FUJITSU

Refrigerant R410A INVERTER

AIR CONDITIONER

Cassette type

DESIGN & TECHNICAL MANUAL

INDOOR

AUUH18LUAS
AUUH24LUAS
AUUH30LUAS
AUUH36LUAS

OUTDOOR

AOUH18LUAS1

AOUH24LUAS1

AOUH30LUAS1
AOUH36LUAS1

FUJITSU GENERAL LIMITED

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Part 1. INDOOR UNIT

AUUH18LUAS
AUUH24LUAS
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AUUH36LUAS

CASSETTE AUUH18-36LUAS

1. Specifications

Type					Cassette	
					Inverter, Heat pump	
Model name					AUUH18LUAS	AUUH24LUAS
Power supply intake					Outdoor unit	
System power supply	Voltage			V	208/230	
	Frequency			Hz	60	
	Available voltage range			V	187—253	
Indoor unit power supply (from outdoor unit)				V	208/230	
Capacity	Cooling		Rated	kW	5.28	7.03
				Btu/h	18,000	24,000
			Min.—Max.	kW	0.91—5.89	1.58—8.21
				Btu/h	3,100—20,100	5,400—28,000
	Heating	47°FDB (Outdoor temp.)	Rated	kW	6.33	7.91
				Btu/h	21,600	27,000
			Min.—Max.	kW	0.91—7.50	1.58—9.38
				Btu/h	3,100—25,600	5,400—32,000
		17°FDB (Outdoor temp.)*1	Rated	kW	4.43	5.28
				Btu/h	15,100	18,000
			Max.	kW	5.66	7.62
				Btu/h	19,300	26,000
		5°FDB (Outdoor temp.)*2	Rated	kW	4.92	6.92
				Btu/h	16,800	23,600
Input power	Cooling		Rated	kW	1.38	1.90
			Min.—Max.		0.13—1.94	0.39—2.82
	Heating	47°FDB (Outdoor temp.)	Rated		1.76	2.08
			Min.—Max.		0.14—2.70	0.45—2.90
		17°FDB (Outdoor temp.)*1	Rated		1.47	1.71
			Max.		2.34	3.16
		5°FDB (Outdoor temp.)*2	Rated		2.20	3.26
	Fan		HIGH	W	16	21
			MED		12	16
			LOW		11	13
			QUIET		7	9
Current	Cooling		Rated	A	6.1	8.4
	Heating				7.8	9.2
EER2	Cooling			Btu/hW	13.0	12.6
COP2	Heating			kW/kW	3.6	3.8
SEER2	Cooling			Btu/hW	23.5	23.0
HSPF2	Heating				11.2	11.0
Power factor	Cooling			%	98.1	98.3
	Heating				98.3	
Moisture removal				pints/h (L/h)	3.6 (1.7)	6.1 (2.9)
Maximum operating current*3	Cooling			A	11.8	15.8
	Heating				14.8	15.8
Fan	Airflow rate	Cooling	HIGH	CFM (m^3/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)	34	36
			MED		32	34
			LOW		31	33
			QUIET		28	30
		Heating	HIGH		34	36
			MED		32	34
			LOW		31	33
			QUIET		28	30
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 × 81-1/16 × 1/2 (210 × 2,059 × 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 × 37-3/8 × 38-3/16 (298 × 950 × 970)	
Weight	Net			lb (kg)	53 (24)	
	Gross				64 (29)	
Connection pipe	Size	Liquid		in (mm)	Ø1/4 (Ø6.35)	Ø3/8 (Ø9.52)
		Gas			Ø1/2 (Ø12.70)	Ø5/8 (Ø15.88)
	Method				Flare	
Drain hose	Material				PVC	
	Tip diameter			in (mm)	Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (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)	

CASSETTE
AUUH18-36LUAS

Type				Cassette	
				Inverter, Heat pump	
Model name				AUUH18LUAS	AUUH24LUAS
Cassette grille	Enclosure	Material		Polystyrene	
		Color		White (UTG-GCGF) Approximate color of Munsell N9.25/	
				Black (UTG-LCGVCB) Approximate color of Munsell N2	
	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: Wired, Wireless, Mobile app*5 (AIRSTAGE Mobile)	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 80°FDB/67°FWB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°FWB (35°CDB/23.9°CWB).
  - Heating: Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°FWB (8.33°CDB/6.11°CWB).
  - *1: Heating (17°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°FWB (-8.33°CDB/-9.44°CWB).
  - *2: Heating (5°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°FWB (-15.0°CDB/-15.56°CWB).
  - Test conditions are based on AHRI 210/240 2023.
  - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *3: Maximum current:
  - The maximum value when operated within the operation range.
  - The total current of indoor unit and outdoor unit.
- *4: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *5: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.

CASSETTE
AUUH18-36LUAS

Type					Cassette	
					Inverter, Heat pump	
Model name					AUUH30LUAS	AUUH36LUAS
Power supply intake					Outdoor unit	
System power supply		Voltage		V	208/230	
		Frequency		Hz	60	
		Available voltage range		V	187—253	
Indoor unit power supply (from outdoor unit)				V	208/230	
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	11.14
				Btu/h	32,000	38,000
			Min.—Max.	kW	2.70—11.14	2.70—12.60
				Btu/h	9,200—38,000	9,200—43,000
		17°FDB (Outdoor temp.)*1	Rated	kW	6.10	7.21
				Btu/h	20,800	24,600
			Max.	kW	9.05	10.11
				Btu/h	30,900	34,500
		5°FDB (Outdoor temp.)*2	Rated	kW	8.21	9.09
				Btu/h	28,000	31,000
Input power	Cooling		Rated	kW	2.56	3.60
			Min.—Max.		0.38—3.69	0.38—4.28
	Heating	47°FDB (Outdoor temp.)	Rated		2.36	2.96
			Min.—Max.		0.59—3.61	0.59—3.97
		17°FDB (Outdoor temp.)*1	Rated		1.92	2.45
			Max.		3.80	4.20
		5°FDB (Outdoor temp.)*2	Rated		3.87	4.29
	Fan		HIGH	W	52	87
			MED		39	52
			LOW		31	39
			QUIET		20	23
Current		Cooling	Rated	A	11.3	15.8
		Heating			10.4	13.0
EER2		Cooling		Btu/hW	11.7	10.0
COP2		Heating		kW/kW	3.98	3.76
SEER2		Cooling		Btu/hW	21.5	20.5
HSPF2		Heating			10.6	10.2
Power factor		Cooling		%	98.5	99.1
		Heating			98.7	99.0
Moisture removal				pints/h (L/h)	6.3 (3.0)	7.8 (3.7)
Maximum operating current*3		Cooling		A	18.3	19.8
		Heating			18.3	19.8
Fan	Airflow rate	Cooling	HIGH	CFM (m^3/h)	942 (1,600)	1,118 (1,900)
			MED		848 (1,440)	942 (1,600)
			LOW		771 (1,310)	848 (1,440)
			QUIET		677 (1,150)	695 (1,180)
		Heating	HIGH		942 (1,600)	1,118 (1,900)
			MED		848 (1,440)	942 (1,600)
			LOW		771 (1,310)	848 (1,440)
			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	45
			MED		38	41
			LOW		36	38
			QUIET		33	34
		Heating	HIGH		40	45
			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 × 81-1/16 × 1/2 (252 × 2,059 × 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 × 37-3/8 × 38-3/16 (340 × 950 × 970)	
Weight	Net			lb (kg)	57 (26)	
	Gross				68 (31)	
Connection pipe	Size	Liquid		in (mm)	Ø3/8 (Ø9.52)	
		Gas			Ø5/8 (Ø15.88)	
	Method				Flare	
Drain hose	Material				PVC	
	Tip diameter			in (mm)	Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (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)	
Cassette grille		Enclosure	Material		Polystyrene	
			Color		White (UTG-GCGF) Approximate color of Munsell N9.25/	
					Black (UTG-LCGVCB) Approximate color of Munsell N2	
		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: Wired, Wireless, Mobile app*5 (AIRSTAGE Mobile)	

