

AIR CONDITIONER

**Cassette type**

# DESIGN & TECHNICAL MANUAL

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INDOOR



AUU18RGLX  
AUU24RGLX  
AUU30RGLX  
AUU36RGLX

---

OUTDOOR



AOU18RGLX  
AOU24RGLX  
AOU30RGLX  
AOU36RGLX

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**FUJITSU GENERAL LIMITED**

**Notices:**

- Product specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorized dealer.

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# **Part 1. INDOOR UNIT**

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## **CASSETTE TYPE:**

**AUU18RGLX**

**AUU24RGLX**

**AUU30RGLX**

**AUU36RGLX**

# 1. Specifications

Type				Cassette				
				Inverter, Heat pump				
Model name				AUU18RGLX		AUU24RGLX		
Power supply				208/230 V~ 60 Hz				
Power supply intake				Outdoor unit				
Available voltage range				187—253 V				
Capacity	Cooling	Rated		kW	5.28	7.03		
				Btu/h	18,000	24,000		
		Min.—Max.		kW	1.58—6.30	1.58—8.50		
				Btu/h	5,400—21,500	5,400—29,000		
	Heating	47°FDB (Outdoor temp.)	Rated	kW	6.15	7.91		
				Btu/h	21,000	27,000		
			Min.—Max.	kW	1.58—7.50	1.58—9.50		
				Btu/h	5,400—25,600	5,400—32,400		
		17°FDB (Outdoor temp.) *1	Rated	kW	3.60	4.81		
				Btu/h	12,300	16,400		
			Max.	kW	5.83	7.47		
				Btu/h	19,800	25,400		
5°FDB (Outdoor temp.) *2			Rated	kW	5.3	6.8		
				Btu/h	18,100	23,200		
Input power	Cooling	Rated		kW	1.35	1.88		
		Min.—Max.			0.50—2.05	0.58—2.77		
	Heating	47°FDB (Outdoor temp.)	Rated		1.47	2.15		
					Min.—Max.	0.48—2.27	0.50—2.88	
		17°FDB (Outdoor temp.) *1	Rated		1.15	1.72		
					5°FDB (Outdoor temp.) *2	Rated	2.29	3.33
	Fan	HIGH		W	16		21	
		MED			12	16		
		LOW			11	13		
		QUIET			7	9		
	Current	Cooling	Rated		A	6.1	8.4	
		Heating				6.6	9.6	
EER2		Cooling			kW/kW	3.93	3.75	
					Btu/hW	13.4	12.8	
COP2		Heating			kW/kW	4.18	3.70	
					Btu/hW	14.3	12.6	
SEER2						22.0	20.8	
HSPF2						Btu/hW	10.5	10.1
Power factor	Cooling			%	97			
	Heating				97			
Moisture removal				pints/h (L/h)	4.6 (2.2)	6.1 (2.9)		
Maximum operating current *3		Cooling			A	13.6	15.6	
		Heating				14.1	16.1	
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	618 (1,050)	677 (1,150)		
			MED		565 (960)	618 (1,050)		
			LOW		530 (900)	577 (980)		
			QUIET		459 (780)	512 (870)		
		Heating	HIGH		618 (1,050)	677 (1,150)		
			MED		565 (960)	618 (1,050)		
			LOW		530 (900)	577 (980)		
			QUIET		459 (780)	512 (870)		
	Type × Qty		Turbo fan × 1					
	Motor output		W		81			
Sound pressure level *4	Cooling		HIGH	dB (A)	33	35		
			MED		32	34		
			LOW		31	32		
			QUIET		28	29		
	Heating		HIGH		33	35		
			MED		32	34		
			LOW		31	32		
			QUIET		28	29		
Heat exchanger type		Dimensions (H × W × D)		in (mm)	Main 1: 8-1/4 × 83-3/4 × 1/2 (210 × 2,127 × 13.3) Main 2: 8-1/4 × 81-1/8 × 1/2 (210 × 2,061 × 13.3)			
		Fin pitch		FPI	21			
		Rows × Stages		2 × 10				
		Pipe type		Copper tube				
		Fin type		Aluminum				
Dimensions (H × W × D)	Net		in (mm)	9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840)				
	Gross			11-3/4 × 37-13/16 × 37-3/8 (298 × 960 × 950)				
Weight	Net		lb (kg)	53 (24)				
	Gross			62 (28)				
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (6.35)	Ø3/8 (9.52)			
		Gas		Ø1/2 (12.70)	Ø5/8 (15.88)			
				Flare				
Drain hose	Material			PVC				
	Tip diameter		in (mm)	Ø1 (25) (I.D.), Ø1-1/16 (26.6) (O.D.)				
Operation range	Cooling			°F (°C)	64 to 90 (18 to 32)			
				%RH	80 or less			
Heating				°F (°C)	60 to 86 (16 to 30)			

Type				Cassette	
				Inverter, Heat pump	
Model name				AUU18RGLX	AUU24RGLX
Cassette grille (Option)	Material			PS	
	Color			UTG-GCGF: White Approximate color of Munsell N 9.25/ UTG-LCGVCB: Black Approximate color of Munsell N 2	
	Dimensions (H × W × D)	Net	in (mm)	2-1/16 × 37-3/8 × 37-3/8 (53 × 950 × 950)	
		Gross		4-5/16 × 39-3/8 × 39-3/4 (110 × 1,000 × 1,010)	
	Weight	Net	lb (kg)	13 (6)	
Gross		22 (10)			
Remote controller (Option)				Wireless, Wired	
NOTES:					
<ul style="list-style-type: none"><li>Specifications are based on the following conditions:<ul style="list-style-type: none"><li>Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).</li><li>Heating: Indoor temperature of 70°FDB (21.11°CDB)/59°FWB (15°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).</li><li>*1: Heating (17°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB).</li><li>*2: Heating (5°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 5°FDB (-15.0°CDB)/4°FWB (-15.56°CWB).</li><li>Test conditions are based on AHRI 210/240 2023.</li><li>Pipe length: 24 ft 6 in (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)</li></ul></li><li>Protective function might work when using it outside the operation range.</li><li>*3: Maximum operating current is the total current of the indoor unit and the outdoor unit.</li><li>*4: Sound pressure level<ul style="list-style-type: none"><li>Measured values in manufacturer's anechoic chamber.</li><li>Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li></ul></li></ul>					

M condition						
Model name				AUU18RGLX		AUU24RGLX
Capacity	Cooling	Rated		kW	5.28	7.03
				Btu/h	18,000	24,000
		Min.—Max.		kW	1.58—6.30	1.58—8.50
				Btu/h	5,400—21,500	5,400—29,000
	Heating	47°FDB (Outdoor temp.)	Rated	kW	6.15	7.91
				Btu/h	21,000	27,000
			Min.—Max.	kW	1.58—7.50	1.58—9.50
				Btu/h	5,400—25,600	5,400—32,400
		17°FDB (Outdoor temp.) *	Rated	kW	3.60	4.81
				Btu/h	12,300	16,400
			Max.	kW	5.83	7.47
				Btu/h	19,800	25,400
Input power	Cooling	Rated		kW	1.35	1.88
		Min.—Max.			0.50—2.05	0.58—2.77
	Heating	47°FDB (Outdoor temp.)	Rated		1.47	2.15
		Min.—Max.			0.48—2.27	0.50—2.88
	17°FDB (Outdoor temp.) *	Rated	1.15		1.72	
		Fan	HIGH		W	16
			MED	12		16
			LOW	11		13
	QUIET		7	9		
	Current	Cooling	Rated		A	6.1
Heating		6.6				9.6
EER		Cooling	kW/kW	3.93	3.75	
			Btu/hW	13.4	12.8	
COP		Heating	kW/kW	4.19	3.69	
			Btu/hW	14.3	12.6	
SEER			Btu/hW	21.4	20.0	
HSPF				10.9	10.8	
Power factor	Cooling			%	97	
	Heating				97	

**NOTES:**

Specifications are based on the following conditions:

- Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).
- Heating: Indoor temperature of 70°FDB (21.11°CDB)/59°FWB (15°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).
- \*: Heating (17°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB).
- Test conditions are based on AHRI 210/240 2017.
- Pipe length: 24 ft 6 in (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)

Type				Cassette				
				Inverter, Heat pump				
Model name				AUU30RGLX		AUU36RGLX		
Power supply				208/230 V~ 60 Hz				
Power supply intake				Outdoor unit				
Available voltage range				187—253 V				
Capacity	Cooling	Rated		kW	8.79	10.55		
				Btu/h	30,000	36,000		
		Min.—Max.		kW	2.81—10.26	2.81—11.43		
				Btu/h	9,600—35,000	9,600—39,000		
	Heating	47 °FDB (Outdoor temp.)	Rated	kW	9.38	10.55		
				Btu/h	32,000	36,000		
			Min.—Max.	kW	2.70—11.43	2.70—14.07		
				Btu/h	9,200—39,000	9,200—48,000		
		17°FDB (Outdoor temp.) *1	Rated	kW	5.92	6.80		
				Btu/h	20,200	23,200		
			Max.	kW	8.88	11.08		
				Btu/h	30,300	37,700		
5°FDB (Outdoor temp.) *2			Rated	kW	7.62	7.80		
				Btu/h	26,000	26,600		
Input power	Cooling	Rated		kW	2.57	3.60		
		Min.—Max.			0.60—3.33	0.60—3.94		
		Heating	47°FDB (Outdoor temp.)		Rated Min.—Max.	2.38	2.73	
						0.52—3.27	0.52—4.19	
	17°FDB (Outdoor temp.) *1		Rated		1.96	2.25		
					5°FDB (Outdoor temp.) *2	Rated	3.31	3.36
	Fan	HIGH			W		52	87
		MED				39	52	
		LOW		31		39		
		QUIET		20		23		
	Current	Cooling	Rated		A	11.5	16.1	
		Heating				10.7	12.2	
EER2		Cooling	kW/kW		3.42	2.92		
			Btu/hW		11.7	10.0		
COP2		Heating	kW/kW		3.96	3.86		
			Btu/hW		13.5	13.2		
SEER2					18.7	18.0		
HSPF2					10.4	9.7		
Power factor	Cooling			%	97			
	Heating				97			
Moisture removal				pints/h (L/h)	6.3 (3.0)	7.8 (3.7)		
Maximum operating current *3		Cooling		A	15.6	17.6		
		Heating			16.1	19.1		
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	942 (1,600)	1,118 (1,900)		
			MED		824 (1,400)	936 (1,590)		
			LOW		748 (1,270)	836 (1,420)		
			QUIET		677 (1,150)	695 (1,180)		
		Heating	HIGH		942 (1,600)	1,118 (1,900)		
			MED		824 (1,400)	936 (1,590)		
			LOW		748 (1,270)	836 (1,420)		
			QUIET		677 (1,150)	695 (1,180)		
			Type × Qty		Turbo fan × 1			
			Motor output		W	81		
	Sound pressure level *4		Cooling	HIGH	dB (A)	40	44	
				MED		38	41	
LOW				36		38		
QUIET				33		34		
Heating			HIGH	40		44		
			MED	38		41		
			LOW	36		38		
			QUIET	33		34		
Heat exchanger type		Dimensions (H × W × D)		in (mm)	Main 1: 9-15/16 × 83-3/4 × 1/2 (252 × 2,127 × 13.3) Main 2: 9-15/16 × 81-1/8 × 1/2 (252 × 2,061 × 13.3)			
		Fin pitch		FPI	21			
		Rows × Stages			2 × 12			
		Pipe type			Copper tube			
		Fin type			Aluminum			
Dimensions (H × W × D)	Net			in (mm)	11-5/16 × 33-1/16 × 33-1/16 (288 × 840 × 840)			
	Gross				13-3/8 × 37-13/16 × 37-3/8 (340 × 960 × 950)			
Weight	Net			lb (kg)	57 (26)			
	Gross				66 (30)			
Connection pipe	Size	Liquid		in (mm)	Ø3/8 (9.52)			
		Gas			Ø5/8 (15.88)			
Drain hose	Method			Flare				
	Material			PVC				
Operation range	Tip diameter			in (mm)	Ø1 (25) (I.D.), Ø1-1/16 (26.6) (O.D.)			
	Cooling			°F (°C)	64 to 90 (18 to 32)			
Heating				%RH	80 or less			
				°F (°C)	60 to 86 (16 to 30)			
Cassette grille (Option)		Material			PS			
	Color			UTG-GCGF: White				
				Approximate color of Munsell N 9.25/				
				UTG-LCGVCB: Black				
	Approximate color of Munsell N 2							
	Dimensions (H × W × D)	Net	in (mm)	2-1/16 × 37-3/8 × 37-3/8 (53 × 950 × 950)				
		Gross		4-5/16 × 39-3/8 × 39-3/4 (110 × 1,000 × 1,010)				
Weight	Net	lb (kg)	13 (6)					
	Gross		22 (10)					
Remote controller (Option)				Wireless, Wired				



Type	Cassette	
	Inverter, Heat pump	
Model name	AUU30RGLX	AUU36RGLX
<b>NOTES:</b> <ul style="list-style-type: none"> <li>Specifications are based on the following conditions: <ul style="list-style-type: none"> <li>Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).</li> <li>Heating: Indoor temperature of 70°FDB (21.11°CDB)/59°FWB (15°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).</li> <li>*1: Heating (17°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB).</li> <li>*2: Heating (5°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 5°FDB (-15.0°CDB)/4°FWB (-15.56°CWB).</li> <li>Test conditions are based on AHRI 210/240 2023.</li> <li>Pipe length: 24 ft 6 in (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)</li> </ul> </li> <li>Protective function might work when using it outside the operation range.</li> <li>*3: Maximum operating current is the total current of the indoor unit and the outdoor unit.</li> <li>*4: Sound pressure level <ul style="list-style-type: none"> <li>Measured values in manufacturer's anechoic chamber.</li> <li>Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li> </ul> </li> </ul>		

M condition						
Model name				AUU30RGLX		AUU36RGLX
Capacity	Cooling	Rated		kW	8.79	10.55
				Btu/h	30,000	36,000
		Min.—Max.		kW	2.81—10.26	2.81—11.43
				Btu/h	9,600—35,000	9,600—39,000
	Heating	47 °FDB (Outdoor temp.)	Rated	kW	9.38	10.55
				Btu/h	32,000	36,000
			Min.—Max.	kW	2.70—11.43	2.70—14.07
				Btu/h	9,200—39,000	9,200—48,000
		17°FDB (Outdoor temp.) *	Rated	kW	5.92	6.80
				Btu/h	20,200	23,200
			Max.	kW	8.88	11.08
				Btu/h	30,300	37,700
Input power	Cooling	Rated		kW	2.57	3.60
		Min.—Max.			0.60—3.33	0.60—3.94
	Heating	47°FDB (Outdoor temp.)	Rated		2.38	2.73
			Min.—Max.		0.52—3.27	0.52—4.19
		17°FDB (Outdoor temp.) *	Rated		1.96	2.25
	Fan	HIGH		W	52	87
		MED			39	52
		LOW			31	39
		QUIET			20	23
	Current	Cooling	Rated		A	11.5
Heating		10.7				12.2
EER	Cooling		kW/kW	3.42	2.92	
			Btu/hW	11.7	10.0	
COP	Heating		kW/kW	3.96	3.85	
			Btu/hW	13.5	13.2	
SEER			Btu/hW	18.6	17.5	
HSPF				11.5	11.2	
Power factor	Cooling			%	97	
	Heating				97	
NOTES:						
• Specifications are based on the following conditions:						
– Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).						
– Heating: Indoor temperature of 70°FDB (21.11°CDB)/59°FWB (15°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).						
– *: Heating (17°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB).						
– Test conditions are based on AHRI 210/240 2017.						
– Pipe length: 24 ft 6 in (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)						

## 2-1. Models: AUU18RGLX and AUU24RGLX

[illegible]

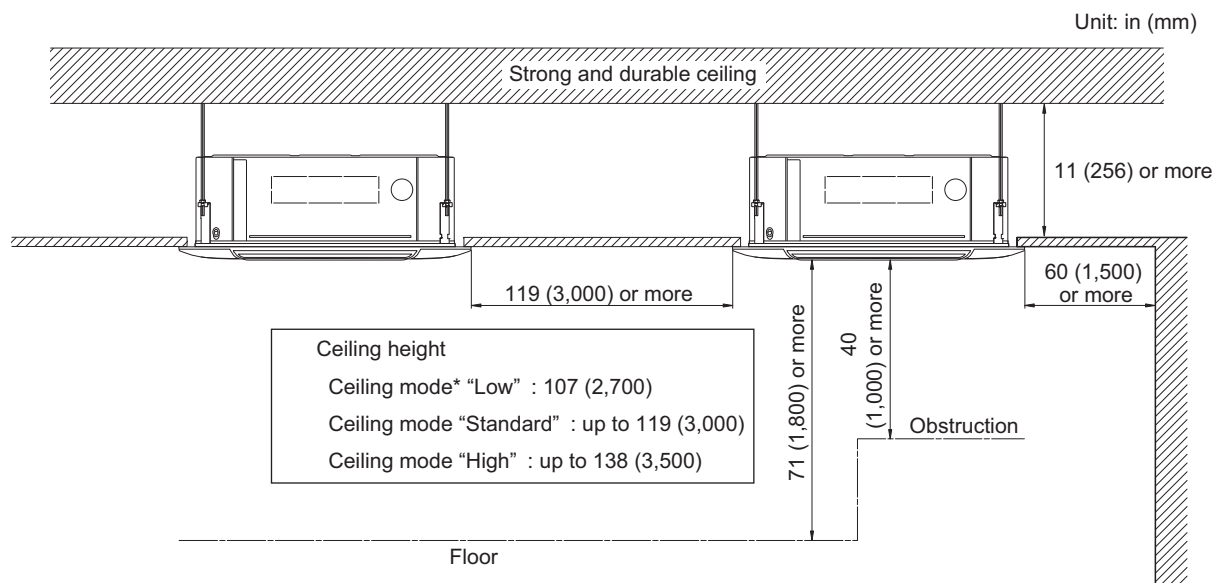


## 2-3. Installation space requirement

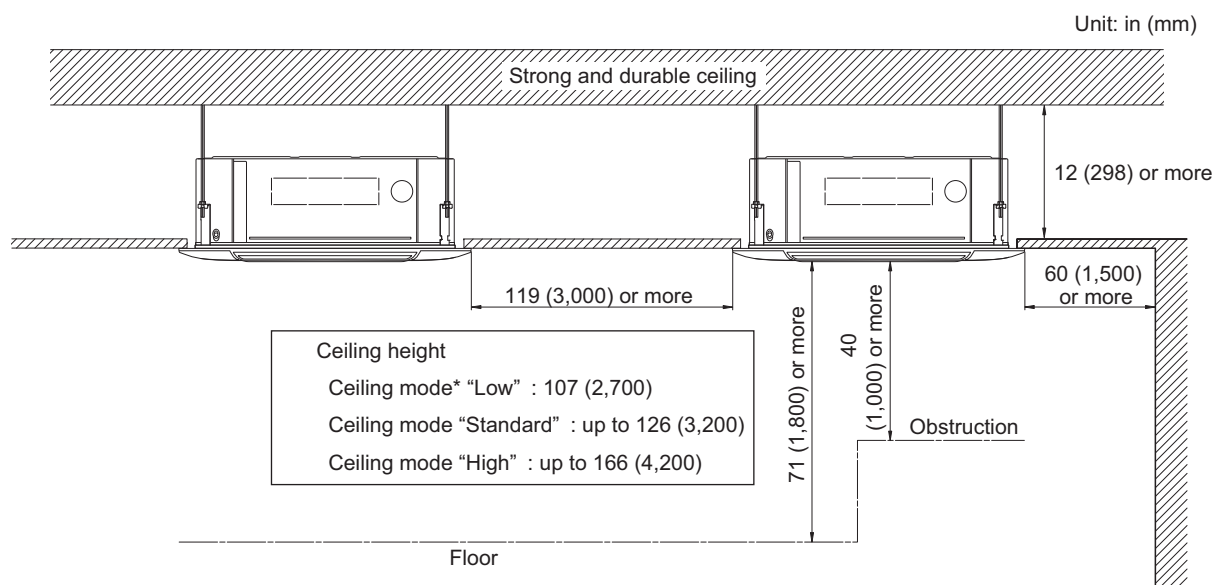
Provide sufficient installation space for product safety.

- For 4-direction setting:

- Models: AUU18RGLX and AUU24RGLX



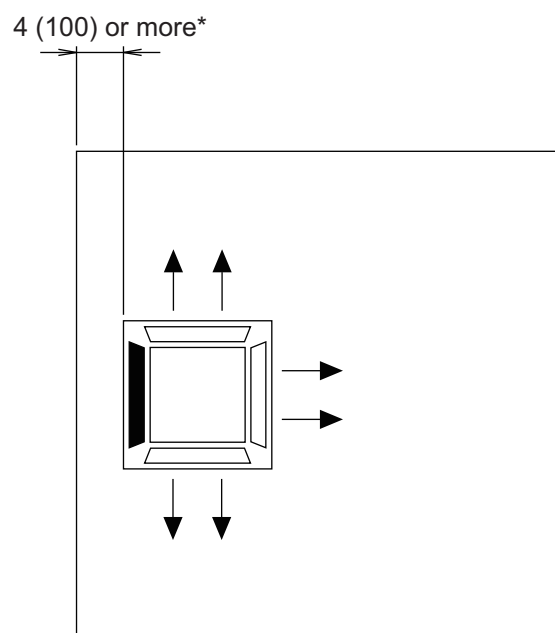
- Models: AUU30RGLX and AUU36RGLX



\*: For switching the ceiling mode, refer to ["Contents of function setting"](#) on page 60.

- For 3-direction setting:

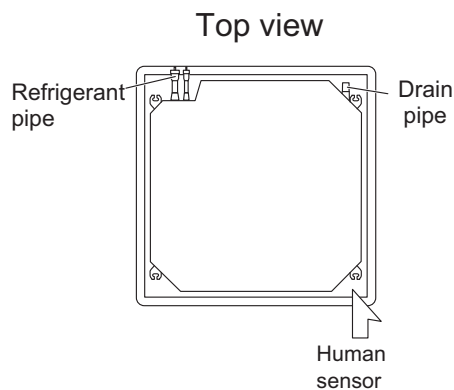
Unit: in (mm)

**NOTES:**

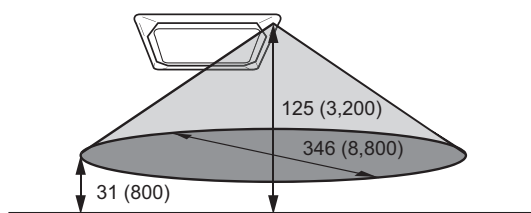
- To set "3-direction", optional Air Outlet Shutter Plate (UTR-YDZK) must be installed, and the "outlet-direction" need to be switched to "3-way" by remote controller.  
\*: When installing the indoor unit, be careful about the maintenance space.
- The ceiling height cannot be set in the 3-way outlet mode. Therefore, ceiling height setting change by function setting 20 is prohibited. For details, refer to ["Contents of function setting"](#) on page 60.

- **Human sensor (Option)**

**NOTE:** A separate device capable of controlling the human sensor (energy saving) function, such as the Touch Panel Controller, is required for use.



Example of sensitivity range:



Equal sensitivity range of temperature	Ceiling height	125 in (3,200 mm)
	Detecting position	31 in (800 mm) from floor surface

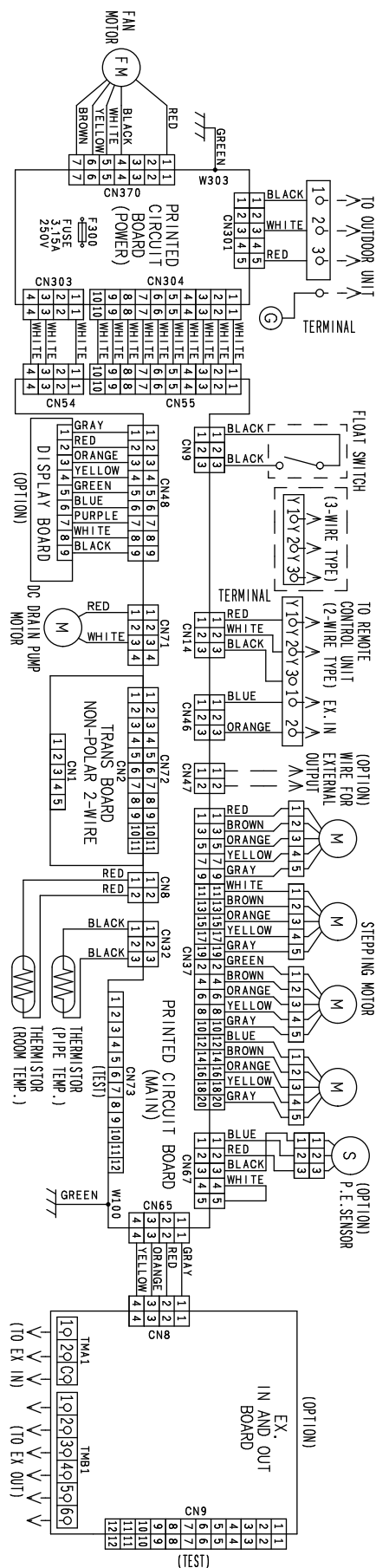
**NOTE:** When the installation height gets higher, the temperature sensitivity decreases.

**⚠ CAUTION**

Do not place large objects near the human sensor. Also keep heating units outside the sensor's detection area.

