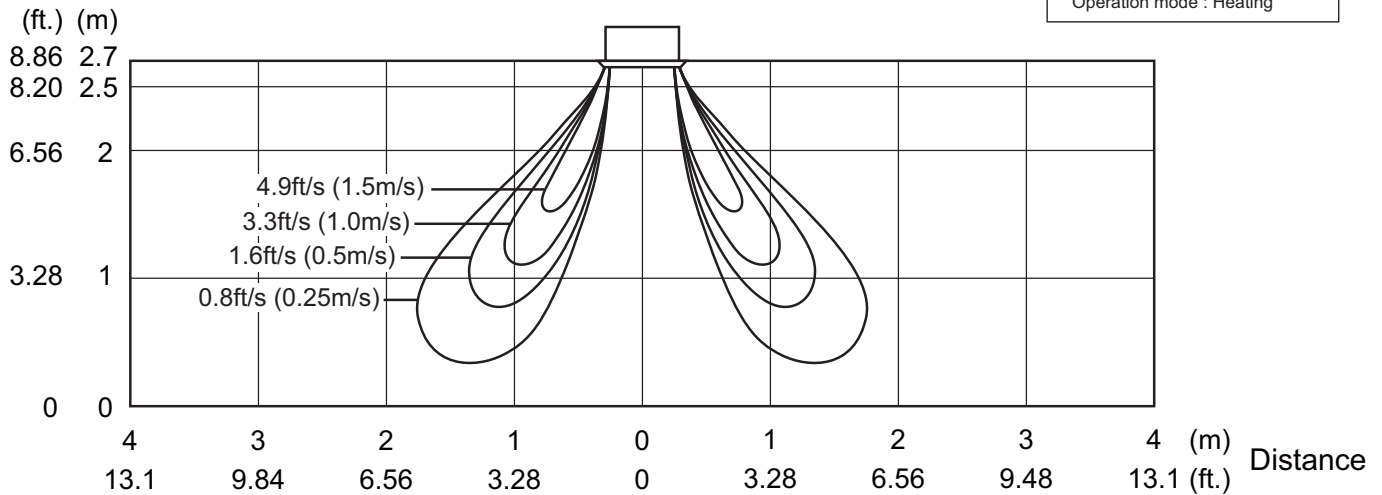
Fan speed : High

Vertical flap : Downward (4WAY)

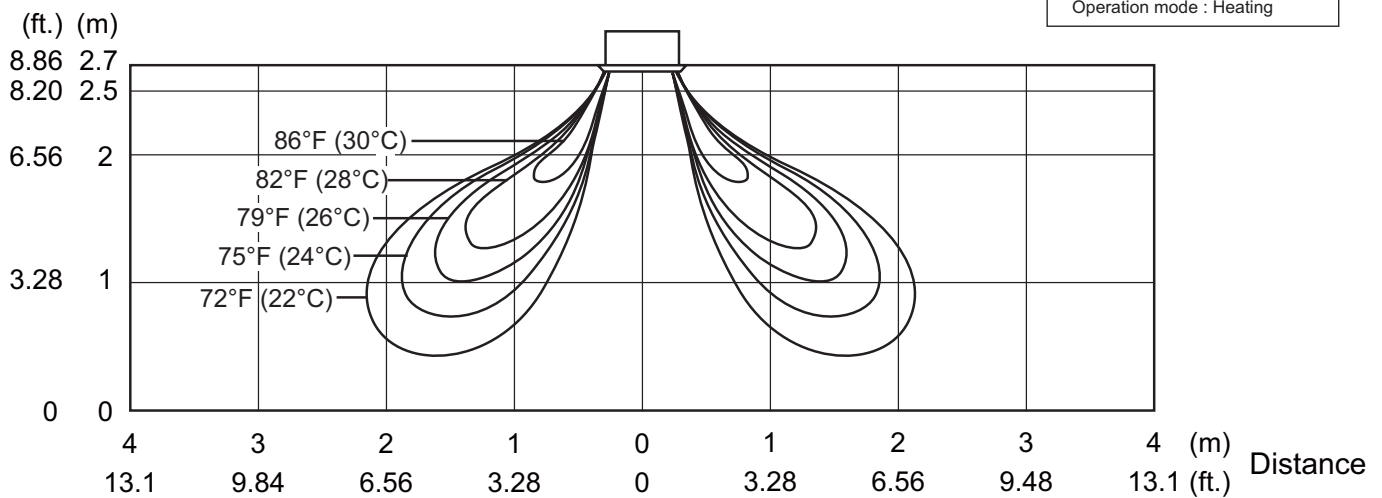
Operation mode : Heating

■ **MODEL : AUU12R**● **HEATING AIR VELOCITY DISTRIBUTION**

Ceiling height

● **HEATING TEMPERATURE DISTRIBUTION**

Ceiling height



■ **MODEL : AUU18R**● **HEATING AIR VELOCITY DISTRIBUTION**

Ceiling height

(ft.) (m)

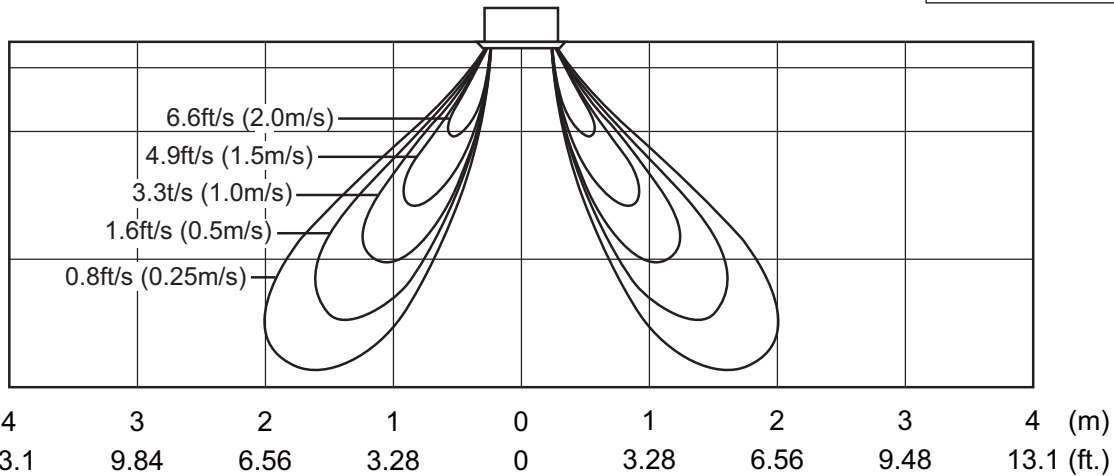
8.86 2.7

8.20 2.5

6.56 2

3.28 1

0



Note : Reference data

Condition

Fan speed : High

Vertical flap : Downward (4WAY)

Operation mode : Heating

● **HEATING TEMPERATURE DISTRIBUTION**

Ceiling height

(ft.) (m)

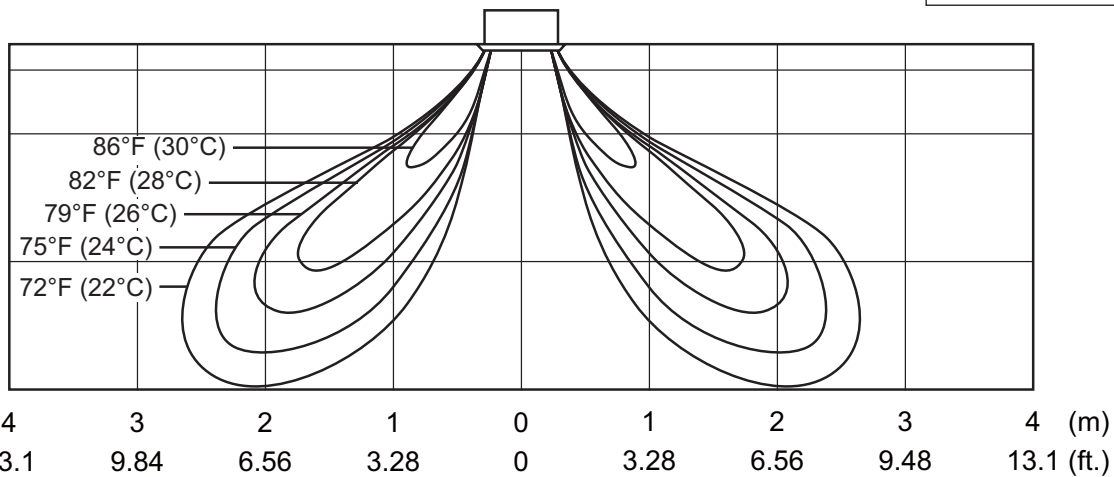
8.86 2.7

8.20 2.5

6.56 2

3.28 1

0



Note : Reference data

Condition

Fan speed : High

Vertical flap : Downward (4WAY)

Operation mode : Heating

7-3. AIR FLOW

7-3-1. WALL MOUNTED TYPE

■ MODEL : ASU9R, ASU12R, ASU18R

	Model	Fan speed	Number of rotations (r.p.m)	Air flow	
Indoor unit	ASU9R	HIGH	1200	m ³ /h	530
				l/s	147
				CFM	312
		MED	1070	m ³ /h	460
				l/s	128
				CFM	271
		LOW	900	m ³ /h	380
				l/s	106
				CFM	224
		QUIET	800	m ³ /h	330
				l/s	92
				CFM	194
	ASU12R	HIGH	1380	m ³ /h	620
				l/s	172
				CFM	365
		MED	1230	m ³ /h	540
				l/s	150
				CFM	318
		LOW	1050	m ³ /h	450
				l/s	125
				CFM	265
		QUIET	900	m ³ /h	380
				l/s	106
				CFM	224
	ASU18R	HIGH	1480	m ³ /h	640
				l/s	178
				CFM	377
		MED	1380	m ³ /h	590
				l/s	164
				CFM	347
		LOW	1200	m ³ /h	500
				l/s	139
				CFM	294
		QUIET	1060	m ³ /h	430
				l/s	119
				CFM	253

*The values in this table are values when the operation mode is "FAN".

7-3-2. CASSETTE TYPE

■ MODEL : AUU9R

● COOLING

Fan speed	Number of rotations (r.p.m)	Airflow	
HIGH	590	m ³ /h	540
		l/s	150
		CFM	318
MED	540	m ³ /h	490
		l/s	136
		CFM	288
LOW	490	m ³ /h	440
		l/s	122
		CFM	259
QUIET	440	m ³ /h	390
		l/s	108
		CFM	230

● HEATING

Fan speed	Number of rotations (r.p.m)	Airflow	
HIGH	590	m ³ /h	540
		l/s	150
		CFM	318
MED	540	m ³ /h	490
		l/s	136
		CFM	288
LOW	490	m ³ /h	440
		l/s	122
		CFM	259
QUIET	440	m ³ /h	390
		l/s	108
		CFM	230

■ MODEL : AUU12R

● COOLING

Fan speed	Number of rotations (r.p.m)	Airflow	
HIGH	660	m ³ /h	610
		l/s	169
		CFM	359
MED	580	m ³ /h	530
		l/s	147
		CFM	312
LOW	520	m ³ /h	470
		l/s	131
		CFM	277
QUIET	460	m ³ /h	410
		l/s	114
		CFM	241

● HEATING

Fan speed	Number of rotations (r.p.m)	Airflow	
HIGH	650	m ³ /h	600
		l/s	167
		CFM	353
MED	580	m ³ /h	530
		l/s	147
		CFM	312
LOW	520	m ³ /h	470
		l/s	131
		CFM	277
QUIET	460	m ³ /h	410
		l/s	114
		CFM	241

■ MODEL : AUU18R

● COOLING

Fan speed	Number of rotations (r.p.m)	Airflow	
HIGH	790	m ³ /h	750
		l/s	208
		CFM	441
MED	660	m ³ /h	610
		l/s	169
		CFM	359
LOW	570	m ³ /h	520
		l/s	144
		CFM	306
QUIET	460	m ³ /h	410
		l/s	114
		CFM	241

● HEATING

Fan speed	Number of rotations (r.p.m)	Airflow	
HIGH	840	m ³ /h	800
		l/s	222
		CFM	471
MED	750	m ³ /h	710
		l/s	197
		CFM	418
LOW	650	m ³ /h	600
		l/s	167
		CFM	353
QUIET	500	m ³ /h	450
		l/s	125
		CFM	265