CASSETTE
AUUH18-36LUAS

Type	Cassette	
	Inverter, Heat pump	
Model name	AUUH30LUAS	AUUH36LUAS

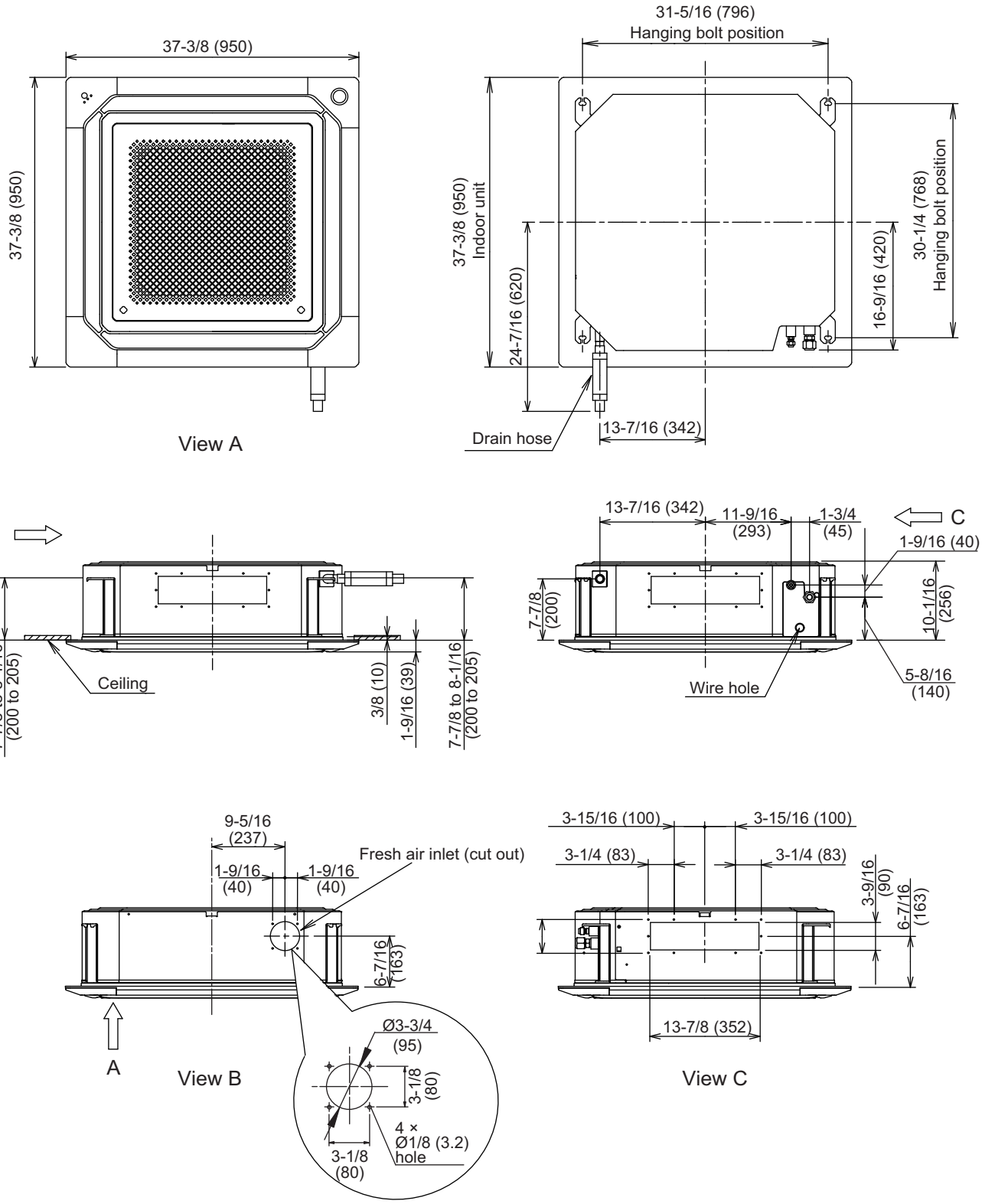
NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 80°FDB/67°FWB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°FWB (35°CDB/23.9°CWB).
  - Heating: Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°FWB (8.33°CDB/6.11°CWB).
  - *1: Heating (17°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°FWB (-8.33°CDB/-9.44°CWB).
  - *2: Heating (5°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°FWB (-15.0°CDB/-15.56°CWB).
  - Test conditions are based on AHRI 210/240 2023.
  - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *3: Maximum current:
  - The maximum value when operated within the operation range.
  - The total current of indoor unit and outdoor unit.
- *4: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *5: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.

2. Dimensions

2-1. Models: AUUH18LUAS and AUUH24LUAS

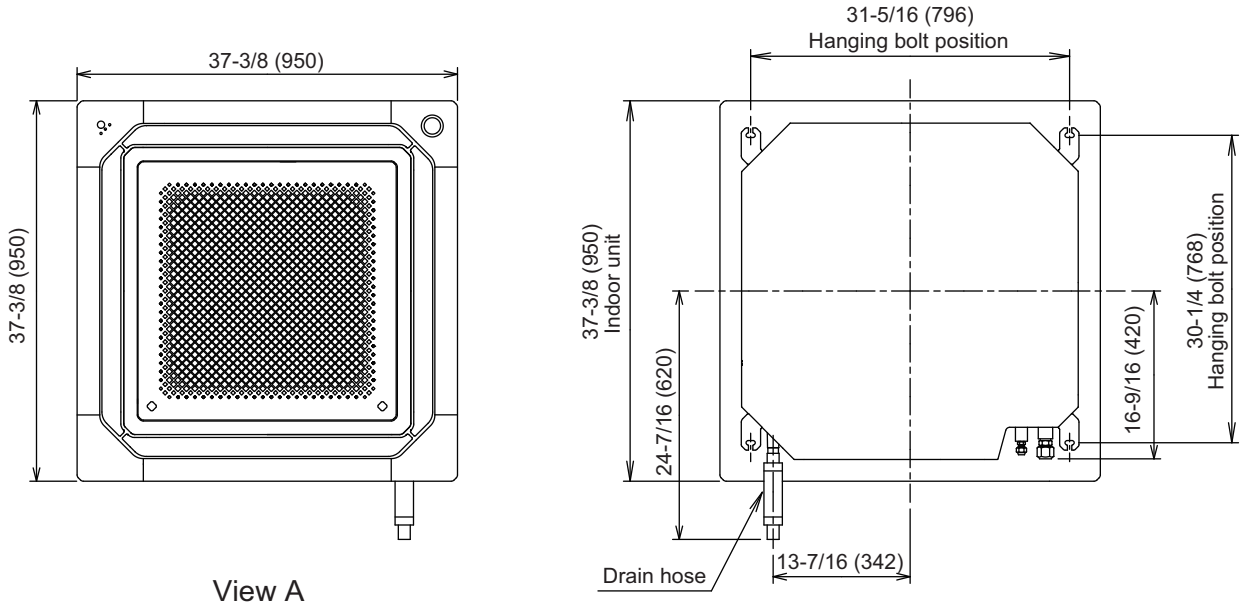
Unit: in (mm)

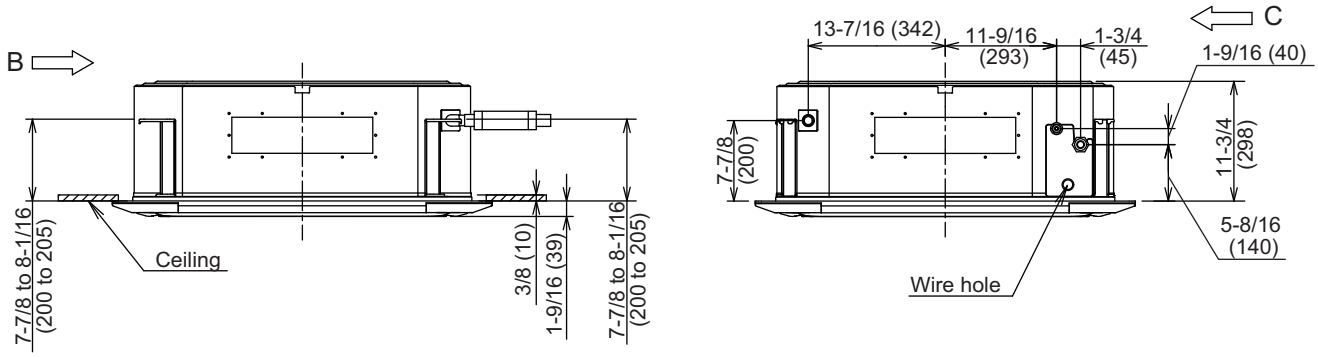


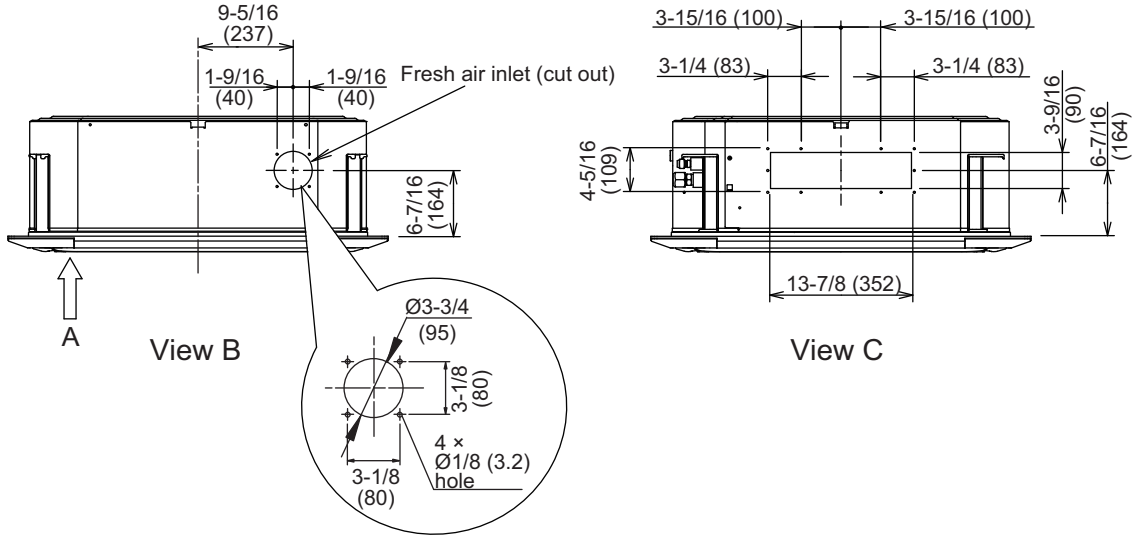
CASSETTE
AUUH18-36LUAS

2-2. Models: AUUH30LUAS and AUUH36LUAS

Unit: in (mm)





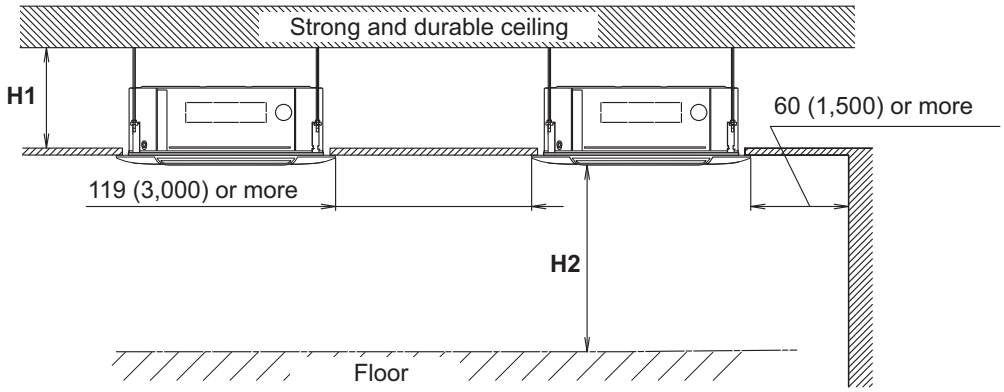


CASSETTE AUUH18-36LUAS

2-3. Installation space requirement

Provide sufficient installation space for product safety.