## 3. Wiring diagram

### 3-1. Models: AUU18RGLX, AUU24RGLX, AUU30RGLX, and AUU36RGLX



## 4. Capacity table

Capacity tables show each of following values calculated based on the outdoor temperature and the indoor temperature, under given Airflow Rate (AFR):

**For cooling capacity:** Total Capacity (TC), Sensible Heat Capacity (SHC), and Input Power (IP)

**For heating capacity:** Total Capacity (TC) and Input Power (IP)

### 4-1. Cooling capacity

#### ■ Model: AUU18RGLX

AFR				CFM							618										
Outdoor temperature	Indoor temperature																				
	°FDB	64			70			75			80			85			90				
	°FWB	54			60			63			67			71			73				
	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP		
		kBtu			kW			kBtu			kW			kBtu			kW				
	-5	15.98	13.14	0.23	17.81	13.22	0.23	19.03	14.40	0.23	20.24	15.58	0.22	21.46	15.52	0.22	22.66	16.52	0.23		
	5	15.62	12.98	0.47	17.40	13.05	0.47	18.59	14.22	0.47	19.76	15.38	0.48	20.97	15.32	0.49	22.14	16.31	0.49		
	15	15.35	12.58	0.64	17.10	12.66	0.65	18.26	13.78	0.65	19.42	14.91	0.66	20.61	14.85	0.67	21.76	15.81	0.67		
	32	14.63	12.34	0.82	16.29	12.42	0.84	17.40	13.53	0.84	18.50	14.63	0.85	19.64	14.57	0.86	20.74	15.52	0.87		
	41	14.39	12.05	0.83	16.03	12.11	0.84	17.13	13.19	0.86	18.22	14.26	0.86	19.33	14.20	0.87	20.41	15.14	0.88		
50	14.34	12.21	0.85	15.98	12.28	0.87	17.06	13.37	0.88	18.13	14.47	0.88	19.22	14.41	0.89	20.32	15.36	0.90			
59	15.55	12.78	0.94	17.33	12.86	0.95	18.51	14.00	0.96	19.67	15.14	0.97	20.88	15.09	0.98	22.05	16.05	0.99			
67	17.69	13.86	1.16	19.71	13.94	1.17	21.05	15.18	1.18	22.37	16.43	1.20	23.74	16.37	1.21	25.08	17.43	1.22			
77	17.08	13.59	1.29	19.02	13.67	1.31	20.32	14.88	1.32	21.60	16.09	1.33	22.92	16.03	1.35	24.21	17.08	1.36			
87	15.87	13.21	1.30	17.67	13.29	1.32	18.88	14.46	1.33	20.07	15.64	1.35	21.29	15.58	1.36	22.50	16.60	1.37			
95	14.23	12.07	1.30	15.85	12.15	1.32	16.93	13.21	1.34	18.00	14.30	1.35	19.10	14.24	1.37	20.18	15.16	1.38			
104	11.10	10.12	1.14	12.36	10.18	1.16	13.20	11.08	1.17	14.04	11.99	1.19	14.90	11.95	1.20	15.73	12.72	1.21			
115	9.80	9.70	1.13	10.92	9.76	1.15	11.66	10.64	1.16	12.40	11.50	1.17	13.15	11.46	1.19	13.89	12.21	1.20			

AFR		m³/h									1,050								
Indoor temperature																			
°CDB		17.8			21.1			23.9			26.7			29.4			32.2		
°CWB		12.2			15.6			17.2			19.4			21.7			22.8		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW		
	-20.6	4.68	3.85	0.23	5.22	3.88	0.23	5.58	4.22	0.23	5.93	4.57	0.22	6.29	4.55	0.22	6.64	4.84	0.23
	-15.0	4.58	3.80	0.47	5.10	3.83	0.47	5.45	4.17	0.47	5.79	4.51	0.48	6.15	4.49	0.49	6.49	4.78	0.49
	-10.0	4.50	3.69	0.64	5.01	3.71	0.65	5.35	4.04	0.65	5.69	4.37	0.66	6.04	4.35	0.67	6.38	4.64	0.67
	0.0	4.29	3.62	0.82	4.77	3.64	0.84	5.10	3.96	0.84	5.42	4.29	0.85	5.76	4.27	0.86	6.08	4.55	0.87
	5.0	4.22	3.53	0.83	4.70	3.55	0.84	5.02	3.87	0.86	5.34	4.18	0.86	5.67	4.16	0.87	5.98	4.44	0.88
	10.0	4.20	3.58	0.85	4.68	3.60	0.87	5.00	3.92	0.88	5.31	4.24	0.88	5.63	4.22	0.89	5.96	4.50	0.90
	15.0	4.56	3.74	0.94	5.08	3.77	0.95	5.43	4.10	0.96	5.77	4.44	0.97	6.12	4.42	0.98	6.46	4.70	0.99
	19.4	5.18	4.06	1.16	5.78	4.09	1.17	6.17	4.45	1.18	6.56	4.81	1.20	6.96	4.80	1.21	7.35	5.11	1.22
25.0	5.01	3.98	1.29	5.58	4.01	1.31	5.96	4.36	1.32	6.33	4.72	1.33	6.72	4.70	1.35	7.10	5.00	1.36	
30.0	4.65	3.87	1.30	5.18	3.90	1.32	5.53	4.24	1.33	5.88	4.58	1.35	6.24	4.57	1.36	6.59	4.87	1.37	
35.0	4.17	3.54	1.30	4.65	3.56	1.32	4.96	3.87	1.34	5.28	4.19	1.35	5.60	4.17	1.37	5.91	4.44	1.38	
40.0	3.25	2.96	1.14	3.62	2.98	1.16	3.87	3.25	1.17	4.11	3.51	1.19	4.37	3.50	1.20	4.61	3.73	1.21	
46.1	2.87	2.84	1.13	3.20	2.86	1.15	3.42	3.12	1.16	3.63	3.37	1.17	3.85	3.36	1.19	4.07	3.58	1.20	



# Model: AUU24RGLX

AFR	CFM	677
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Outdoor temperature	Indoor temperature																			
	°FDB	64			70			75			80			85			90			
	°FWB	54			60			63			67			71			73			
	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	
		kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	
	-5	20.45	15.81	0.33	22.78	15.89	0.33	24.32	17.31	0.33	25.87	18.72	0.34	27.42	18.66	0.34	28.98	19.86	0.34	
	5	19.99	15.64	0.58	22.26	15.72	0.59	23.78	17.12	0.60	25.29	18.52	0.60	26.81	18.46	0.61	28.33	19.65	0.61	
	15	19.76	15.34	0.76	22.01	15.43	0.77	23.51	16.79	0.78	25.01	18.16	0.79	26.51	18.10	0.80	28.01	19.27	0.80	
	32	18.79	15.13	0.98	20.94	15.21	1.00	22.36	16.57	1.01	23.79	17.93	1.02	25.22	17.85	1.03	26.66	19.01	1.04	
	41	18.62	14.81	1.01	20.74	14.90	1.03	22.16	16.23	1.04	23.57	17.55	1.05	24.99	17.48	1.06	26.40	18.63	1.07	
50	18.47	14.98	1.01	20.57	15.07	1.03	21.98	16.41	1.04	23.38	17.76	1.05	24.77	17.68	1.06	26.19	18.84	1.07		
59	19.65	15.21	1.09	21.88	15.32	1.11	23.37	16.68	1.12	24.86	18.04	1.13	26.36	17.97	1.14	27.86	19.14	1.15		
67	22.93	16.81	1.34	25.54	16.91	1.36	27.29	18.41	1.38	29.01	19.92	1.39	30.77	19.84	1.41	32.51	21.13	1.42		
77	22.80	17.02	1.49	25.41	17.10	1.52	27.14	18.63	1.53	28.86	20.16	1.55	30.60	20.07	1.57	32.34	21.39	1.58		
87	21.94	16.47	1.82	24.43	16.57	1.85	26.10	18.04	1.87	27.77	19.50	1.88	29.42	19.44	1.91	31.09	20.69	1.92		
95	18.96	14.39	1.81	21.13	14.47	1.84	22.55	15.77	1.86	24.00	17.06	1.88	25.44	17.00	1.90	26.87	18.10	1.92		
104	14.57	12.65	1.39	16.24	12.73	1.41	17.35	13.86	1.43	18.45	15.00	1.44	19.56	14.94	1.46	20.68	15.91	1.47		
115	13.09	12.39	1.33	14.59	12.46	1.35	15.58	13.58	1.37	16.59	14.68	1.38	17.57	14.62	1.39	18.58	15.57	1.41		

AFR	m <sup>3</sup> /h	1,150
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Indoor temperature																			
	°CDB	17.8			21.1			23.9			26.7			29.4			32.2		
	°CWB	12.2			15.6			17.2			19.4			21.7			22.8		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW		
	-20.6	5.99	4.63	0.33	6.68	4.66	0.33	7.13	5.07	0.33	7.58	5.49	0.34	8.04	5.47	0.34	8.49	5.82	0.34
	-15.0	5.86	4.58	0.58	6.53	4.61	0.59	6.97	5.02	0.60	7.41	5.43	0.60	7.86	5.41	0.61	8.30	5.76	0.61
	-10.0	5.79	4.50	0.76	6.45	4.52	0.77	6.89	4.92	0.78	7.33	5.32	0.79	7.77	5.30	0.80	8.21	5.65	0.80
	0.0	5.51	4.43	0.98	6.14	4.46	1.00	6.55	4.86	1.01	6.97	5.25	1.02	7.39	5.23	1.03	7.81	5.57	1.04
	5.0	5.46	4.34	1.01	6.08	4.37	1.03	6.49	4.76	1.04	6.91	5.14	1.05	7.32	5.12	1.06	7.74	5.46	1.07
	10.0	5.41	4.39	1.01	6.03	4.42	1.03	6.44	4.81	1.04	6.85	5.21	1.05	7.26	5.18	1.06	7.67	5.52	1.07
	15.0	5.76	4.46	1.09	6.41	4.49	1.11	6.85	4.89	1.12	7.29	5.29	1.13	7.72	5.27	1.14	8.16	5.61	1.15
	19.4	6.72	4.93	1.34	7.49	4.96	1.36	8.00	5.39	1.38	8.50	5.84	1.39	9.02	5.81	1.41	9.53	6.19	1.42
25.0	6.68	4.99	1.49	7.45	5.01	1.52	7.95	5.46	1.53	8.46	5.91	1.55	8.97	5.88	1.57	9.48	6.27	1.58	
30.0	6.43	4.83	1.82	7.16	4.86	1.85	7.65	5.29	1.87	8.14	5.72	1.88	8.62	5.70	1.91	9.11	6.06	1.92	
35.0	5.56	4.22	1.81	6.19	4.24	1.84	6.61	4.62	1.86	7.03	5.00	1.88	7.45	4.98	1.90	7.88	5.30	1.92	
40.0	4.27	3.71	1.39	4.76	3.73	1.41	5.08	4.06	1.43	5.41	4.40	1.44	5.73	4.38	1.46	6.06	4.66	1.47	
46.1	3.84	3.63	1.33	4.28	3.65	1.35	4.57	3.98	1.37	4.86	4.30	1.38	5.15	4.28	1.39	5.45	4.56	1.41	

# Model: AUU30RGLX

AFR	CFM	942
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Outdoor temperature	Indoor temperature																		
	°FDB	64			70			75			80			85			90		
	°FWB	54			60			63			67			71			73		
	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW
	-5	26.62	21.14	0.43	29.66	21.27	0.43	31.69	23.17	0.43	33.71	25.06	0.42	35.74	24.97	0.42	37.74	26.57	0.43
	5	26.01	20.87	0.89	28.98	21.00	0.90	30.96	22.87	0.90	32.94	24.74	0.92	34.92	24.65	0.93	36.87	26.23	0.94
	15	25.56	20.24	1.21	28.47	20.36	1.23	30.41	22.17	1.24	32.37	23.98	1.26	34.32	23.89	1.27	36.24	25.44	1.28
	32	24.36	19.86	1.56	27.12	19.98	1.59	28.98	21.76	1.61	30.84	23.54	1.62	32.70	23.44	1.64	34.53	24.96	1.65
	41	23.97	19.38	1.58	26.70	19.48	1.61	28.53	21.22	1.63	30.36	22.93	1.64	32.19	22.84	1.66	33.99	24.36	1.67
50	23.88	19.63	1.62	26.61	19.76	1.65	28.41	21.51	1.67	30.21	23.28	1.68	32.01	23.19	1.70	33.84	24.71	1.72	
59	25.89	20.55	1.78	28.86	20.68	1.81	30.83	22.52	1.83	32.79	24.36	1.85	34.77	24.27	1.87	36.72	25.82	1.89	
67	29.46	22.30	2.20	32.82	22.43	2.23	35.06	24.42	2.26	37.29	26.42	2.28	39.54	26.33	2.30	41.76	28.04	2.33	
77	28.44	21.85	2.45	31.68	21.98	2.49	33.84	23.93	2.51	36.00	25.88	2.54	38.16	25.79	2.56	40.32	27.47	2.59	
87	26.43	21.25	2.48	29.43	21.38	2.51	31.44	23.27	2.54	33.45	25.15	2.56	35.46	25.06	2.59	37.47	26.71	2.61	
95	23.70	19.41	2.48	26.40	19.54	2.52	28.20	21.25	2.54	30.00	23.00	2.57	31.80	22.90	2.60	33.60	24.39	2.62	
104	18.48	16.27	2.18	20.58	16.37	2.21	21.98	17.83	2.24	23.40	19.29	2.26	24.81	19.22	2.28	26.19	20.46	2.30	
115	16.32	15.61	2.16	18.18	15.70	2.19	19.43	17.11	2.21	20.67	18.49	2.24	21.90	18.43	2.26	23.13	19.63	2.28	

AFR	m <sup>3</sup> /h	1,600
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Indoor temperature																				
	°CDB	17.8			21.1			23.9			26.7			29.4			32.2			
	°CWB	12.2			15.6			17.2			19.4			21.7			22.8			
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	
		kW			kW			kW			kW			kW			kW			
	-20.6	7.80	6.20	0.43	8.69	6.23	0.43	9.29	6.79	0.43	9.88	7.35	0.42	10.47	7.32	0.42	11.06	7.79	0.43	
	-15.0	7.62	6.12	0.89	8.49	6.15	0.90	9.07	6.70	0.90	9.65	7.25	0.92	10.23	7.22	0.93	10.81	7.69	0.94	
	-10.0	7.49	5.93	1.21	8.34	5.97	1.23	8.91	6.50	1.24	9.49	7.03	1.26	10.06	7.00	1.27	10.62	7.46	1.28	
	0.0	7.14	5.82	1.56	7.95	5.86	1.59	8.49	6.38	1.61	9.04	6.90	1.62	9.58	6.87	1.64	10.12	7.32	1.65	
	5.0	7.03	5.68	1.58	7.83	5.71	1.61	8.36	6.22	1.63	8.90	6.72	1.64	9.43	6.69	1.66	9.96	7.14	1.67	
	10.0	7.00	5.75	1.62	7.80	5.79	1.65	8.33	6.30	1.67	8.85	6.82	1.68	9.38	6.80	1.70	9.92	7.24	1.72	
	15.0	7.59	6.02	1.78	8.46	6.06	1.81	9.03	6.60	1.83	9.61	7.14	1.85	10.19	7.11	1.87	10.76	7.57	1.89	
	19.4	8.63	6.54	2.20	9.62	6.57	2.23	10.27	7.16	2.26	10.93	7.74	2.28	11.59	7.72	2.30	12.24	8.22	2.33	
	25.0	8.34	6.41	2.45	9.28	6.44	2.49	9.92	7.01	2.51	10.55	7.59	2.54	11.18	7.56	2.56	11.82	8.05	2.59	
	30.0	7.75	6.23	2.48	8.63	6.27	2.51	9.21	6.82	2.54	9.80	7.37	2.56	10.39	7.34	2.59	10.98	7.83	2.61	
35.0	6.95	5.69	2.48	7.74	5.73	2.52	8.26	6.23	2.54	8.79	6.74	2.57	9.32	6.71	2.60	9.85	7.15	2.62		
40.0	5.42	4.77	2.18	6.03	4.80	2.21	6.44	5.22	2.24	6.86	5.65	2.26	7.27	5.63	2.28	7.68	6.00	2.30		
46.1	4.78	4.57	2.16	5.33	4.60	2.19	5.69	5.02	2.21	6.06	5.42	2.24	6.42	5.40	2.26	6.78	5.75	2.28		

# Model: AUU36RGLX

AFR	CFM	1,118
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Indoor temperature																			
Outdoor temperature	°FDB	64			70			75			80			85			90		
	°FWB	54			60			63			67			71			73		
	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW	kBtu		kW
	-5	30.68	25.32	0.59	34.16	25.46	0.60	36.48	27.73	0.60	38.80	29.99	0.61	41.13	29.89	0.61	43.46	31.81	0.62
	5	29.99	25.05	1.11	33.40	25.19	1.13	35.66	27.43	1.14	37.93	29.68	1.15	40.21	29.57	1.16	42.49	31.48	1.17
	15	29.64	24.58	1.46	33.01	24.71	1.47	35.26	26.91	1.49	37.51	29.10	1.51	39.76	29.00	1.52	42.01	30.87	1.53
	32	28.19	24.24	1.88	31.40	24.37	1.91	33.54	26.55	1.93	35.68	28.72	1.95	37.83	28.59	1.97	39.99	30.46	1.99
	41	27.93	23.73	1.94	31.11	23.86	1.96	33.24	26.00	1.99	35.36	28.11	2.01	37.48	28.01	2.02	39.60	29.85	2.05
	50	27.71	24.00	1.94	30.86	24.13	1.97	32.96	26.29	1.99	35.07	28.45	2.02	37.16	28.32	2.03	39.28	30.19	2.05
59	29.48	24.37	2.08	32.82	24.54	2.12	35.05	26.72	2.14	37.29	28.89	2.16	39.54	28.79	2.19	41.79	30.66	2.20	
67	34.39	26.92	2.58	38.31	27.09	2.61	40.93	29.49	2.64	43.52	31.92	2.67	46.16	31.78	2.70	48.76	33.86	2.72	
77	34.20	27.26	2.86	38.12	27.40	2.91	40.71	29.85	2.94	43.30	32.29	2.97	45.90	32.16	3.00	48.50	34.26	3.02	
87	32.91	26.38	3.49	36.64	26.55	3.54	39.15	28.89	3.57	41.66	31.24	3.61	44.13	31.14	3.65	46.64	33.14	3.69	
95	28.45	23.05	3.47	31.69	23.18	3.53	33.83	25.26	3.57	36.00	27.33	3.60	38.15	27.23	3.63	40.31	29.00	3.68	
104	21.86	20.26	2.66	24.36	20.40	2.70	26.02	22.20	2.73	27.68	24.03	2.76	29.35	23.93	2.79	31.02	25.49	2.82	
115	19.64	19.85	2.55	21.89	19.95	2.59	23.37	21.76	2.61	24.88	23.52	2.64	26.36	23.42	2.67	27.87	24.95	2.70	

AFR	m <sup>3</sup> /h	1,900
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Indoor temperature																			
	°CDB	17.8			21.1			23.9			26.7			29.4			32.2		
	°CWB	12.2			15.6			17.2			19.4			21.7			22.8		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW		
	-20.6	8.99	7.42	0.59	10.01	7.46	0.60	10.69	8.13	0.60	11.37	8.79	0.61	12.05	8.76	0.61	12.74	9.32	0.62
	-15.0	8.79	7.34	1.11	9.79	7.38	1.13	10.45	8.04	1.14	11.12	8.70	1.15	11.79	8.67	1.16	12.45	9.23	1.17
	-10.0	8.69	7.20	1.46	9.67	7.24	1.47	10.33	7.89	1.49	10.99	8.53	1.51	11.65	8.50	1.52	12.31	9.05	1.53
	0.0	8.26	7.10	1.88	9.20	7.14	1.91	9.83	7.78	1.93	10.46	8.42	1.95	11.09	8.38	1.97	11.72	8.93	1.99
	5.0	8.19	6.95	1.94	9.12	6.99	1.96	9.74	7.62	1.99	10.36	8.24	2.01	10.98	8.21	2.02	11.61	8.75	2.05
	10.0	8.12	7.03	1.94	9.04	7.07	1.97	9.66	7.71	1.99	10.28	8.34	2.02	10.89	8.30	2.03	11.51	8.85	2.05
	15.0	8.64	7.14	2.08	9.62	7.19	2.12	10.27	7.83	2.14	10.93	8.47	2.16	11.59	8.44	2.19	12.25	8.99	2.20
	19.4	10.08	7.89	2.58	11.23	7.94	2.61	12.00	8.64	2.64	12.76	9.35	2.67	13.53	9.32	2.70	14.29	9.92	2.72
	25.0	10.02	7.99	2.86	11.17	8.03	2.91	11.93	8.75	2.94	12.69	9.46	2.97	13.45	9.42	3.00	14.22	10.04	3.02
	30.0	9.65	7.73	3.49	10.74	7.78	3.54	11.47	8.47	3.57	12.21	9.16	3.61	12.93	9.13	3.65	13.67	9.71	3.69
	35.0	8.34	6.75	3.47	9.29	6.79	3.53	9.92	7.40	3.57	10.55	8.01	3.60	11.18	7.98	3.63	11.81	8.50	3.68
	40.0	6.41	5.94	2.66	7.14	5.98	2.70	7.63	6.51	2.73	8.11	7.04	2.76	8.60	7.01	2.79	9.09	7.47	2.82
	46.1	5.76	5.82	2.55	6.42	5.85	2.59	6.85	6.38	2.61	7.29	6.89	2.64	7.72	6.86	2.67	8.17	7.31	2.70

## 4-2. Heating capacity

**NOTE:** Values mentioned in the table are calculated based on the maximum capacity.

### ■ Model: AUU18RGLX

AFR	CFM	618
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		Indoor temperature										
		°FDB	60		65		70		72		75	
Outdoor temperature	°FDB	°FWB	TC kBtu/h	IP kW	TC kBtu/h	IP kW	TC kBtu/h	IP kW	TC kBtu/h	IP kW	TC kBtu/h	IP kW
	-5	-7	16.54	2.19	16.15	2.24	15.75	2.28	15.37	2.33	14.98	2.37
	5	3	19.06	2.21	18.61	2.25	18.15	2.30	17.71	2.35	17.26	2.39
	14	12	20.09	2.21	19.61	2.26	19.13	2.31	18.65	2.35	18.17	2.40
	17	21	20.89	2.22	20.39	2.27	19.89	2.31	19.39	2.36	18.89	2.41
	23	19	21.83	2.23	21.30	2.28	20.78	2.33	20.25	2.37	19.75	2.42
	32	28	23.13	2.21	22.58	2.25	22.03	2.30	21.49	2.35	20.94	2.39
	41	37	25.67	2.19	25.05	2.24	24.43	2.29	23.84	2.33	23.22	2.37
	47	43	26.88	2.18	26.24	2.23	25.60	2.27	24.96	2.32	24.32	2.36
	50	47	27.70	2.16	27.04	2.21	26.38	2.25	25.71	2.30	25.05	2.34
59	50	24.82	1.65	24.23	1.68	23.63	1.72	23.06	1.75	22.47	1.78	

AFR	m <sup>3</sup> /h	1,050
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		Indoor temperature										
		°CDB	15.6		18.3		21.1		22.2		23.9	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-20.6	-21.7	4.85	2.19	4.73	2.24	4.62	2.28	4.51	2.33	4.39	2.37
	-15.0	-16.1	5.59	2.21	5.45	2.25	5.32	2.30	5.19	2.35	5.06	2.39
	-10.0	-11.1	5.89	2.21	5.75	2.26	5.61	2.31	5.47	2.35	5.33	2.40
	-8.3	-6.1	6.12	2.22	5.97	2.27	5.83	2.31	5.68	2.36	5.54	2.41
	-5.0	-7.2	6.40	2.23	6.24	2.28	6.09	2.33	5.94	2.37	5.79	2.42
	0.0	-2.2	6.78	2.21	6.62	2.25	6.46	2.30	6.30	2.35	6.14	2.39
	5.0	2.8	7.52	2.19	7.34	2.24	7.16	2.29	6.99	2.33	6.81	2.37
	8.3	6.1	7.88	2.18	7.69	2.23	7.50	2.27	7.32	2.32	7.13	2.36
10.0	8.3	8.12	2.16	7.92	2.21	7.73	2.25	7.54	2.30	7.34	2.34	
15.0	10.0	7.28	1.65	7.10	1.68	6.93	1.72	6.76	1.75	6.59	1.78	

### ■ Model: AUU24RGLX

AFR	CFM	677
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		Indoor temperature										
		°FDB	60		65		70		72		75	
Outdoor temperature	°FDB	°FWB	TC kBtu/h	IP kW	TC kBtu/h	IP kW	TC kBtu/h	IP kW	TC kBtu/h	IP kW	TC kBtu/h	IP kW
	-5	-7	21.01	3.20	20.51	3.26	20.00	3.27	19.50	3.40	19.00	3.47
	5	3	24.57	3.22	23.98	3.29	23.39	3.35	22.81	3.43	22.22	3.49
	14	12	24.75	3.25	24.16	3.32	23.57	3.39	22.99	3.46	22.37	3.53
	17	21	26.75	3.29	26.11	3.36	25.48	3.43	24.84	3.50	24.18	3.57
	23	19	27.27	3.35	26.61	3.42	25.97	3.48	25.31	3.56	24.67	3.62
	32	28	31.99	3.28	31.23	3.35	30.46	3.42	29.70	3.48	28.93	3.56
	41	37	33.62	3.13	32.83	3.20	32.02	3.26	31.23	3.33	30.41	3.39
	47	43	34.03	2.76	33.22	2.82	32.40	2.88	31.58	2.93	30.79	2.99
	50	47	35.05	2.62	34.24	2.68	33.39	2.74	32.55	2.79	31.71	2.84
59	50	31.28	2.10	30.54	2.14	29.77	2.18	29.03	2.23	28.29	2.26	

AFR	m <sup>3</sup> /h	1,150
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		Indoor temperature										
		°CDB	15.6		18.3		21.1		22.2		23.9	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-20.6	-21.7	6.16	3.20	6.01	3.26	5.86	3.27	5.72	3.40	5.57	3.47
	-15.0	-16.1	7.20	3.22	7.03	3.29	6.86	3.35	6.68	3.43	6.51	3.49
	-10.0	-11.1	7.25	3.25	7.08	3.32	6.91	3.39	6.74	3.46	6.56	3.53
	-8.3	-6.1	7.84	3.29	7.65	3.36	7.47	3.43	7.28	3.50	7.09	3.57
	-5.0	-7.2	7.99	3.35	7.80	3.42	7.61	3.48	7.42	3.56	7.23	3.62
	0.0	-2.2	9.38	3.28	9.15	3.35	8.93	3.42	8.70	3.48	8.48	3.56
	5.0	2.8	9.85	3.13	9.62	3.20	9.38	3.26	9.15	3.33	8.91	3.39
	8.3	6.1	9.97	2.76	9.74	2.82	9.50	2.88	9.26	2.93	9.02	2.99
10.0	8.3	10.27	2.62	10.03	2.68	9.79	2.74	9.54	2.79	9.29	2.84	
15.0	10.0	9.17	2.10	8.95	2.14	8.73	2.18	8.51	2.23	8.29	2.26	

## Model: AUU30RGLX

AFR		CFM						942					
Indoor temperature													
		°FDB	60		65		70		72		75		
Outdoor temperature	°FDB	°FWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	
			kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	
	-5	-7	25.20	3.15	24.60	3.22	23.99	3.28	23.42	3.35	22.81	3.41	
	5	3	29.04	3.18	28.34	3.24	27.65	3.31	26.99	3.37	26.29	3.44	
	14	12	30.61	3.19	29.88	3.25	29.15	3.32	28.41	3.38	27.68	3.45	
	17	21	31.82	3.20	31.06	3.26	30.30	3.33	29.54	3.40	28.78	3.46	
	23	19	33.25	3.21	32.45	3.28	31.65	3.35	30.85	3.41	30.09	3.48	
	32	28	35.24	3.18	34.40	3.24	33.57	3.31	32.73	3.37	31.90	3.44	
	41	37	39.10	3.16	38.16	3.22	37.22	3.29	36.32	3.35	35.38	3.41	
	47	43	40.95	3.14	39.98	3.20	39.00	3.27	38.03	3.34	37.05	3.40	
50	47	42.20	3.11	41.19	3.18	40.18	3.24	39.17	3.31	38.16	3.36		
59	50	37.82	2.37	36.91	2.42	36.01	2.47	35.13	2.52	34.23	2.55		

AFR		m³/h				1,600							
Indoor temperature													
		°CDB	15.6		18.3		21.1		22.2		23.9		
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	
			kW		kW		kW		kW		kW		
	-20.6	-21.7	7.39	3.15	7.21	3.22	7.03	3.28	6.86	3.35	6.69	3.41	
	-15.0	-16.1	8.51	3.18	8.31	3.24	8.10	3.31	7.91	3.37	7.71	3.44	
	-10.0	-11.1	8.97	3.19	8.76	3.25	8.54	3.32	8.33	3.38	8.11	3.45	
	-8.3	-6.1	9.32	3.20	9.10	3.26	8.88	3.33	8.66	3.40	8.43	3.46	
	-5.0	-7.2	9.75	3.21	9.51	3.28	9.28	3.35	9.04	3.41	8.82	3.48	
	0.0	-2.2	10.33	3.18	10.08	3.24	9.84	3.31	9.59	3.37	9.35	3.44	
	5.0	2.8	11.46	3.16	11.19	3.22	10.91	3.29	10.64	3.35	10.37	3.41	
	8.3	6.1	12.00	3.14	11.72	3.20	11.43	3.27	11.14	3.34	10.86	3.40	
10.0	8.3	12.37	3.11	12.07	3.18	11.78	3.24	11.48	3.31	11.19	3.36		
15.0	10.0	11.08	2.37	10.82	2.42	10.55	2.47	10.30	2.52	10.03	2.55		