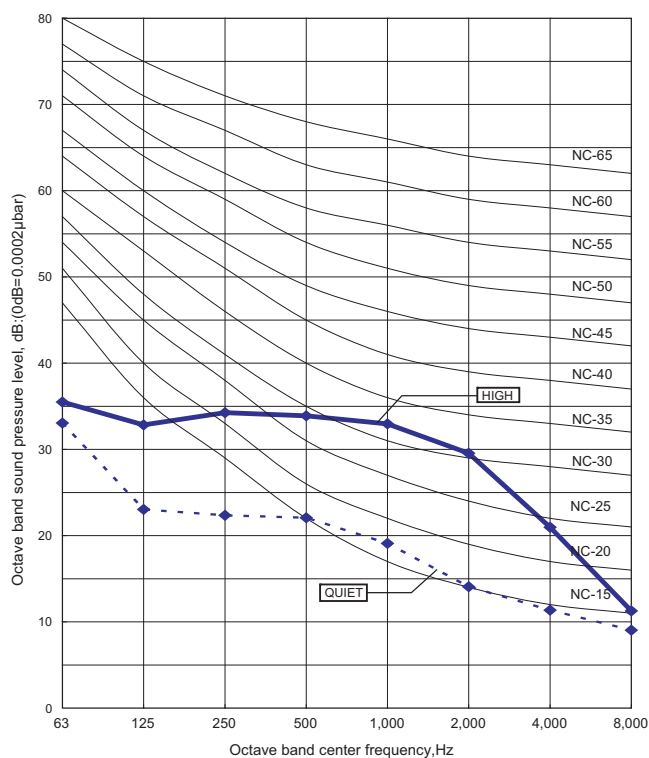
8. OPERATION NOISE

8-1. NOISE LEVEL CURVE

8-1-1. WALL MOUNTED TYPE

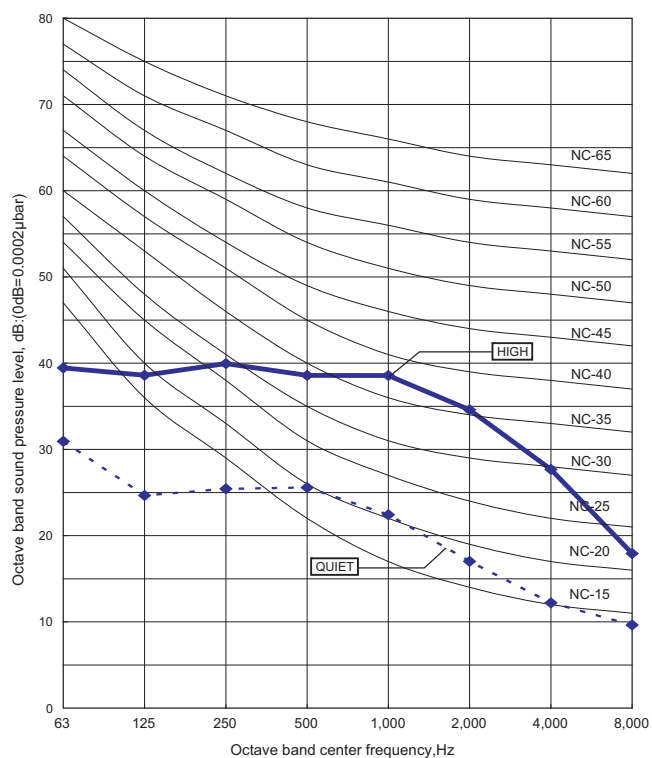
■ MODEL : ASU9R

● COOLING

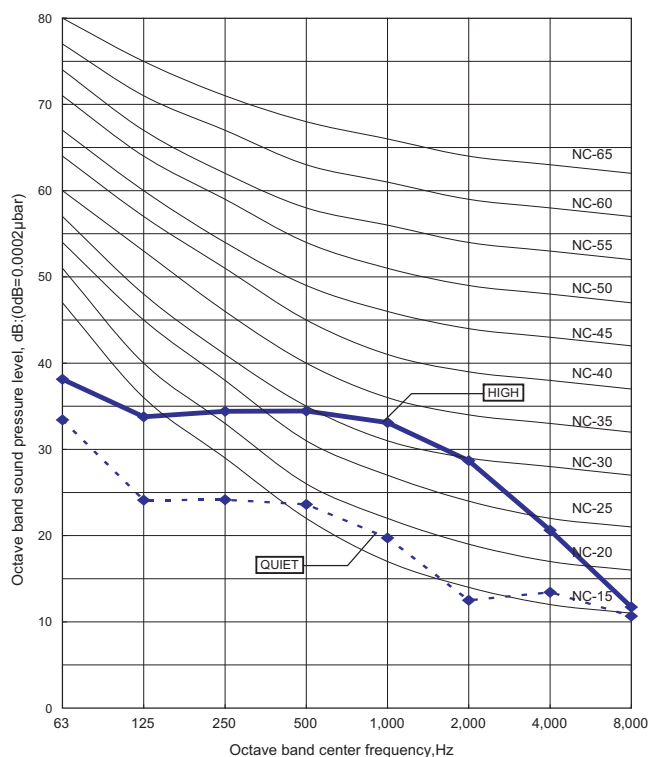


■ MODEL : ASU12R

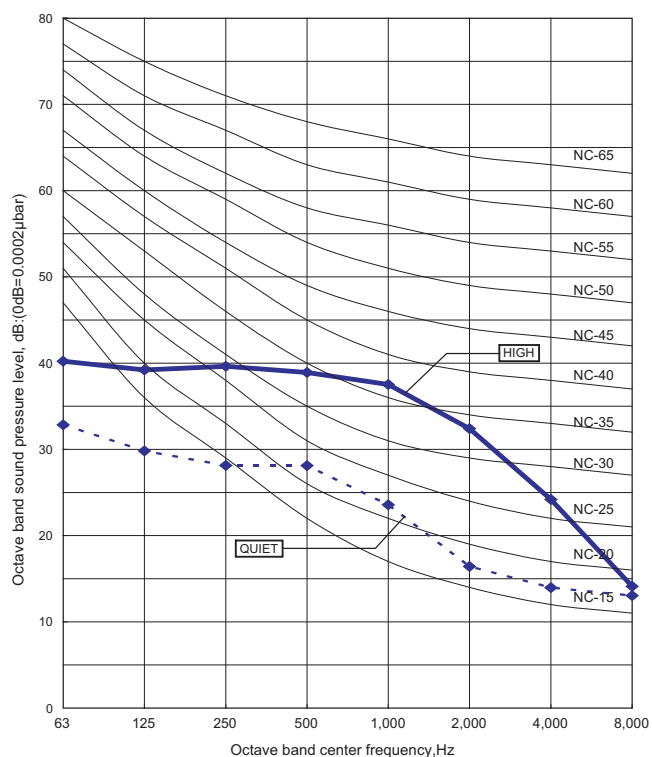
● COOLING

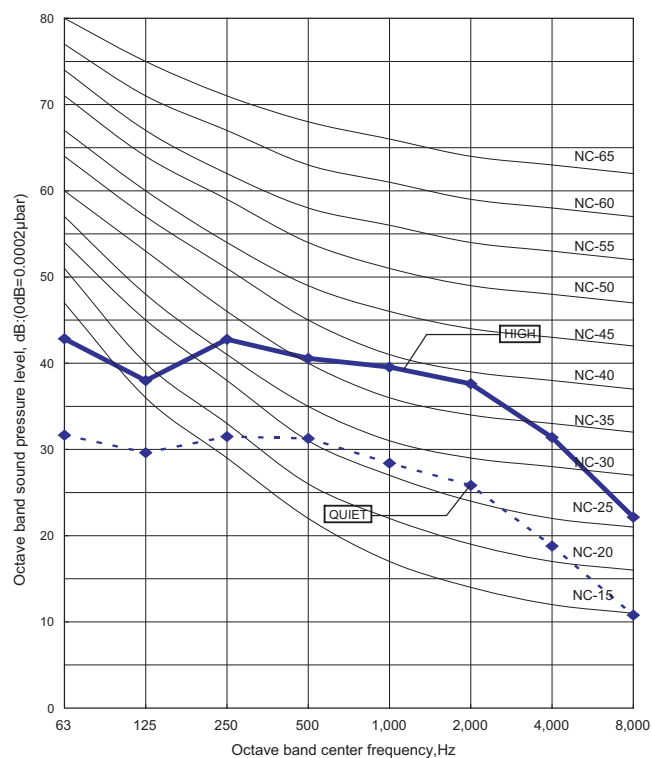
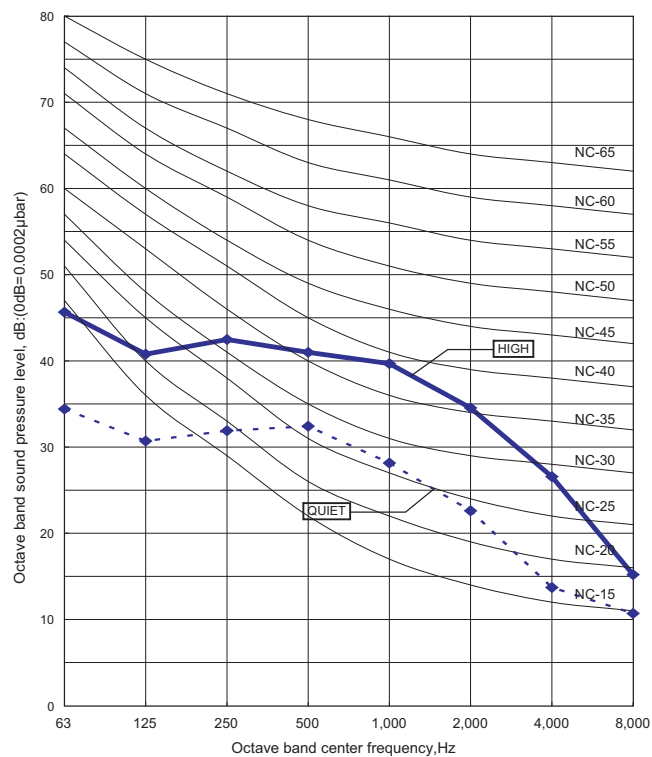