Unit: in (mm)



- **H1: Minimum height from bottom of the product to ceiling**

AUUH18-24LUAS	AUUH30-36LUAS
11 (256)	12 (298)

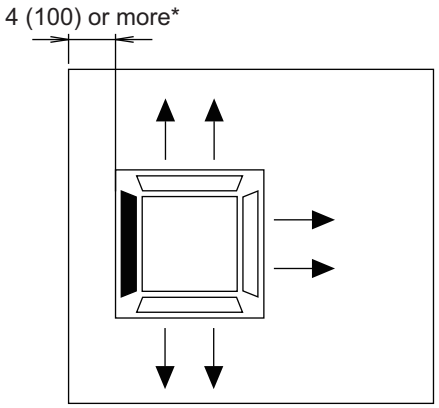
- **H2: Maximum height from floor to ceiling**

Function setting number 20	Minimum height	Maximum height	
		AUUH18-24LUAS	AUUH30-36LUAS
00: Standard	99 (2,500)	119 (3,000)	126 (3,200)
01: High ceiling		138 (3,500)	166 (4,200)
02: Low ceiling		107 (2,700)	

Be sure to make the function settings with the remote controller according to the installed ceiling height.

■ For 3-direction setting

Unit: in (mm)



NOTES:

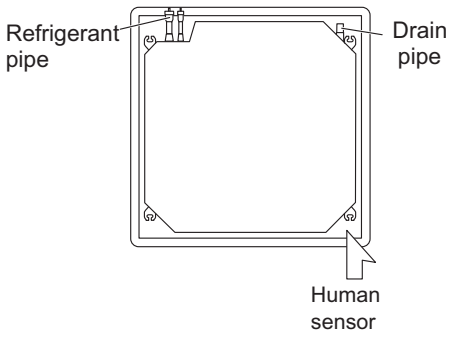
- To set “3-direction”, optional Air Outlet Shutter Plate (UTR-YDZK) must be installed, and the “outlet-direction” need to be switched to “3-way” by remote controller.
  *: When installing the indoor unit, be careful about the maintenance space.
- The ceiling height cannot be set in the 3-way outlet mode. Therefore, ceiling height setting change by function setting 20 is prohibited. For details, refer to "Contents of function setting" on page 71.

CASSETTE
AUUH18-36LUAS

■ Human Sensor (Option)

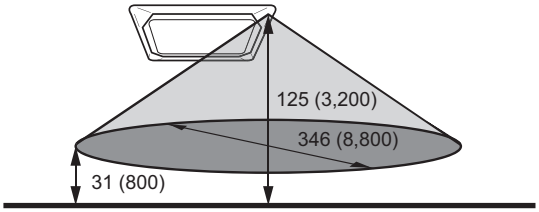
NOTE: A separate device capable of controlling the human sensor (energy saving) function, such as the Touch Panel Controller, is required for use.

Top view



Example of sensitivity range:

Unit: in (mm)



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

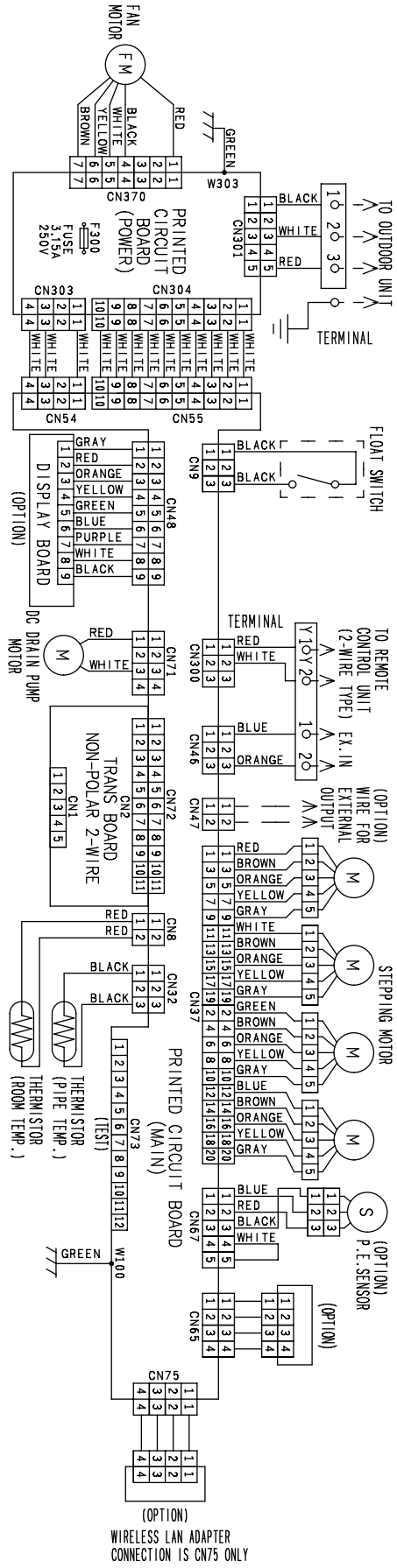
NOTE: When the installation height gets higher, the temperature sensitivity decreases.

⚠ CAUTION

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

3. Wiring diagrams

3-1. Models: AUUH18LUAS, AUUH24LUAS, AUUH30LUAS, and AUUH36LUAS



CASSETTE
AUUH18-36LUAS

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: AUUH18LUAS

AFR	CFM	618

		Indoor temperature																	
	°FDB	64			70			75			80			85			90		
	°FWB	54			60			63			67			71			73		
Outdoor temperature	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW
	-5	16.31	12.36	0.41	18.17	12.43	0.41	18.79	13.52	0.41	20.65	14.64	0.42	21.88	14.59	0.42	23.12	15.54	0.43
	5	16.04	12.15	0.44	17.86	12.22	0.45	18.47	13.29	0.45	20.30	14.39	0.46	21.52	14.34	0.46	22.73	15.27	0.47
	14	15.79	11.96	0.47	17.59	12.03	0.48	18.19	13.08	0.48	19.99	14.17	0.49	21.19	14.11	0.50	22.39	15.04	0.50
	32	15.30	11.58	0.54	17.04	11.65	0.55	17.62	12.67	0.55	19.37	13.73	0.56	20.53	13.67	0.56	21.69	14.56	0.57
	41	15.06	11.40	0.54	16.77	11.47	0.55	17.34	12.47	0.55	19.06	13.51	0.56	20.20	13.45	0.56	21.34	14.33	0.57
	50	14.81	11.21	0.55	16.50	11.27	0.56	17.06	12.26	0.56	18.75	13.28	0.57	19.87	13.23	0.58	21.00	14.09	0.58
	59	14.56	11.01	0.59	16.22	11.07	0.60	16.78	12.04	0.60	18.44	13.04	0.61	19.54	12.99	0.62	20.65	13.84	0.62
	67	16.73	12.67	0.96	18.64	12.75	0.98	19.27	13.86	0.98	21.18	15.02	1.00	22.45	14.96	1.01	23.72	15.93	1.02
	77	15.96	12.06	1.08	17.78	12.13	1.09	18.38	13.19	1.10	20.20	14.29	1.11	21.41	14.23	1.13	22.62	15.16	1.14
	87	15.12	11.45	1.22	16.85	11.52	1.24	17.42	12.52	1.24	19.14	13.57	1.26	20.29	13.51	1.27	21.44	14.39	1.29
	95	14.22	10.77	1.33	15.84	10.84	1.35	16.38	11.78	1.36	18.00	12.77	1.38	19.08	12.71	1.39	20.16	13.54	1.41
	104	12.49	9.44	1.31	13.91	9.50	1.33	14.38	10.33	1.33	15.80	11.19	1.35	16.75	11.14	1.37	17.70	11.87	1.38
	115	10.48	8.59	1.29	11.67	8.65	1.31	12.07	9.40	1.32	13.26	10.18	1.34	14.06	10.14	1.35	14.86	10.80	1.37