## Model: AUU36RGLX

AFR		CFM				1,118							
Indoor temperature													
		°FDB	60		65		70		72		75		
Outdoor temperature	°FDB	°FWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	
			kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	
	-5	-7	31.13	4.66	30.39	4.75	29.64	4.76	28.90	4.95	28.16	5.05	
	5	3	36.40	4.69	35.53	4.79	34.66	4.88	33.79	4.99	32.92	5.09	
	14	12	36.66	4.74	35.79	4.84	34.92	4.94	34.05	5.04	33.15	5.14	
	17	21	39.63	4.80	38.69	4.89	37.75	5.00	36.81	5.10	35.83	5.19	
	23	19	40.40	4.87	39.42	4.98	38.48	5.08	37.49	5.18	36.55	5.28	
	32	28	47.40	4.78	46.26	4.88	45.13	4.98	43.99	5.08	42.86	5.18	
	41	37	49.81	4.56	48.64	4.66	47.43	4.75	46.26	4.85	45.05	4.94	
	47	43	50.42	4.02	49.21	4.11	48.00	4.19	46.79	4.27	45.62	4.36	
50	47	51.93	3.82	50.72	3.90	49.47	3.99	48.23	4.06	46.98	4.14		
59	50	46.34	3.05	45.24	3.11	44.11	3.17	43.01	3.24	41.91	3.29		

AFR		m³/h						1,900					
Indoor temperature													
		°CDB	15.6		18.3		21.1		22.2		23.9		
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	
			kW		kW		kW		kW		kW		
	-20.6	-21.7	9.12	4.66	8.91	4.75	8.69	4.76	8.47	4.95	8.25	5.05	
	-15.0	-16.1	10.67	4.69	10.41	4.79	10.16	4.88	9.90	4.99	9.65	5.09	
	-10.0	-11.1	10.74	4.74	10.49	4.84	10.24	4.94	9.98	5.04	9.71	5.14	
	-8.3	6.1	11.61	4.80	11.34	4.89	11.06	5.00	10.79	5.10	10.50	5.19	
	-5.0	-7.2	11.84	4.87	11.55	4.98	11.28	5.08	10.99	5.18	10.71	5.28	
	0.0	-2.2	13.89	4.78	13.56	4.88	13.23	4.98	12.89	5.08	12.56	5.18	
	5.0	2.8	14.60	4.56	14.26	4.66	13.90	4.75	13.56	4.85	13.20	4.94	
	8.3	6.1	14.78	4.02	14.42	4.11	14.07	4.19	13.71	4.27	13.37	4.36	
10.0	8.3	15.22	3.82	14.87	3.90	14.50	3.99	14.13	4.06	13.77	4.14		
15.0	10.0	13.58	3.05	13.26	3.11	12.93	3.17	12.61	3.24	12.28	3.29		

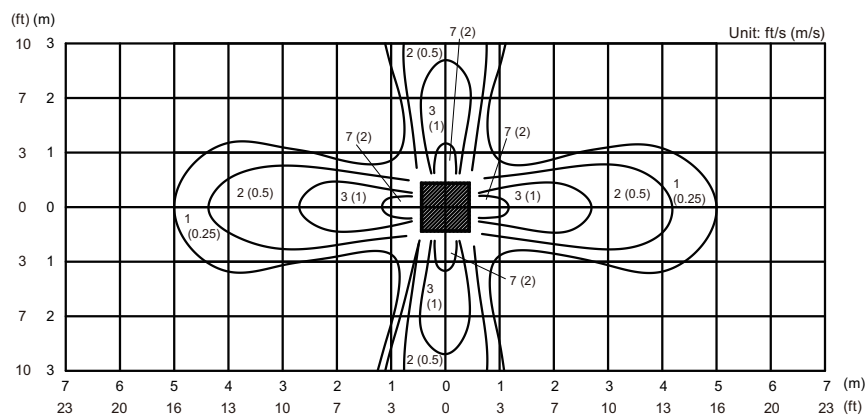
## 5. Fan performance

### 5-1. Air velocity distributions

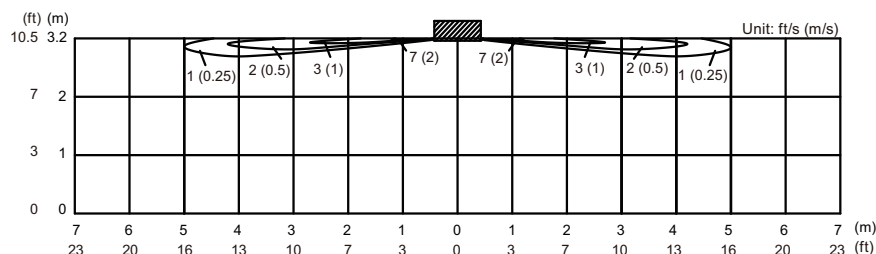
#### ■ Model: AUU18RGLX (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

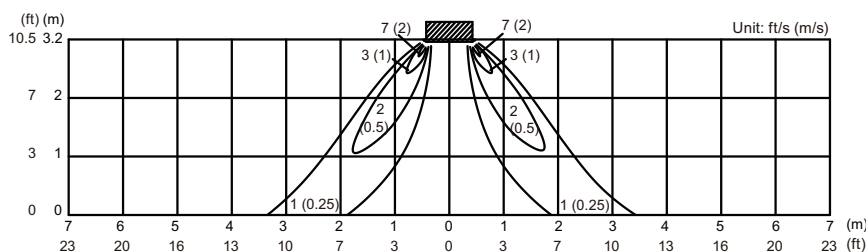
Top view  
Horizontal louver: position 1



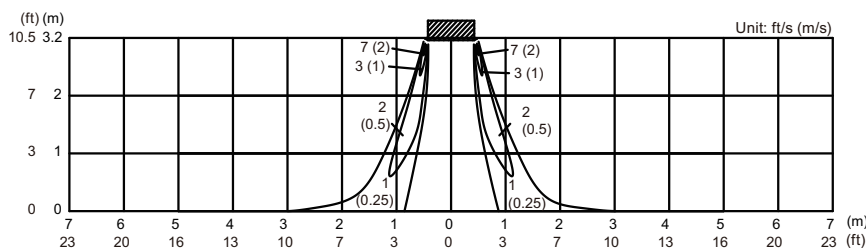
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



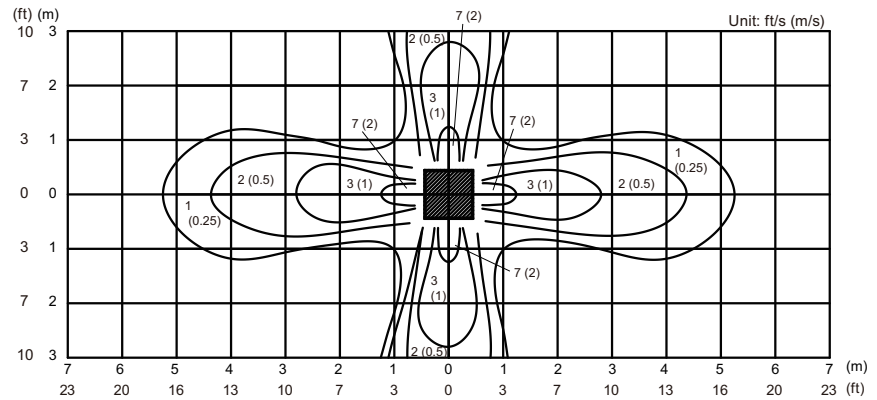
Side view  
Horizontal louver: position 4



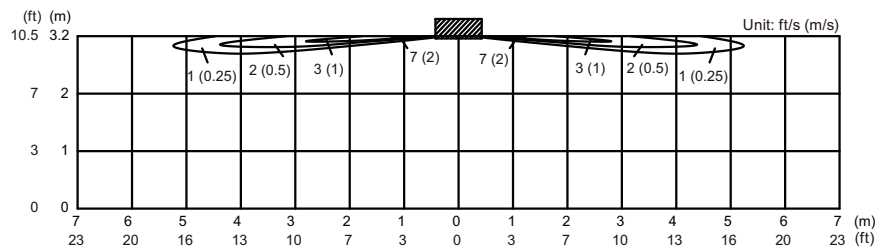
# Model: AUU24RGLX (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

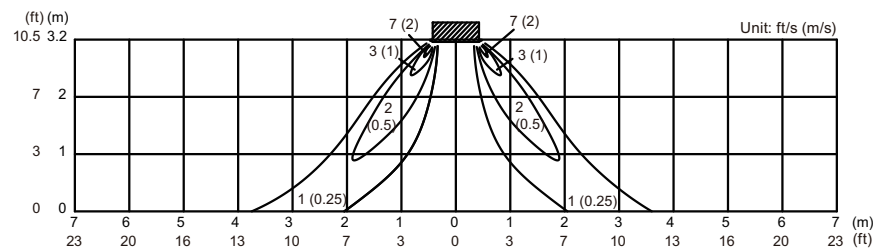
Top view  
Horizontal louver: position 1



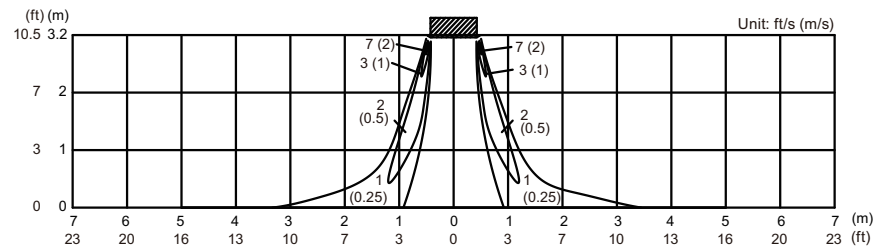
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



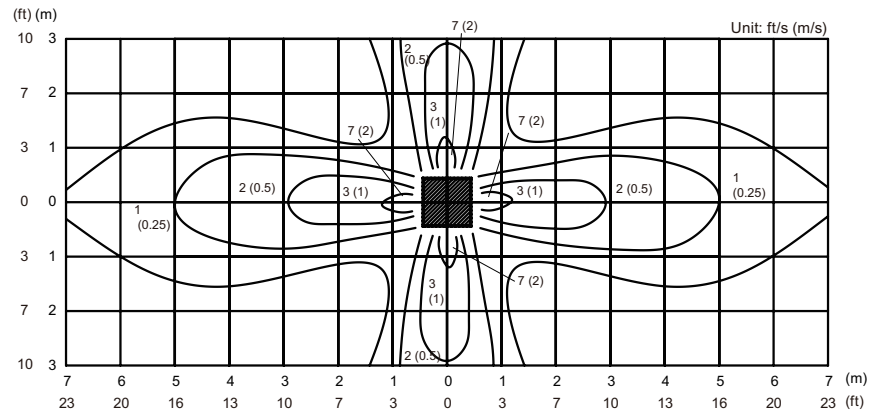
Side view  
Horizontal louver: position 4



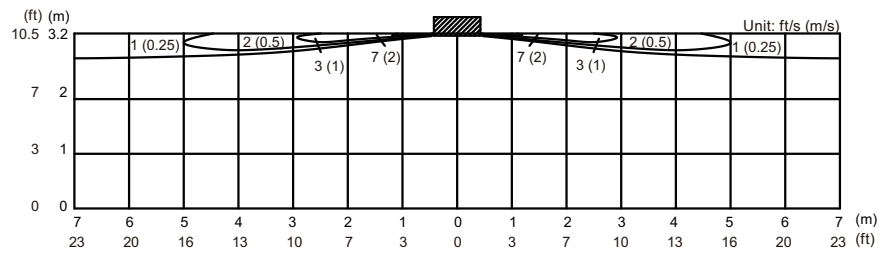
# Model: AUU30RGLX (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

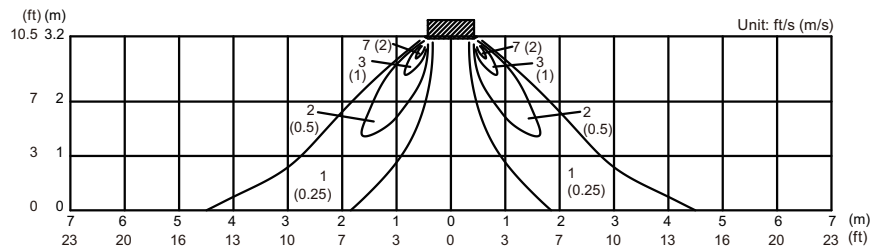
Top view  
Horizontal louver: position 1



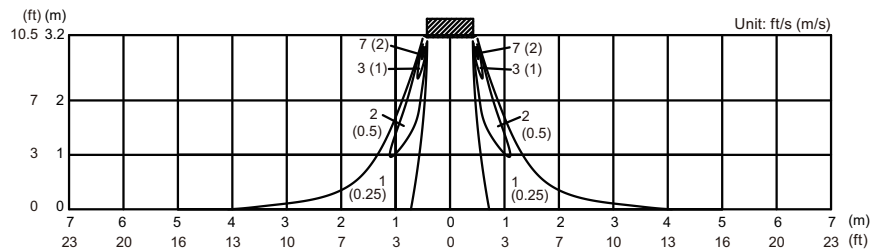
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



Side view  
Horizontal louver: position 4

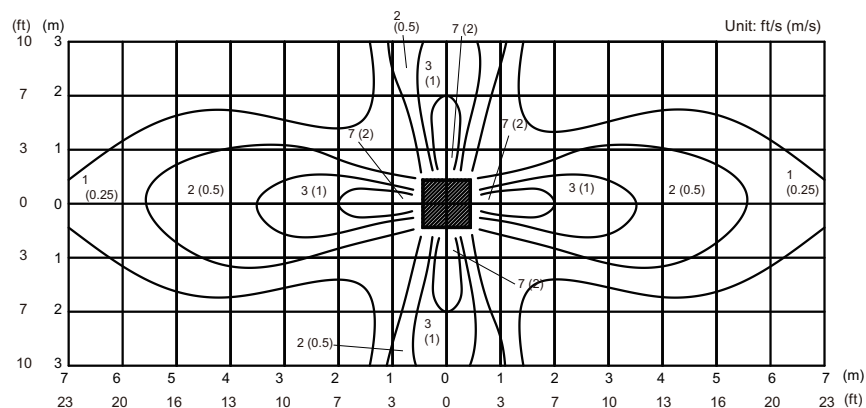




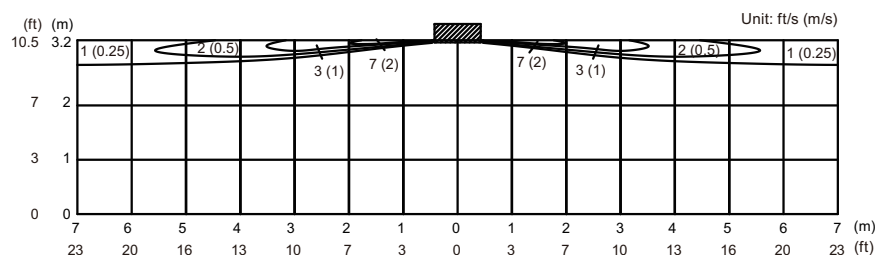
# Model: AUU36RGLX (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

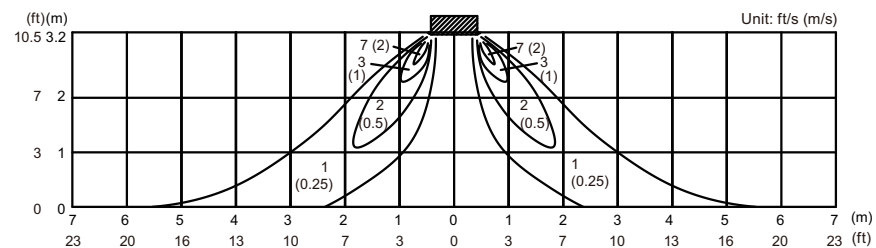
Top view  
Horizontal louver: position 1



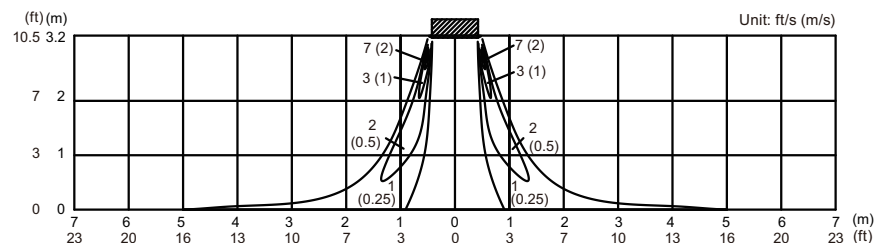
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



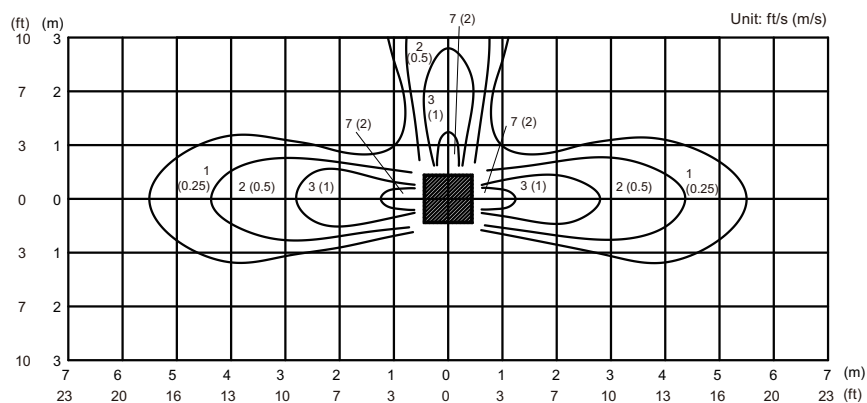
Side view  
Horizontal louver: position 4



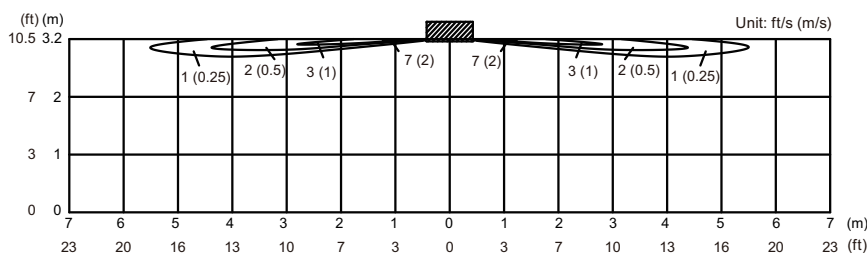
# Model: AUU18RGLX (3-way air outlet)

Measuring conditions	Fan speed HIGH	Operation mode FAN
----------------------	-------------------	-----------------------

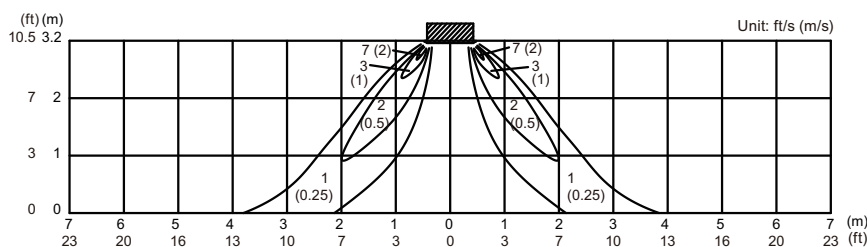
Top view  
Horizontal louver: position 1



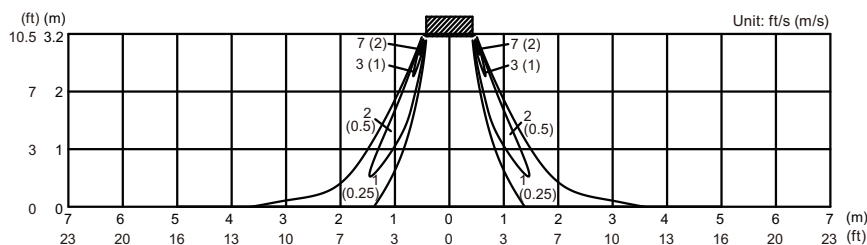
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



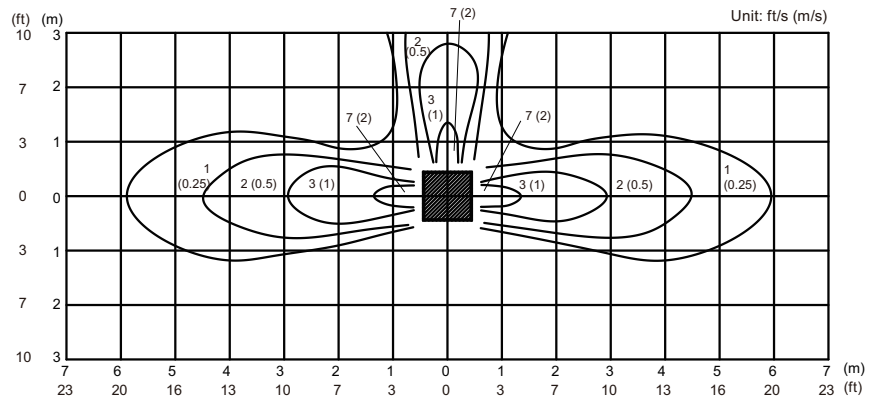
Side view  
Horizontal louver: position 4



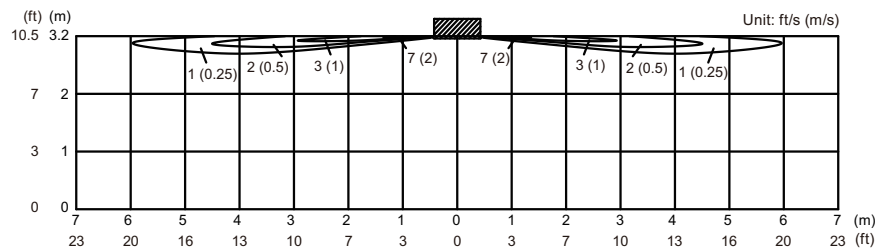
# Model: AUU24RGLX (3-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

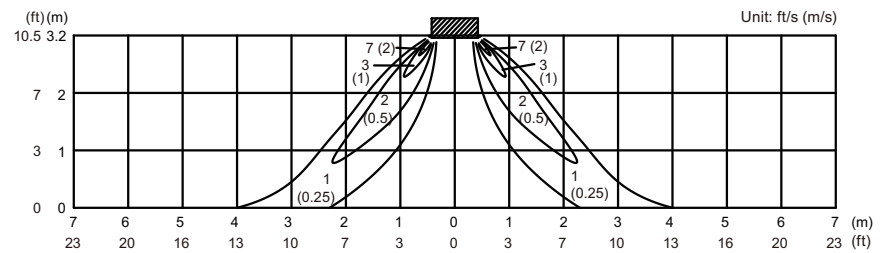
Top view  
Horizontal louver: position 1



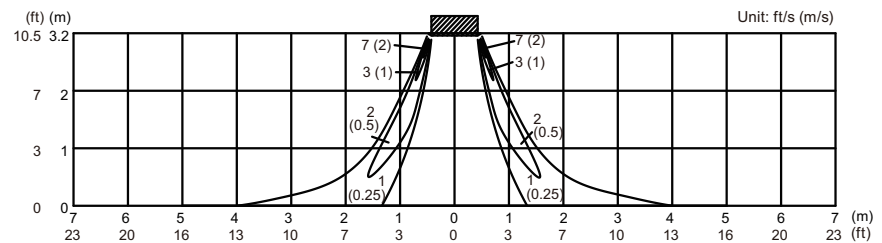
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



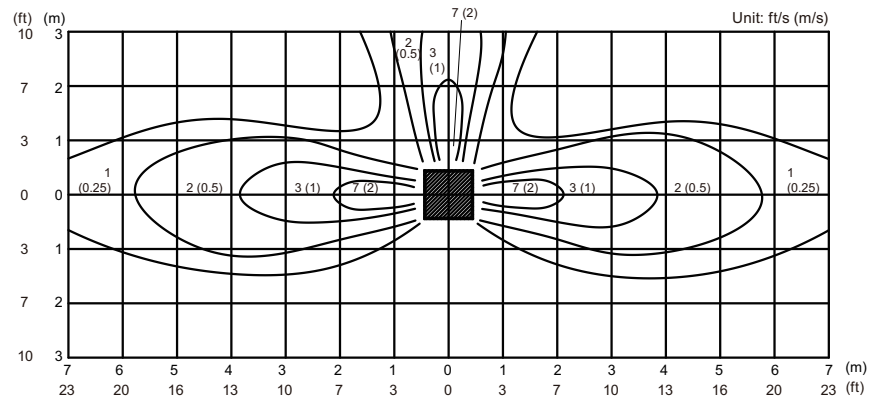
Side view  
Horizontal louver: position 4



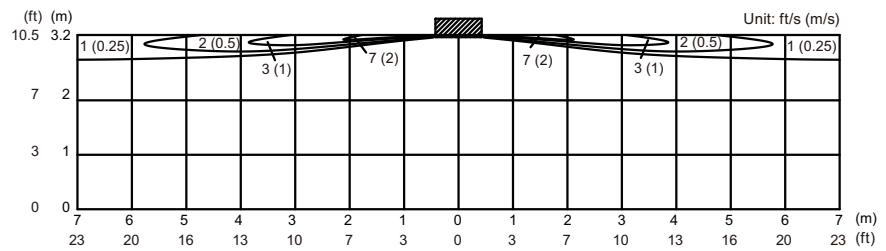
# Model: AUU30RGLX (3-way air outlet)

Measuring conditions	Fan speed HIGH	Operation mode FAN
----------------------	-------------------	-----------------------

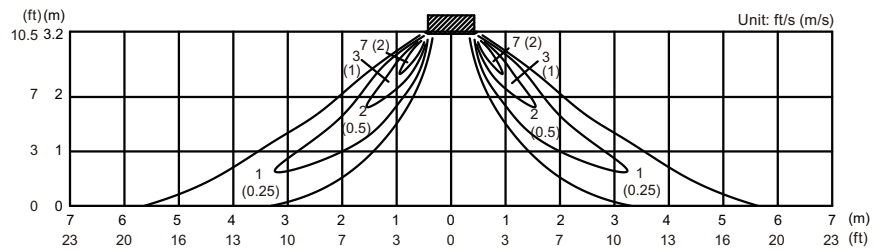
Top view  
Horizontal louver: position 1



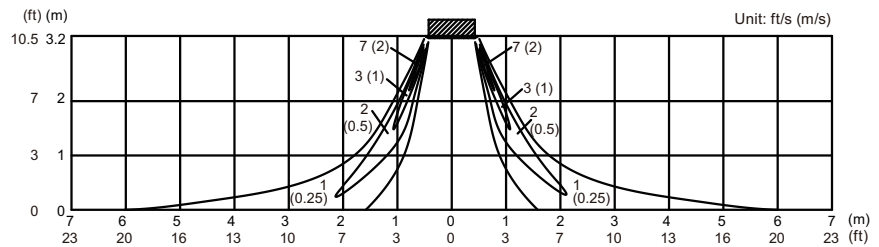
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



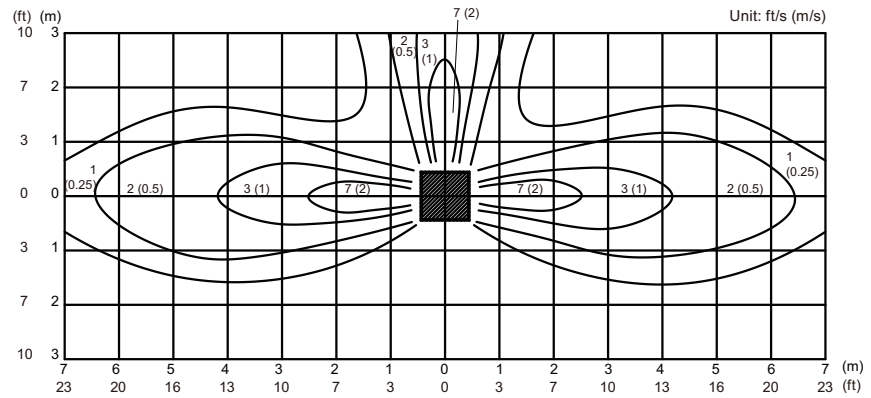
Side view  
Horizontal louver: position 4