● HEATING



● HEATING



MODEL : ASU18R**● COOLING****● HEATING**

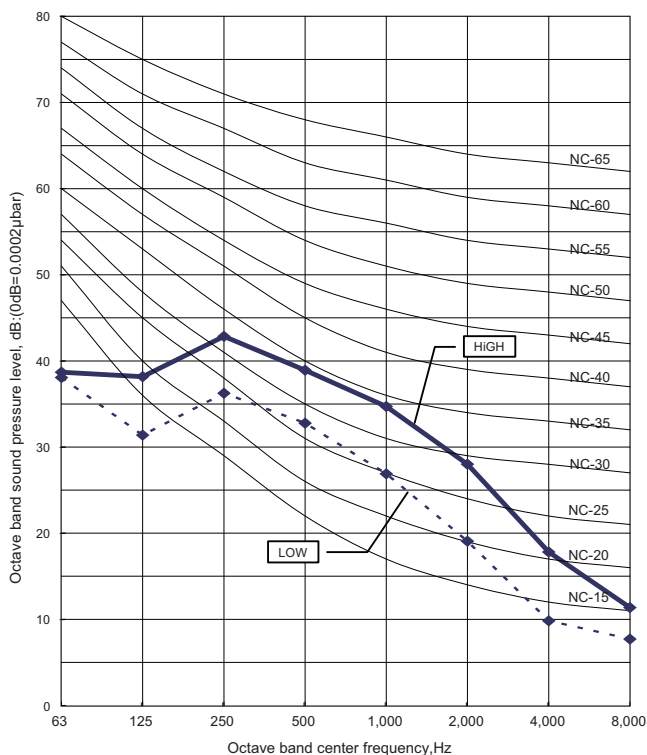
8-1-2. CONCEALED CEILING TYPE

i) NON MEASURING DUCT

Condition
 Static pressure : 0Pa
 Measuring Duct : None
 Static mode : Normal

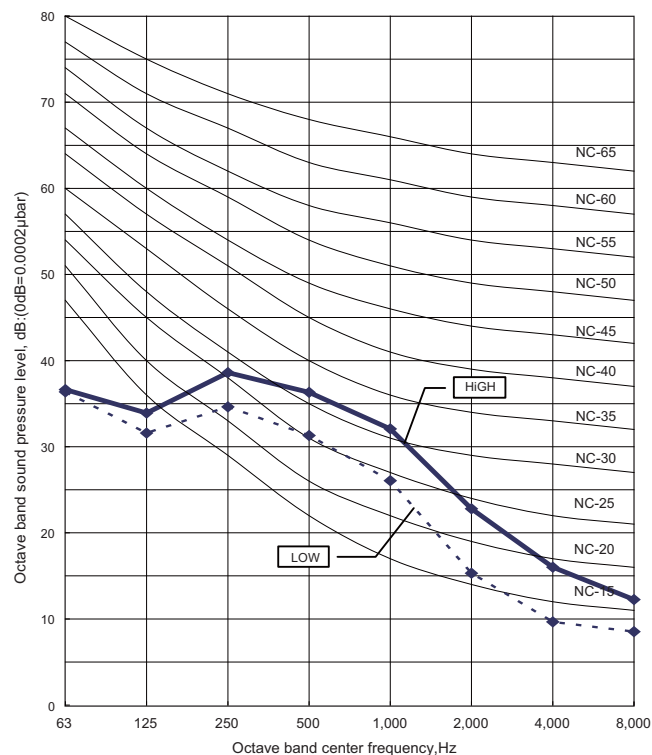
■ MODEL : ARU9R

● COOLING

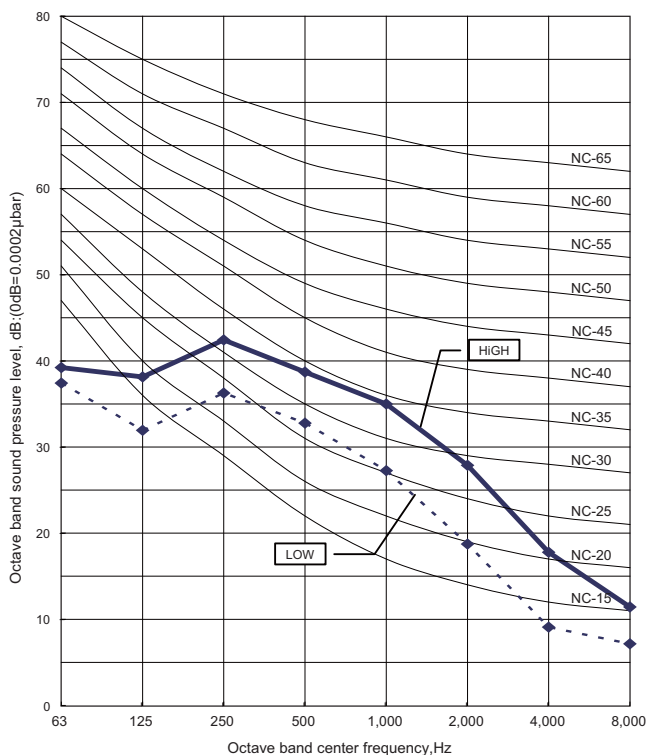


■ MODEL : ARU12R

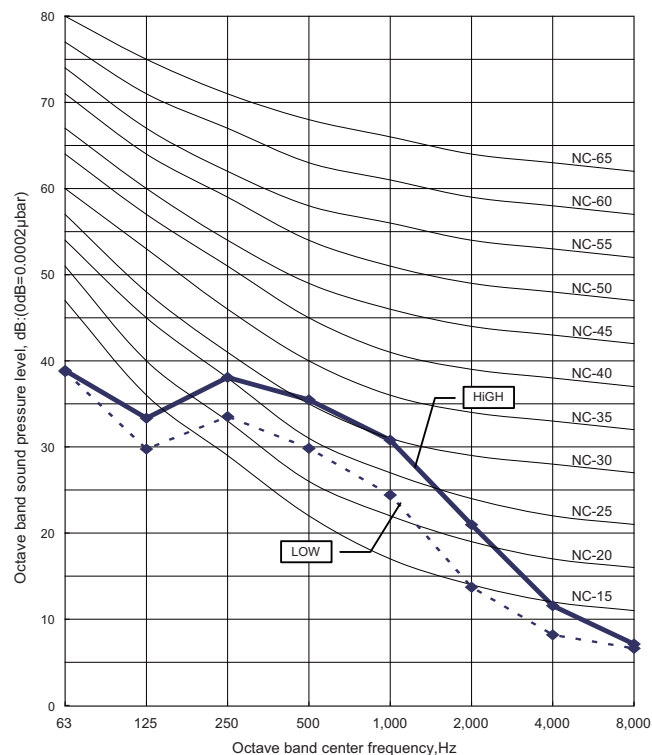
● COOLING



● HEATING



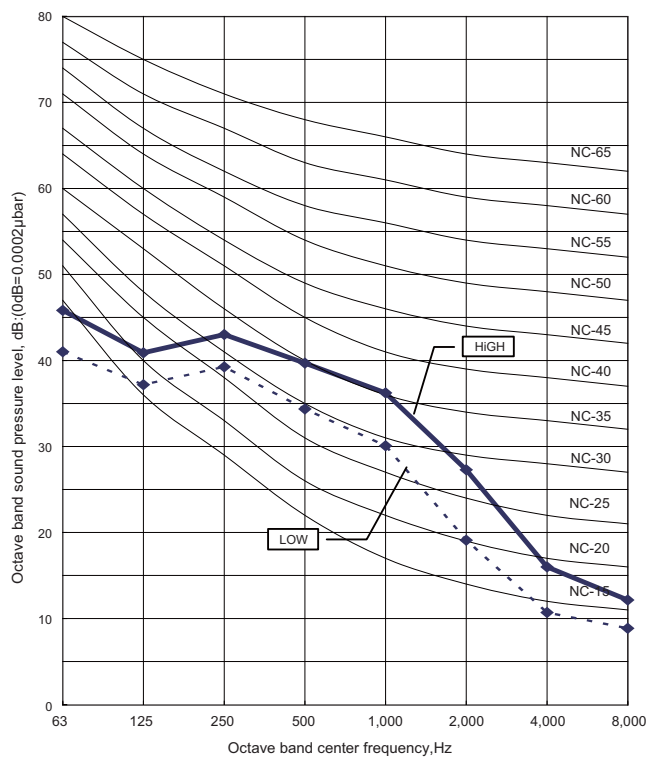
● HEATING



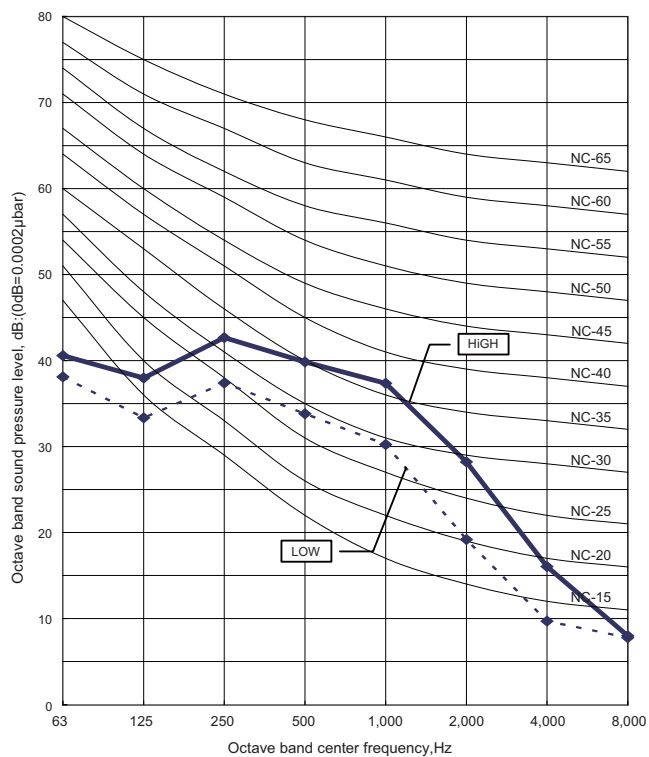
Condition
Static pressure : 0Pa
Measuring Duct : None
Static mode : Normal

■ MODEL : ARU18R

● COOLING



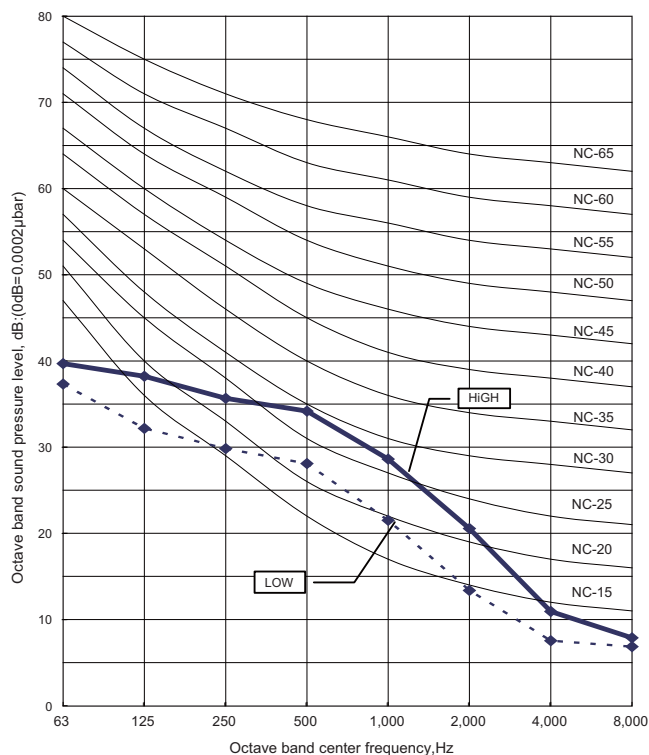
● HEATING



ii) SET THE MEASURING DUCT

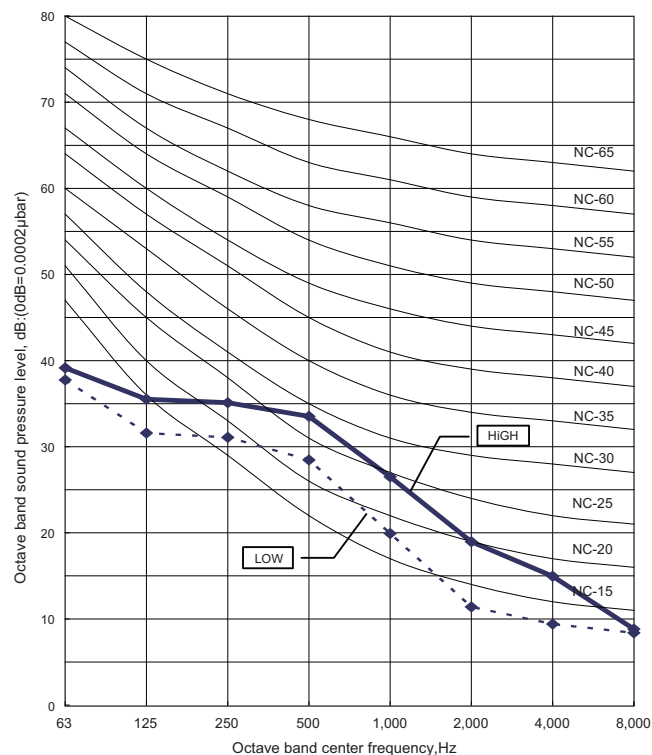
■ MODEL : ARU9R

● COOLING

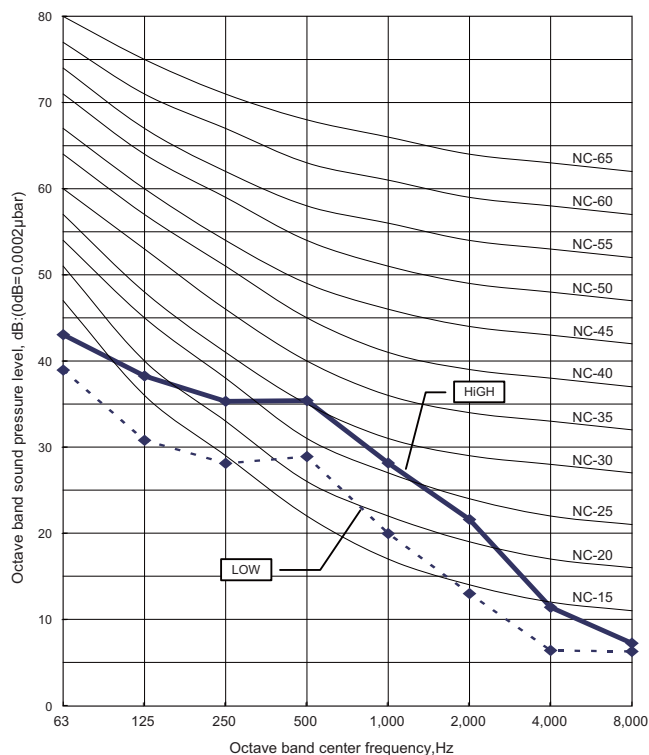


■ MODEL : ARU12R

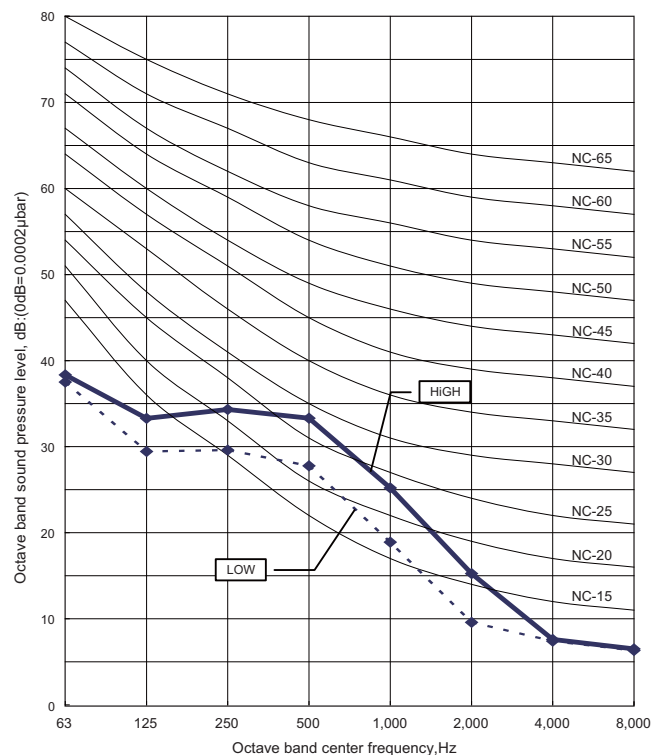
● COOLING



● HEATING



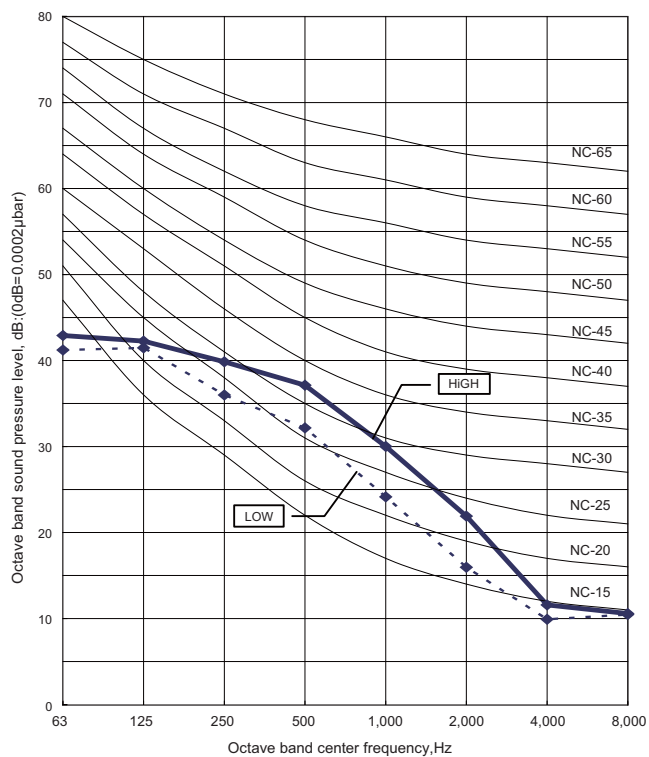
● HEATING



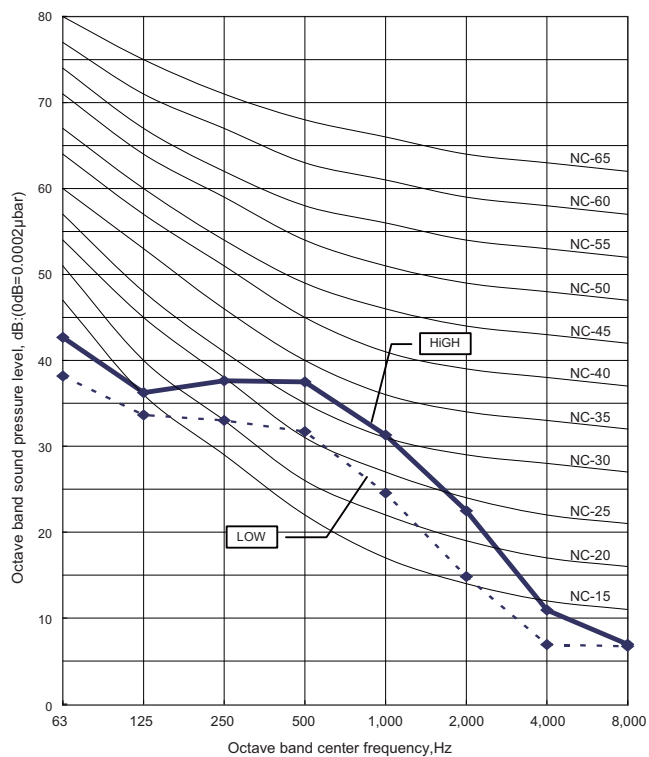
Condition
Static pressure : 0Pa
Measuring Duct : 7in. & 3in.
Static mode : Normal