AFR	m^3/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	4.78	3.62	0.41	5.32	3.64	0.41	5.51	3.96	0.41	6.05	4.29	0.42	6.41	4.27	0.42	6.78	4.55	0.43
	-15	4.70	3.56	0.44	5.24	3.58	0.45	5.41	3.89	0.45	5.95	4.22	0.46	6.31	4.20	0.46	6.66	4.48	0.47
	-10	4.63	3.51	0.47	5.16	3.53	0.48	5.33	3.83	0.48	5.86	4.15	0.49	6.21	4.14	0.50	6.56	4.41	0.50
	0	4.48	3.40	0.54	5.00	3.42	0.55	5.17	3.71	0.55	5.68	4.02	0.56	6.02	4.01	0.56	6.36	4.27	0.57
	5	4.41	3.34	0.54	4.92	3.36	0.55	5.08	3.65	0.55	5.59	3.96	0.56	5.92	3.94	0.56	6.26	4.20	0.57
	10	4.34	3.29	0.55	4.83	3.30	0.56	5.00	3.59	0.56	5.49	3.89	0.57	5.82	3.88	0.58	6.15	4.13	0.58
	15	4.27	3.23	0.59	4.75	3.24	0.60	4.92	3.53	0.60	5.40	3.82	0.61	5.73	3.81	0.62	6.05	4.05	0.62
	19.4	4.90	3.71	0.96	5.46	3.74	0.98	5.65	4.06	0.98	6.21	4.40	1.00	6.58	4.38	1.01	6.95	4.67	1.02
	25	4.68	3.53	1.08	5.21	3.55	1.09	5.39	3.86	1.10	5.92	4.19	1.11	6.28	4.17	1.13	6.63	4.44	1.14
	30	4.43	3.36	1.22	4.94	3.38	1.24	5.11	3.67	1.24	5.61	3.98	1.26	5.95	3.96	1.27	6.28	4.22	1.29
	35	4.17	3.16	1.33	4.64	3.18	1.35	4.80	3.45	1.36	5.28	3.74	1.38	5.59	3.73	1.39	5.91	3.97	1.41
	40	3.66	2.77	1.31	4.08	2.78	1.33	4.22	3.03	1.33	4.63	3.28	1.35	4.91	3.27	1.37	5.19	3.48	1.38
	46.1	3.07	2.52	1.29	3.42	2.53	1.31	3.54	2.75	1.32	3.89	2.98	1.34	4.12	2.97	1.35	4.35	3.17	1.37

CASSETTE
AUUH18-36LUAS

■ Model: AUUH24LUAS

AFR	CFM	677

		Indoor temperature																		
	°FDB	64			70			75			80			85			90			
	°FWB	54			60			63			67			71			73			
Outdoor temperature	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	
		kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	
	-5	19.18	14.75	1.53	21.36	14.83	1.55	22.81	16.15	1.57	24.26	17.47	1.58	25.72	17.41	1.60	27.18	18.53	1.61	
	5	19.15	14.71	1.52	21.32	14.79	1.54	22.77	16.11	1.56	24.21	17.43	1.58	25.67	17.37	1.59	27.13	18.48	1.60	
	14	19.10	14.69	1.52	21.27	14.77	1.54	22.72	16.08	1.56	24.17	17.39	1.58	25.62	17.33	1.59	27.07	18.45	1.60	
	32	19.03	14.61	1.51	21.20	14.69	1.54	22.64	16.00	1.55	24.09	17.31	1.57	25.54	17.23	1.59	26.99	18.36	1.60	
	41	18.99	14.58	1.51	21.16	14.66	1.53	22.60	15.98	1.55	24.04	17.28	1.56	25.49	17.21	1.58	26.93	18.34	1.60	
	50	18.96	14.54	1.50	21.12	14.62	1.52	22.56	15.93	1.54	24.00	17.24	1.56	25.43	17.16	1.57	26.88	18.29	1.58	
	59	19.71	14.78	1.31	21.95	14.88	1.33	23.44	16.20	1.34	24.94	17.52	1.36	26.44	17.46	1.37	27.95	18.59	1.39	
	67	21.61	15.80	1.38	24.08	15.90	1.39	25.72	17.30	1.41	27.35	18.73	1.43	29.01	18.65	1.44	30.64	19.86	1.45	
	77	20.91	15.52	1.51	23.31	15.60	1.53	24.89	16.99	1.55	26.47	18.38	1.57	28.06	18.31	1.58	29.66	19.51	1.59	
	87	20.30	15.26	1.64	22.60	15.36	1.66	24.14	16.72	1.68	25.69	18.08	1.69	27.22	18.02	1.71	28.76	19.18	1.73	
	95	18.96	14.66	1.83	21.13	14.75	1.86	22.55	16.07	1.88	24.00	17.39	1.90	25.43	17.32	1.92	26.87	18.45	1.94	
	104	17.61	14.08	2.04	19.63	14.17	2.07	20.97	15.42	2.09	22.30	16.70	2.11	23.65	16.63	2.13	25.00	17.71	2.15	
	115	15.64	13.38	2.26	17.43	13.45	2.30	18.60	14.67	2.32	19.81	15.86	2.34	20.98	15.79	2.37	22.19	16.82	2.39	

AFR	m^3/h	1,150

		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	5.62	4.32	1.53	6.26	4.35	1.55	6.69	4.73	1.57	7.11	5.12	1.58	7.54	5.10	1.60	7.97	5.43	1.61	
	-15	5.61	4.31	1.52	6.25	4.34	1.54	6.67	4.72	1.56	7.10	5.11	1.58	7.52	5.09	1.59	7.95	5.42	1.60	
	-10	5.60	4.30	1.52	6.23	4.33	1.54	6.66	4.71	1.56	7.08	5.10	1.58	7.51	5.08	1.59	7.93	5.41	1.60	
	0	5.58	4.28	1.51	6.21	4.31	1.54	6.64	4.69	1.55	7.06	5.07	1.57	7.49	5.05	1.59	7.91	5.38	1.60	
	5	5.57	4.27	1.51	6.20	4.30	1.53	6.62	4.68	1.55	7.05	5.06	1.56	7.47	5.04	1.58	7.89	5.38	1.60	
	10	5.56	4.26	1.50	6.19	4.29	1.52	6.61	4.67	1.54	7.03	5.05	1.56	7.45	5.03	1.57	7.88	5.36	1.58	
	15	5.78	4.33	1.31	6.43	4.36	1.33	6.87	4.75	1.34	7.31	5.13	1.36	7.75	5.12	1.37	8.19	5.45	1.39	
	19.4	6.33	4.63	1.38	7.06	4.66	1.39	7.54	5.07	1.41	8.02	5.49	1.43	8.50	5.47	1.44	8.98	5.82	1.45	
	25	6.13	4.55	1.51	6.83	4.57	1.53	7.30	4.98	1.55	7.76	5.39	1.57	8.23	5.37	1.58	8.69	5.72	1.59	
	30	5.95	4.47	1.64	6.62	4.50	1.66	7.08	4.90	1.68	7.53	5.30	1.69	7.98	5.28	1.71	8.43	5.62	1.73	
	35	5.56	4.30	1.83	6.19	4.32	1.86	6.61	4.71	1.88	7.03	5.10	1.90	7.45	5.08	1.92	7.87	5.41	1.94	
	40	5.16	4.13	2.04	5.75	4.15	2.07	6.15	4.52	2.09	6.54	4.89	2.11	6.93	4.87	2.13	7.33	5.19	2.15	
	46.1	4.58	3.92	2.26	5.11	3.94	2.30	5.45	4.30	2.32	5.81	4.65	2.34	6.15	4.63	2.37	6.50	4.93	2.39	

CASSETTE AUUH18-36LUAS

■ Model: AUUH30LUAS

AFR	CFM	942

		Indoor temperature																	
	°FDB	64			70			75			80			85			90		
	°FWB	54			60			63			67			71			73		
Outdoor temperature	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW
	-5	25.49	20.30	1.80	28.41	20.42	1.77	30.35	22.24	1.77	32.29	24.06	1.74	34.23	23.97	1.75	36.14	25.51	1.78
	5	25.35	20.23	1.69	28.24	20.36	1.72	30.17	22.17	1.72	32.10	23.98	1.75	34.03	23.89	1.76	35.93	25.43	1.79
	14	25.22	20.18	1.69	28.09	20.31	1.71	30.00	22.11	1.73	31.93	23.92	1.75	33.86	23.82	1.77	35.75	25.37	1.78
	32	24.96	20.06	1.70	27.79	20.19	1.74	29.69	21.99	1.75	31.60	23.78	1.77	33.51	23.69	1.78	35.38	25.23	1.80
	41	24.82	20.04	1.71	27.64	20.14	1.73	29.54	21.94	1.76	31.43	23.72	1.77	33.33	23.62	1.79	35.19	25.19	1.81
	50	24.72	19.94	1.72	27.54	20.07	1.75	29.40	21.84	1.77	31.27	23.65	1.78	33.13	23.55	1.80	35.02	25.10	1.82
	59	25.18	20.25	1.61	28.07	20.38	1.64	29.98	22.19	1.66	31.89	24.00	1.67	33.81	23.91	1.69	35.71	25.44	1.71
	67	27.08	20.79	1.85	30.17	20.90	1.87	32.23	22.77	1.90	34.28	24.63	1.92	36.35	24.54	1.94	38.39	26.14	1.95
	77	26.05	20.38	2.06	29.02	20.50	2.09	31.00	22.32	2.11	32.98	24.13	2.13	34.96	24.05	2.15	36.94	25.61	2.18
	87	25.14	20.02	2.25	27.99	20.14	2.28	29.90	21.91	2.30	31.81	23.69	2.33	33.73	23.60	2.35	35.64	25.16	2.37
	95	23.70	19.37	2.47	26.40	19.50	2.51	28.20	21.21	2.53	30.00	22.95	2.56	31.80	22.85	2.59	33.60	24.34	2.61
	104	22.26	18.73	2.69	24.79	18.84	2.74	26.47	20.52	2.77	28.18	22.20	2.79	29.88	22.13	2.82	31.54	23.55	2.85
	115	20.50	17.97	2.97	22.84	18.08	3.02	24.40	19.70	3.05	25.97	21.29	3.08	27.51	21.22	3.11	29.06	22.60	3.14