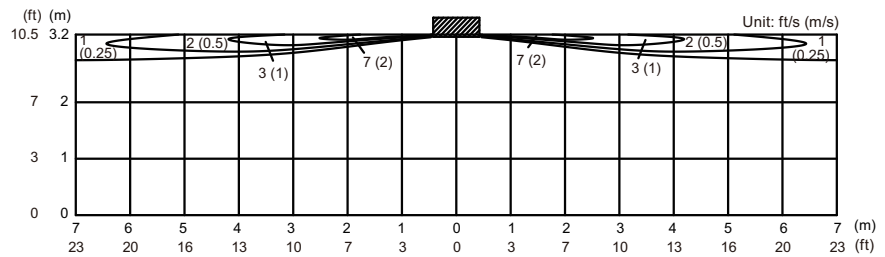
# Model: AUU36RGLX (3-way air outlet)

Measuring conditions	Fan speed HIGH	Operation mode FAN
----------------------	-------------------	-----------------------

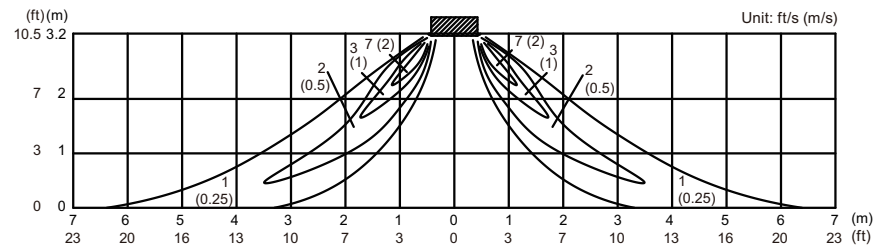
Top view  
Horizontal louver: position 1



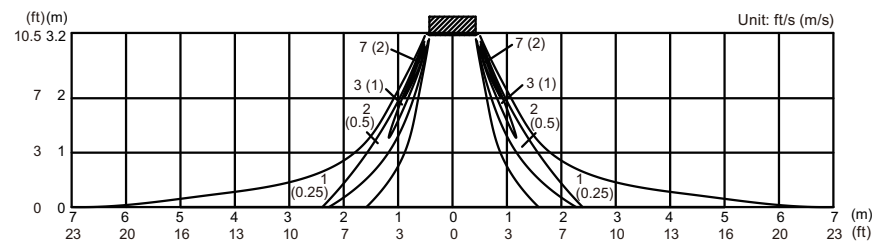
Side view  
Horizontal louver: position 1



Side view  
Horizontal louver: position 2



Side view  
Horizontal louver: position 4



## 5-2. Airflow

### ■ Model: AUU18RGLX (4-way outlet)

#### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,050
	l/s	292
	CFM	618
MED	m <sup>3</sup> /h	960
	l/s	267
	CFM	565
LOW	m <sup>3</sup> /h	900
	l/s	250
	CFM	530
QUIET	m <sup>3</sup> /h	780
	l/s	217
	CFM	459

### ■ Model: AUU24RGLX (4-way outlet)

#### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,150
	l/s	319
	CFM	677
MED	m <sup>3</sup> /h	1,050
	l/s	292
	CFM	618
LOW	m <sup>3</sup> /h	980
	l/s	272
	CFM	577
QUIET	m <sup>3</sup> /h	870
	l/s	242
	CFM	512

## ■ Model: AUU30RGLX (4-way outlet)

### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,600
	l/s	444
	CFM	942
MED	m <sup>3</sup> /h	1,400
	l/s	389
	CFM	824
LOW	m <sup>3</sup> /h	1,270
	l/s	353
	CFM	748
QUIET	m <sup>3</sup> /h	1,150
	l/s	319
	CFM	677

## ■ Model: AUU36RGLX (4-way outlet)

### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,900
	l/s	528
	CFM	1,118
MED	m <sup>3</sup> /h	1,590
	l/s	442
	CFM	936
LOW	m <sup>3</sup> /h	1,420
	l/s	394
	CFM	836
QUIET	m <sup>3</sup> /h	1,180
	l/s	328
	CFM	695

## ■ Model: AUU18RGLX (3-way outlet)

### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	915
	l/s	254
	CFM	539
MED	m <sup>3</sup> /h	835
	l/s	232
	CFM	491
LOW	m <sup>3</sup> /h	785
	l/s	218
	CFM	462
QUIET	m <sup>3</sup> /h	680
	l/s	189
	CFM	400

## ■ Model: AUU24RGLX (3-way outlet)

### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,000
	l/s	278
	CFM	589
MED	m <sup>3</sup> /h	915
	l/s	254
	CFM	538
LOW	m <sup>3</sup> /h	850
	l/s	236
	CFM	500
QUIET	m <sup>3</sup> /h	755
	l/s	210
	CFM	444

## ■ Model: AUU30RGLX (3-way outlet)

### ● Cooling/Heating

Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,390
	l/s	386
	CFM	818
MED	m <sup>3</sup> /h	1,220
	l/s	339
	CFM	718
LOW	m <sup>3</sup> /h	1,100
	l/s	306
	CFM	647
QUIET	m <sup>3</sup> /h	1,000
	l/s	278
	CFM	589



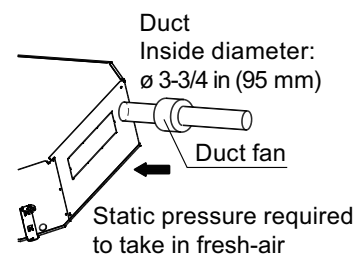
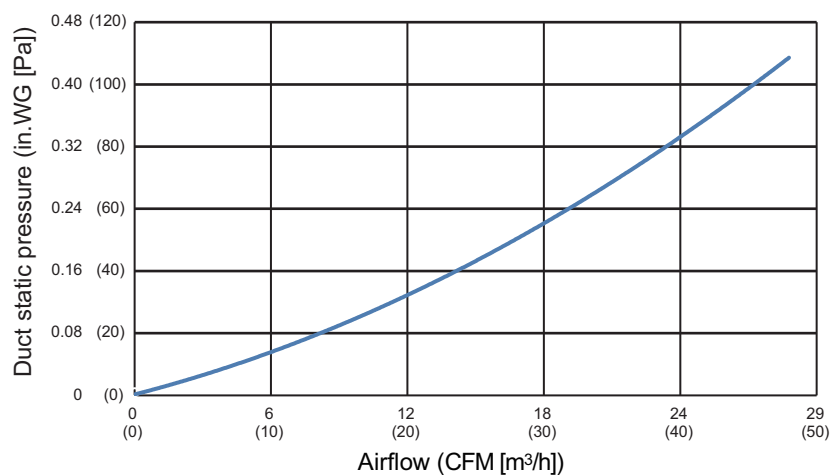
## ■ Model: AUU36RGLX (3-way outlet)

### ● Cooling/Heating

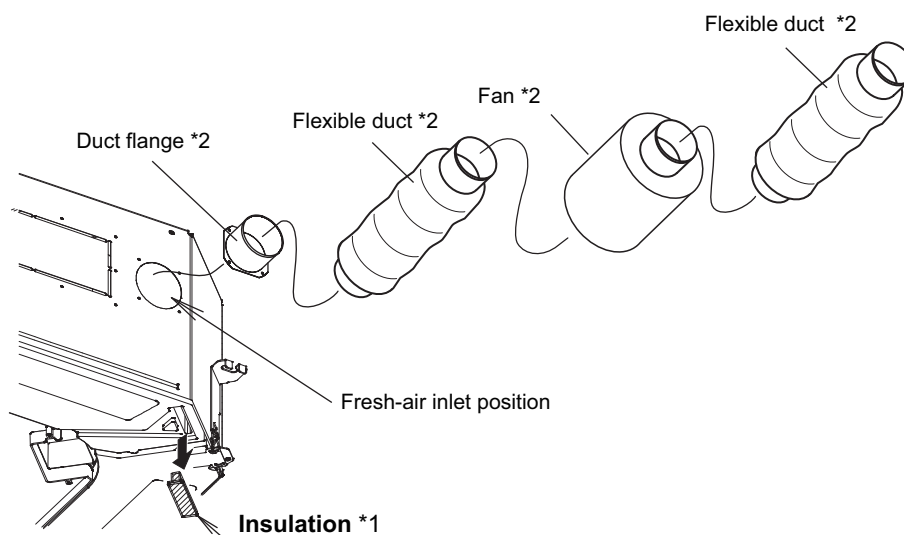
Fan speed	Airflow	
HIGH	m <sup>3</sup> /h	1,660
	l/s	461
	CFM	977
MED	m <sup>3</sup> /h	1,390
	l/s	386
	CFM	818
LOW	m <sup>3</sup> /h	1,240
	l/s	344
	CFM	730
QUIET	m <sup>3</sup> /h	1,030
	l/s	286
	CFM	606

## 5-3. Fresh air characteristics

### ■ Models: AUU18RGLX, AUU24RGLX, AUU30RGLX, and AUU36RGLX



## ● Installation



\*1: In case of fresh-air intake, remove the insulation.

\*2: Locally-purchased parts

For the fresh-air inlet position, refer to ["Dimensions"](#) on page 6.

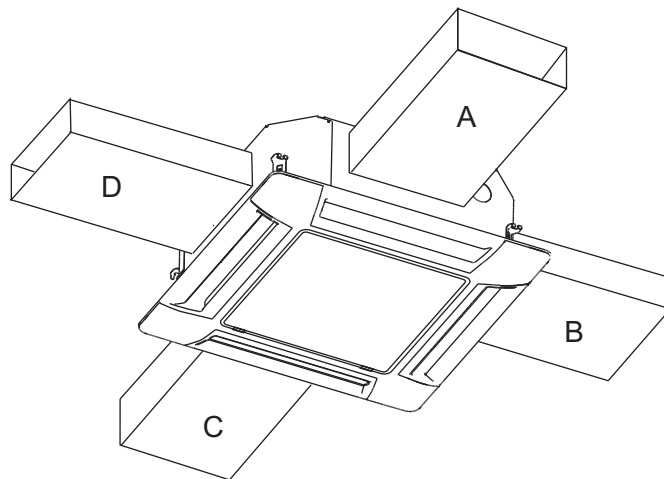
## ■ Air-outlet duct connection

### ● Precautions

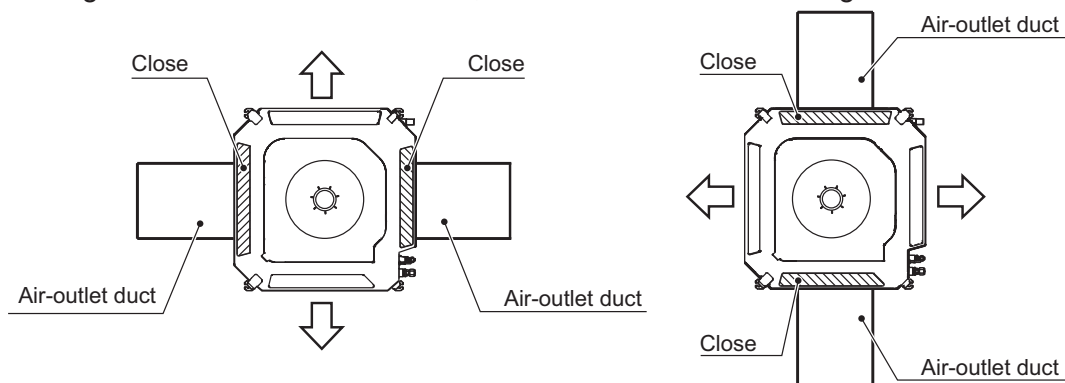
- Connect the air-outlet duct to maximum 2 directions among the 4-duct connecting directions.

#### ⚠ CAUTION

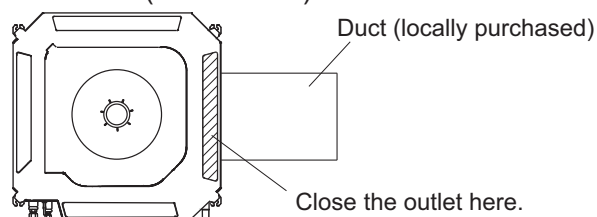
Do not connect ducts at 3 or more directions.



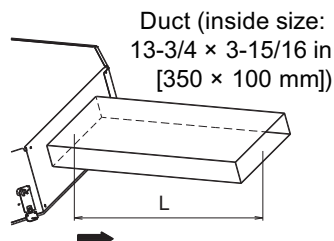
- When installing air-outlet duct in 2 directions, connect the ducts in a straight line.



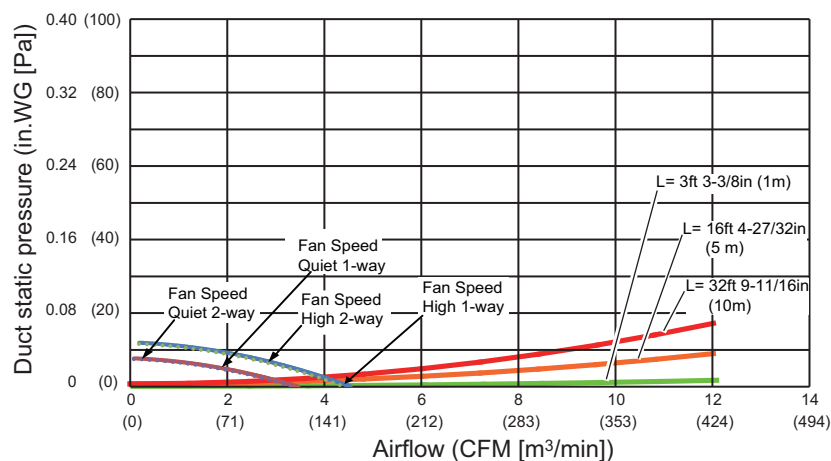
- Once the ducted direction is decided, be sure to close the outlet in the direction. Use optional Air Outlet Shutter Plate (UTR-YDZK) to close the outlet.



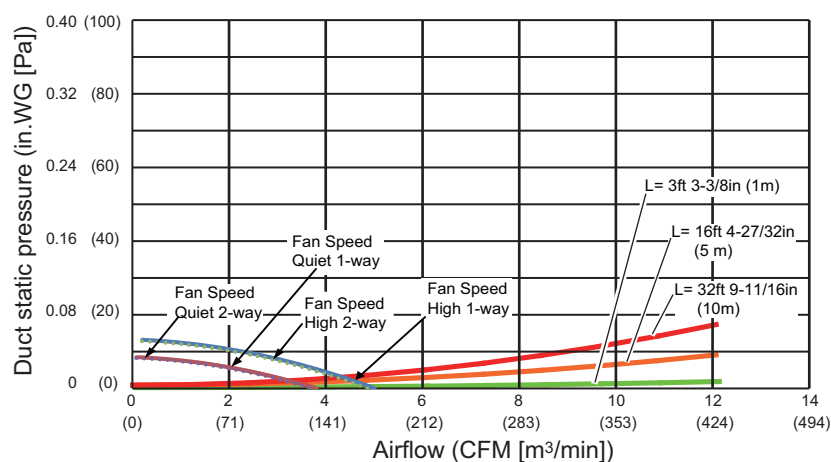
- The inside size of the duct is as follows:



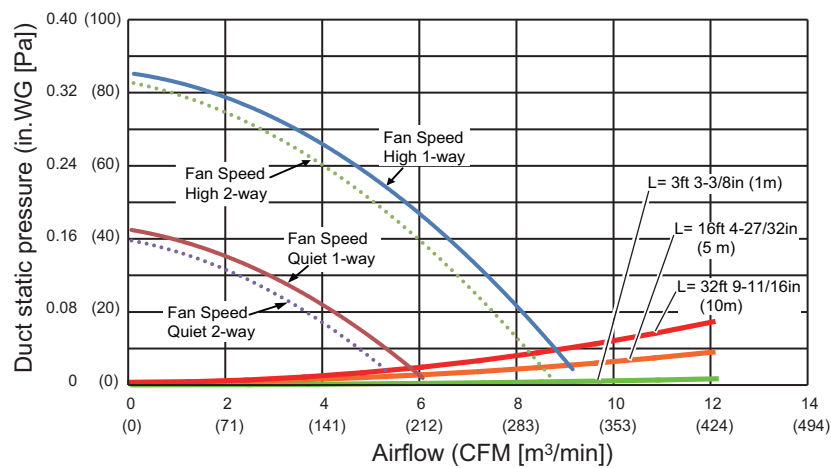
## ● Model: AUU18RGLX



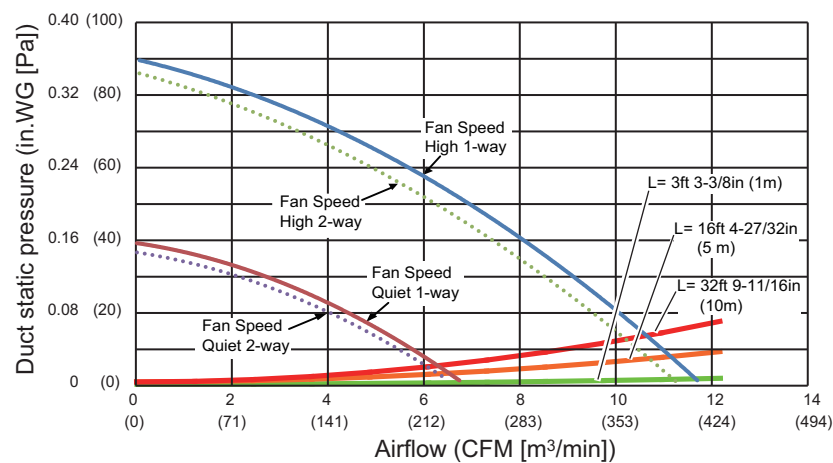
## ● Model: AUU24RGLX



## ● Model: AUU30RGLX



# ● Model: AUU36RGLX

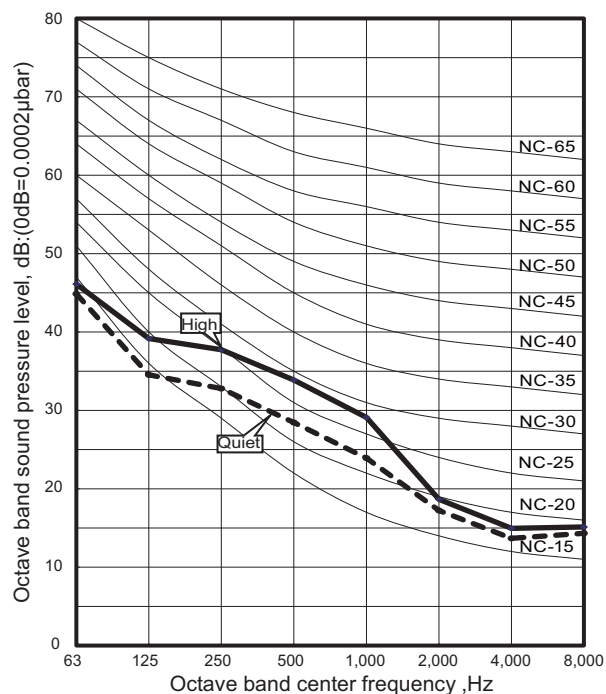


## 6. Operation noise (sound pressure)

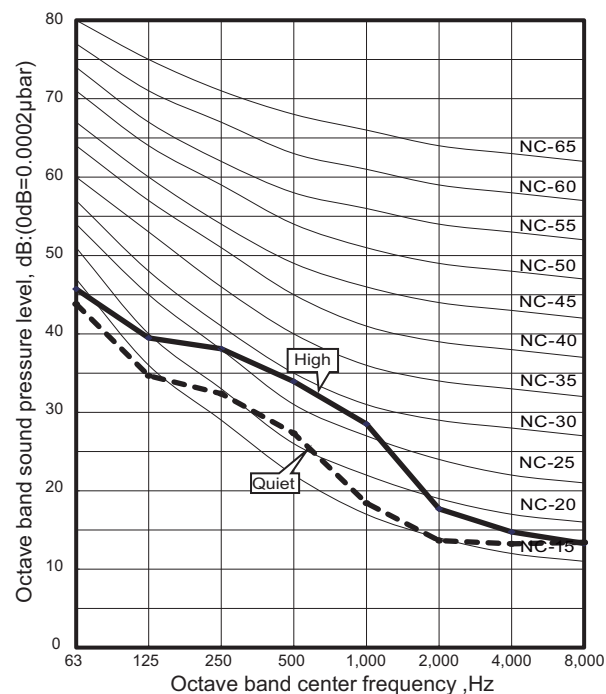
### 6-1. Noise level curve

#### ■ Model: AUU18RGLX

##### ● Cooling

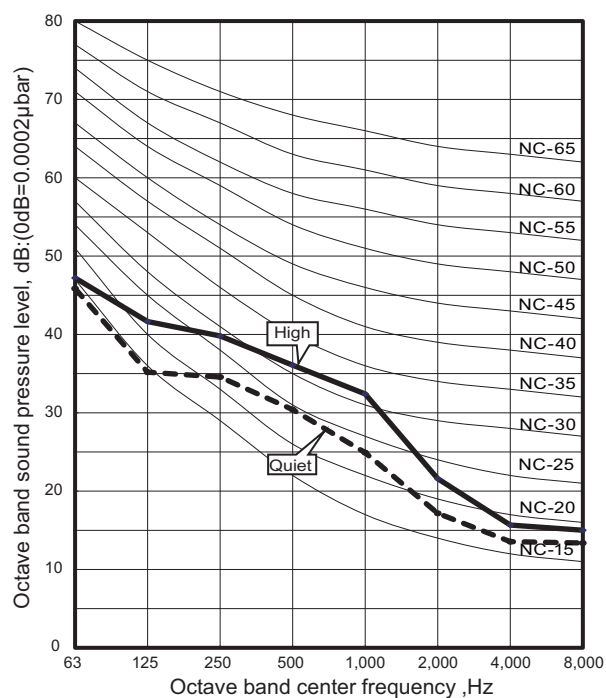


##### ● Heating

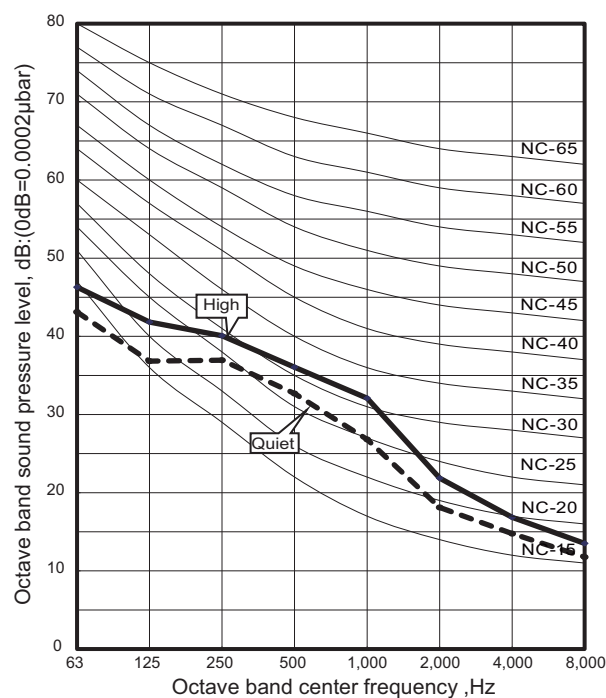


#### ■ Model: AUU24RGLX

##### ● Cooling

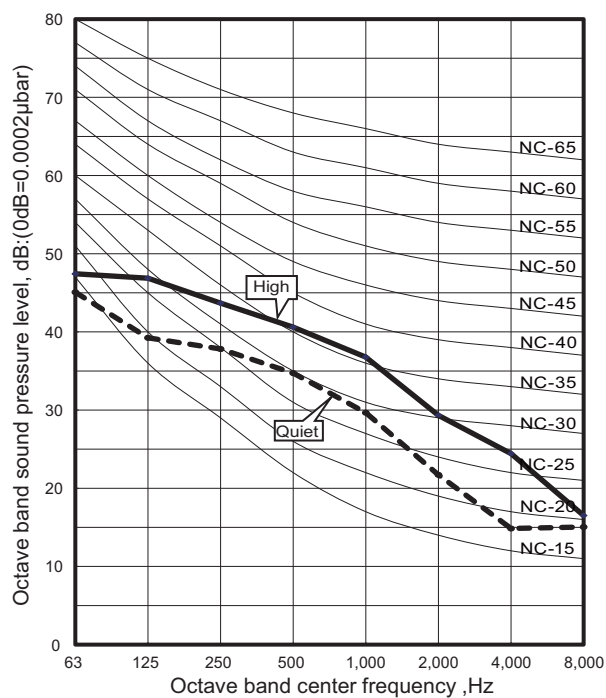


##### ● Heating

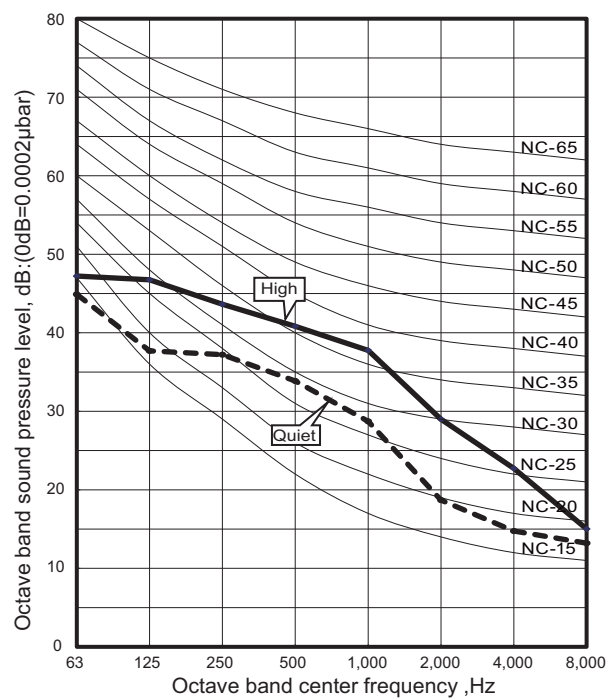


## Model: AUU30RGLX

### Cooling

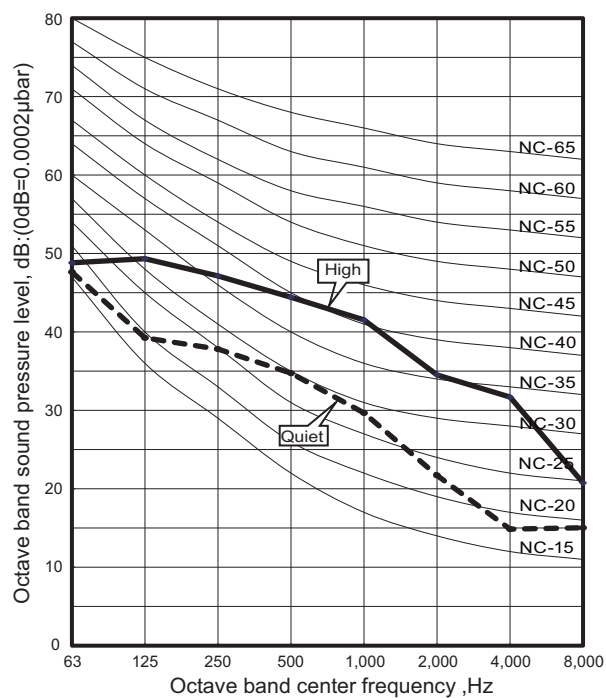


### Heating

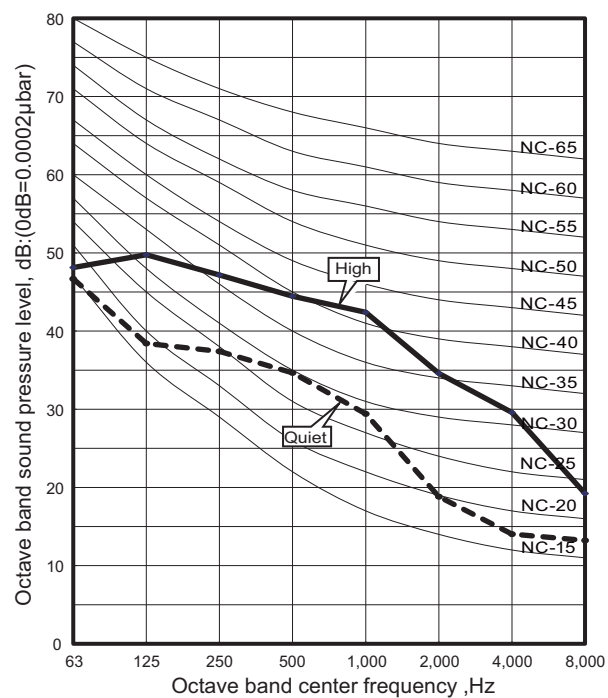


## Model: AUU36RGLX

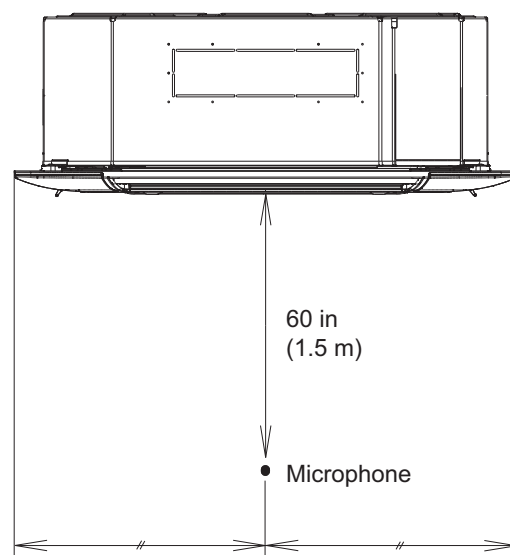
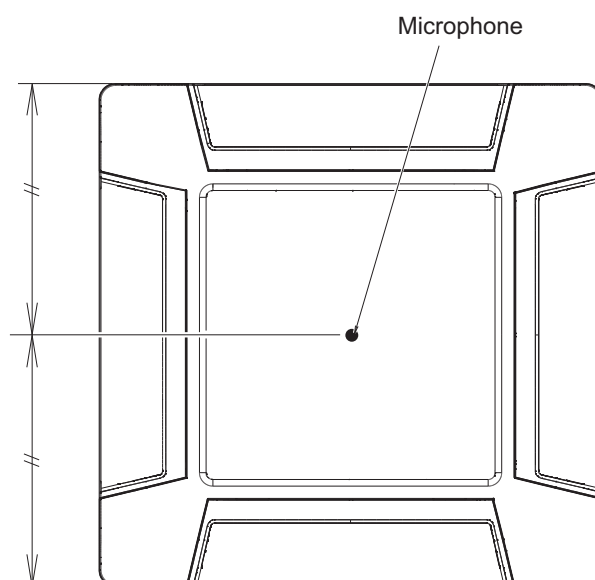
### Cooling