■ MODEL : ARU18R

● COOLING



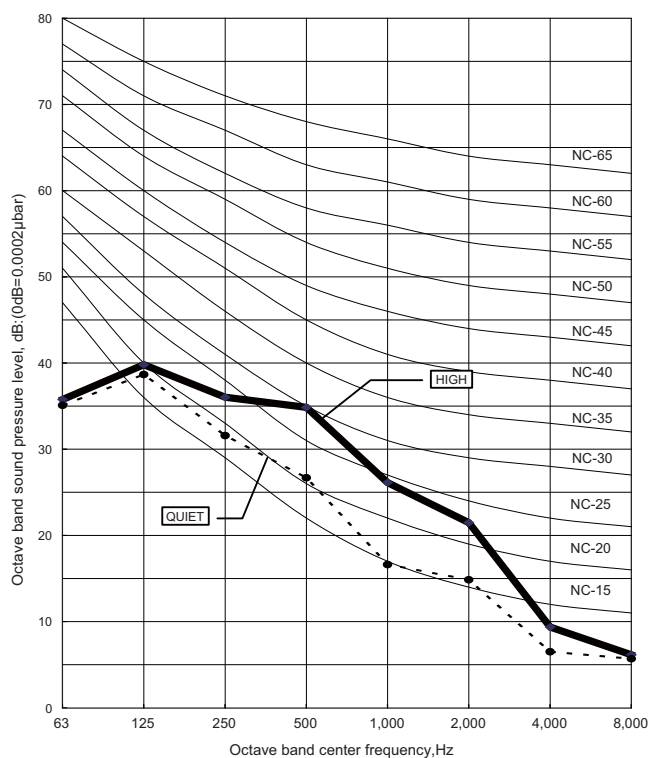
● HEATING



8-1-3. CASSETTE TYPE

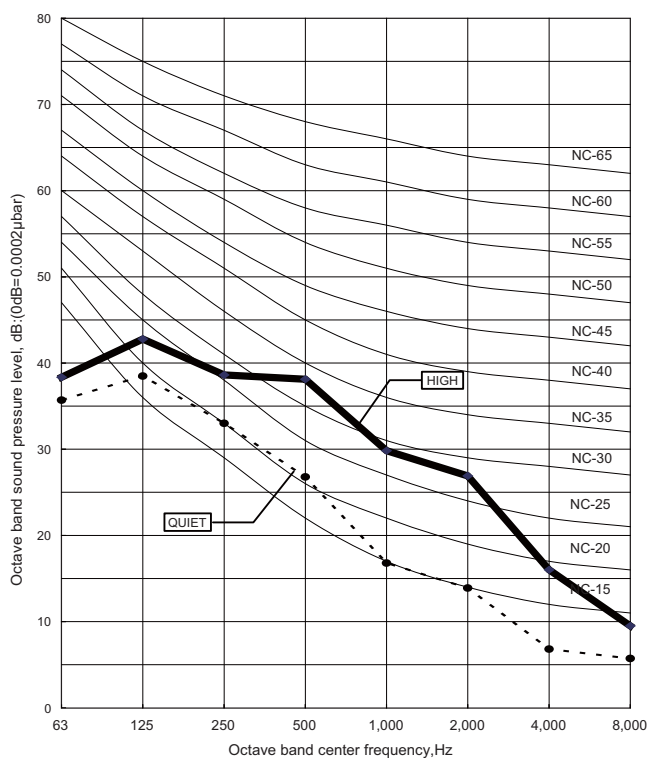
■ MODEL : AUU9R

● COOLING

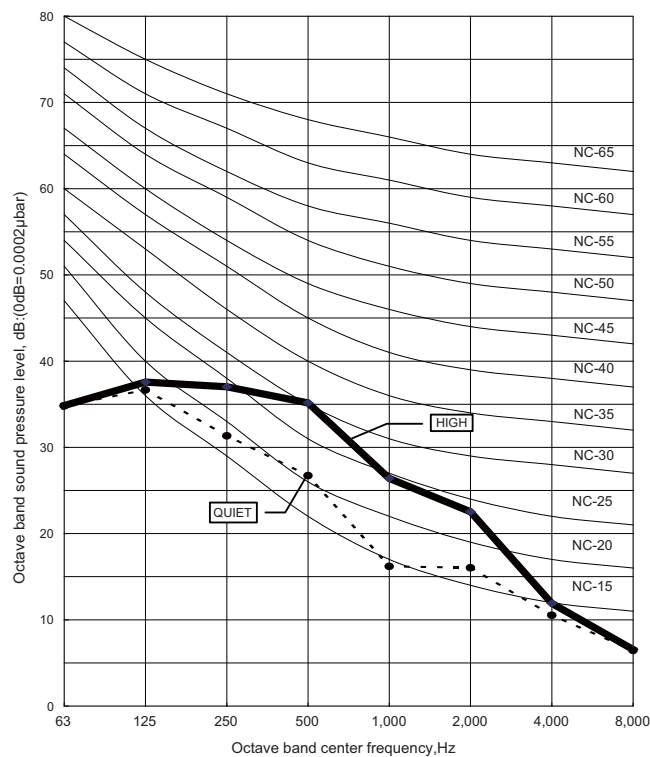


■ MODEL : AUU12R

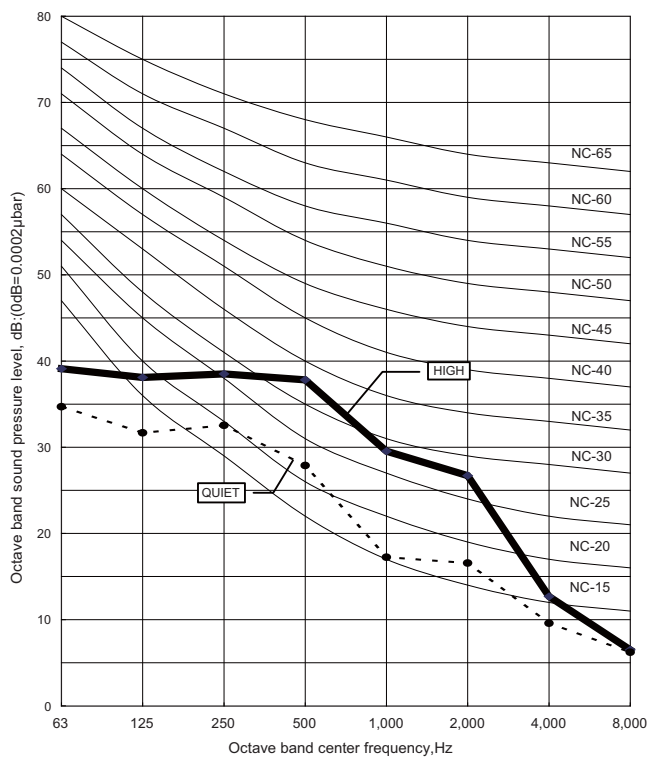
● COOLING



● HEATING

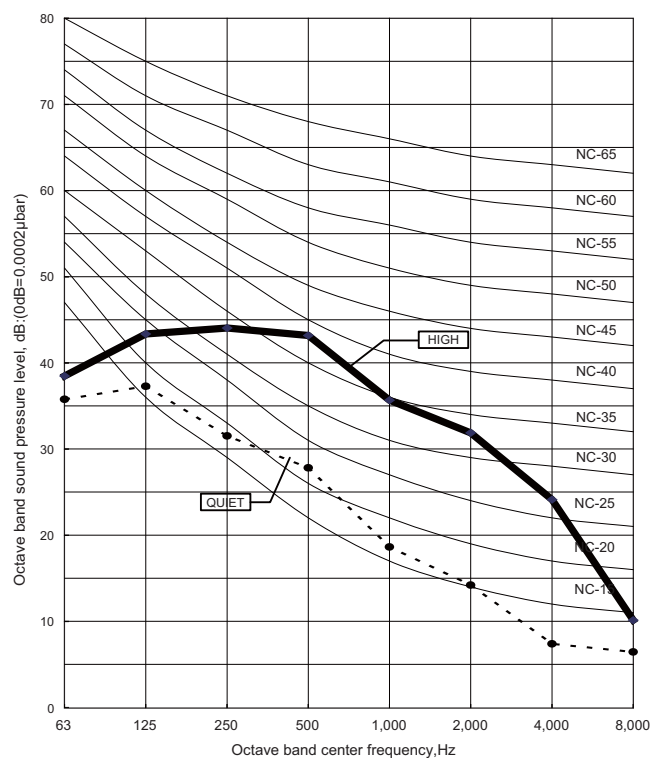


● HEATING

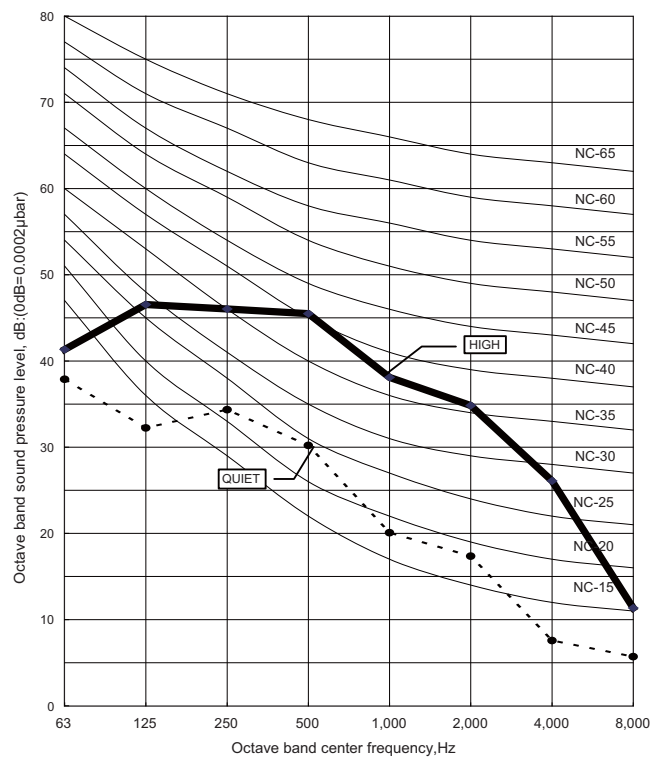


■ MODEL : AUU18R

● COOLING

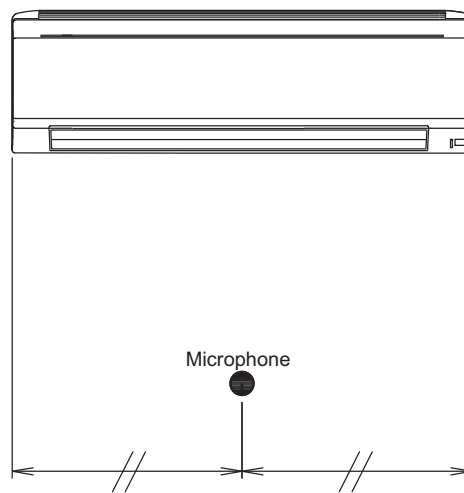
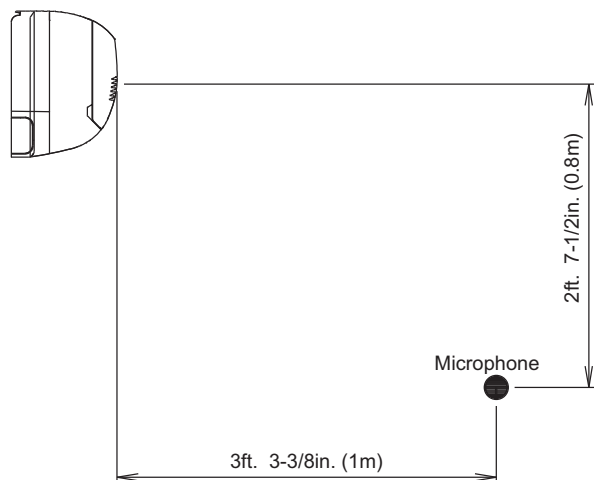