AFR	m^3/h	1,600

		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	7.47	5.95	1.80	8.33	5.98	1.77	8.89	6.52	1.77	9.46	7.05	1.74	10.03	7.02	1.75	10.59	7.48	1.78
	-15	7.43	5.93	1.69	8.28	5.97	1.72	8.84	6.50	1.72	9.41	7.03	1.75	9.97	7.00	1.76	10.53	7.45	1.79
	-10	7.39	5.92	1.69	8.23	5.95	1.71	8.79	6.48	1.73	9.36	7.01	1.75	9.92	6.98	1.77	10.48	7.44	1.78
	0	7.32	5.88	1.70	8.14	5.92	1.74	8.70	6.44	1.75	9.26	6.97	1.77	9.82	6.94	1.78	10.37	7.39	1.80
	5	7.27	5.87	1.71	8.10	5.90	1.73	8.66	6.43	1.76	9.21	6.95	1.77	9.77	6.92	1.79	10.31	7.38	1.81
	10	7.24	5.85	1.72	8.07	5.88	1.75	8.62	6.40	1.77	9.16	6.93	1.78	9.71	6.90	1.80	10.27	7.36	1.82
	15	7.38	5.94	1.61	8.23	5.97	1.64	8.79	6.50	1.66	9.35	7.04	1.67	9.91	7.01	1.69	10.47	7.46	1.71
	19.4	7.94	6.09	1.85	8.84	6.13	1.87	9.45	6.67	1.90	10.05	7.22	1.92	10.65	7.19	1.94	11.25	7.66	1.95
	25	7.64	5.97	2.06	8.51	6.01	2.09	9.09	6.54	2.11	9.67	7.07	2.13	10.25	7.05	2.15	10.83	7.51	2.18
	30	7.37	5.87	2.25	8.20	5.90	2.28	8.76	6.42	2.30	9.32	6.94	2.33	9.88	6.92	2.35	10.44	7.37	2.37
	35	6.95	5.68	2.47	7.74	5.71	2.51	8.26	6.21	2.53	8.79	6.73	2.56	9.32	6.70	2.59	9.85	7.13	2.61
	40	6.52	5.49	2.69	7.26	5.52	2.74	7.76	6.01	2.77	8.26	6.51	2.79	8.76	6.48	2.82	9.24	6.90	2.85
	46.1	6.01	5.27	2.97	6.69	5.30	3.02	7.15	5.77	3.05	7.61	6.24	3.08	8.06	6.22	3.11	8.52	6.62	3.14

CASSETTE AUUH18-36LUAS

■ Model: AUUH36LUAS

AFR	CFM	1,118

		Indoor temperature																	
	°FDB	64			70			75			80			85			90		
	°FWB	54			60			63			67			71			73		
Outdoor temperature	°FDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW	kBtu/h		kW
	-5	29.41	23.73	2.20	32.75	23.86	2.24	34.97	25.99	2.26	37.19	28.11	2.29	39.43	28.02	2.31	41.67	29.82	2.32
	5	29.24	23.66	2.21	32.56	23.79	2.25	34.77	25.91	2.27	36.98	28.03	2.30	39.20	27.93	2.32	41.43	29.73	2.34
	14	29.06	23.61	2.23	32.37	23.74	2.26	34.58	25.84	2.28	36.78	27.95	2.31	38.99	27.85	2.34	41.20	29.65	2.35
	32	28.76	23.45	2.25	32.04	23.58	2.29	34.22	25.69	2.31	36.40	27.79	2.33	38.60	27.66	2.36	40.80	29.47	2.38
	41	28.61	23.39	2.26	31.86	23.52	2.29	34.04	25.63	2.31	36.21	27.71	2.34	38.38	27.61	2.36	40.55	29.42	2.39
	50	28.46	23.31	2.26	31.69	23.44	2.30	33.85	25.54	2.32	36.02	27.63	2.35	38.16	27.50	2.37	40.34	29.32	2.39
	59	28.50	23.36	2.24	31.74	23.52	2.28	33.90	25.61	2.30	36.06	27.70	2.33	38.23	27.60	2.36	40.41	29.39	2.37
	67	32.91	25.12	2.69	36.66	25.28	2.72	39.17	27.52	2.75	41.64	29.79	2.78	44.17	29.66	2.81	46.66	31.60	2.84
	77	31.51	24.58	2.95	35.12	24.70	3.00	37.50	26.90	3.03	39.89	29.11	3.07	42.28	28.99	3.09	44.68	30.89	3.12
	87	30.27	24.07	3.21	33.70	24.23	3.26	36.01	26.37	3.29	38.32	28.51	3.32	40.59	28.41	3.36	42.90	30.24	3.39
	95	28.44	23.18	3.47	31.69	23.32	3.53	33.83	25.40	3.57	36.00	27.49	3.60	38.15	27.39	3.63	40.30	29.16	3.68
	104	26.60	22.31	3.75	29.65	22.46	3.81	31.66	24.45	3.85	33.68	26.47	3.88	35.71	26.36	3.93	37.75	28.08	3.97
	115	22.08	20.69	3.40	24.61	20.79	3.46	26.27	22.67	3.49	27.97	24.51	3.53	29.63	24.41	3.56	31.33	26.00	3.60

AFR	m^3/h	1,900

		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	8.62	6.96	2.20	9.60	6.99	2.24	10.25	7.62	2.26	10.90	8.24	2.29	11.56	8.21	2.31	12.21	8.74	2.32
	-15	8.57	6.93	2.21	9.54	6.97	2.25	10.19	7.59	2.27	10.84	8.21	2.30	11.49	8.19	2.32	12.14	8.71	2.34
	-10	8.52	6.92	2.23	9.49	6.96	2.26	10.13	7.57	2.28	10.78	8.19	2.31	11.43	8.16	2.34	12.07	8.69	2.35
	0	8.43	6.87	2.25	9.39	6.91	2.29	10.03	7.53	2.31	10.67	8.15	2.33	11.31	8.11	2.36	11.96	8.64	2.38
	5	8.38	6.86	2.26	9.34	6.89	2.29	9.98	7.51	2.31	10.61	8.12	2.34	11.25	8.09	2.36	11.89	8.62	2.39
	10	8.34	6.83	2.26	9.29	6.87	2.30	9.92	7.48	2.32	10.56	8.10	2.35	11.18	8.06	2.37	11.82	8.59	2.39
	15	8.35	6.85	2.24	9.30	6.89	2.28	9.93	7.51	2.30	10.57	8.12	2.33	11.21	8.09	2.36	11.84	8.61	2.37
	19.4	9.64	7.36	2.69	10.74	7.41	2.72	11.48	8.07	2.75	12.20	8.73	2.78	12.94	8.69	2.81	13.67	9.26	2.84
	25	9.23	7.20	2.95	10.29	7.24	3.00	10.99	7.89	3.03	11.69	8.53	3.07	12.39	8.50	3.09	13.10	9.05	3.12
	30	8.87	7.06	3.21	9.88	7.10	3.26	10.55	7.73	3.29	11.23	8.36	3.32	11.90	8.33	3.36	12.57	8.86	3.39
	35	8.34	6.79	3.47	9.29	6.83	3.53	9.91	7.45	3.57	10.55	8.06	3.60	11.18	8.03	3.63	11.81	8.55	3.68
	40	7.80	6.54	3.75	8.69	6.58	3.81	9.28	7.17	3.85	9.87	7.76	3.88	10.47	7.72	3.93	11.06	8.23	3.97
	46.1	6.47	6.06	3.40	7.21	6.09	3.46	7.70	6.64	3.49	8.20	7.18	3.53	8.68	7.15	3.56	9.18	7.62	3.60

CASSETTE
AUUH18-36LUAS

4-2. Heating capacity

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

■ Model: AUUH18LUAS

AFR	CFM	618

		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	15.13	1.96	14.76	2.00	14.40	2.05	14.06	2.09	13.69	2.13
	5	3	17.64	2.11	17.22	2.16	16.80	2.20	16.40	2.24	15.97	2.29
	14	12	19.62	2.22	19.15	2.26	18.69	2.31	18.22	2.35	17.75	2.40
	17	15	20.27	2.25	19.79	2.30	19.30	2.34	18.82	2.39	18.34	2.44
	23	19	21.62	2.32	21.09	2.37	20.57	2.41	20.05	2.46	19.56	2.51
	32	28	23.58	2.42	23.02	2.47	22.46	2.52	21.90	2.57	21.34	2.62
	41	37	25.58	2.52	24.97	2.58	24.35	2.63	23.76	2.68	23.14	2.73
	47	43	26.88	2.59	26.24	2.65	25.60	2.70	24.96	2.75	24.32	2.81
	50	47	27.70	2.57	27.04	2.62	26.37	2.68	25.71	2.73	25.05	2.78
	59	50	24.82	1.96	24.23	2.00	23.63	2.04	23.06	2.08	22.47	2.11

AFR	m^3/h	1,050

		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	4.43	1.96	4.33	2.00	4.22	2.05	4.12	2.09	4.01	2.13
	-15	-16.1	5.17	2.11	5.05	2.16	4.92	2.20	4.81	2.24	4.68	2.29
	-10	-11.1	5.75	2.22	5.61	2.26	5.48	2.31	5.34	2.35	5.20	2.40
	-8.3	-9.4	5.94	2.25	5.80	2.30	5.66	2.34	5.52	2.39	5.37	2.44
	-5	-7.2	6.34	2.32	6.18	2.37	6.03	2.41	5.88	2.46	5.73	2.51
	0	-2.2	6.91	2.42	6.75	2.47	6.58	2.52	6.42	2.57	6.26	2.62
	5	2.8	7.50	2.52	7.32	2.58	7.14	2.63	6.96	2.68	6.78	2.73
	8.3	6.1	7.88	2.59	7.69	2.65	7.50	2.70	7.31	2.75	7.13	2.81
	10	8.3	8.12	2.57	7.92	2.62	7.73	2.68	7.54	2.73	7.34	2.78
	15	10	7.27	1.96	7.10	2.00	6.93	2.04	6.76	2.08	6.58	2.11