### Heating



## 6-2. Sound level check point



**NOTE:** Detailed shape of the actual indoor unit might be slightly different from the one illustrated above.



## 7. Safety devices

Type of protection	Protection form		Model
			AUU18RGLX AUU24RGLX AUU30RGLX AUU36RGLX
Circuit protection	Current fuse (PCB*)		250 V, 3.15 A
Fan motor protection	Thermal protection program	Activate	257 ±18°F (125 ±10°C) Fan motor stop
		Reset	248 ±18°F (120 ±10°C) Fan motor restart

\*PCB: Printed Circuit Board

## 8. External input and output

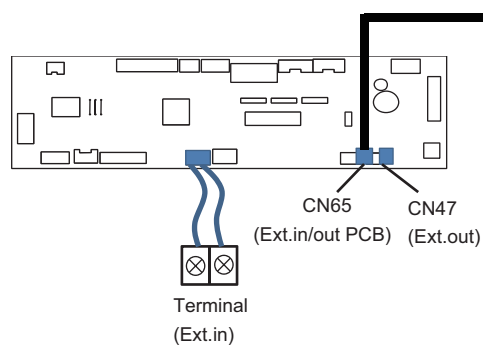


Fig. Indoor unit PCB

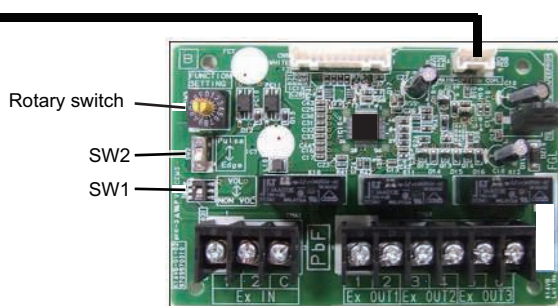


Fig. External input and output PCB

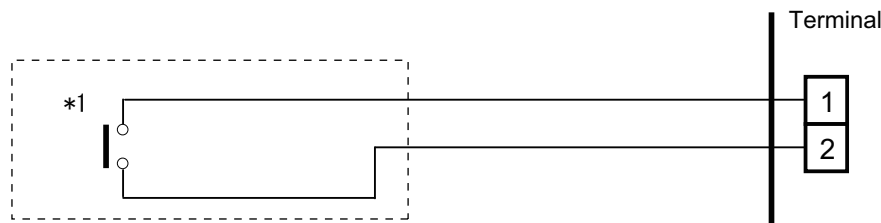
PCB	External input	External output	Connector	Input select	Input signal	External connect kit (Optional parts)
Indoor unit	Operation/Stop	-	Terminal	Dry contact	Edge	-
	-	Operation status	CN47	-	-	UTY-XWZXZG
		Error status				
		Indoor unit fan operation status				
		External heater output				
External input and output (UTY-XCSX)	Operation/Stop	-	Input 1/ Input 2	Dry contact/ Apply voltage	Edge/ Pulse	-
	Forced thermostat off		Input 1		Edge	
	-	Operation status	Output 1 Output 2 Output 3	-	-	-
		Error status				
		Indoor unit fan operation status				
		External heater output				

## 8-1. External input

- "Operation/Stop" mode or "Forced stop" mode can be selected with function setting of indoor unit.
- A twisted pair cable (22AWG) should be used. Maximum length of cable is 492 ft (150 m).
- The wire connection should be separate from the power cable line.

### Indoor unit

Indoor unit functions such as Operation/Stop can be done by using indoor unit terminals.



\*1: The switch can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

### External input and output PCB

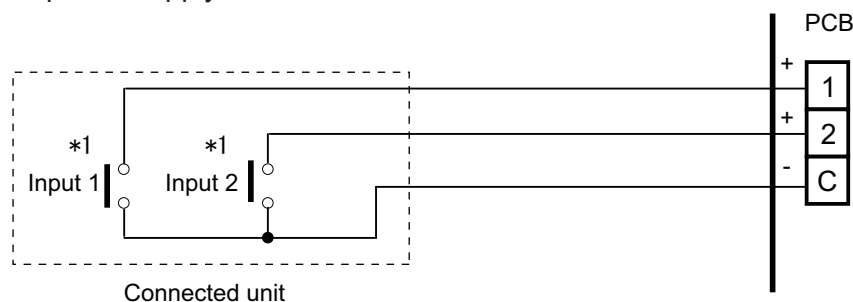
The indoor unit Operation/Stop can be set by using the input terminal on the PCB.

#### Input select

Use either one of these types of terminals according to the application. (Both types of terminals cannot be used simultaneously.)

- Dry contact

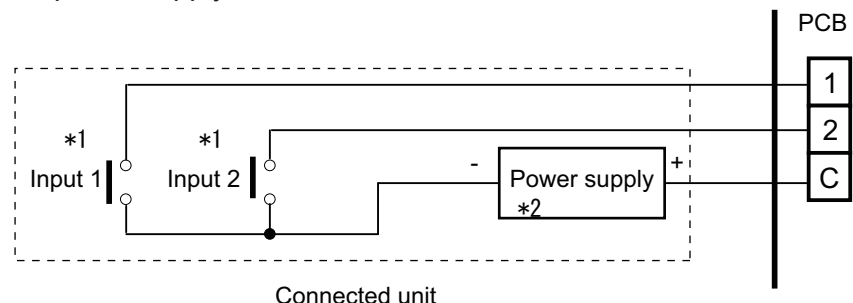
In case of internal power supply, set the slide switch of SW1 to "NON VOL" side.



\*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

- Apply voltage

In case of external power supply, set the slide switch of SW1 to "VOL" side.



\*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

\*2: Make the power supply DC 12 V to 24 V 10 mA or more.

## 8-2. External output

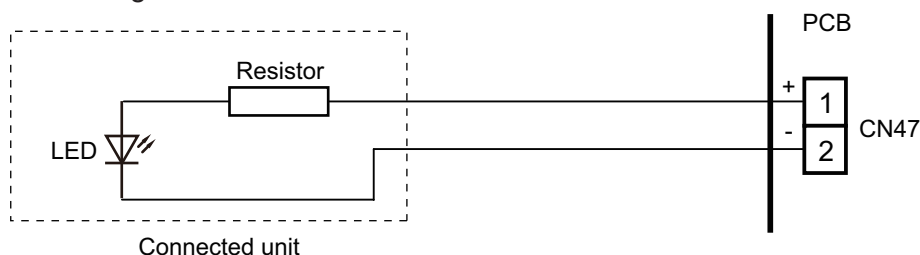
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

### Indoor unit

- A twisted pair cable (22AWG) should be used. Maximum length of cable is 82 ft (25 m).
- Output voltage: High DC 12 V  $\pm$  2 V, Low 0 V.
- Permissible current: 50 mA
- For details, refer to Chapter 8-3. ["Combination of external input and output"](#) on page 41.

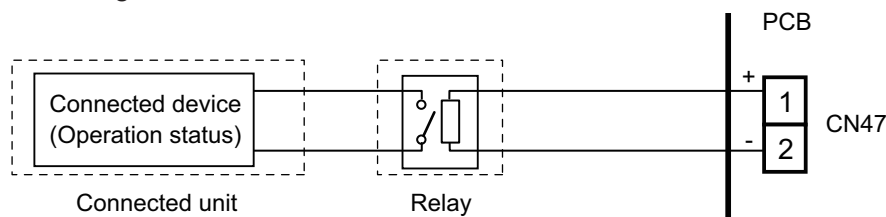
### When indicator, etc. are connected directly

**Example:** Function setting 60 is set to "00"



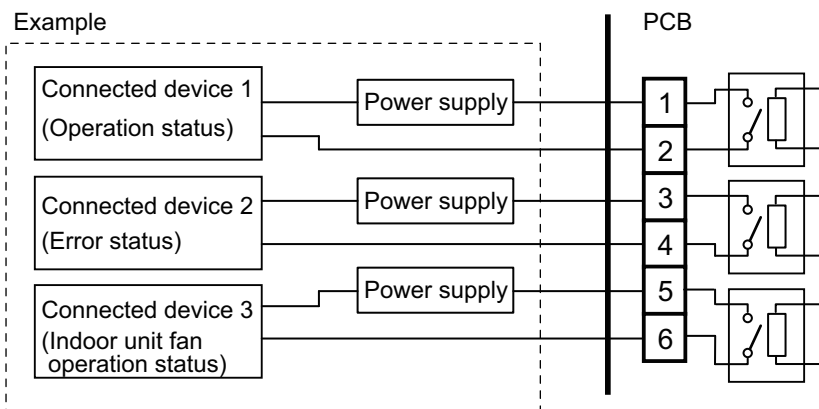
### When connecting with a device equipped with a power supply

**Example:** Function setting 60 is set to "00"



### External input and output PCB

- A twisted pair cable (22AWG) should be used.
- Permissible voltage and current: DC 5 V to 30 V / 3 A, AC 30 V to 250 V / 3 A
- For details, refer to Chapter 8-3. ["Combination of external input and output"](#) on page 41.



## 8-3. Combination of external input and output

By combining the function setting of the indoor unit and rotary switch setting of the External input and output PCB, you can select various combinations of functions.

Combination examples of external input and output are as follows:

Mode	Function setting	External input and output PCB (Rotary SW)	External input			
			Indoor unit Input	External input and output PCB		
				Input 1	Input 2	Signal type
0-1	60-00	1	Operation/Stop (Function setting 46-00) or Forced stop (Function setting 46-02)	Operation/Stop	Not available	Edge
				Operation	Stop	Pulse
0-2	60-00	2		Forced Thermostat OFF	Not available	Edge
1	60-01	3		Mechanical cooling Off		
2	60-02	4		Forced thermostat Off		
3	60-03	5		Mechanical cooling On		
4	60-04	6		Mechanical cooling On		
5	60-05	7		Forced thermostat Off		
6	60-06	8		Forced thermostat Off		
7	60-07	9		Mechanical cooling Off		
8	60-08	A		Forced thermostat Off		
9	60-09	B		Forced Thermostat OFF		
10	60-10	C		Forced Thermostat OFF		
11	60-11	D		Forced Thermostat OFF		
12	60-12	D		Forced Thermostat OFF		

Mode	Function setting	External input and output PCB (Rotary SW)	External output			
			Indoor unit Output	External input and output PCB		
				Output 1	Output 2	Output 3
0-1	60-00	1	Operation/Stop	Operation/Stop	Error status	Indoor unit fan operation status
0-2	60-00	2	Operation/Stop	Error status	Indoor unit fan operation status	External heater output
1	60-01	3	Cooling thermostat On	Error status	Indoor unit fan operation status	External heater output
2	60-02	4	Cooling thermostat On	Error status	Remote controller output	External heater output
3	60-03	5	Cooling thermostat On	Cooling high/low output	Remote controller output	External heater output
4	60-04	6	Cooling thermostat On	Error status	Remote controller output	Cooling high/low output
5	60-05	7	Heating thermostat On	Error status	Indoor unit fan operation status	External heater output
6	60-06	8	Operation/Stop	Error status	Indoor unit fan operation status	Heating thermostat On
7	60-07	9	Cooling thermostat On	Error status	Heating thermostat On	External heater output
8	60-08	A	Cooling thermostat On	Heating thermostat On	Remote controller output	External heater output
9	60-09	B	Error status	Operation/Stop	Indoor unit fan operation status	External heater output
10	60-10	C	Indoor unit fan operation status	Operation/Stop	Error status	External heater output
11	60-11	D	External heater output	Operation/Stop	Indoor unit fan operation status	Error status
12	60-12	D	Setpoint Attainment status	Operation/Stop	Indoor unit fan operation status	Error status

**NOTE:** Input of Operation/Stop depends on the setting of function setting 46.

00: Operation/Stop mode 1 (Remote controller enabled)

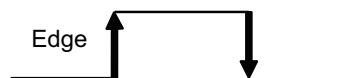
01: (Setting prohibited)

02: Forced stop

03: Operation/Stop mode 2 (Remote controller disabled)

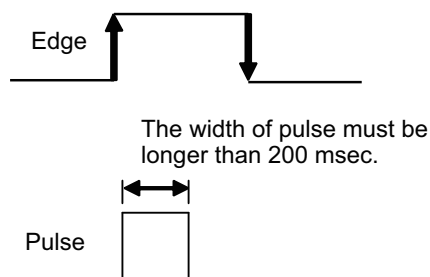
## ■ Input signal type

- Indoor unit  
Input signal type is only "Edge".



- External input and output PCB  
The input signal type can be selected.

Signal type (edge or pulse) can be switched by the DIP switch 2 (SW2) on the External input and output PCB.



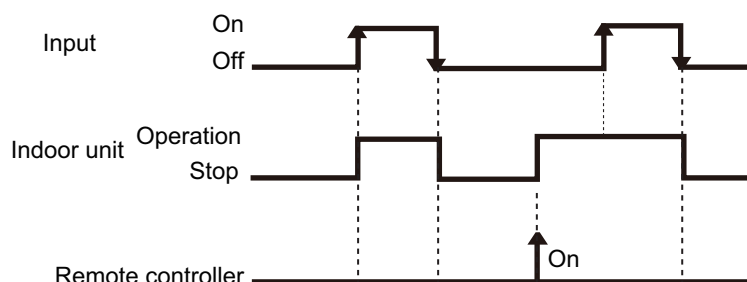
## 8-4. Details of function

### ■ Control input function

#### ● When function setting is "Operation/Stop" mode 1

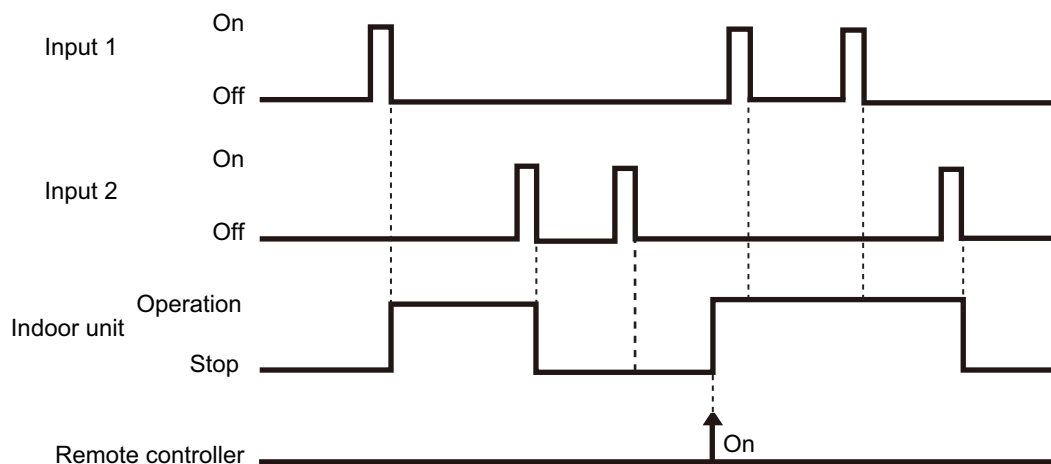
- In the case of "Edge" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-00	-	Input of indoor unit	Terminal	Off → On	Operation
				On → Off	Stop
	60-00 / 1	External input and output PCB	Input 1	Off → On	Operation
				On → Off	Stop



- In the case of "Pulse" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-00	60-00 / 1	External input and output PCB	Input 1	Pulse	Operation
			Input 2	Pulse	Stop



#### NOTES:

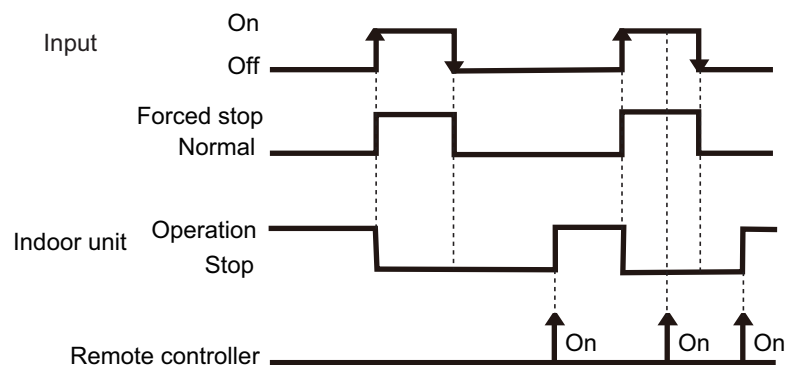
- The last command has priority.
- The indoor units within the same remote controller group operates in the same mode.



## ● When function setting is "Forced stop" mode

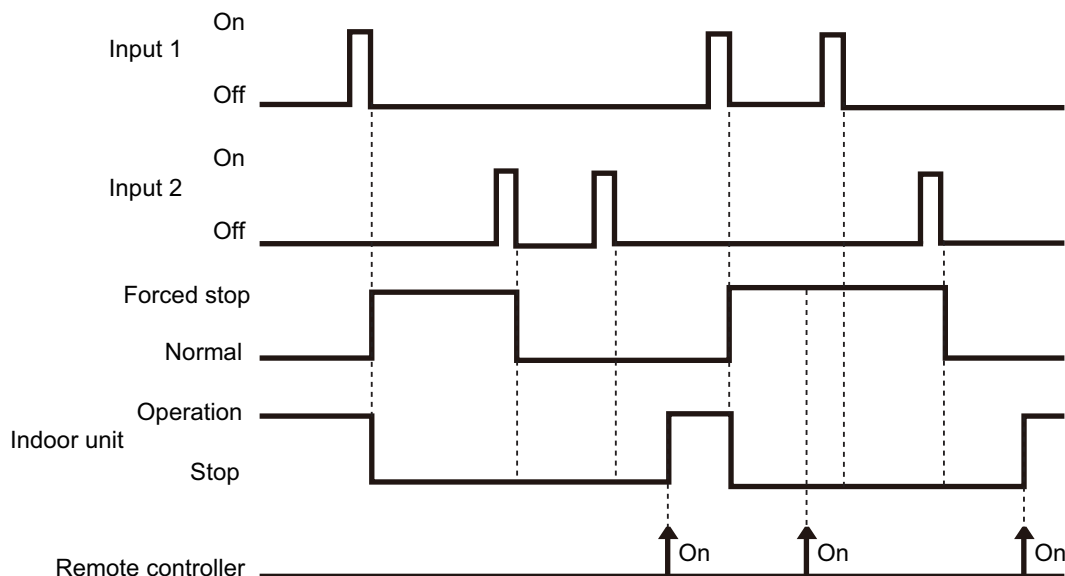
- In the case of "Edge" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-02	-	Input of indoor unit	Terminal	Off → On	Forced stop
				On → Off	Normal
	60-00 / 1	External input and output PCB	Input 1	Off → On	Forced stop
				On → Off	Normal



- In the case of "Pulse" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-02	60-00 / 1	External input and output PCB	Input 1	Pulse	Forced stop
			Input 2	Pulse	Normal



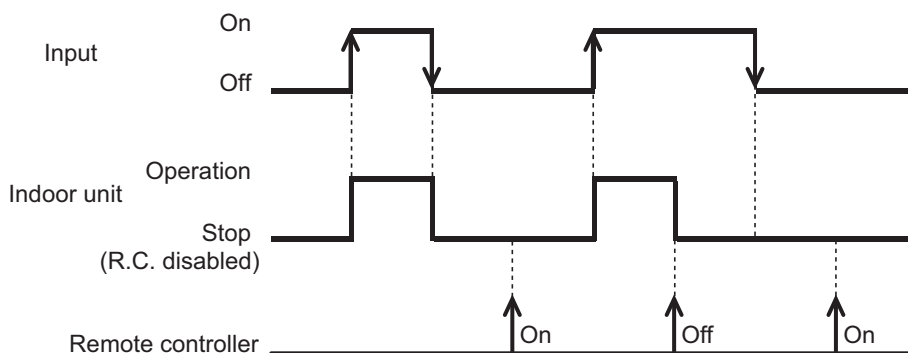
### NOTES:

- When the forced stop is triggered, indoor unit stops and Operation/Stop operation by the remote controller is restricted.
- When forced stop function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

## ● When function setting is "Operation/Stop" mode 2

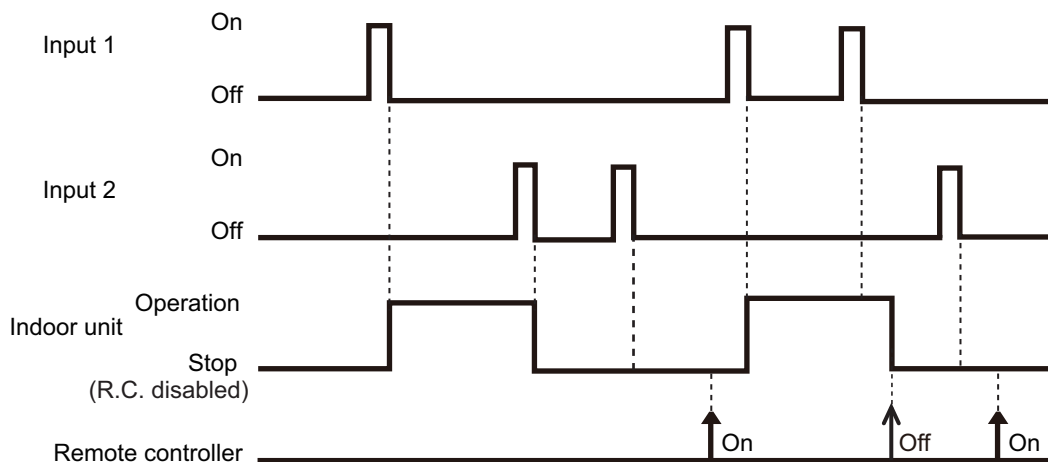
- In the case of "Edge" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-03	-	Input of indoor unit	Terminal	Off → On	Operation
				On → Off	Stop (Remote controller disabled)
	60-00 / 1	External input and output PCB	Input 1	Off → On	Operation
				On → Off	Stop (Remote controller disabled)



- In the case of "Pulse" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-03	60-00 / 1	External input and output PCB	Input 1	Pulse	Operation
			Input 2	Pulse	Stop (Remote controller disabled)

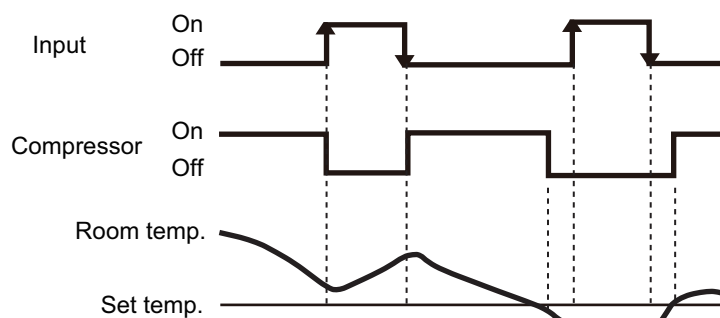


### NOTES:

- When "Operation/Stop" mode 2 function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

## ■ Forced thermostat off function

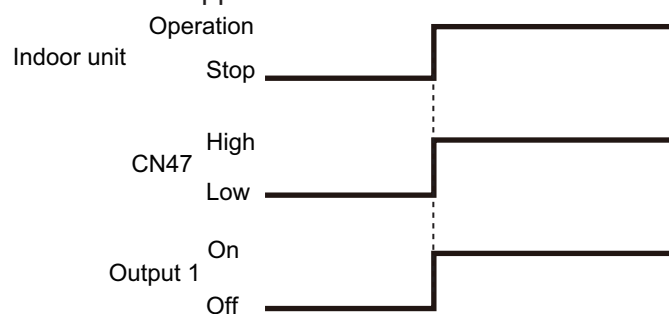
Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
60-00 / 2 60-02 / 4 60-05 / 7 60-06 / 8 60-08 / A 60-09 / B 60-10 / C 60-11 / D		External input and output PCB	Input 1	Off → On	Thermostat off
				On → Off	Normal operation



## ■ Control output function

Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-00 / 1, 2 60-06 / 8		Output of indoor unit	CN47	Low → High	Operation
				High → Low	Stop
60-00 / 1 60-09 / B 60-10 / C 60-11 / D		External input and output PCB	Output 1	Off → On	Operation
				On → Off	Stop

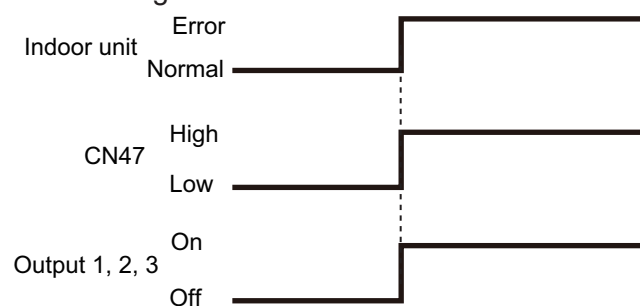
The output is low when the unit is stopped.