● HEATING

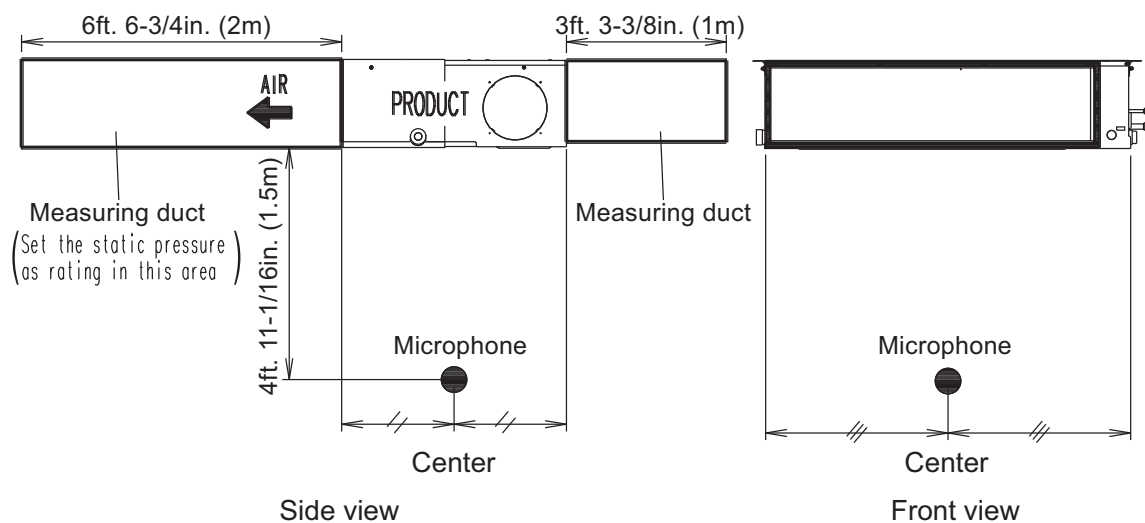


8-2. SOUND LEVEL CHECK POINT

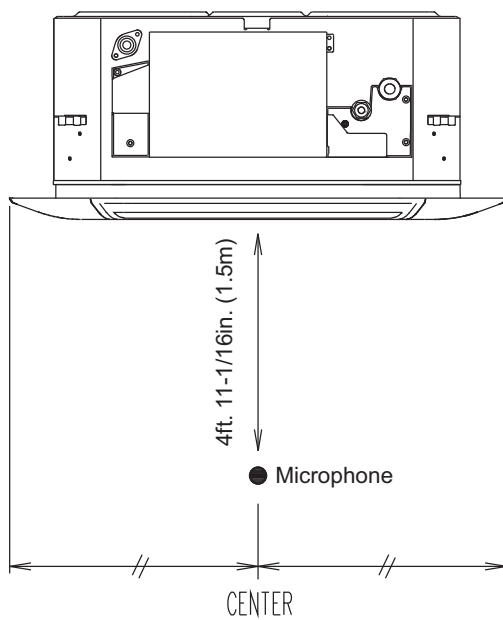
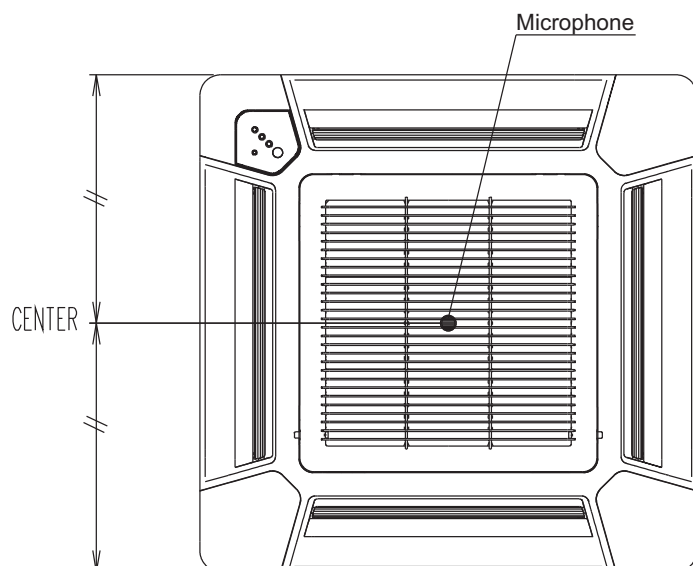
8-2-1. WALL MOUNTED TYPE



8-2-2. CONCEALED CEILING TYPE



8-2-3. CASSETTE TYPE



9. ELECTRIC CHARACTERISTICS

9-1. WALL MOUNTED TYPE

Model name			ASU9R	ASU12R	ASU18R
Power supply	Voltage	V	230 / 208 ~		
	Frequency	Hz	60		
Max. operating current (Indoor unit)		A	0.20 / 0.20	0.25 / 0.25	0.30 / 0.30
Wiring spec. (Indoor unit to outdoor unit)	Connection cable	AWG	14		
	Limited wiring length	ft.	85		

9-2. CONCEALED CEILING TYPE

Model name			ARU9R	ARU12R	ARU18R
Power supply	Voltage	V	230 / 208 ~		
	Frequency	Hz	60		
Max. operating current (Indoor unit)		A	0.32 / 0.30	0.28 / 0.26	0.33 / 0.31
Wiring spec. (Indoor unit to outdoor unit)	Connection cable	AWG	14		
	Limited wiring length	ft.	85		

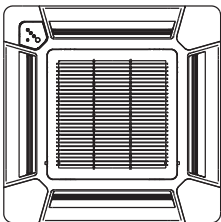
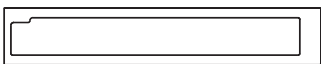
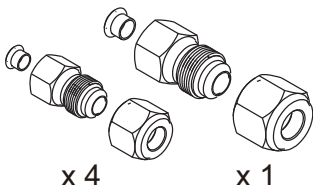
9-3. CASSETTE TYPE

Model name			AUU9R	AUU12R	AUU18R
Power supply	Voltage	V	230 / 208 ~		
	Frequency	Hz	60		
Max. operating current (Indoor unit)		A	0.20 / 0.20	0.20 / 0.20	0.30 / 0.30
Wiring spec. (Indoor unit to outdoor unit)	Connection cable	AWG	14		
	Limited wiring length	ft.	85		

10. SAFETY DEVICES

	Protection form	Model					
		ASU9R ASU12R ASU18R		ARU9R ARU12R ARU18R		AUU9R AUU12R AUU18R	
Circuit protection	Current fuse (PCB)	3.15A 250V		3.15A 250V		3.15A 250V	
	Thermal fuse (Terminal)	215 ^{±4} °F OFF 158 ^{±9} °F ON	102 ^{±2} °C OFF 70 ^{±5} °C ON	-	-	-	-
Fan motor protection	Thermal protector	212 ⁺²⁷ ₋₁₈ °F OFF 203 ⁺²⁷ ₋₁₈ °F ON	100 ⁺¹⁵ ₋₁₀ °C OFF 95 ⁺¹⁵ ₋₁₀ °C ON	248 ^{±9} °F OFF 169 ^{±27} °F ON	120 ^{±5} °C OFF 76 ^{±15} °C ON	284 ^{±36} °F OFF 230 ^{±36} °F ON	140 ^{±20} °C OFF 110 ^{±20} °C ON

11. OPTIONAL PARTS

Exterior	Parts name	Model No.	Summary
	Wired remote control unit	UTB-UUB	For wall mounted type The optional wired remote control unit can be used. When you use remote control unit , there are following different points as compared with using wireless remote control unit. [The additional functions for wired ones] · Weekly timer · Temperature set back timer [The restricted functions for wired ones] · Air-cleaning function can't be turned ON/OFF. (During operation, it is always ON) · QUIET can't be used. · Sleep-timer can't be used. · COIL DRY OPERATION can't be used. And you can't use both wired remote control unit and wireless simultaneously. (Only one kind can be selected)
	Wireless remote controller	UTY-LNHFU1	For cassette type Unit control is performed by Wireless remote controller
	Decoration panel	UTG-UFUB-W	For cassette type Ceiling dirt by discharged wind was made difficult to cling by reviewing the shape of the LOUVER.
	Air outlet shutter plate	UTR-YDZB	For cassette type Air outlet shutter plate is installed at the air outlet when 3-way direction is performed.
	Fresh air Intake kit	UTZ-VXAA	For cassette type It can be taken in fresh air of up to 10% of "high" air volume of the indoor unit by attaching Fresh Air Intake Kit to cassette type indoor unit.
 x 4 x 1	Adapter kit	UTP-MU36A2	For 2rooms combination system It can exchange liquid pipe size 1/4 in. (6.35mm) for 3/8 in.(9.52mm), and 3/8 in.(9.52mm) for 1/2 in.(12.7mm) If you choice 2 indoor units system "18000 BTU + 18000BTU", then you need this kit.

OUTDOOR UNIT

2. MULTI TYPE : 2-4ROOMS TYPE AOU36RML1

1. SPECIFICATIONS

1-1. COMBINATIONS

9000+9000+9000, 12000+9000+9000, 12000+12000+9000 Btu/h

OUTDOOR UNIT
AOU36R

TYPE				INVERTER MULTI MODELS									
				HEAT PUMP TYPE									
MODEL NAME				AOU36RML1									
INDOOR UNIT COMBINATION				9+9+9			12+9+9			12+12+9			
CONNECTION PATTERN OF INDOOR UNIT				Wall Mounted	Ducted	Cassette	Wall Mounted	Ducted	Cassette	Wall Mounted	Ducted	Cassette	
POWER SOURCE				230/208V ~ 60Hz									
AVAILABLE VOLTAGE RANGE				187-253V ~ 60Hz									
SEER				15.00	14.00	16.00	15.00	14.00	16.00	15.00	14.00	16.00	
HSPF				9.00	8.60	9.40	9.00	8.60	9.40	9.00	8.60	9.40	
CAPACITY	COOLING	RATED	BTU/h	27600	26600	27000	30400	29200	29800	33000	31400	32200	
			kW	8.10	7.80	7.92	8.90	8.60	8.76	9.70	9.20	9.42	
		MIN.-MAX.	BTU/h	11000 - 33000	11000 - 33000	11000 - 33000	11000 - 33800	11000 - 33800	11000 - 33800	11000 - 34600	11000 - 34600	11000 - 34600	
			kW	3.2 - 9.7	3.2 - 9.7	3.2 - 9.7	3.2 - 9.9	3.2 - 9.9	3.2 - 9.9	3.2 - 10.1	3.2 - 10.1	3.2 - 10.1	
	HEATING	RATED	BTU/h	33000	33000	33000	35400	35400	35400	37000	36200	36600	
			kW	9.66	9.66	9.66	10.38	10.38	10.38	10.80	10.60	10.74	
		MIN.-MAX.	BTU/h	11000 - 40200	11000 - 40200	11000 - 40200	11000 - 40600	11000 - 40600	11000 - 40600	11000 - 41000	11000 - 41000	11000 - 41000	
			kW	3.2 - 11.8	3.2 - 11.8	3.2 - 11.8	3.2 - 11.9	3.2 - 11.9	3.2 - 11.9	3.2 - 12.0	3.2 - 12.0	3.2 - 12.0	
INPUT POWER	COOLING	RATED	kW	2.75	2.85	2.80	3.30	3.40	3.35	3.75	3.90	3.83	
		MAX.		3.74	3.74	3.74	4.10	4.38	4.38	4.10	4.38	4.38	
	HEATING	RATED		2.96	3.50	3.23	3.10	3.90	3.50	3.30	4.20	3.75	
		MAX.		3.80	4.30	4.30	4.10	4.30	4.30	4.10	4.30	4.30	
CURRENT	COOLING	RATED	A	12.0	12.4	12.2	14.4	14.8	14.6	16.4	17.0	16.7	
		MAX.		16.4	16.4	16.4	18.0	19.1	19.1	18.0	19.1	19.1	
	HEATING	RATED		13.0	15.3	14.1	13.5	17.0	15.3	14.5	18.3	16.4	
		MAX.		16.6	18.8	18.8	18.0	18.8	18.8	18.0	18.8	18.8	
EER	COOLING	RATED	BTU/W	10.00	9.30	9.60	9.20	8.55	8.85	8.80	8.05	8.40	
COP	HEATING		W/W	3.26	2.76	2.98	3.34	2.66	2.96	3.26	2.52	2.86	
STARTING CURRENT			A	15									
FAN	AIR FLOW RATE	COOLING	CFM	2119 (3600)									
		HEATING	(m³/h)	2237 (3800)									
	TYPE x Q'ty			Propeller x 1									
	MOTOR OUTPUT			W	100								
SOUND PRESSURE LEVEL	COOLING		dB(A)	51									
	HEATING			53									
HEAT EXCHANGER TYPE	DIMENSION (HxWxD)		in. (mm)	31-13/32 x 35-7/16 x 1-7/16 (798x900x36.38)									
	FIN PITCH		FPI	18									
	ROWS x STAGES			2 x 32									
	PIPE TYPE			COPPER									
	FIN TYPE			ALUMINUM									
COMPRESSOR	TYPE x Q'ty			DC TWIN ROTARY x 1									
	MOTOR OUTPUT		W	1300									
REFRIGERANT	TYPE			R410A									
	CHARGE		lb. oz. (g)	7lb. 1oz. (3200)									
REFRIGERANT OIL TYPE				POE									
ENCLOSURE	MATERIAL			STEEL SHEET									
	COLOR			BEIGE (Approximate color of MUNSELL 10YR 7.5 / 1.0)									
DIMENSIONS HxWxD	NET		in. (mm)	32-11/16 x 35-7/16 x 13 (830x900x330)									
	GROSS			38-3/16 x 41-11/32 x 17-17/32 (970x1050x445)									
WEIGHT	NET		lb. (kg)	149 (68)									
	GROSS			167 (76)									
CONNECTION PIPE	SIZE	LIQUID	in. (mm)	Φ 1/4 x 4 (6.35x 4)									
		GAS		Φ 3/8x 3 + Φ1/2 (9.52x 3+12.7)									
	CONNECTION METHOD			FLARE									
	MAX LENGTH (total)		ft. (m)	230 (70)									
	MAX LENGTH (each unit)			82 (25)									
	MIN LENGTH (each unit)			16 (5)									
	MAX HEIGHT			49 (15)									
OPERATION	COOLING		°F (°C)	32 to 115 (0 to 46) , *14 to 115 (-10 to 46)									
	HEATING			14 to 75 (-10 to 24)									

Note:

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling: Indoor temperature of 80°F (26.7°C) DB / 67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB.

Heating: Indoor temperature of 70°F (21.1°C) DB / 60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB.

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

*: Operation up to 14°F (-10°C) is possible only in cases in which 2 or more units are operating.