■ Model: AUUH24LUAS

AFR	CFM	677

		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	22.05	3.22	21.53	3.29	21.00	3.29	20.47	3.43	19.95	3.49
	5	3	24.79	3.13	24.20	3.20	23.60	3.26	23.01	3.33	22.42	3.40
	14	12	26.67	3.05	26.04	3.11	25.41	3.18	24.77	3.24	24.11	3.31
	17	15	27.30	3.03	26.65	3.09	26.00	3.16	25.36	3.22	24.68	3.28
	23	19	28.57	2.98	27.88	3.05	27.21	3.11	26.51	3.17	25.85	3.23
	32	28	30.47	2.90	29.74	2.97	29.01	3.03	28.28	3.09	27.55	3.15
	41	37	32.36	2.83	31.60	2.89	30.81	2.95	30.05	3.01	29.27	3.07
	47	43	33.62	2.78	32.81	2.84	32.00	2.90	31.20	2.96	30.42	3.02
	50	47	34.45	2.78	33.65	2.84	32.82	2.90	32.00	2.96	31.17	3.02
	59	50	34.76	2.70	33.94	2.75	33.09	2.80	32.27	2.87	31.44	2.91

AFR	m^3/h	1,150

		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	6.46	3.22	6.31	3.29	6.15	3.29	6.00	3.43	5.85	3.49
	-15	-16.1	7.27	3.13	7.09	3.20	6.92	3.26	6.74	3.33	6.57	3.40
	-10	-11.1	7.82	3.05	7.63	3.11	7.45	3.18	7.26	3.24	7.07	3.31
	-8.3	-9.4	8.00	3.03	7.81	3.09	7.62	3.16	7.43	3.22	7.23	3.28
	-5	-7.2	8.37	2.98	8.17	3.05	7.97	3.11	7.77	3.17	7.58	3.23
	0	-2.2	8.93	2.90	8.72	2.97	8.50	3.03	8.29	3.09	8.08	3.15
	5	2.8	9.48	2.83	9.26	2.89	9.03	2.95	8.81	3.01	8.58	3.07
	8.3	6.1	9.85	2.78	9.62	2.84	9.38	2.90	9.14	2.96	8.91	3.02
	10	8.3	10.10	2.78	9.86	2.84	9.62	2.90	9.38	2.96	9.13	3.02
	15	10	10.19	2.70	9.95	2.75	9.70	2.80	9.46	2.87	9.22	2.91

CASSETTE AUUH18-36LUAS

■ Model: AUUH30LUAS

AFR	CFM	942

			Indoor temperature									
		°FDB	60		65		70		72		75	
	°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
Outdoor temperature	-5	-7	25.21	3.44	24.60	3.52	24.00	3.59	23.43	3.66	22.82	3.73
	5	3	29.41	3.72	28.71	3.79	28.00	3.87	27.33	3.95	26.63	4.02
	14	12	31.66	3.66	30.90	3.74	30.15	3.81	29.39	3.89	28.64	3.97
	17	15	32.43	3.65	31.66	3.72	30.90	3.80	30.13	3.88	29.33	3.94
	23	19	33.93	3.61	33.11	3.68	32.29	3.76	31.48	3.83	30.70	3.91
	32	28	36.16	3.55	35.30	3.63	34.44	3.70	33.58	3.78	32.73	3.85
	41	37	38.43	3.50	37.51	3.57	36.59	3.65	35.70	3.72	34.77	3.78
	47	43	39.90	3.46	38.95	3.54	38.00	3.61	37.05	3.68	36.10	3.76
	50	47	40.66	3.42	39.69	3.50	38.72	3.57	37.74	3.64	36.77	3.70
	59	50	37.81	2.84	36.90	2.90	36.00	2.96	35.13	3.01	34.22	3.06

AFR	m^3/h	1,600

			Indoor temperature									
		°CDB	15.6		18.3		21.1		22.2		23.9	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-20.6	-21.7	7.39	3.44	7.21	3.52	7.03	3.59	6.87	3.66	6.69	3.73
	-15	-16.1	8.62	3.72	8.41	3.79	8.21	3.87	8.01	3.95	7.80	4.02
	-10	-11.1	9.28	3.66	9.06	3.74	8.84	3.81	8.61	3.89	8.39	3.97
	-8.3	-9.4	9.50	3.65	9.28	3.72	9.05	3.80	8.83	3.88	8.60	3.94
	-5	-7.2	9.94	3.61	9.70	3.68	9.46	3.76	9.23	3.83	9.00	3.91
	0	-2.2	10.60	3.55	10.35	3.63	10.09	3.70	9.84	3.78	9.59	3.85
	5	2.8	11.26	3.50	10.99	3.57	10.72	3.65	10.46	3.72	10.19	3.78
	8.3	6.1	11.69	3.46	11.42	3.54	11.14	3.61	10.86	3.68	10.58	3.76
	10	8.3	11.92	3.42	11.63	3.50	11.35	3.57	11.06	3.64	10.78	3.70
	15	10	11.08	2.84	10.82	2.90	10.55	2.96	10.30	3.01	10.03	3.06

■ Model: AUUH36LUAS

AFR	CFM	1,118

			Indoor temperature									
		°FDB	60		65		70		72		75	
	°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
Outdoor temperature	-5	-7	28.35	4.03	27.68	4.11	27.00	4.12	26.32	4.29	25.65	4.37
	5	3	32.56	4.12	31.78	4.21	31.00	4.29	30.23	4.38	29.45	4.47
	14	12	35.25	4.05	34.41	4.13	33.58	4.22	32.74	4.30	31.87	4.38
	17	15	36.22	4.03	35.36	4.11	34.50	4.20	33.64	4.28	32.74	4.36
	23	19	37.96	3.99	37.04	4.07	36.15	4.15	35.23	4.24	34.34	4.32
	32	28	40.67	3.92	39.70	4.01	38.73	4.08	37.75	4.16	36.78	4.25
	41	37	43.37	3.85	42.35	3.93	41.30	4.02	40.28	4.10	39.23	4.18
	47	43	45.16	3.81	44.08	3.89	43.00	3.97	41.91	4.05	40.87	4.13
	50	47	46.40	3.83	45.32	3.92	44.20	4.00	43.09	4.07	41.98	4.16
	59	50	40.75	2.89	39.78	2.95	38.79	3.00	37.82	3.07	36.86	3.12

AFR	m^3/h	1,900

			Indoor temperature									
		°CDB	15.6		18.3		21.1		22.2		23.9	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-20.6	-21.7	8.31	4.03	8.11	4.11	7.91	4.12	7.71	4.29	7.52	4.37
	-15	-16.1	9.54	4.12	9.31	4.21	9.09	4.29	8.86	4.38	8.63	4.47
	-10	-11.1	10.33	4.05	10.09	4.13	9.84	4.22	9.60	4.30	9.34	4.38
	-8.3	-9.4	10.61	4.03	10.36	4.11	10.11	4.20	9.86	4.28	9.60	4.36
	-5	-7.2	11.13	3.99	10.86	4.07	10.60	4.15	10.32	4.24	10.06	4.32
	0	-2.2	11.92	3.92	11.64	4.01	11.35	4.08	11.06	4.16	10.78	4.25
	5	2.8	12.71	3.85	12.41	3.93	12.10	4.02	11.81	4.10	11.50	4.18
	8.3	6.1	13.24	3.81	12.92	3.89	12.60	3.97	12.28	4.05	11.98	4.13
	10	8.3	13.60	3.83	13.28	3.92	12.96	4.00	12.63	4.07	12.30	4.16
	15	10	11.94	2.89	11.66	2.95	11.37	3.00	11.08	3.07	10.80	3.12

CASSETTE AUUH18-36LUAS

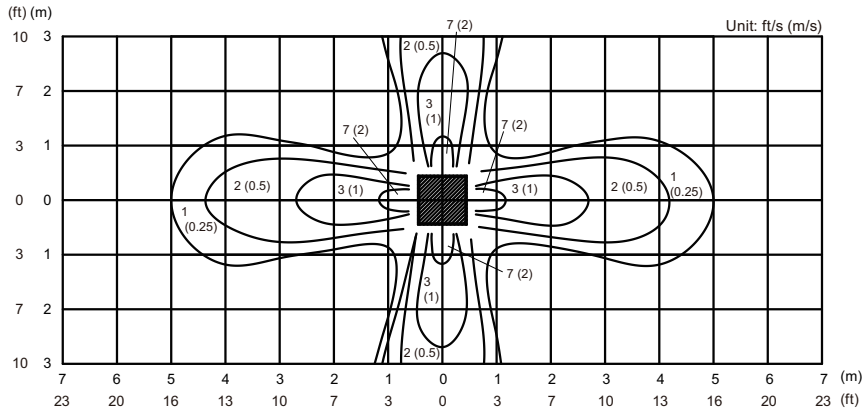
5. Fan performance

5-1. Air velocity distributions

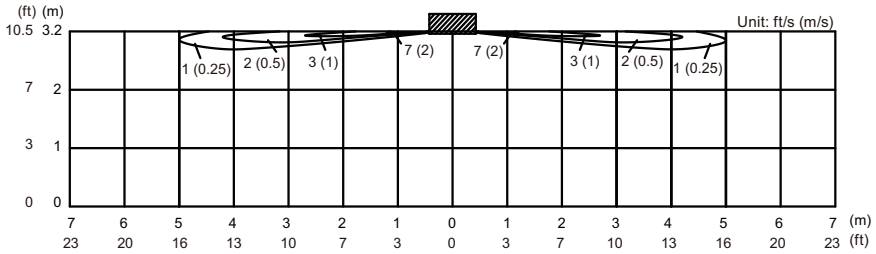
■ Model: AUUH18LUAS (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