## ■ Error status

Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-09 / B		Output of indoor unit	CN47	Low → High	Error
				High → Low	Normal
60-00 / 2 60-01 / 3 60-02 / 4 60-04 / 6 60-05 / 7 60-06 / 8 60-07 / 9	External input and output PCB	Output 1	Off → On	Error	
			On → Off	Normal	
60-00 / 1 60-10 / C		Output 2	Off → On	Error	
			On → Off	Normal	
60-11 / D		Output 3	Off → On	Error	
			On → Off	Normal	

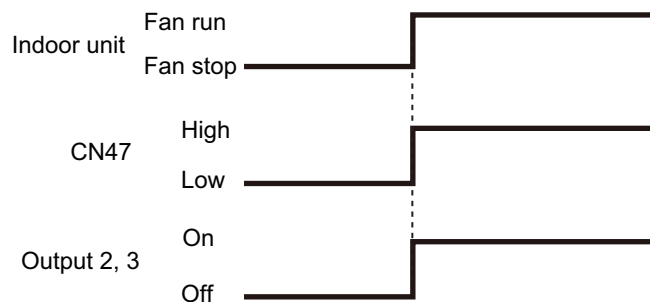
The output is ON when an error is generated for the indoor unit.



## Indoor unit fan operation status

Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-10 / C		Output of indoor unit	CN47	Low → High	Fan run
				High → Low	Fan stop
60-00 / 2 60-01 / 3 60-05 / 7 60-06 / 8 60-09 / B 60-11 / D	External input and output PCB	Output 2		Off → On	Fan run
				On → Off	Fan stop
60-00 / 1		Output 3		Off → On	Fan run
				On → Off	Fan stop

Output signal	Condition
On Low → High	The indoor unit fan is operating.
Off High → Low	The fan is stopped or during cold air prevention. During thermostat off when in dry mode operation.



## ■ External heater output

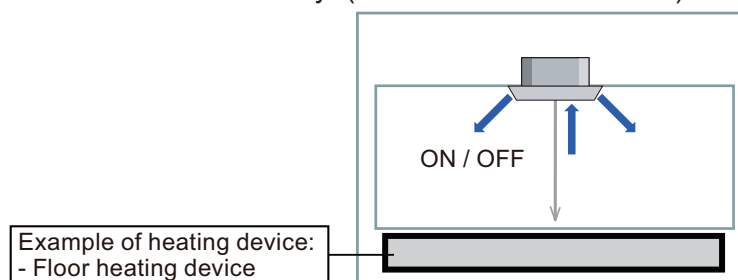
Control	Primary heater	Auxiliary heater	Function setting	
			Indoor unit	Wired R. C.
			Control switching external heaters No. 61	Sensor activation*2
Auxiliary heater control 1	Heat pump	External device*1	61-00	—
Auxiliary heater control 2	Heat pump	External device	61-01	—
Heat pump prohibition control	External device	None	61-02	On (Enabled)
Auxiliary heater control by outdoor temperature 1	Heat pump	External device	61-03	On (Enabled)
Auxiliary heater control by outdoor temperature 2	Heat Pump	External device	61-04	On (Enabled)

### NOTES:

- After turning off the heater, 3 minutes of standby time is required by next power-on of the heater.
- For items marked “—” in the table, any of validate or invalidate of the setting are acceptable.
- \*1: External device means Hot water, Electrical heater, etc.
- \*2: Sensor activation:
  - Setting change from the factory setting is required.
  - Indoor unit fan setting will be on for safety reason without sensor activation of wired remote controller.

## ● Installation configuration of individual connection

External heating device is installed individually. (No use of indoor unit fan)



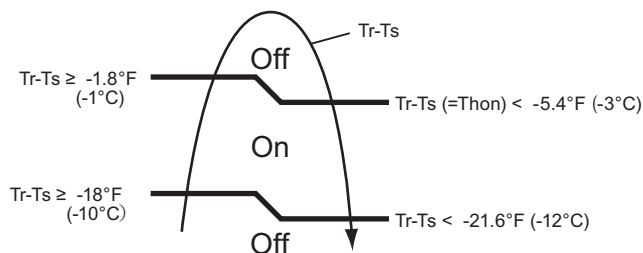
### ⚠ WARNING

- Design and install external heater appropriately with considering its protection.
- Inappropriate designing and installation of external heater may cause a fire by emitted heat from the external heater.
- Fujitsu General Ltd. is not responsible for inappropriate designing or installation of external heating device.

## ● Auxiliary heater control 1

Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	<ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Fan stop protection</li> </ul>

- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".



Tr: Room temperature  
Ts: Set temperature  
Thon: Heater on temperature

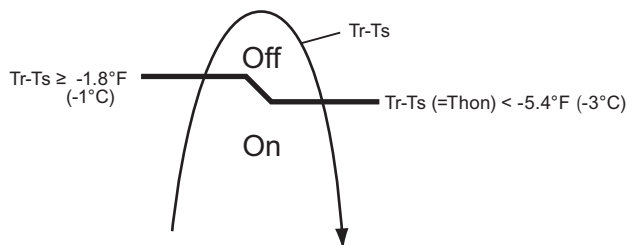
**Example:** When set temperature (Ts) is 72°F (22°C) (Factory setting),

- and room temperature (Tr) increases above 53.6°F (12°C), signal output is on.
- and room temperature (Tr) increases above 69.8°F (21°C), signal output is off.
- and room temperature (Tr) decreases below 66.2°F (19°C), signal output is on.
- and room temperature (Tr) decreases below 50°F (10°C), signal output is off.

## ● Auxiliary heater control 2

Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	<ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Fan stop protection</li> </ul>

- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".



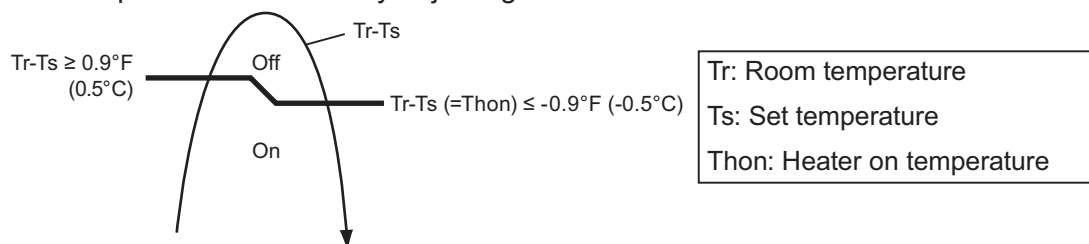
Tr: Room temperature  
Ts: Set temperature  
Thon: Heater on temperature

## ● Heat pump prohibition control

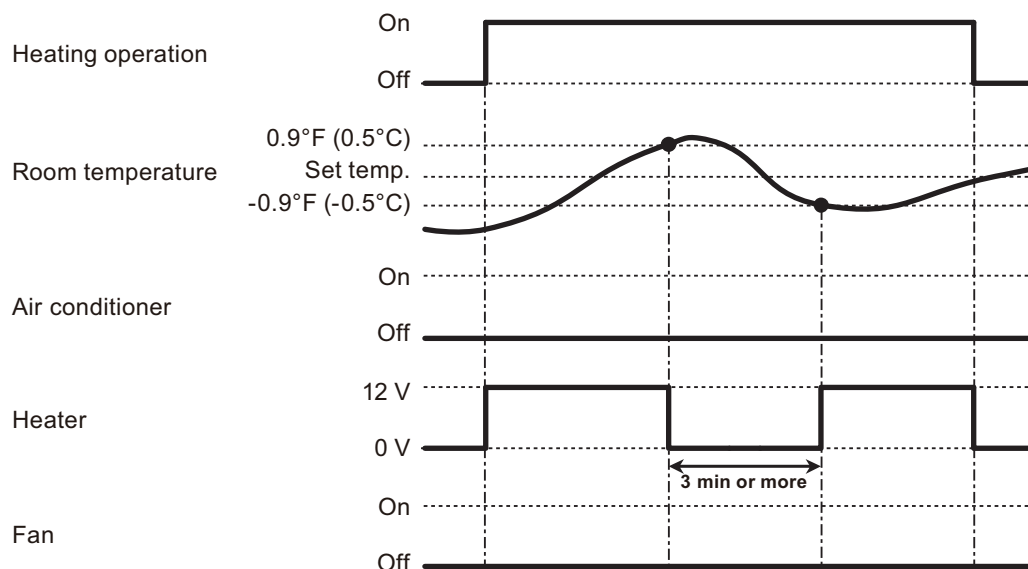
Perform heating by external heater only. Indoor unit is continuous thermostat off.

Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	<ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> </ul>

- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".



### • Operation status



**NOTE:** In following operations, compressor will be on.

- Other than heating
- Test run



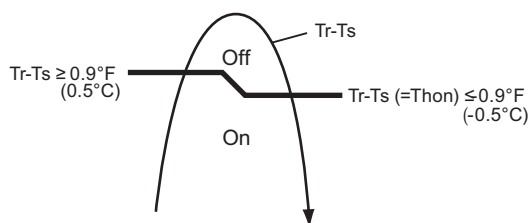
## ● Auxiliary heater control by outdoor temperature 1

This control selects heat pump or external heater according to the outdoor temperature. When outdoor temperature is high, the heating is performed by using heat pump only.

Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	<ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Heat pump only zone</li> </ul>

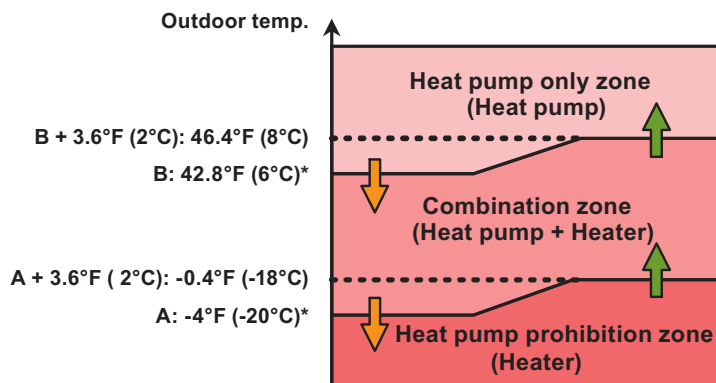
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".
- Outdoor temperature zone boundary A and B: Adjustable individually by function setting number 66 and 67.

### • External heater output



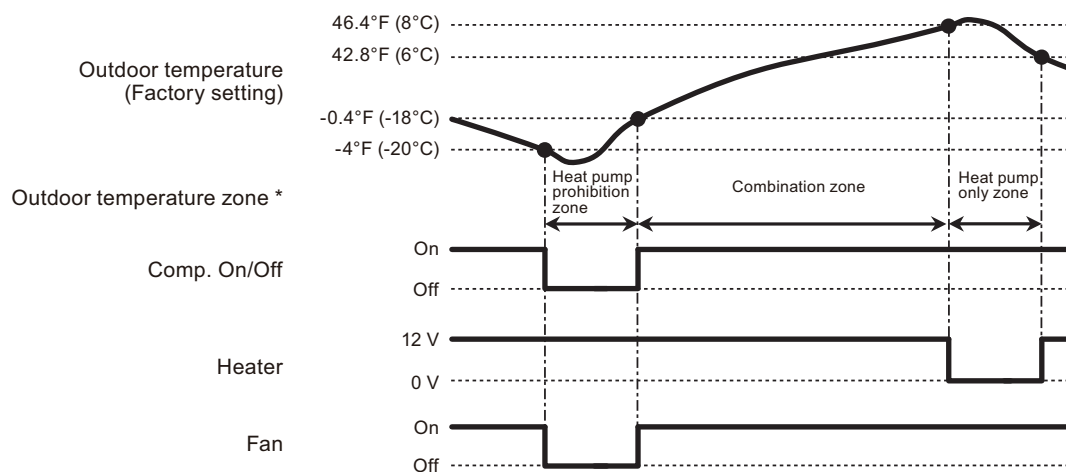
Tr: Room temperature  
Ts: Set temperature  
Thon: Heater on temperature

### • Outdoor temperature zone



\*: Adjustable by function setting 66 and 67

- Operation status



\* The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

- Other than heating
- Test run

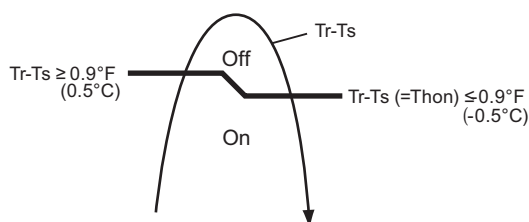
## ● Auxiliary heater control by outdoor temperature 2

This control selects heat pump or external heater according to the outdoor temperature. Even when outdoor temperature is high, the heating is performed by using both of heat pump and external heater.

Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	<ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> </ul>

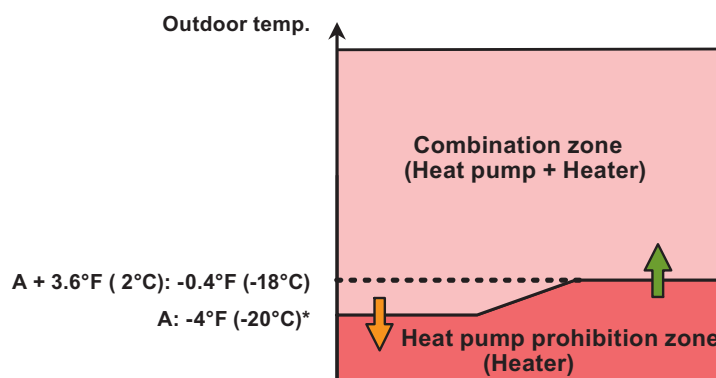
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".
- Outdoor temperature zone boundary A: Adjustable by function setting number 66.

### • External heater output



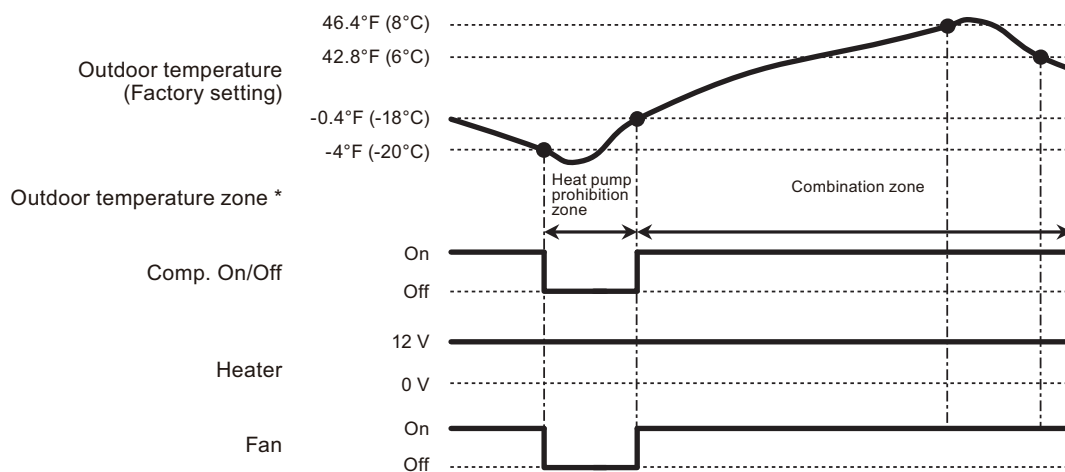
Tr: Room temperature  
Ts: Set temperature  
Thon: Heater on temperature

### • Outdoor temperature zone



\*: Adjustable by function setting 66

- Operation status



\* The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

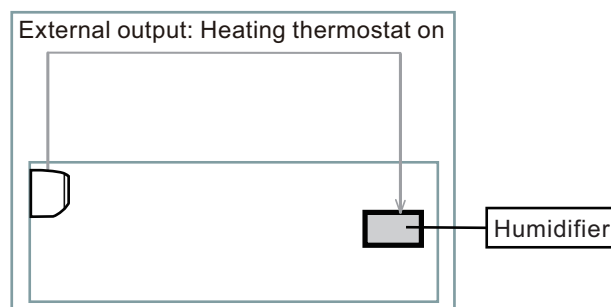
**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

- Other than heating
- Test run

## ■ Heating thermostat on for humidifier

Situation	Indoor unit				
	Mode	Function setting	Rotary SW	External output	
		Heating thermostat on no. 60		Heating thermostat on	Indoor unit fan operation status
Example of individual connection	5	60-05	7	CN47	Not used
	6	60-06	8	Output3	
	7	60-07	9	Output2	
	8	60-08	A	Output1	

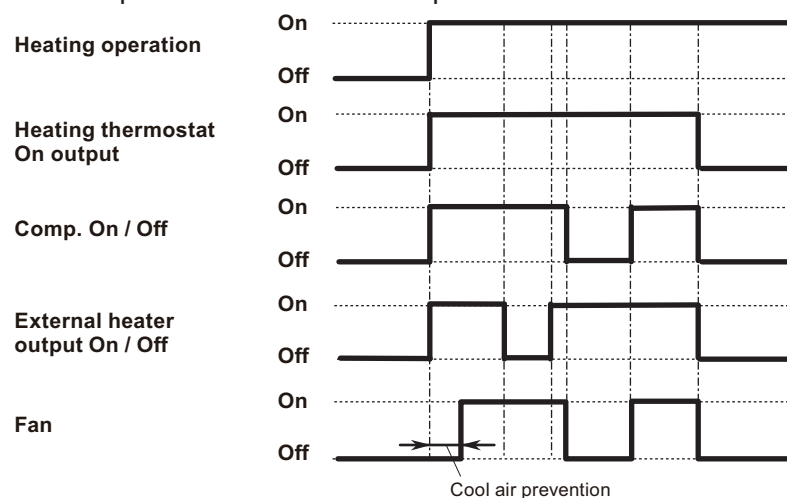
### • Example of individual connection



### • Operation status

The heating thermostat output for CN47, Output1, Output2, and Output3 will be on when comp on or external heater on.

The heating thermostat output will be off when comp off and external heater off.



## 9. Function settings

To adjust the functions of this product according to the installation environment, various types of function settings are available.

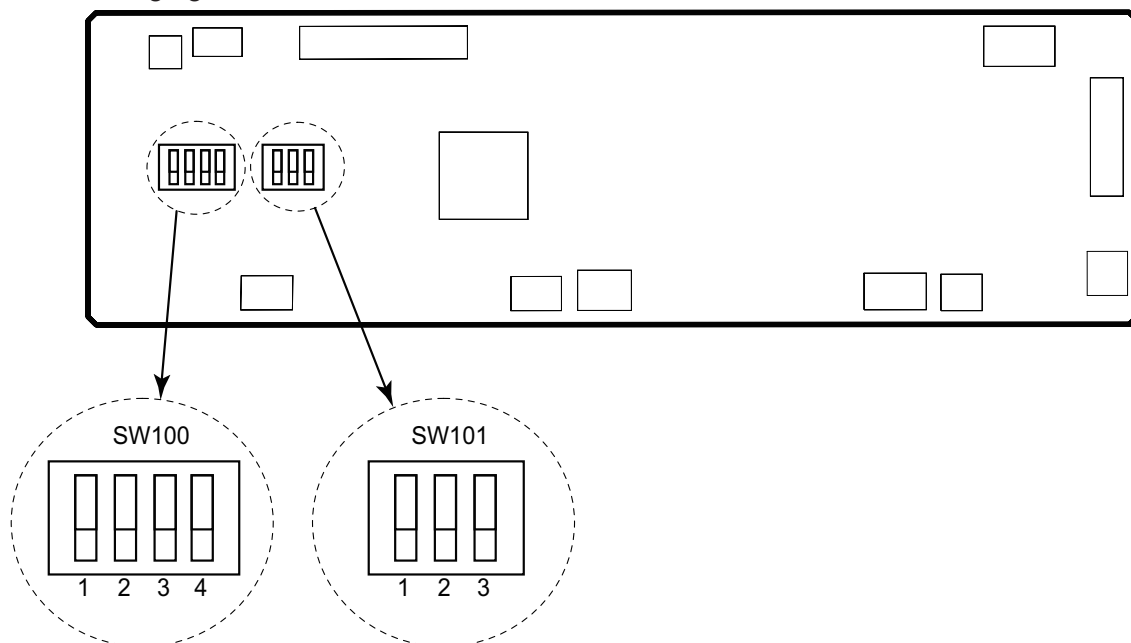
**NOTE:** Incorrect settings can cause a product malfunction.

### 9-1. Function settings on indoor unit

By using some components on the PCB, you can change the function settings.

#### ■ Component location

Components on the indoor unit main PCB used for the function settings are located as shown in the following figure.



## ■ DIP switch setting

### • SW100: Remote controller address setting

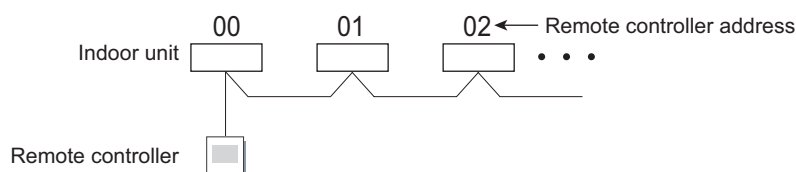
**NOTE:** Because this setting is normally done automatically when 2-core wired remote controller is installed, setting is unnecessary.

Multiple indoor units can be operated by using one wired remote controller.  
Set the unit number of each indoor unit.

Remote controller address	DIP switch number				Factory setting
	1	2	3	4	
00	OFF	OFF	OFF	OFF	◆
01	ON	OFF	OFF	OFF	
02	OFF	ON	OFF	OFF	
03	ON	ON	OFF	OFF	
04	OFF	OFF	ON	OFF	
05	ON	OFF	ON	OFF	
06	OFF	ON	ON	OFF	
07	ON	ON	ON	OFF	
08	OFF	OFF	OFF	ON	
09	ON	OFF	OFF	ON	
10	OFF	ON	OFF	ON	
11	ON	ON	OFF	ON	
12	OFF	OFF	ON	ON	
13	ON	OFF	ON	ON	
14	OFF	ON	ON	ON	
15	ON	ON	ON	ON	

#### NOTES:

- When connecting Polar 3-core wired remote controller, set the remote controller address in the order of 0, 1, 2, ....., and 15.
- When different type of indoor units (such as wall-mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.



### • SW101: Setting change prohibited

## 9-2. Contents of function setting

Each function setting listed in this section is adjustable in accordance with the installation environment.

**NOTE:** Setting will not be changed if invalid numbers or setting values are selected.

### ■ Function setting list

	Function no.	Functions
1)	11	Filter sign
2)	20	Ceiling height
3)	22	Outlet directions
4)	23	Vertical airflow direction range control
5)	30/31	Room temperature control for indoor unit sensor
6)	35/36	Room temperature control for wired remote controller sensor
7)	40	Auto restart
8)	42	Room temperature sensor switching
9)	44	Remote controller custom code
10)	46	External input control
11)	48	Room temperature sensor switching (Aux.)
12)	49	Indoor unit fan control for energy saving for cooling
13)	60	Switching functions for external output terminal
14)	61	Control switching of external heaters
15)	62	Operating temperature switching of external heaters
16)	66	Outdoor temperature zone boundary temperature A
17)	67	Outdoor temperature zone boundary temperature B

#### 1) Filter sign

Select appropriate intervals for displaying the filter sign on the indoor unit according to the estimated amount of dust in the air of the room.

If the indication is not required, select "No indication" (03).

Function number	Setting value	Setting description	Factory setting
11	00	Standard (2,500 hours)	
	01	Long interval (4,400 hours)	
	02	Short interval (1,250 hours)	
	03	No indication	◆

#### 2) Ceiling height

Select the appropriate ceiling height according to the place of installation.

Function number	Setting value	Setting description	Factory setting
20	00	Standard	◆
	01	High ceiling	
	02	Low ceiling	

For the specific height for each setting value, refer to "Installation space" in Chapter 2. ["Dimensions"](#) on page 6.

#### In case of cassette type models:

The ceiling height values are for the 4-way outlet. Do not change this setting in the 3-way outlet mode.



### 3) Outlet directions

Select the appropriate number of outlet directions according to the installation conditions.

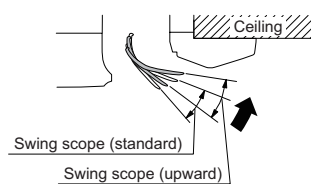
Function number	Setting value	Setting description	Factory setting
22	00	4-way	◆
	01	3-way	

### 4) Vertical airflow direction range control

To prevent draft, change the setting to "Upward" (01).

Note that the airflow in certain usage conditions may leave the ceiling dirty. In such cases, the use of the optional Panel Spacer is recommended.

Function number	Setting value	Setting description	Factory setting
23	00	Standard	◆
	01	Upward	



## 5) Room temperature control for indoor unit sensor

Depending on the installed environment, correction of the room temperature sensor may be required. Select the appropriate control setting according to the installed environment.

The temperature of the room temperature sensor is corrected as follows:

Corrected temp. = Temp. of the room temp. sensor - Correction temp. value

Example of correction:

When the temperature of the room temp. sensor is 78°F and the setting value is "03" (-2°F), the corrected temp. will be 80°F (78°F - [-2°F]).

The temperature correction values show the difference from the Standard setting "00" (manufacturer's recommended value).

Function number		Setting value	Setting description	Factory setting
30 (For cooling)	31 (For heating)	00	Standard setting	◆
		01	No correction 0.0 °F (0.0 °C)	
		02	-1 °F (-0.5 °C)	More cooling Less heating
		03	-2 °F (-1.0 °C)	
		04	-3 °F (-1.5 °C)	
		05	-4 °F (-2.0 °C)	
		06	-5 °F (-2.5 °C)	
		07	-6 °F (-3.0 °C)	
		08	-7 °F (-3.5 °C)	
		09	-8 °F (-4.0 °C)	
		10	+1 °F (+0.5 °C)	Less cooling More heating
		11	+2 °F (+1.0 °C)	
		12	+3 °F (+1.5 °C)	
		13	+4 °F (+2.0 °C)	
		14	+5 °F (+2.5 °C)	
		15	+6 °F (+3.0 °C)	
		16	+7 °F (+3.5 °C)	
		17	+8 °F (+4.0 °C)	

## 6) Room temperature control for wired remote controller sensor

Depending on the installed environment, correction of the wire remote temperature sensor may be required. Select the appropriate control setting according to the installed environment.

To change this setting, set Function 42 to "Both" (01).

Ensure that the Thermo Sensor icon is displayed on the remote controller screen.

Function number		Setting value	Setting description	Factory setting
35 (For cooling)	36 (For heating)	00	Standard setting	◆
		01	No correction 0.0 °F (0.0 °C)	
		02	-1 °F (-0.5 °C)	More cooling Less heating
		03	-2 °F (-1.0 °C)	
		04	-3 °F (-1.5 °C)	
		05	-4 °F (-2.0 °C)	
		06	-5 °F (-2.5 °C)	
		07	-6 °F (-3.0 °C)	
		08	-7 °F (-3.5 °C)	
		09	-8 °F (-4.0 °C)	
		10	+1 °F (+0.5 °C)	Less cooling More heating
		11	+2 °F (+1.0 °C)	
		12	+3 °F (+1.5 °C)	
		13	+4 °F (+2.0 °C)	
		14	+5 °F (+2.5 °C)	
		15	+6 °F (+3.0 °C)	
		16	+7 °F (+3.5 °C)	
		17	+8 °F (+4.0 °C)	

## 7) Auto restart

Enables or disables automatic restart after a power interruption.

Function number	Setting value	Setting description	Factory setting
40	00	Enable	◆
	01	Disable	

**NOTE:** Auto restart is an emergency function such as for power outage etc. Do not attempt to use this function in normal operation. Be sure to operate the unit by remote controller or external device.

## 8) Room temperature sensor switching

(Only for wired remote controller)

When using the wired remote controller temperature sensor, change the setting to "Both" (01).

Function number	Setting value	Setting description	Factory setting
42	00	Indoor unit	◆
	01	Both	

00: Sensor on the indoor unit is active.

01: Sensors on both indoor unit and wired remote controller are active.

**NOTE:** Remote controller sensor must be turned on by using the remote controller.

**9) Remote controller custom code**

(Only for wireless remote controller)

The indoor unit custom code can be changed. Select the appropriate custom code.