OUTDOOR UNIT
AOU36R

1-2. COMBINATIONS

12000+12000+12000, 18000+9000+9000, 9000×4 Btu/h

OUTDOOR UNIT
AOU36R

OUTDOOR UNIT
AOU36R

TYPE				INVERTER MULTI MODELS									
				HEAT PUMP TYPE									
MODEL NAME				AOU36RML1									
INDOOR UNIT COMBINATION				12+12+12			18+9+9			9+9+9+9			
CONNECTION PATTERN OF INDOOR UNIT				Wall Mounted	Ducted	Cassette	Wall Mounted	Ducted	Cassette	Wall Mounted	Ducted	Cassette	
POWER SOURCE				230/208V ~ 60Hz									
AVAILABLE VOLTAGE RANGE				187-253V ~ 60Hz									
SEER				15.00	14.00	16.00	15.00	14.00	16.00	15.00	14.00	16.00	
HSPF				9.00	8.60	9.40	9.00	8.60	9.40	9.00	8.60	9.40	
CAPACITY	COOLING	RATED	BTU/h	35000	32800	33800	35200	33200	34200	35200	33800	34400	
			kW	10.30	9.60	9.90	10.30	9.70	10.02	10.30	9.90	10.08	
		MIN.-MAX.	BTU/h	11000 - 35600	11000 - 35600	11000 - 35600	11000 - 36000	11000 - 36000	11000 - 36000	11000 - 36000	11000 - 36000	11000 - 36000	
			kW	3.2 - 10.4	3.2 - 10.4	3.2 - 10.4	3.2 - 10.5	3.2 - 10.5	3.2 - 10.5	3.2 - 10.5	3.2 - 10.5	3.2 - 10.5	
	HEATING	RATED	BTU/h	37200	36200	36600	37200	36800	37000	36400	36400	36400	
			kW	10.90	10.60	10.74	10.90	10.80	10.86	10.68	10.68	10.68	
		MIN.-MAX.	BTU/h	11000 - 42000	11000 - 42000	11000 - 42000	11000 - 42000	11000 - 42000	11000 - 42000	11000 - 42000	11000 - 42000	11000 - 42000	
			kW	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	3.2 - 12.3	
INPUT POWER	COOLING	RATED	kW	4.00	4.15	4.08	4.00	4.15	4.08	4.00	4.15	4.07	
		MAX.		4.10	4.38	4.38	4.10	4.38	4.38	4.10	4.38	4.38	
	HEATING	RATED		3.30	4.00	3.65	3.30	3.65	3.48	3.00	3.45	3.21	
		MAX.		3.80	4.30	4.30	3.80	4.30	4.30	3.70	3.85	3.85	
CURRENT	COOLING	RATED	A	17.5	18.1	17.8	17.5	18.1	17.8	17.5	18.1	17.8	
		MAX.		18.0	19.1	19.1	18.0	19.1	19.1	18.0	19.1	19.1	
	HEATING	RATED		14.5	17.5	16.0	14.5	16.0	15.2	13.1	15.1	14.0	
		MAX.		16.6	18.8	18.8	16.6	18.8	18.8	16.2	16.8	16.8	
EER		COOLING	RATED	BTU/W	8.75	7.90	8.25	8.80	8.00	8.35	8.80	8.10	8.45
COP		HEATING		W/W	3.30	2.64	2.94	3.30	2.96	3.12	3.56	3.08	3.32
STARTING CURRENT				A	15								
FAN	AIR FLOW RATE	COOLING	CFM (m³/h)	2119 (3600)									
		HEATING		2237 (3800)									
	TYPE x Q'ty			Propeller x 1									
	MOTOR OUTPUT			W	100								
SOUND PRESSURE LEVEL		COOLING	dB (A)	51									
		HEATING		53									
HEAT EXCHANGER TYPE	DIMENSION (H×W×D)		in. (mm)	31-13/32 × 35-7/16 × 1-7/16 (798×900×36.38)									
	FIN PITCH		FPI	18									
	STAGES x ROWS			2 x 32									
	PIPE TYPE			COPPER									
	FIN TYPE			ALUMINUM									
COMPRESSOR	TYPE x Q'ty			DC TWIN ROTARY x 1									
	MOTOR OUTPUT		W	1300									
REFRIGERANT		TYPE		R410A									
		CHARGE	lb. oz. (g)	7lb. 1oz. (3200)									
REFRIGERANT OIL		TYPE		POE									
ENCLOSURE	MATERIAL			STEEL SHEET									
	COLOR			BEIGE (Approximate color of MUNSELL 10YR 7.5 / 1.0)									
DIMENSIONS H ×W ×D		NET	in. (mm)	32-11/16 × 35-7/16 × 13 (830×900×330)									
		GROSS		38-3/16 × 41-11/32 × 17-17/32 (970×1050×445)									
WEIGHT	NET		lb. (kg)	149 (68)									
	GROSS			167 (76)									
CONNECTION PIPE	SIZE	LIQUID	in. (mm)	Φ 1/4 × 4 (6.35× 4)									
		GAS		Φ 3/8× 3 + Φ1/2 (9.52× 3+12.7)									
	CONNECTION METHOD			FLARE									
	MAX LENGTH (total)			230 (70)									
	MAX LENGTH (each unit)			82 (25)									
	MIN LENGTH (each unit)			16 (5)									
	MAX HEIGHT			49 (15)									
OPERATION		COOLING		°F (°C)	32 to 115 (0 to 46) , *14 to 115 (-10 to 46)								
		HEATING			14 to 75 (-10 to 24)								

Note:

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling: Indoor temperature of 80°F (26.7°C) DB / 67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB.

Heating: Indoor temperature of 70°F (21.1°C) DB / 60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB.

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

*:Operation up to 14°F (-10°C) is possible only in cases in which 2 or more units are operating.

1-3. COMBINATIONS

18000+18000 Btu/h (with optional parts UTP-MU36A2)

OUTDOOR UNIT
AOU36R

OUTDOOR UNIT
AOU36R

TYPE				INVERTER MULTI MODELS		
				HEAT PUMP TYPE		
MODEL NAME				AOU36RML1		
INDOOR UNIT COMBINATION				18+18		
CONNECTION PATTERN OF INDOOR UNIT				Wall Mounted	Ducted	Cassette
POWER SOURCE				230/208V~ 60Hz		
AVAILABLE VOLTAGE RANGE				187-253V ~ 60Hz		
SEER				15.00	14.00	15.00
HSPF				9.00	8.60	9.00
CAPACITY	COOLING	RATED	BTU/h	30400	31600	31600
			kW	8.94	9.26	9.26
		MIN.-MAX.	BTU/h	11000 - 32000	11000 - 32000	11000 - 32000
			kW	3.2 - 9.4	3.2 - 9.4	3.2 - 9.4
	HEATING	RATED	BTU/h	35800	35000	37000
			kW	10.50	10.26	10.86
		MIN.-MAX.	BTU/h	11000 - 40000	11000 - 40000	11000 - 40000
			kW	3.2 - 11.7	3.2 - 11.7	3.2 - 11.7
INPUT POWER	COOLING	RATED	kW	3.82	4.00	3.98
		MAX.		4.10	4.38	4.38
	HEATING	RATED		3.66	3.64	3.59
		MAX.		3.80	4.30	4.30
CURRENT	COOLING	RATED	A	16.7	17.5	17.4
		MAX.		18.0	19.1	19.1
	HEATING	RATED		16.0	15.9	15.7
		MAX.		16.6	18.8	18.8
EER	COOLING	RATED	BTU/W	7.95	7.90	7.95
COP	HEATING		W/W	2.86	2.82	3.02
STARTING CURRENT			A	15		
FAN	AIR FLOW RATE	COOLING	CFM (m³/h)	2119 (3600)		
		HEATING		2237 (3800)		
	TYPE x Q'ty			Propeller x 1		
	MOTOR OUTPUT			W	100	
SOUND PRESSURE LEVEL		COOLING	dB(A)	51		
		HEATING		53		
HEAT EXCHANGER TYPE	DIMENSION (HxWxD)		in. (mm)	31-13/32 x 35-7/16 x 1-7/16 (798x900x36.38)		
	FIN PITCH		FPI	18		
	ROWS x STAGES			2 x 32		
	PIPE TYPE			COPPER		
	FIN TYPE			ALUMINUM		
COMPRESSOR	TYPE x Q'ty			DC TWIN ROTARY x 1		
	MOTOR OUTPUT		W	1300		
REFRIGERANT	TYPE			R410A		
	CHARGE		lb. oz. (g)	7lb. 1oz. (3200)		
REFRIGERANT OIL	TYPE			POE		
ENCLOSURE	MATERIAL			STEEL SHEET		
	COLOR			BEIGE (Approximate color of MUNSELL 10YR 7.5 / 1.0)		
DIMENSIONS H xW xD	NET		in. (mm)	32-11/16 x 35-7/16 x 13 (830x900x330)		
	GROSS			38-3/16 x 41-11/32 x 17-17/32 (970x1050x445)		
WEIGHT	NET		lb. (kg)	149 (68)		
	GROSS			167 (76)		
CONNECTION PIPE	SIZE	LIQUID	in. (mm)	Φ 3/8 x 2(9.52 x 2) exchange size with optional parts		
		GAS		Φ 1/2 x 2 (12.7 x 2) exchange size with optional parts		
	CONNECTION METHOD			FLARE		
	MAX LENGTH (total)		ft. (m)	164 (50)		
	MAX LENGTH (each unit			82 (25)		
	MIN LENGTH (each unit)			25(7.5)		
MAX HEIGHT		49 (15)				
OPERATION	COOLING		°F (°C)	50 to 115 (10 to 46)		
	HEATING			14 to 75 (-10 to 24)		

Note:

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling: Indoor temperature of 80°F(26.7°C)DB / 67°F(19.4°C)WB, and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB.

Heating: Indoor temperature of 70°F(21.1°C)DB / 60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.

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

If you choice dual zone system "18000 BTU+18000 BTU", then you have to purchase optional parts UTP-MU36A2 for connection 2rooms.

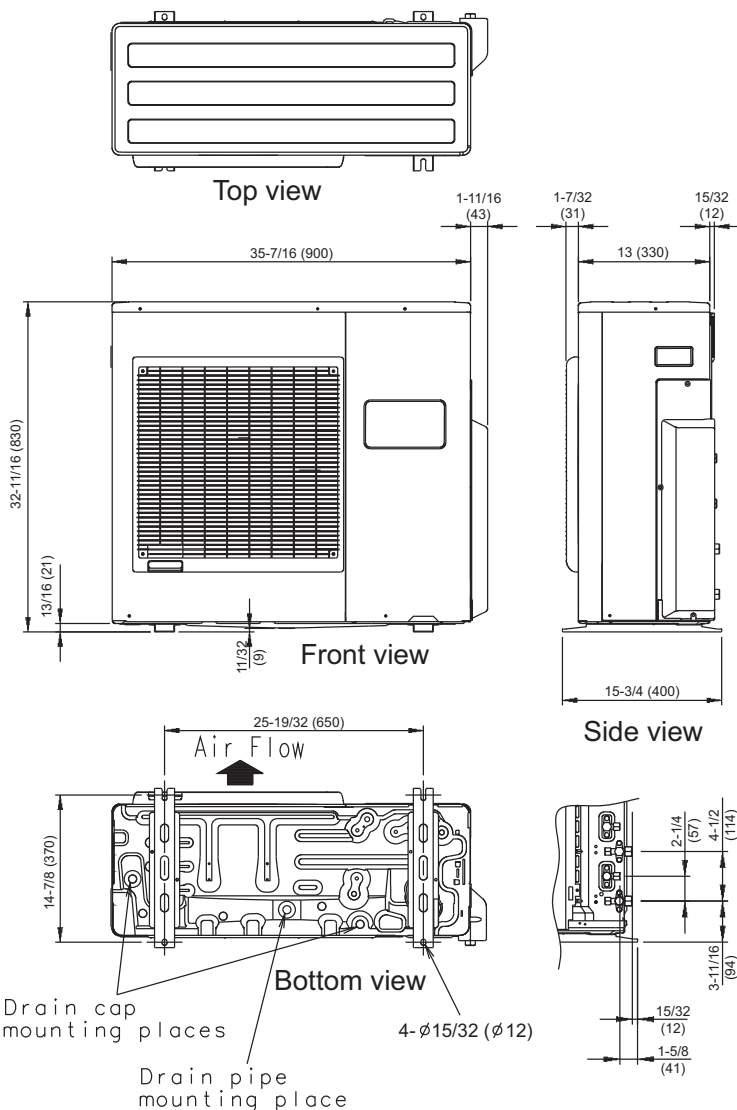
2. DIMENSIONS

■ MODEL : AOU36R

[Unit : Inch (mm)]

OUTDOOR UNIT
AOU36R

OUTDOOR UNIT
AOU36R



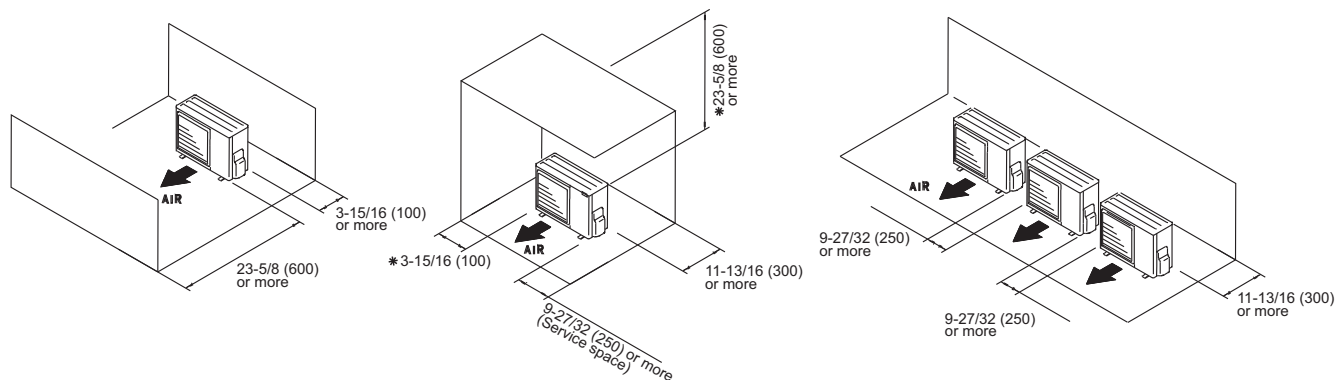
■ INSTALLATION PLACE

[Unit : Inch (mm)]

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.