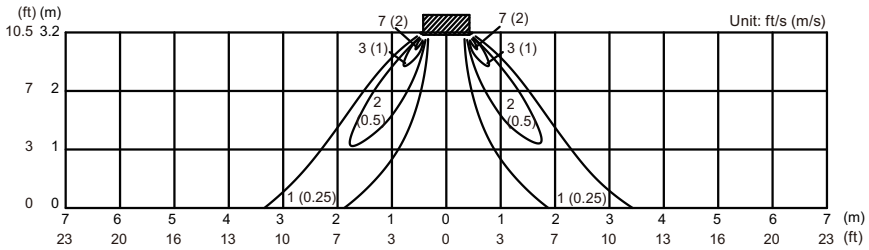
Top view
Horizontal louver: position 1



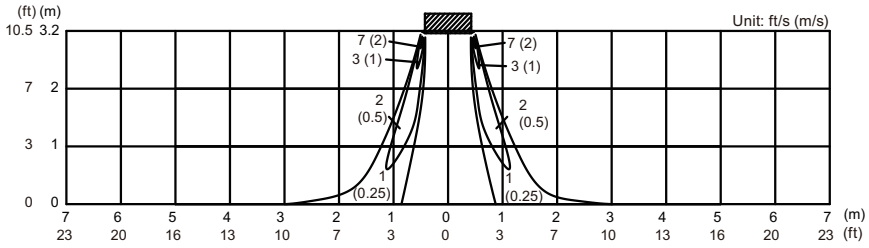
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4

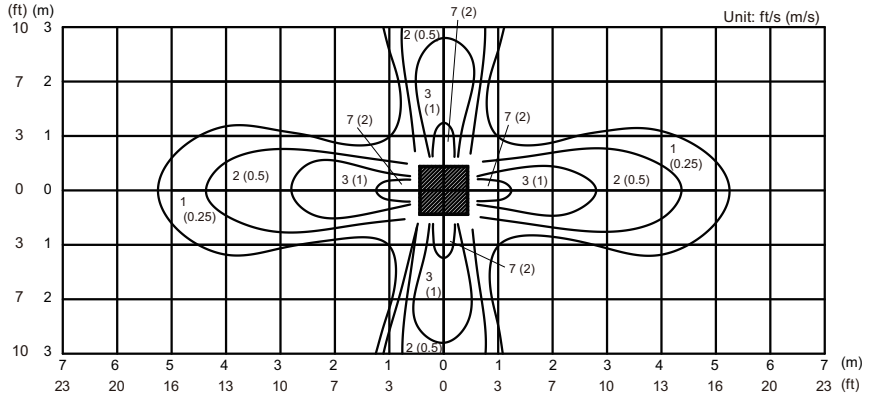


CASSETTE
AUUH18-36LUAS

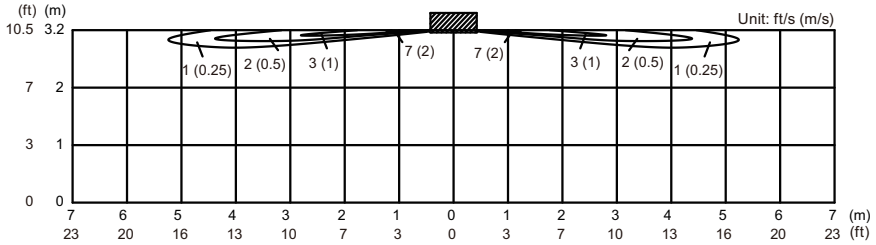
■ Model: AUUH24LUAS (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

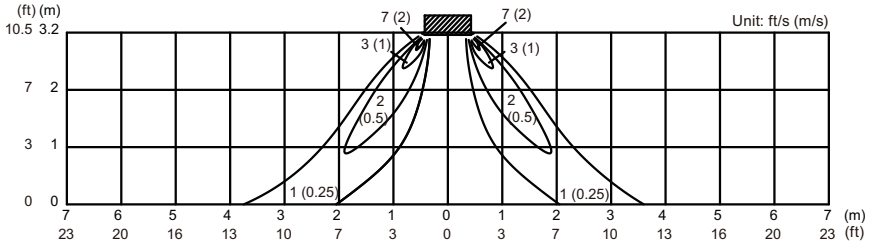
Top view
Horizontal louver: position 1



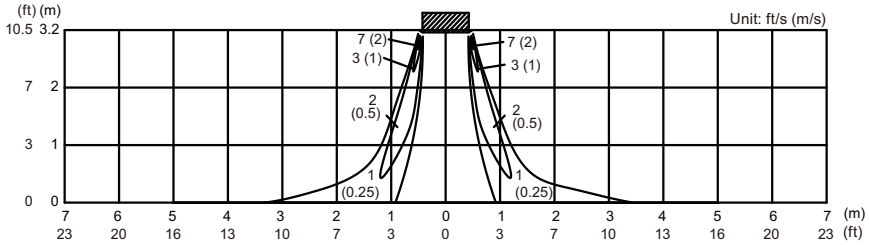
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4

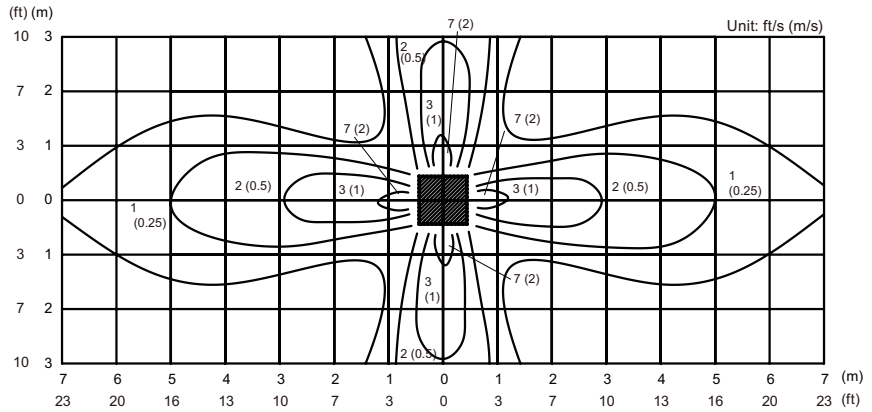


CASSETTE
AUUH18-36LUAS

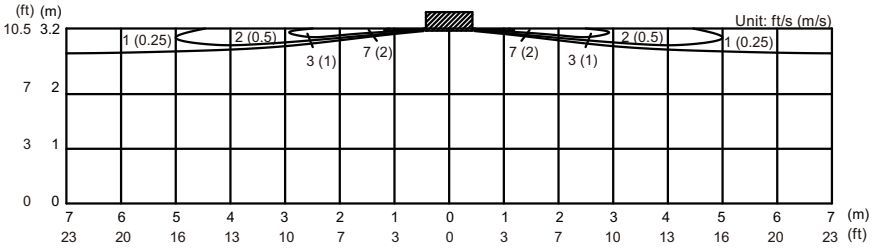
■ Model: AUUH30LUAS (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

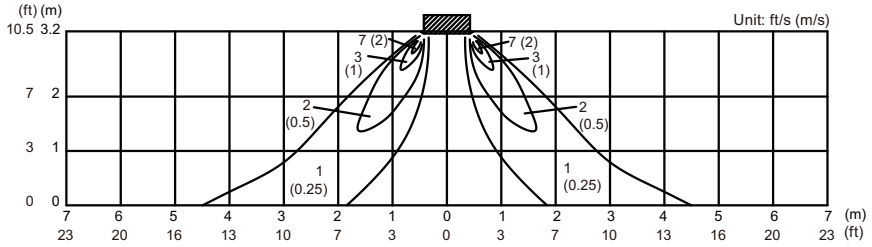
Top view
Horizontal louver: position 1



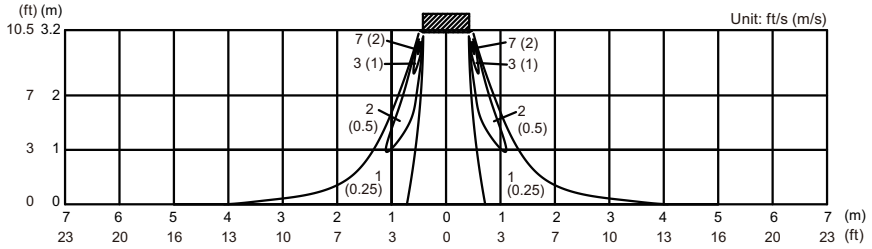
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4