Function number	Setting value	Setting description	Factory setting
44	00	A	◆
	01	B	
	02	C	
	03	D	

**10) External input control**

"Operation/Stop" mode or "Forced stop" mode can be selected.

Function number	Setting value	Setting description	Factory setting
46	00	Operation/Stop mode 1	◆
	01	(Setting prohibited)	
	02	Forced stop mode	
	03	Operation/Stop mode 2	

**11) Room temperature sensor switching (Aux.)**

To use the temperature sensor on the wired remote controller only, change the setting to "Wired remote controller" (01).

This function will only work if the function setting 42 is set at "Both" (01).

When the setting value is set to "Both" (00), more suitable control of the room temperature is possible by setting function setting 30 and 31 too.

Function number	Setting value	Setting description	Factory setting
48	00	Both	◆
	01	Wired remote controller	

**12) Indoor unit fan control for energy saving for cooling**

Enables or disables the power-saving function by controlling the indoor unit fan rotation when the outdoor unit is stopped during cooling operation.

Function number	Setting value	Setting description	Factory setting
49	00	Disable	
	01	Enable	
	02	Remote controller	◆

00: When the outdoor unit is stopped, the indoor unit fan operates continuously following the setting on the remote controller.

01: When the outdoor unit is stopped, the indoor unit fan operates intermittently at a very low speed.

02: Enable or disable this function by remote controller setting.

**NOTES:**

- As the factory setting, this setting is initially invalidated.
- Set to "00" or "01" when connecting a remote controller that cannot set the Fan control for energy saving function or connecting a network converter.  
To confirm if the remote controller has this setting, refer to the operating manual of each remote controller.

### 13) Switching functions for external output terminal

Functions of the external output terminal can be switched. For details, refer to “External input and output”.

Function number	Setting value	Setting description	Factory setting
60	00	Operation status	◆
	01—04	Cooling thermostat On	
	05	Heating operation	
	06	Operation/Stop	
	07—08	Cooling thermostat On	
	09	Error status	
	10	Indoor unit fan operation status	
	11	External heater	

### 14) Control switching of external heaters

Sets the control method for external heater to be used.

For details, refer to “External heater output” in Chapter 8-4. ["Details of function"](#) on page 44.

Function number	Setting value	Setting description	Factory setting
61	00	Auxiliary heater control 1	◆
	01	Auxiliary heater control 2	
	02	Heat pump prohibition control	
	03	Auxiliary heater control by outdoor temperature 1	
	04	Auxiliary heater control by outdoor temperature 2	

### 15) Operating temperature switching of external heaters

Sets the temperature conditions when the external heater is ON.

For details, refer to “External heater output” in Chapter 8-4. ["Details of function"](#) on page 44.

Function number	Setting value	Setting description		Factory setting
		Heater: On	Heater: Off	
62	00	-5.4 °F (-3 °C)	-1.8 °F (-1 °C)	◆
	01	-3.6 °F (-2 °C)	-1.8 °F (-1 °C)	
	02	-3.6 °F (-2 °C)	-1.8 °F (-1 °C)	
	03	-5.4 °F (-3 °C)	-1.8 °F (-1 °C)	
	04	-7.2 °F (-4 °C)	-1.8 °F (-1 °C)	
	05	-9.0 °F (-5 °C)	-1.8 °F (-1 °C)	

**16) Outdoor temperature zone boundary temperature A**

Setting required if changing of the outdoor temperature setting for heat pump prohibition zone is required when auxiliary heater control by outdoor temperature 1 and 2 are performed on the indoor unit. For details, refer to "External heater output" in Chapter 8-4. ["Details of function"](#) on page 44.


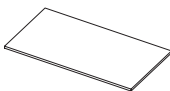

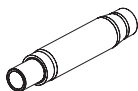
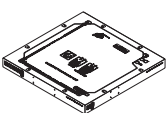



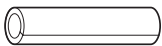

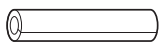

Function number	Setting value	Setting description	Factory setting
66	00	-4.0 °F (-20 °C)	◆
	01	-0.4 °F (-18 °C)	
	02	3.2 °F (-16 °C)	
	03	6.8 °F (-14 °C)	
	04	10.4 °F (-12 °C)	
	05	14.0 °F (-10 °C)	
	06	17.6 °F (-8 °C)	
	07	21.2 °F (-6 °C)	
	08	24.8 °F (-4 °C)	

**17) Outdoor temperature zone boundary temperature B**

Setting required if changing of the outdoor temperature setting for heat pump only zone is required when auxiliary heater control by outdoor temperature 1 is performed on the indoor unit. For details, refer to "External heater output" in Chapter 8-4. ["Details of function"](#) on page 44.


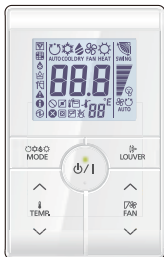
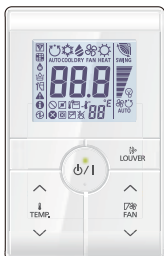
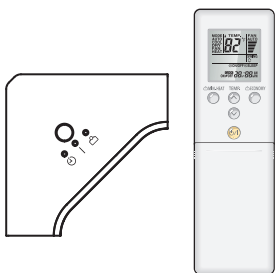
Function number	Setting value	Setting description	Factory setting
67	00	42.8 °F (6 °C)	◆
	01	14.0 °F (-10 °C)	
	02	17.6 °F (-8 °C)	
	03	21.2 °F (-6 °C)	
	04	24.8 °F (-4 °C)	
	05	28.4 °F (-2 °C)	
	06	32.0 °F (0 °C)	
	07	35.6 °F (2 °C)	
	08	39.2 °F (4 °C)	
	09	42.8 °F (6 °C)	
	10	46.4 °F (8 °C)	
	11	50.0 °F (10 °C)	
	12	53.6 °F (12 °C)	
	13	57.2 °F (14 °C)	
	14	60.8 °F (16 °C)	
	15	64.4 °F (18 °C)	

## 10. Accessories

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Installation manual		1	Insulation		1
Operation manual		1	Drain hose		1
Template (Carton top)		1	Hose band		1
Washer		8	Drain hose heat insulation		1
Coupler heat insulation (Large)		1	Cable tie (Large)		4
Coupler heat insulation (Small)		1	Cable tie (Small)		2

## 11. Optional parts

### 11-1. Controllers

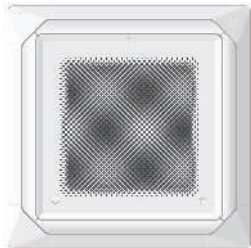

Exterior	Part name	Model name	Summary
	Wired Remote Controller	UTY-RNRUZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire
	Simple Remote Controller	UTY-RSRY	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Non-polar 2-wire
	Simple Remote Controller	UTY-RHRY	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting. Wire type: Non-polar 2-wire
	IR Receiver Kit with Wireless Remote Controller	UTY-LBTUC	Unit control is performed by Wireless Remote Controller.

#### NOTES:

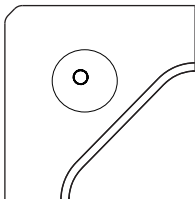
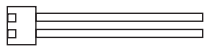

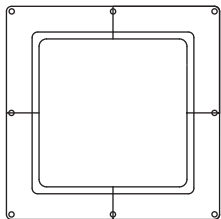
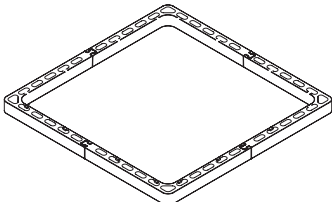

- Available functions may differ by the remote controller. For details, refer to the operation manual.
- When using the group controlling system of the Wired Remote Controller, using WLAN Adapter is prohibited.

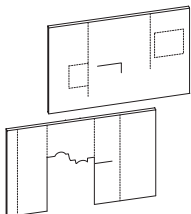
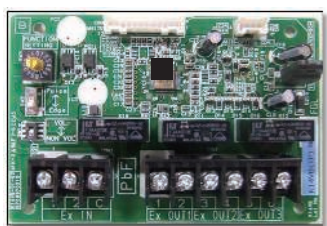
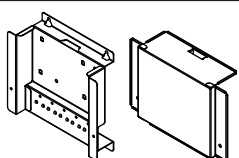


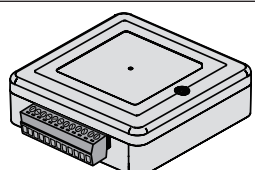




## 11-2. Cassette grille

Exterior	Part name	Model name	Summary
	Cassette Grille	UTG-GCGF	This cassette grille to blow airflow in 360° direction by unique seamless airflow louver design.
	Cassette Grille	UTG-LCGVCB	This cassette grille to blow airflow in 360° direction by unique seamless airflow louver design. Black color model.

## 11-3. Others

Exterior	Part name	Model name	Summary
	Human Sensor Kit	UTY-SHZXC	For circular flow cassette type.
	External Connect Kit	UTY-XWZXZG	Use to connect with various peripheral devices and air conditioner PCB. For control output port.
	Air Outlet Shutter Plate	UTR-YDZK	Installed at the air outlet when 3-directions mode is performed.
	Wide Panel	UTG-AKXA-W	Hides the gap between the ceiling hole and the cassette grille.
	Panel Spacer	UTG-BKXA-W	If there is not enough height in the ceiling space, by inserting this spacer between the cassette grille and the ceiling surface, the height of the unit body goes into the ceiling space become 50-mm lower.
	Fresh Air Intake Kit	UTZ-VXRA	By attaching Fresh Air Intake Kit to the indoor unit, it can be taken in fresh air of up to 10% of "high" air volume of the indoor unit. Do not branch the connecting duct into multiple rooms.

Exterior	Part name	Model name	Summary
	Insulation for High Humidity	UTZ-KXRA	Install when the under-roof condition is expected to be the humidity of over 80% and the temperature of over 86 °F(30 °C).
	External Input and Output PCB	UTY-XCSX	Use to connect with external devices and air conditioner PCB.
	External Input and Output PCB Box	UTZ-GXRA	For installing the External input and output PCB.
	WLAN Adapter	UTY-TFSXZ2	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets. For connection indoor unit with UART interface. Appropriate application for each region is required to use this option. For details, contact FGL sales company.
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network.
	Thermostat Converter	UTY-TTRX	This converter can control Fujitsu General products using a third-party thermostat controller.
	Network Converter	UTY-VTGX	This converter is required when connecting single split system to VRF network system.
	Network Converter (AC power supply)	UTY-VTGXV	This converter is required when connecting single split system to VRF network system.

**NOTE:** Combined use of following optional parts and WLAN Adapter (UTY-TFSXZ2) is not allowed.

- External Input and Output PCB
- Modbus Converter
- Thermostat Converter
- Network Converter
- Network Converter (AC power supply)

# **Part 2. OUTDOOR UNIT**

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## **SINGLE TYPE:**

**AOU18RGLX**

**AOU24RGLX**

**AOU30RGLX**

**AOU36RGLX**

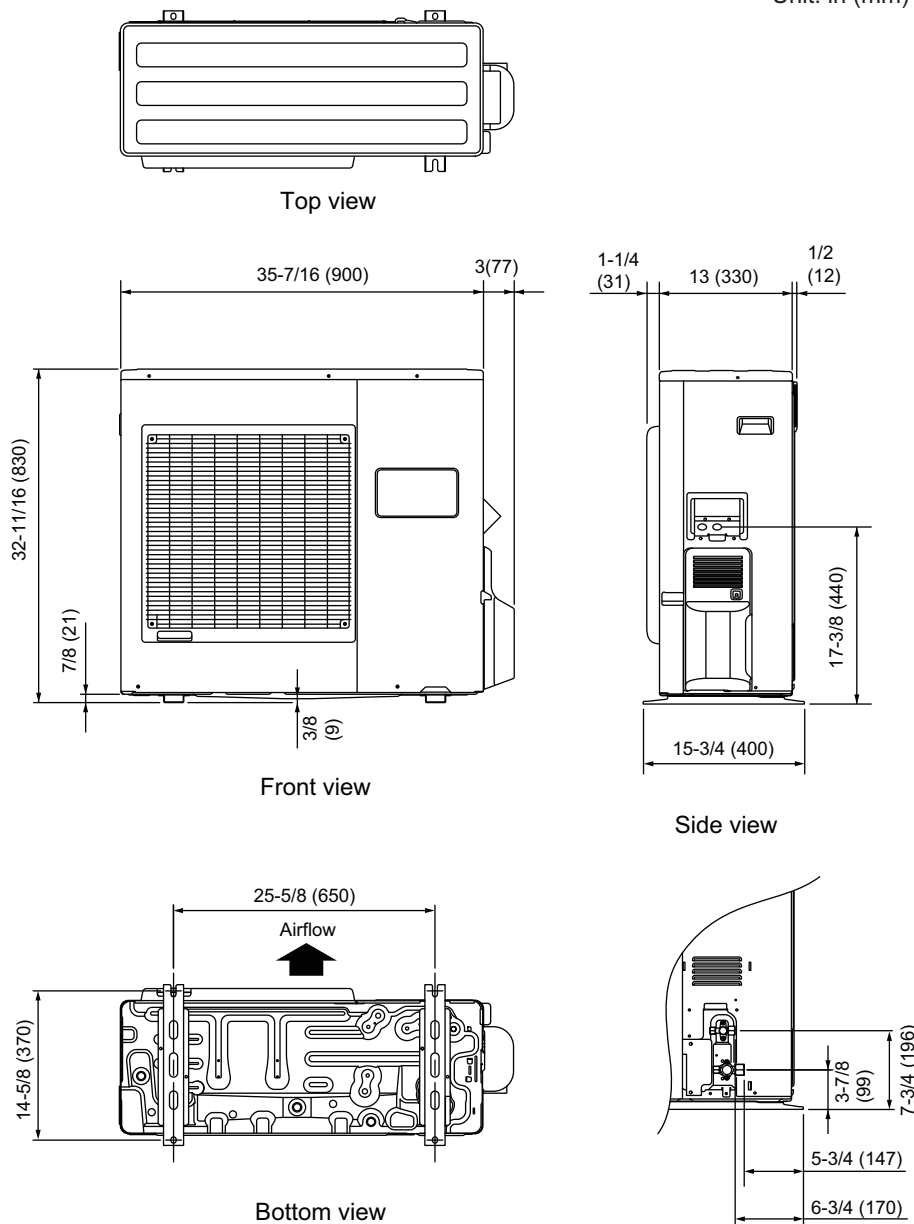
# 1. Specifications

Type				Inverter, Heat pump			
Model name				AOU18RGLX	AOU24RGLX	AOU30RGLX	AOU36RGLX
Power supply				208/230 V~ 60 Hz			
Power supply intake				Outdoor unit			
Available voltage range				187—253 V			
Starting current			A	6.6	9.6	11.5	16.1
Fan	Airflow rate	Cooling	CFM (m³/h)	1,177 (2,000)	2,119 (3,600)		2,237 (3,800)
		Heating		2,119 (3,600)		2,237 (3,800)	
	Type × Qty				Propeller × 1		
Motor output		W	100				
Sound pressure level *		Cooling	dB (A)	47	53		54
		Heating		50	55		56
Heat exchanger type		Dimensions (H × W × D)	in (mm)	31-7/16 × 35-7/16 × 1-7/16 (798 × 900 × 36.4)			
		Fin pitch	FPI	20			
		Rows × Stages		2 × 38			
		Pipe type		Copper			
		Fin	Type (Material)	Aluminum			
		Surface treatment	Blue fin				
Compressor	Type			DC twin rotary			
	Motor output	W	2,100				
Refrigerant		Type	R410A				
		Charge	lb oz	4 lb 10 oz			
			g	2,100			
Refrigerant oil		Type	POE (RB68)				
		Amount	in³ (cm³)	48.8 (800)			
Enclosure		Material	Steel				
		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		39-3/8 × 41-5/16 × 17-1/2 (1,000 × 1,050 × 445)				
Weight	Net	lb (kg)	134 (61)				
	Gross		152 (69)				
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (6.35)	Ø3/8 (9.52)		
		Gas		Ø1/2 (12.70)	Ø5/8 (15.88)		
	Method		Flare				
	Pre-charge length		ft (m)	66 (20)			
	Max. length			164 (50)			
	Max. height difference			98 (30)			
Operation range		Cooling	°F (°C)	-5 to 115 (-21 to 46)			
		Heating		-5 to 75 (-21 to 24)			
Drain hose	Material			LDPE			
	Tip diameter	in (mm)	Ø1/2 (Ø13.0) (I.D.), Ø5/8 to Ø11/16 (Ø16.0 to Ø16.7) (O.D.)				
NOTES:							
<ul style="list-style-type: none"><li>Specifications are based on the following conditions:<ul style="list-style-type: none"><li>Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).</li><li>Heating: Indoor temperature of 70°FDB (21.11°CDB)/59°FWB (15°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).</li><li>Pipe length: 24 ft 6 in (7.5 m), Height difference: 0 ft (0 m), (Between outdoor unit and indoor unit.)</li></ul></li><li>Protective function might work when using it outside the operation range.</li><li>*: Sound pressure level<ul style="list-style-type: none"><li>Measured values in manufacturer's anechoic chamber.</li><li>Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li></ul></li></ul>							

## 2. Dimensions

### 2-1. Models: AOU18RGLX, AOU24RGLX, AOU30RGLX, and AOU36RGLX

Unit: in (mm)



### 3. Installation space

#### 3-1. Models: AOU18RGLX, AOU24RGLX, AOU30RGLX, and AOU36RGLX

##### ■ Space requirement

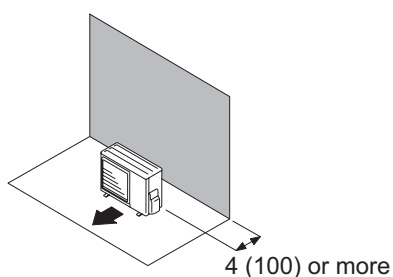
Provide sufficient installation space for product safety.

##### ● Single outdoor unit installation

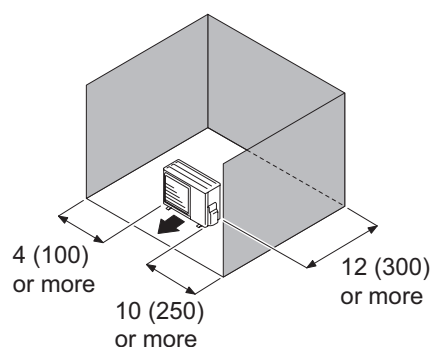
- When the upper space is open:

Unit: in (mm)

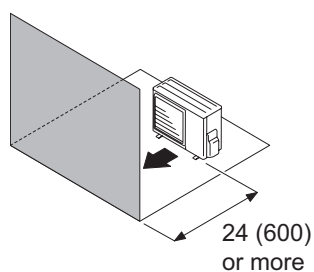
When there are obstacles at the rear only.



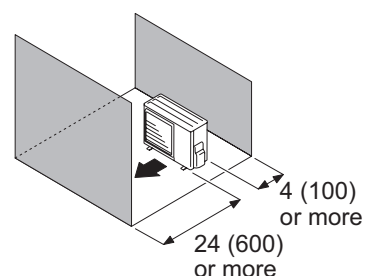
When there are obstacles at the rear and sides.



When there are obstacles at the front only.



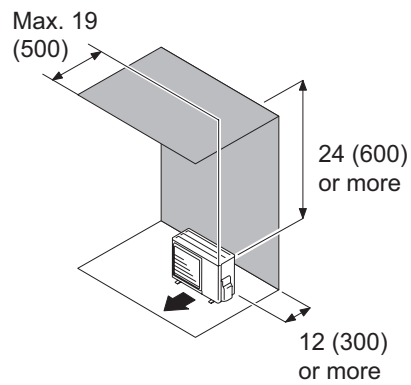
When there are obstacles at the front and rear.



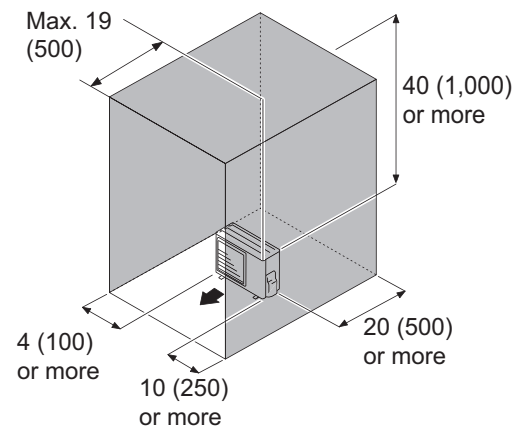
- When there is an obstruction in the upper space:

Unit: in (mm)

When there are obstacles at the rear and above.



When there are obstacles at the rear, sides, and above.

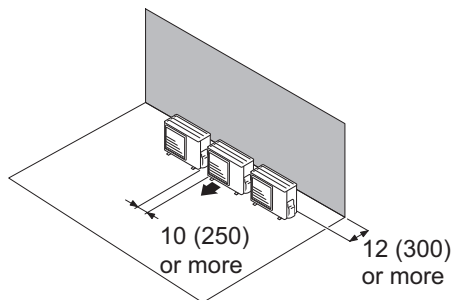


## ● Multiple outdoor unit installation

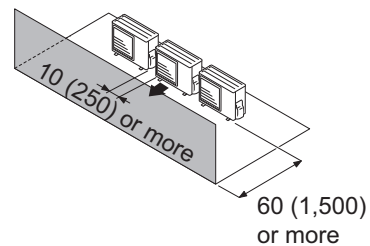
- When the upper space is open:

Unit: in (mm)

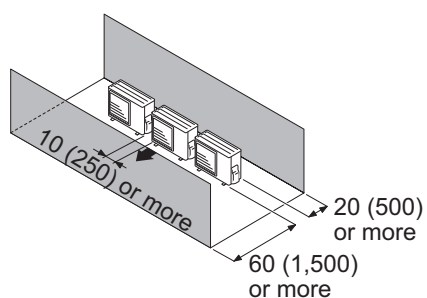
When there are obstacles at the rear only.



When there are obstacles at the front only.



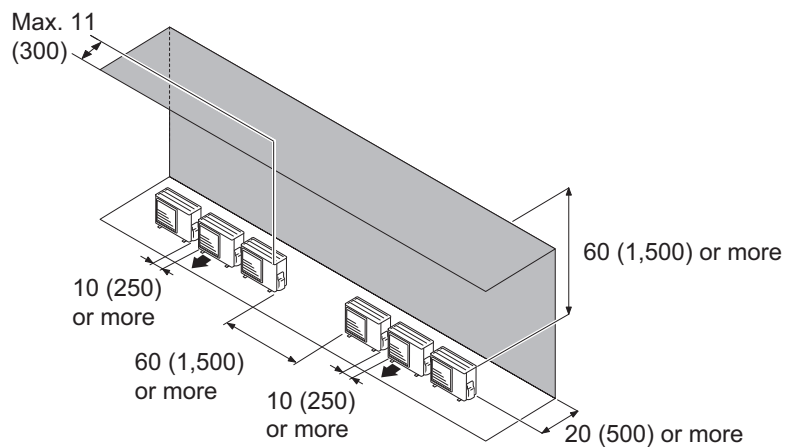
When there are obstacles at the front and rear.



- When there is an obstruction in the upper space:

Unit: in (mm)

When there are obstacles at the rear and above.

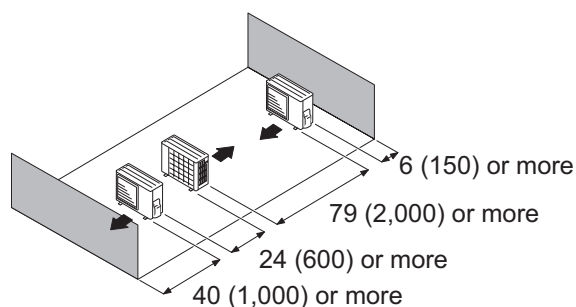




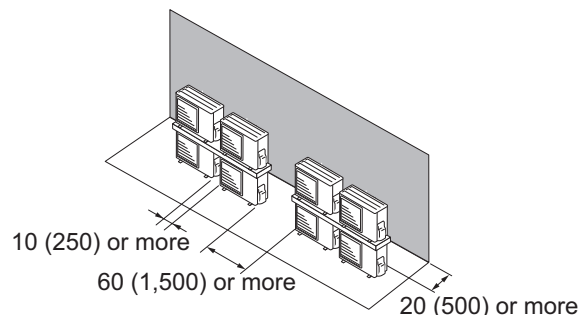
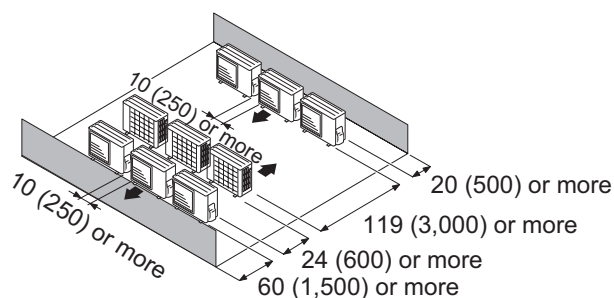
## ● Outdoor unit installation in multi-row

Unit: in (mm)

Single parallel unit arrangement



Multiple parallel unit arrangement

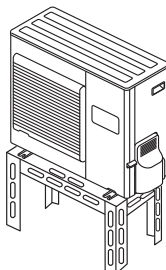


### NOTES:

- If the space is larger than stated above, the condition will be the same as when there is no obstacle.
- Height above the floor level should be 2 in (50 mm) or more.
- When installing the outdoor unit, be sure to open the front and left side to obtain better operation efficiency.

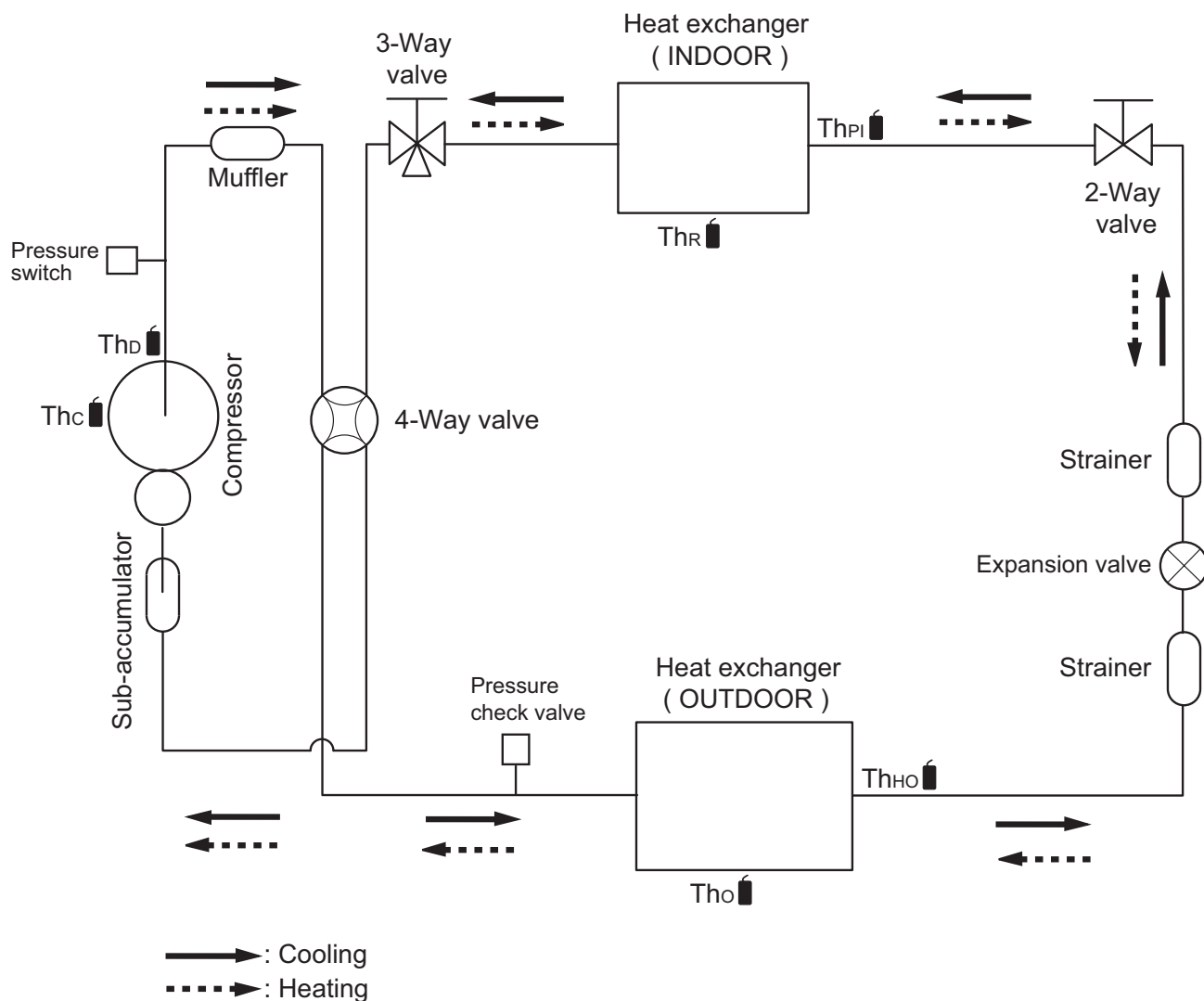
### ⚠ CAUTION

- Do not install the outdoor unit in two-stage where the drain water could freeze. Otherwise the drainage from the upper unit may form ice and cause a malfunction of the lower unit.
- When the outdoor temperature is 32 °F (0 °C) or less, do not use the accessory drain pipe and drain cap. If the drain pipe and drain cap are used, the drain water in the pipe may freeze in extremely cold climate. (For reverse cycle model only.)
- In area with heavy snowfall, if the inlet and outlet of the outdoor unit is blocked with snow, it might become difficult to get warm, and it is likely to cause product malfunction. Construct a canopy and a pedestal, or place the unit on a high stand that is locally installed.