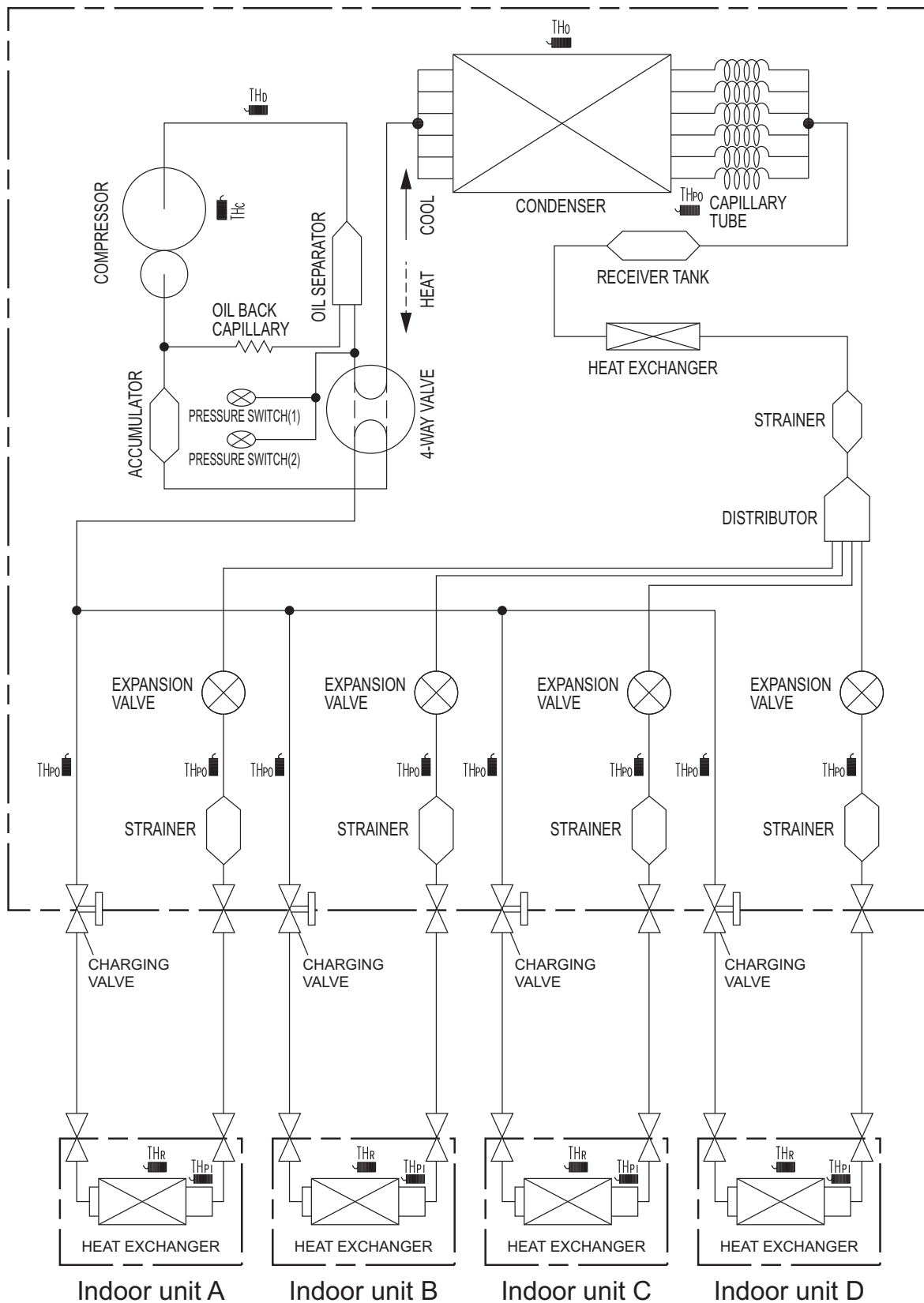
* If the space is larger than that is stated, the condition will be the same as that are no obstacles.

3. REFRIGERANT CIRCUIT

■ MODEL : AOU36R

OUTDOOR UNIT
AOU36R

Outdoor unit



OUTDOOR UNIT
AOU36R

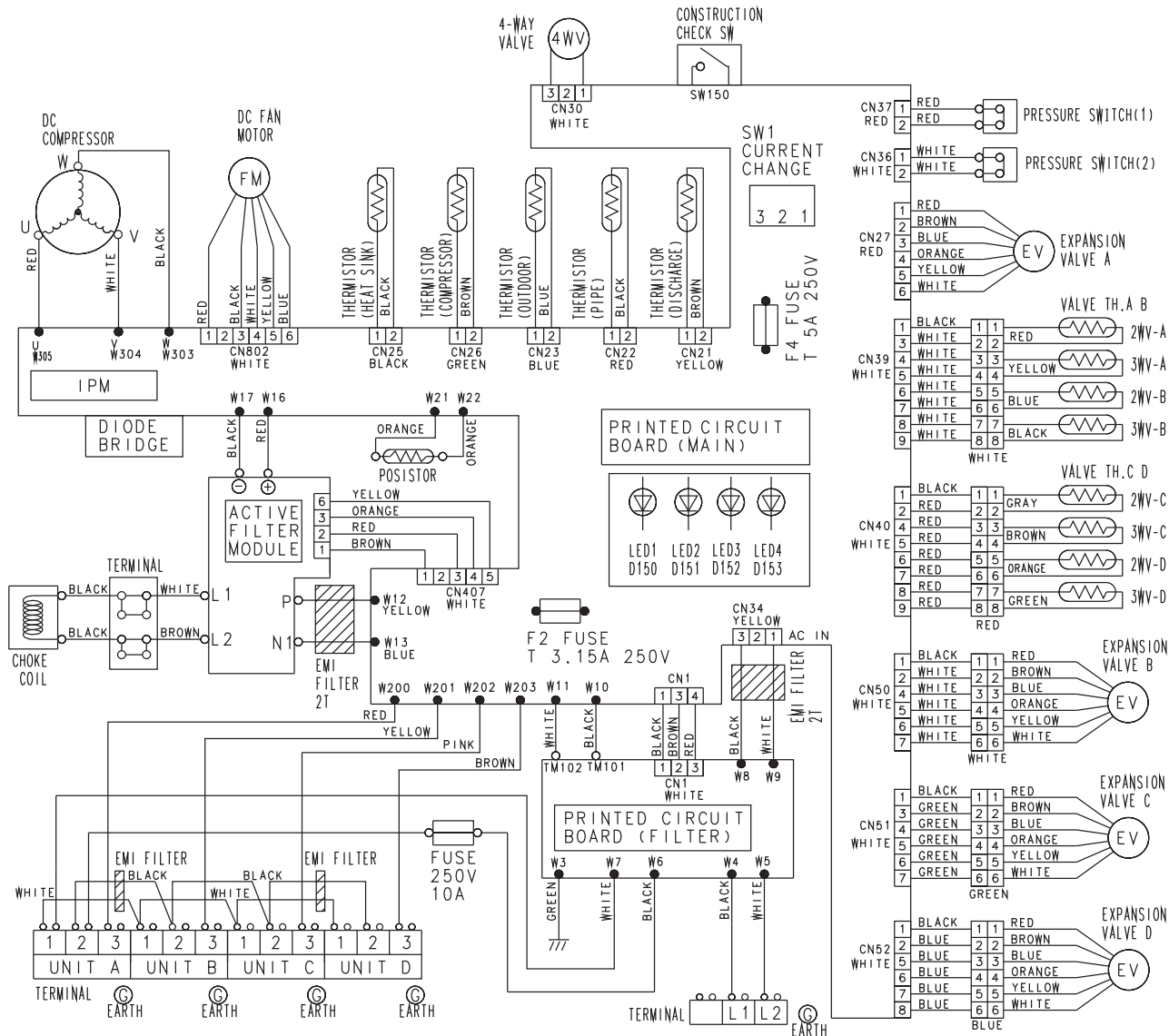
THd : THERMISTOR (DISCHARGE TEMP.)
 THo : THERMISTOR (OUTDOOR TEMP.)
 THpo : THERMISTOR (PIPE TEMP.)
 THc : THERMISTOR (COMPRESSOR TEMP.)

THr : THERMISTOR (ROOM TEMP.)
 THp : THERMISTOR (PIPE TEMP.)

4. WIRING DIAGRAM

■ MODEL : AOU36R

OUTDOOR UNIT
AOU36R



OUTDOOR UNIT
AOU36R

5. CAPACITY COMPENSATION RATE FOR PIPE LENGTH AND HEIGHT DEFFERENCE

This table is created using the maximum capacity.

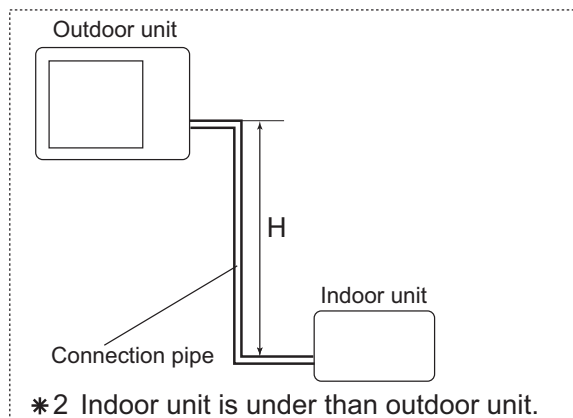
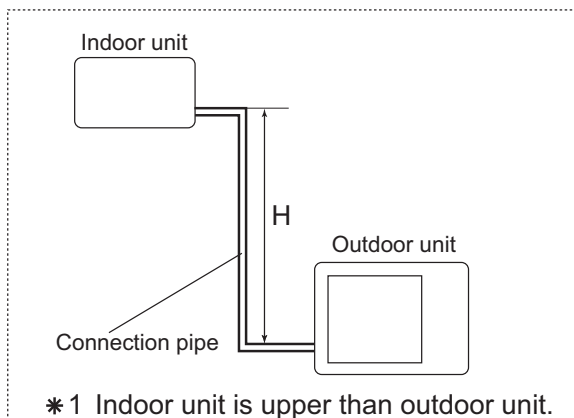
■ INDOOR UNIT 9000BTU (AOU36R)

● COEFFICIENT OF COMPENSATION FOR HEIGHT DIFFERENCE

COOLING				Pipe length					
				5m	7.5m	10m	15m	20m	25m
				16ft.	25ft.	33ft.	49ft.	66ft.	82ft.
Height difference H	* 1 Indoor unit is upper than outdoor unit	15m	49ft.	-	-	-	0.968	0.956	0.940
		10m	33ft.	-	-	0.983	0.976	0.964	0.947
		7.5m	25ft.	-	0.988	0.987	0.980	0.968	0.951
		5m	16ft.	0.991	0.992	0.991	0.984	0.972	0.955
	* 2 Indoor unit is under than outdoor unit	0m	0ft.	0.999	1.000	0.999	0.992	0.979	0.963
		-5m	-16ft.	0.999	1.000	0.999	0.992	0.979	0.963
		-7.5m	-25ft.	-	1.000	0.999	0.992	0.979	0.963
		-10m	-33ft.	-	-	0.999	0.992	0.979	0.963
		-15m	-49ft.	-	-	-	0.992	0.979	0.963

HEATING				Pipe length					
				5m	7.5m	10m	15m	20m	25m
				16ft.	25ft.	33ft.	49ft.	66ft.	82ft.
Height difference H	* 1 Indoor unit is upper than outdoor unit	15m	49ft.	-	-	-	0.936	0.914	0.902
		10m	33ft.	-	-	0.972	0.936	0.914	0.902
		7.5m	25ft.	-	1.000	0.972	0.936	0.914	0.902
		5m	16ft.	1.018	1.000	0.972	0.936	0.914	0.902
	* 2 Indoor unit is under than outdoor unit	0m	0ft.	1.018	1.000	0.972	0.936	0.914	0.902
		-5m	-16ft.	1.013	0.995	0.967	0.932	0.910	0.898
		-7.5m	-25ft.	-	0.993	0.965	0.929	0.907	0.895
		-10m	-33ft.	-	-	0.962	0.927	0.905	0.893
		-15m	-49ft.	-	-	-	0.922	0.900	0.889

Height difference H



This table is created using the maximum capacity.

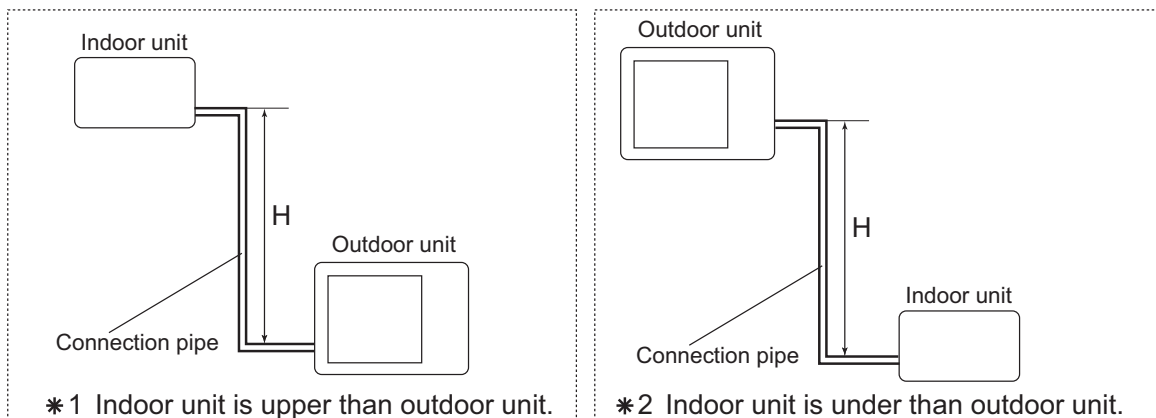
INDOOR UNIT 12000BTU (AOU36R)

COEFFICIENT OF COMPENSATION FOR HEIGHT DIFFERENCE

COOLING				Pipe length					
				5m	7.5m	10m	15m	20m	25m
				16ft.	25ft.	33ft.	49ft.	66ft.	82ft.
Height difference H	* 1 Indoor unit is upper than outdoor unit	15m	49ft.	-	-	-	0.959	0.943	0.924
		10m	33ft.	-	-	0.979	0.967	0.950	0.931
		7.5m	25ft.	-	0.988	0.983	0.971	0.954	0.935
		5m	16ft.	0.995	0.992	0.987	0.975	0.958	0.939
	* 2 Indoor unit is under than outdoor unit	0m	0ft.	1.003	1.000	0.995	0.982	0.966	0.947
		-5m	-16ft.	1.003	1.000	0.995	0.982	0.966	0.947
		-7.5m	-25ft.	-	1.000	0.995	0.982	0.966	0.947
		-10m	-33ft.	-	-	0.995	0.982	0.966	0.947
		-15m	-49ft.	-	-	-	0.982	0.966	0.947

HEATING				Pipe length					
				5m	7.5m	10m	15m	20m	25m
				16ft.	25ft.	33ft.	49ft.	66ft.	82ft.
Height difference H	* 1 Indoor unit is upper than outdoor unit	15m	49ft.	-	-	-	0.974	0.926	0.901
		10m	33ft.	-	-	0.994	0.974	0.926	0.901
		7.5m	25ft.	-	1.000	0.994	0.974	0.926	0.901
		5m	16ft.	1.003	1.000	0.994	0.974	0.926	0.901
	* 2 Indoor unit is under than outdoor unit	0m	0ft.	1.003	1.000	0.994	0.974	0.926	0.901
		-5m	-16ft.	0.998	0.995	0.989	0.969	0.921	0.897
		-7.5m	-25ft.	-	0.993	0.987	0.966	0.919	0.894
		-10m	-33ft.	-	-	0.984	0.964	0.917	0.892
		-15m	-49ft.	-	-	-	0.959	0.912	0.888

Height difference H



This table is created using the maximum capacity.

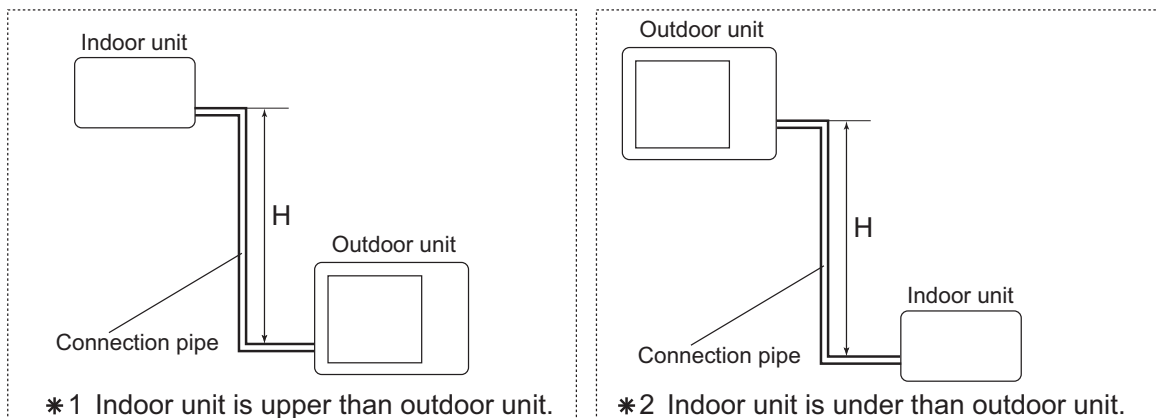
INDOOR UNIT 18000BTU (AOU36R)

COEFFICIENT OF COMPENSATION FOR HEIGHT DIFFERENCE

COOLING				Pipe length					
				5m	7.5m	10m	15m	20m	25m
				16ft.	25ft.	33ft.	49ft.	66ft.	82ft.
Height difference H	* 1 Indoor unit is upper than outdoor unit	15m	49ft.	-	-	-	0.968	0.961	0.954
		10m	33ft.	-	-	0.982	0.976	0.969	0.962
		7.5m	25ft.	-	0.988	0.986	0.980	0.973	0.966
		5m	16ft.	0.994	0.992	0.990	0.984	0.977	0.970
	* 2 Indoor unit is under than outdoor unit	0m	0ft.	1.002	1.000	0.998	0.992	0.985	0.978
		-5m	-16ft.	1.002	1.000	0.998	0.992	0.985	0.978
		-7.5m	-25ft.	-	1.000	0.998	0.992	0.985	0.978
		-10m	-33ft.	-	-	0.998	0.992	0.985	0.978
		-15m	-49ft.	-	-	-	0.992	0.985	0.978

HEATING				Pipe length					
				5m	7.5m	10m	15m	20m	25m
				16ft.	25ft.	33ft.	49ft.	66ft.	82ft.
Height difference H	* 1 Indoor unit is upper than outdoor unit	15m	49ft.	-	-	-	0.950	0.917	0.901
		10m	33ft.	-	-	0.990	0.950	0.917	0.901
		7.5m	25ft.	-	1.000	0.990	0.950	0.917	0.901
		5m	16ft.	1.000	1.000	0.990	0.950	0.917	0.901
	* 2 Indoor unit is under than outdoor unit	0m	0ft.	1.000	1.000	0.990	0.950	0.917	0.901
		-5m	-16ft.	0.995	0.995	0.986	0.945	0.912	0.896
		-7.5m	-25ft.	-	0.993	0.983	0.943	0.910	0.894
		-10m	-33ft.	-	-	0.981	0.940	0.908	0.892
		-15m	-49ft.	-	-	-	0.935	0.903	0.887

Height difference H



6. ADDITIONAL CHARGE CALCULATION

■ MODEL : AOU36R

REFRIGERANT TYPE		R410A
REFRIGERANT AMOUNT	lb. oz. (g)	7lb. 1 oz. (3200)

■ REFRIGERANT CHARGE

● 3 or 4 indoor units are connected

PIPE LENGTH	ft.	~164	197	230 (MAX)	0.27 oz./ft. 25g/m
	m	~50	60	70 (MAX)	
ADDITIONAL CHARGE	lb. oz.	0 (Chargeless)	8.9 oz.	1lb. 1.8 oz.	
	g	0 (Chargeless)	250	500	

● 2 indoor units are connected (with optional parts UTP-MU36A2)

PIPE LENGTH	ft.	~98	131	164 (MAX)	0.32 oz./ft. 30g/m
	m	~30	40	50 (MAX)	
ADDITIONAL CHARGE	lb. oz.	0 (Chargeless)	10.6 oz.	1lb. 5.2 oz.	
	g	0 (Chargeless)	300	600	

7. AIR FLOW

■ MODEL : AOU36R

● COOLING

Number of rotations (r.p.m)	Air flow	
850	m ³ /h	3600
	l/s	1000
	CFM	2119

● HEATING

Number of rotations (r.p.m)	Air flow	
900	m ³ /h	3800
	l/s	1056
	CFM	2237

OUTDOOR UNIT
AOU36R

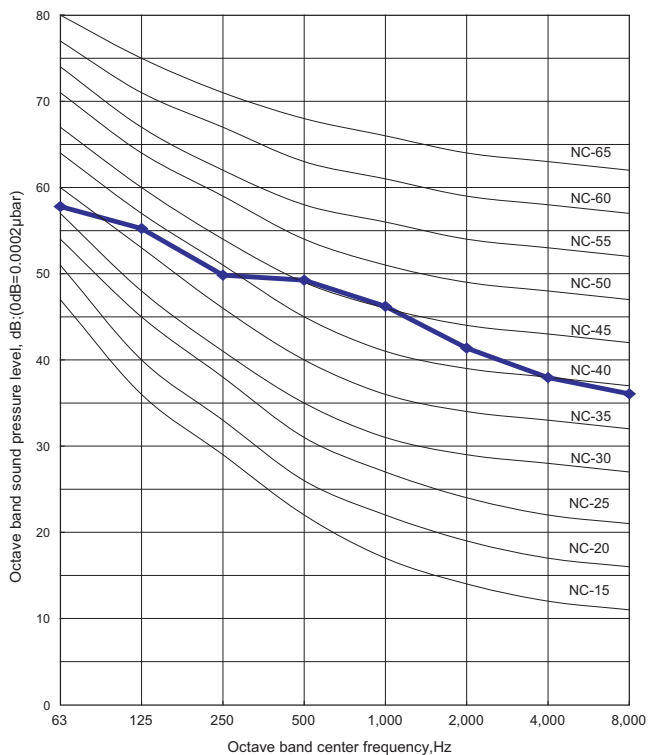
OUTDOOR UNIT
AOU36R

8. OPERATION NOISE

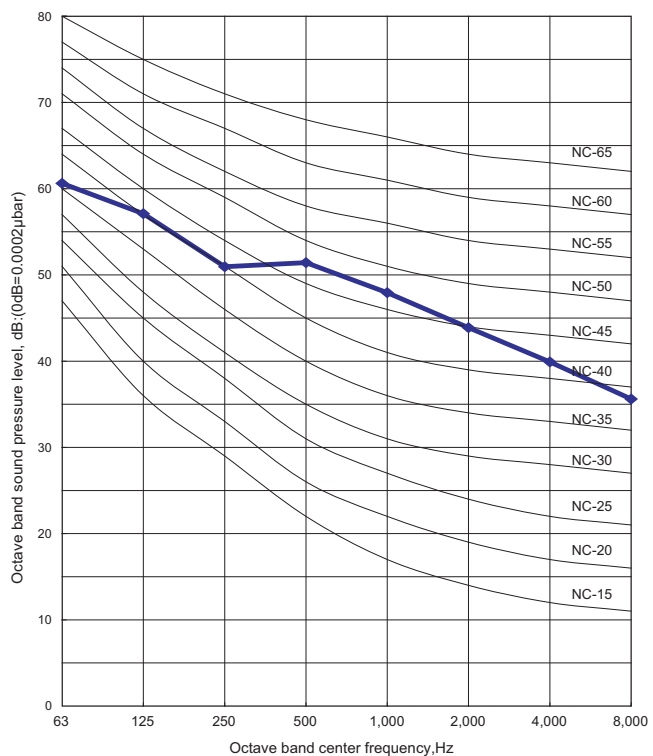
8-1. NOISE LEVEL CURVE

■ MODEL : AOU36R

● COOLING

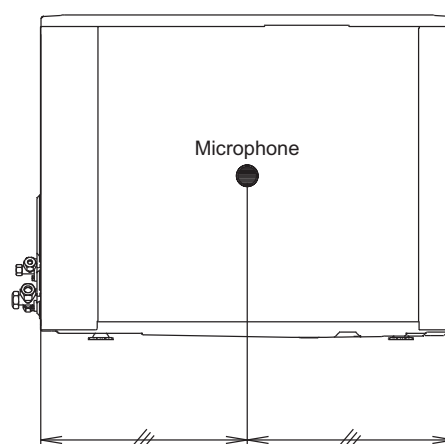
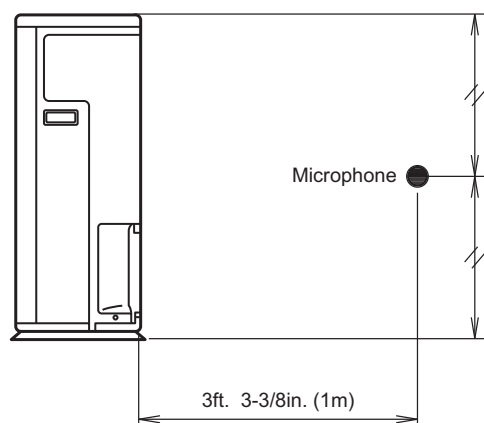


● HEATING



8-2. SOUND LEVEL CHECK POINT

OUTDOOR UNIT
AOJ36R



OUTDOOR UNIT
AOJ36R

9. ELECTRIC CHARACTERISTICS

OUTDOOR UNIT
AOU36R

Model name			AOU36R
Power supply	Voltage	V	230 / 208 ~
	Frequency	Hz	60
Max. operating current		A	19.8 / 19.8
Starting current		A	15.0
*1) Wiring spec.	Main fuse (Circuit breaker) current	A	30.0
	Power cable	AWG	12
	*2)Limited wiring length	ft.	55 / 49

OUTDOOR UNIT
AOU36R

*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.

10. SAFETY DEVICES

OUTDOOR UNIT
AOU36R

	Protection form	Model	
		AOU36R	
Circuit protection	Current fuse (MAIN PCB)	3.15A 250V	
		5A 250V	
	Current fuse (NEAR THE TERMINAL)	10A 250V	
Fan motor protection	Temperature Thermistor	212 ⁺²⁷ ₋₁₈ °F OFF 203 ⁺²⁷ ₋₁₈ °F ON	100 ⁺¹⁵ ₋₁₀ °C OFF 95 ⁺¹⁵ ₋₁₀ °C ON
Compressor protection	Temperature Thermistor	257 ^{±4} °F OFF 176 ^{±4} °F ON	125 ^{±2} °C OFF 80 ^{±2} °C ON
Refrigerant circuit protection	Pressure switch (1)	609 ^{±15} PSI OFF 464 ^{±22} PSI ON	4.2 ^{±0.1} MPa OFF 3.2 ^{±0.15} MPa ON

OUTDOOR UNIT
AOU36R

※Pressure switch (2) : For control device