## 4. Refrigerant circuit

### 4-1. Models: AOU18RGLX, AOU24RGLX, AOU30RGLX, and AOU36RGLX



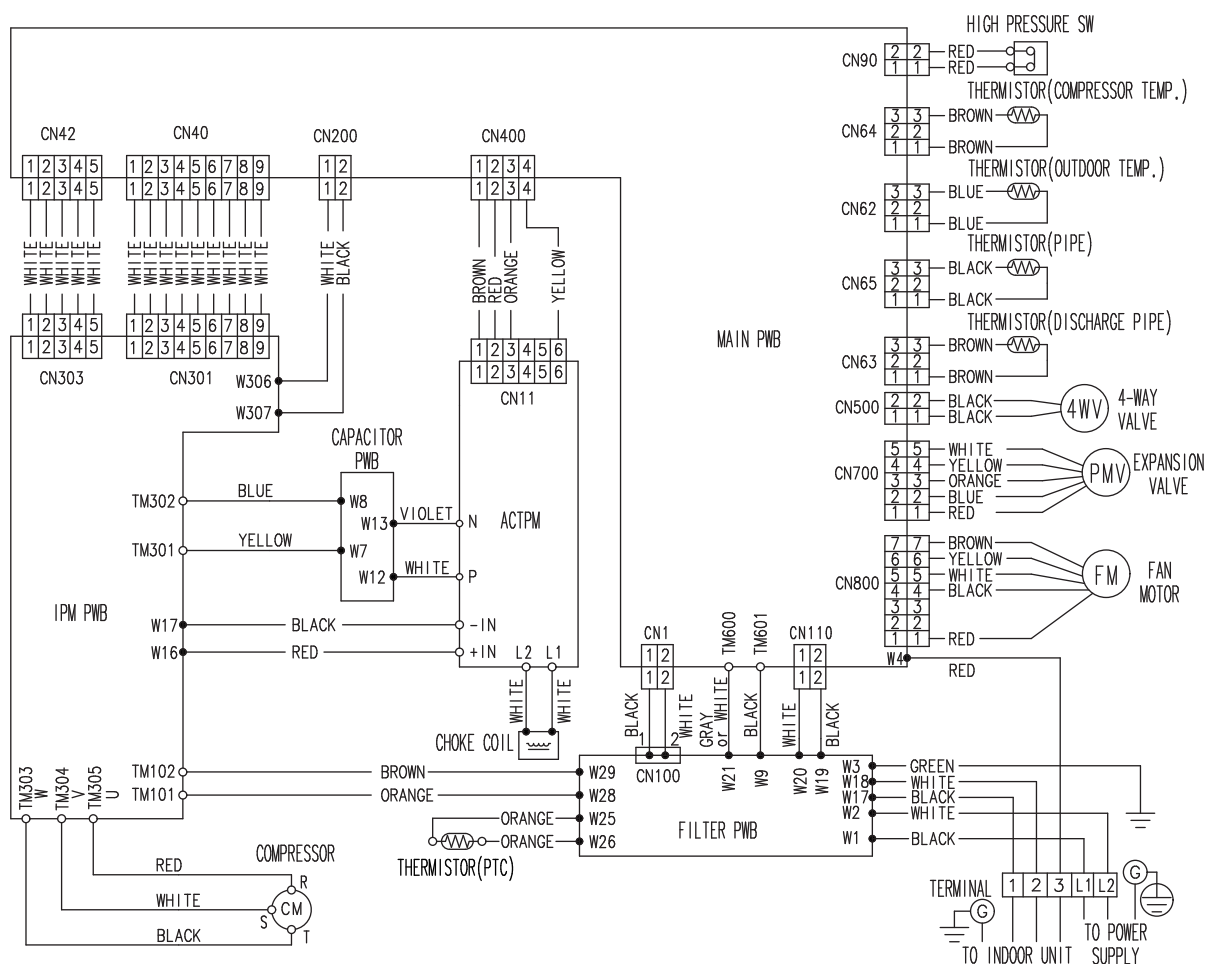
- $Th_C$  : Thermistor (Compressor temperature)  
 $Th_D$  : Thermistor (Discharge temperature)  
 $Th_O$  : Thermistor (Outdoor temperature)  
 $Th_{HO}$  : Thermistor (Heat exchanger Out temperature)  
 $Th_R$  : Thermistor (Room temperature)  
 $Th_{PI}$  : Thermistor (Pipe temperature)

**OUTDOOR UNIT**  
**AOU18-36RGLX**

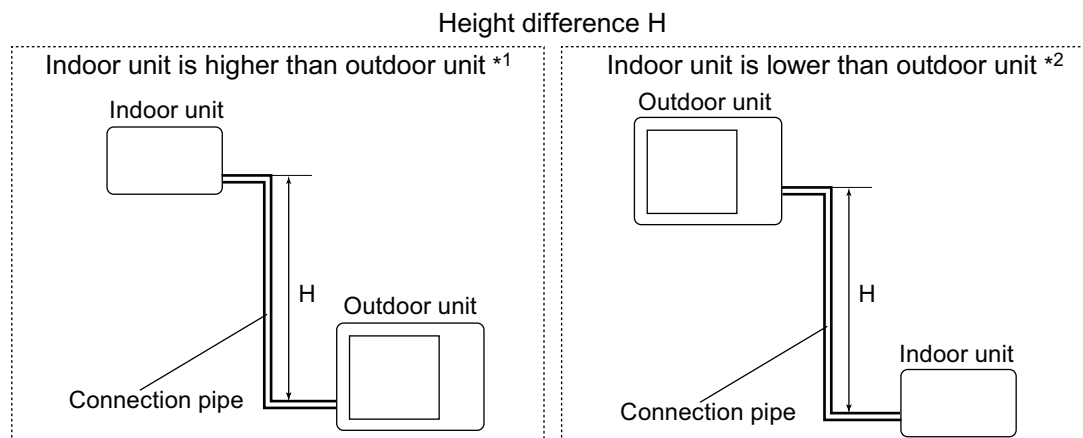
## 5-2. Models: AOU24RGLX, AOU30RGLX, and AOU36RGLX

OUTDOOR UNIT  
AOU18-36RGLX

OUTDOOR UNIT  
AOU18-36RGLX



## 6. Capacity compensation rate for pipe length and height difference



### 6-1. Models: AOU18RGLX, AOU24RGLX, AOU30RGLX, and AOU36RGLX

**NOTE:** Values mentioned in the table are calculated based on the maximum capacity.

COOLING		Pipe length								
		m		5	7.5	10	20	30	40	50
			ft	16	24	32	65	98	131	164
Height difference H	Indoor unit is higher than outdoor unit *1	30	98	—	—	—	—	0.913	0.899	0.881
		20	65	—	—	—	0.941	0.929	0.914	0.896
		10	32	—	—	0.974	0.957	0.944	0.930	0.911
		7.5	24	—	0.988	0.978	0.960	0.948	0.934	0.914
		5	16	0.998	0.992	0.982	0.964	0.952	0.938	0.919
		0	0	1.000	1.000	0.989	0.972	0.960	0.945	0.926
	Indoor unit is lower than outdoor unit *2	-5	-16	1.000	1.000	0.989	0.972	0.960	0.945	0.926
		-7.5	-24	—	1.000	0.989	0.972	0.960	0.945	0.926
		-10	-32	—	—	0.989	0.972	0.960	0.945	0.926
		-20	-65	—	—	—	0.972	0.960	0.945	0.926
		-30	-98	—	—	—	—	0.960	0.945	0.926

HEATING		Pipe length								
		m		5	7.5	10	20	30	40	50
			ft	16	24	32	65	98	131	164
Height difference H	Indoor unit is higher than outdoor unit *1	30	98	—	—	—	—	0.939	0.922	0.907
		20	65	—	—	—	0.963	0.939	0.922	0.907
		10	32	—	—	0.999	0.963	0.939	0.922	0.907
		7.5	24	—	1.000	0.999	0.963	0.939	0.922	0.907
		5	16	1.000	1.000	0.999	0.963	0.939	0.922	0.907
		0	0	1.000	1.000	0.999	0.963	0.939	0.922	0.907
	Indoor unit is lower than outdoor unit *2	-5	-16	1.000	0.995	0.995	0.958	0.934	0.917	0.903
		-7.5	-24	—	0.983	0.992	0.955	0.932	0.915	0.900
		-10	-32	—	—	0.990	0.953	0.929	0.912	0.898
		-20	-65	—	—	—	0.943	0.920	0.903	0.889
		-30	-98	—	—	—	—	0.911	0.894	0.880

## 7. Additional charge calculation

### 7-1. Model: AOU18RGLX

Refrigerant type		R410A
Factory charge amount	lb oz	4 lb 10 oz
	g	2,100

#### ■ Refrigerant charge

Total pipe length	ft	66 or less	98	131	164 (Max.)	0.22 oz/ft (20 g/m)
	m	20 or less	30	40	50 (Max.)	
Additional charge amount	oz	0	7.1	14.1	21.2	
	g	0	200	400	600	

### 7-2. Models: AOU24RGLX, AOU30RGLX, and AOU36RGLX

Refrigerant type		R410A
Factory charge amount	lb oz	4 lb 10 oz
	g	2,100

#### ■ Refrigerant charge

Total pipe length	ft	66 or less	98	131	164 (Max.)	0.43 oz/ft (40 g/m)
	m	20 or less	30	40	50 (Max.)	
Additional charge amount	oz	0	14.1	28.2	42.3	
	g	0	400	800	1,200	

## 8. Airflow

### 8-1. Model: AOU18RGLX

#### ● Cooling

m <sup>3</sup> /h	2,000
l/s	556
CFM	1,177

#### ● Heating

m <sup>3</sup> /h	2,530
l/s	703
CFM	1,489

### 8-2. Model: AOU24RGLX

#### ● Cooling

m <sup>3</sup> /h	3,600
l/s	1,000
CFM	2,119

#### ● Heating

m <sup>3</sup> /h	3,600
l/s	1,000
CFM	2,119

## 8-3. Model: AOU30RGLX

### ● Cooling

m <sup>3</sup> /h	3,600
l/s	1,000
CFM	2,119

### ● Heating

m <sup>3</sup> /h	3,600
l/s	1,000
CFM	2,119

## 8-4. Model: AOU36RGLX

### ● Cooling

m <sup>3</sup> /h	3,800
l/s	1,056
CFM	2,237

### ● Heating

m <sup>3</sup> /h	3,800
l/s	1,056
CFM	2,237

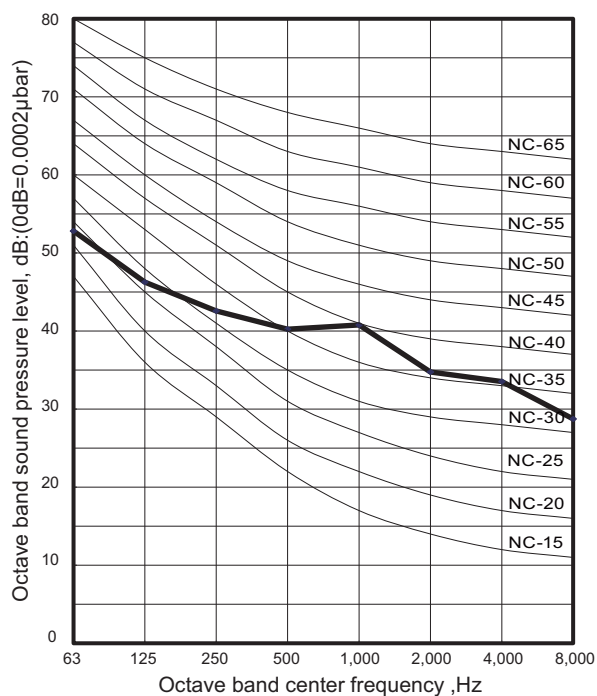


## 9. Operation noise (sound pressure)

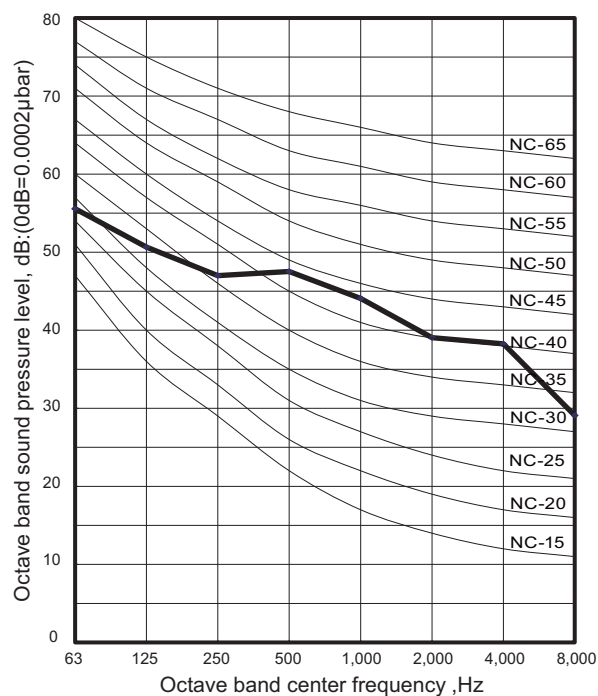
### 9-1. Noise level curve

#### ■ Model: AOU18RGLX

##### ● Cooling

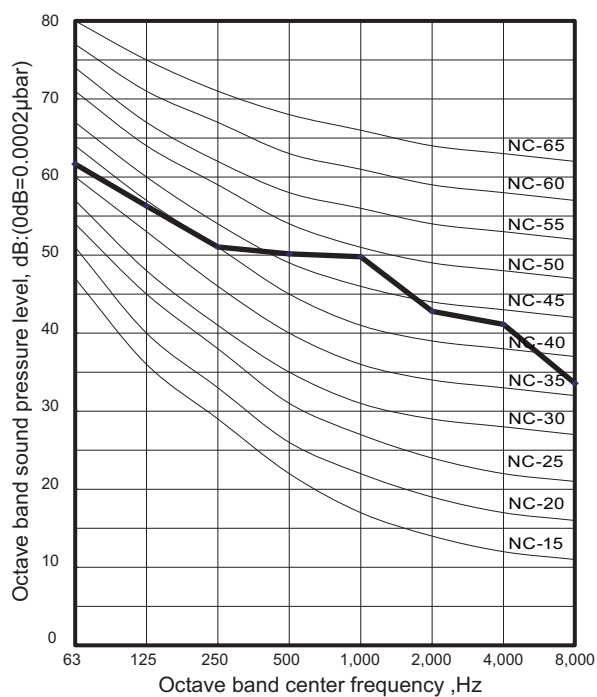


##### ● Heating

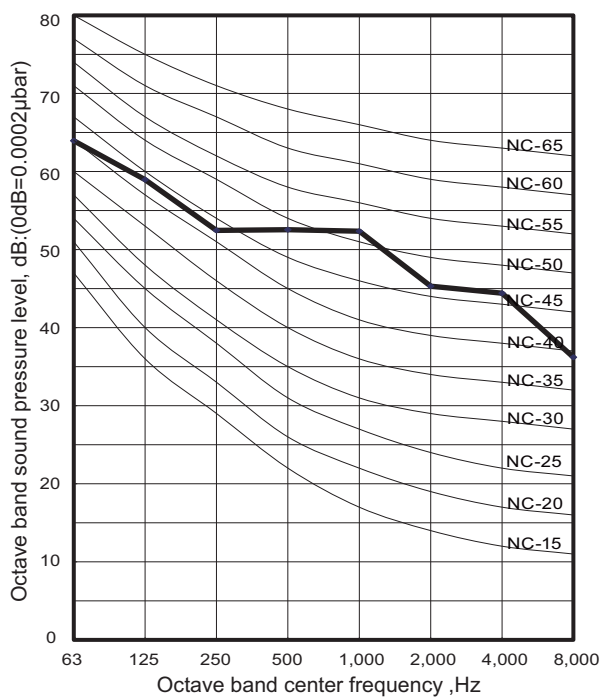


#### ■ Model: AOU24RGLX

##### ● Cooling

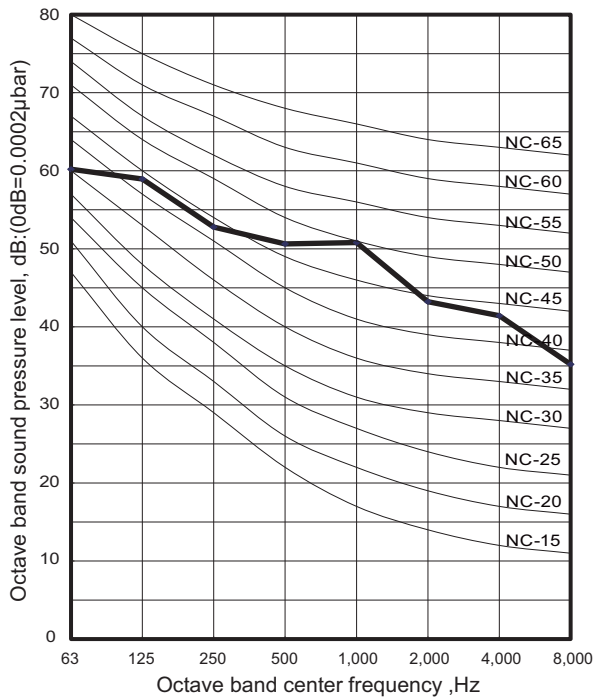


##### ● Heating

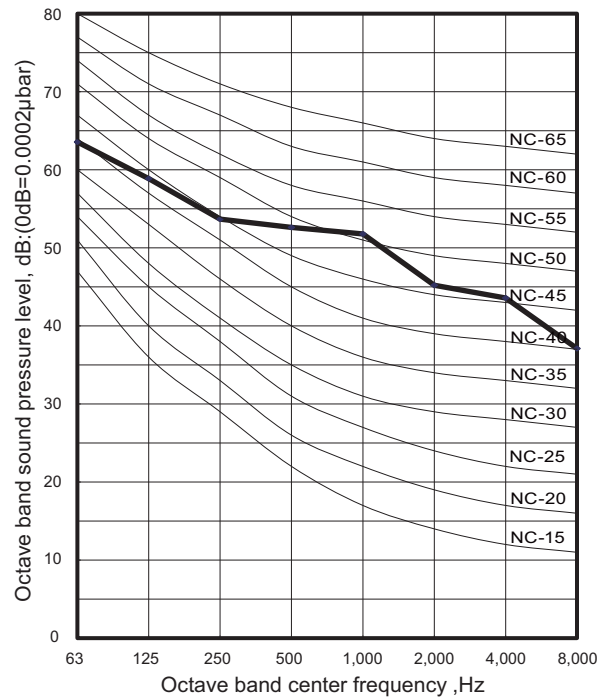


## Model: AOU30RGLX

### Cooling

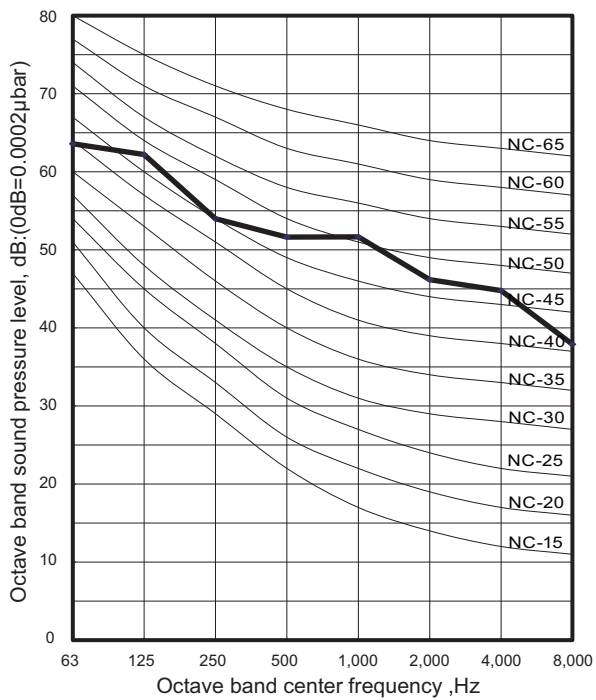


### Heating

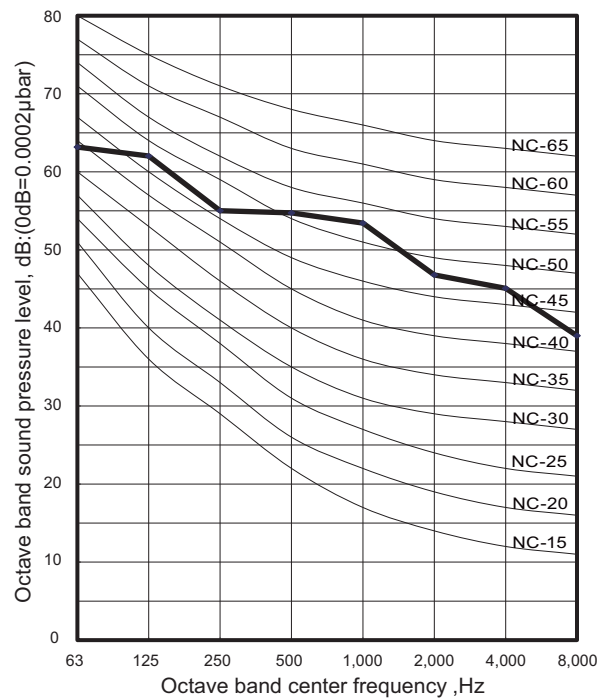


## Model: AOU36RGLX

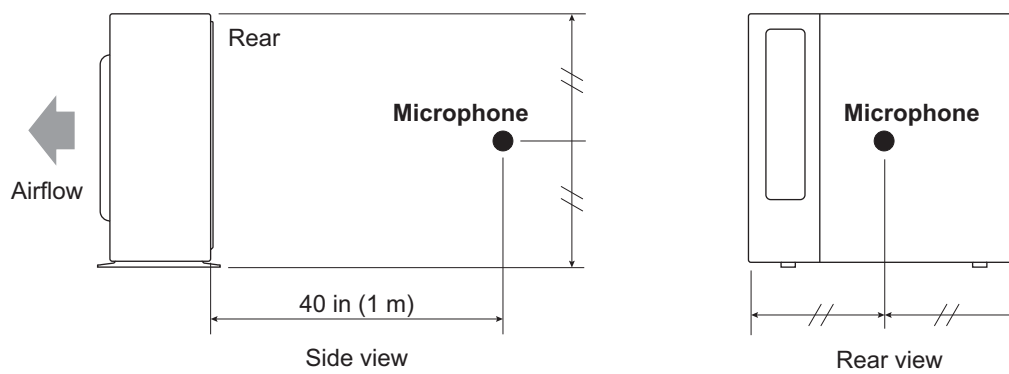
### Cooling



### Heating



## 9-2. Sound level check point



**NOTE:** Detailed shape of the actual outdoor unit might be slightly different from the one illustrated above.

## 10. Electrical characteristics

Item			Unit	Model name			
				AOU18RGLX	AOU24RGLX	AOU30RGLX	AOU36RGLX
Power supply	Voltage		V	208/230~			
	Frequency		Hz	60			
MCA *1			A	18.3	20.8		24.6
Starting current			A	6.6	9.6	11.5	16.1
Wiring spec. *2	MAX. CKT. BKR *3		A	20	30		
	Power cable		AWG	16—14			
	Size		AWG	20—16			
	Connection cable *4	Limited wiring length	ft (m)	167 (51)			

\*1: Minimum Circuit Ampacity (Calculation based on UL1995)

\*2: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005. As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.

\*3: Maximum Circuit Breaker

\*4: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.




## 11. Safety devices

Type of protection	Protection form		Model
			AOU18RGLX
Circuit protection	Current fuse (Filter PCB)		250 V, 5 A × 2
	Current fuse (Main PCB)		250 V, 3.15 A × 2
Fan motor protection	Thermal protection	Activate	302 <sup>+27</sup> <sub>-18</sub> °F (150 <sup>+15</sup> <sub>-10</sub> °C) Fan motor stop
		Reset	248 <sup>+27</sup> <sub>-18</sub> °F (120 <sup>+15</sup> <sub>-10</sub> °C) Fan motor restart
Compressor protection	Terminal protection program (Compressor temp.)	Activate	226°F (108°C) Compressor stop
		Reset	176°F (80°C) Compressor restart
	Thermal protection program (Discharge temp.) (COOL or DRY mode)	Activate	230°F (110°C) Compressor stop
		Reset	After 7 minutes Compressor restart
High pressure protection	Pressure switch	Activate	609 ±14.5 psi (4.2 ±0.1 MPa) Compressor stop
		Reset	464 ±21.75 psi (3.2 ±0.15 MPa) Compressor restart

Type of protection	Protection form		Model		
			AOU24RGLX	AOU30RGLX	AOU36RGLX
Circuit protection	Current fuse (Filter PCB)		250 V, 5 A × 2		
	Current fuse (Main PCB)		250 V, 3.15 A × 2		
Fan motor protection	Thermal protection	Activate	302 <sup>+27</sup> <sub>-18</sub> °F (150 <sup>+15</sup> <sub>-10</sub> °C) Fan motor stop		
		Reset	248 <sup>+27</sup> <sub>-18</sub> °F (120 <sup>+15</sup> <sub>-10</sub> °C) Fan motor restart		
Compressor protection	Terminal protection program (Compressor temp.)	Activate	226°F (108°C) Compressor stop		
		Reset	176°F (80°C) Compressor restart		
	Thermal protection program (Discharge temp.) (COOL or DRY mode)	Activate	230°F (110°C) Compressor stop		
		Reset	After 7 minutes Compressor restart		
High pressure protection	Pressure switch	Activate	609 ±14.5 psi (4.2 ±0.1 MPa) Compressor stop		
		Reset	464 ±21.75 psi (3.2 ±0.15 MPa) Compressor restart		

## 12. Accessories

### 12-1. Models: AOU18RGLX, AOU24RGLX, AOU30RGLX, and AOU36RGLX

Part name	Exterior	Qty	Part name	Exterior	Qty
Installation manual		1	Drain cap		5
Drain pipe		1			