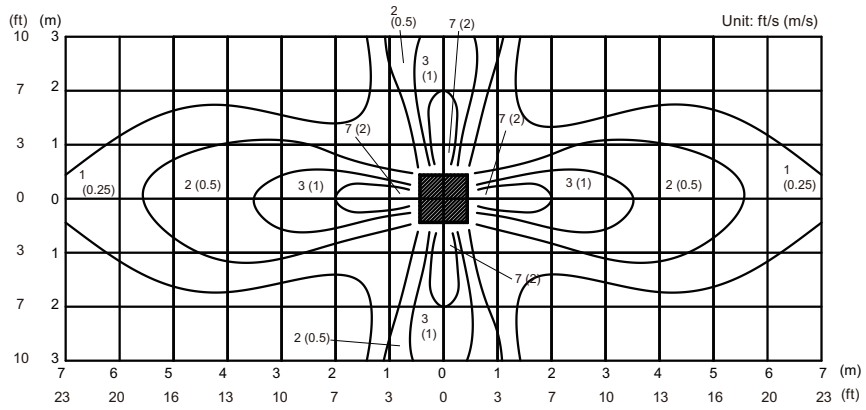


CASSETTE
AUUH18-36LUAS

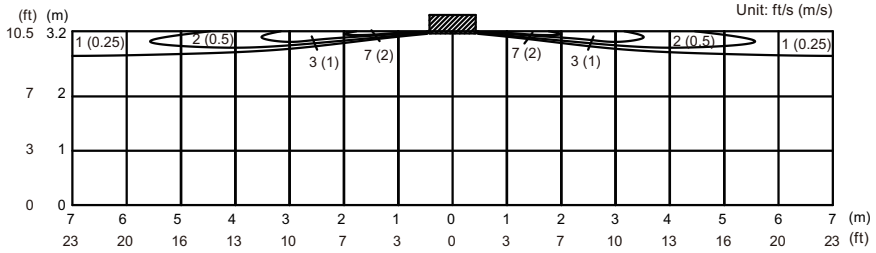
■ Model: AUUH36LUAS (4-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

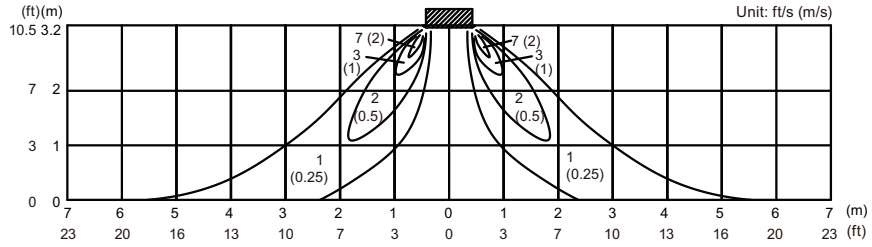
Top view
Horizontal louver: position 1



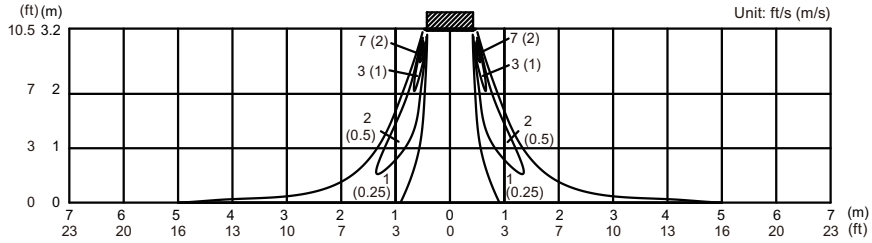
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



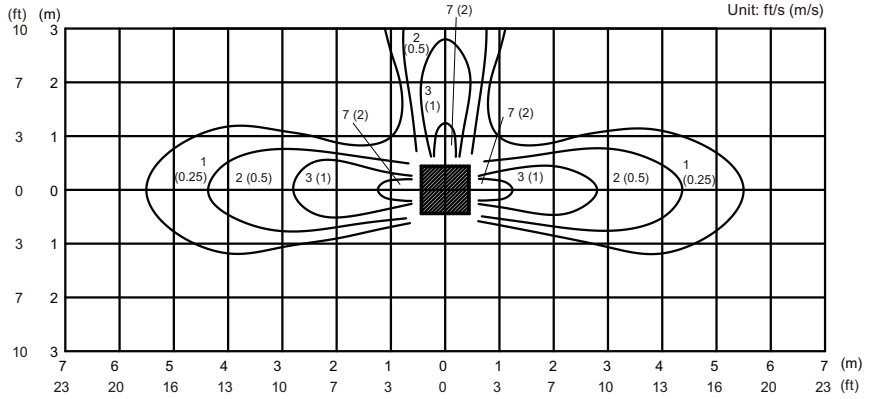
Side view
Horizontal louver: position 4



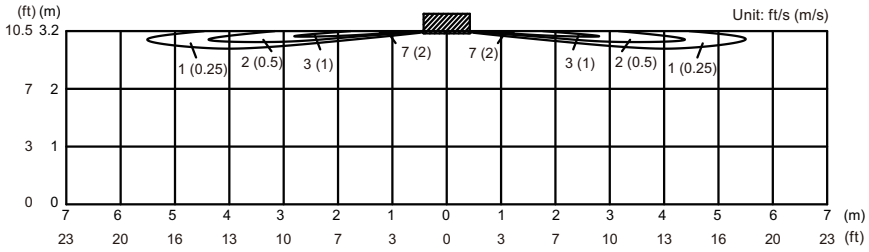
■ Model: AUUH18LUAS (3-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

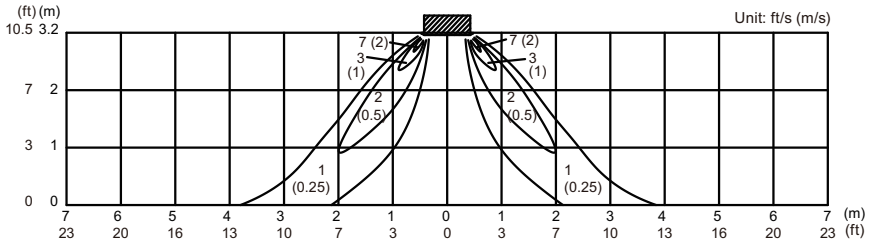
Top view
Horizontal louver: position 1



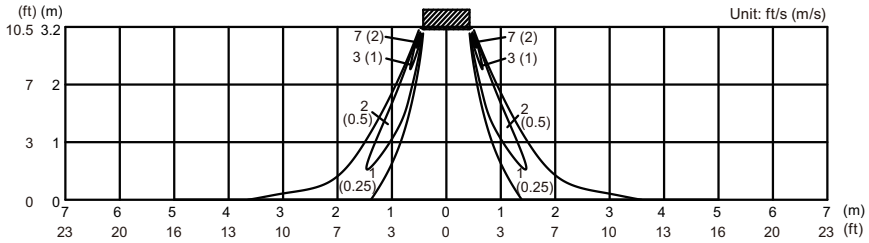
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4

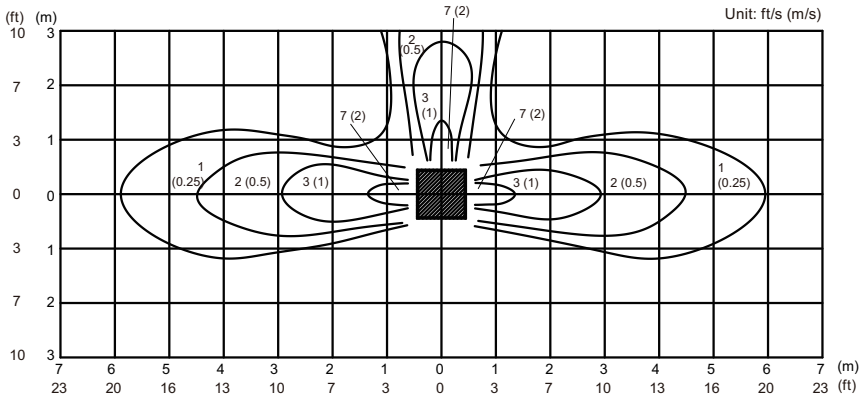


CASSETTE
AUUH18-36LUAS

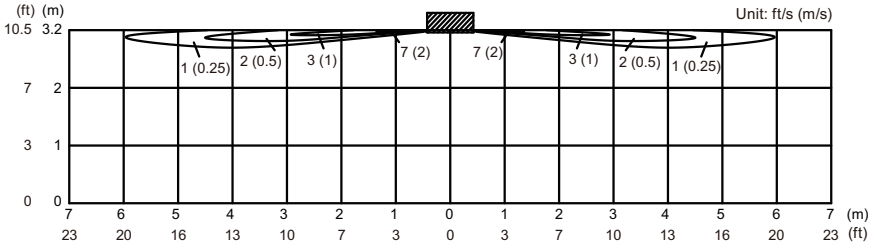
■ Model: AUUH24LUAS (3-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

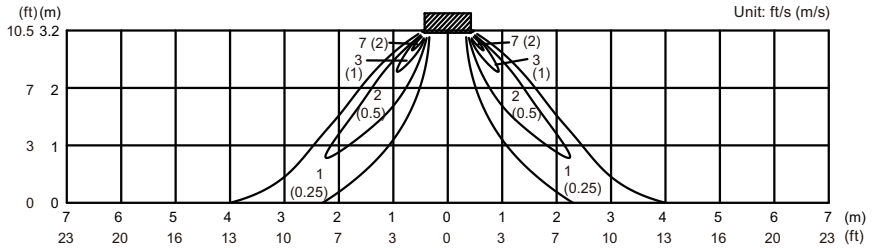
Top view
Horizontal louver: position 1



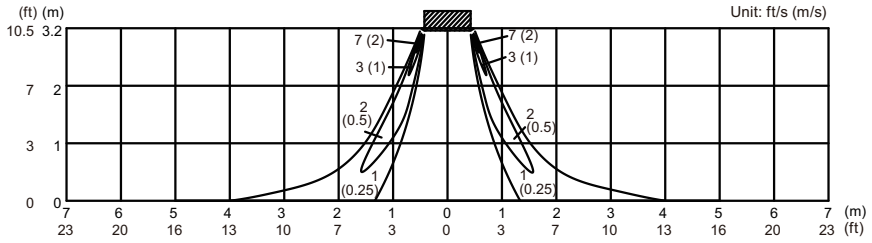
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4

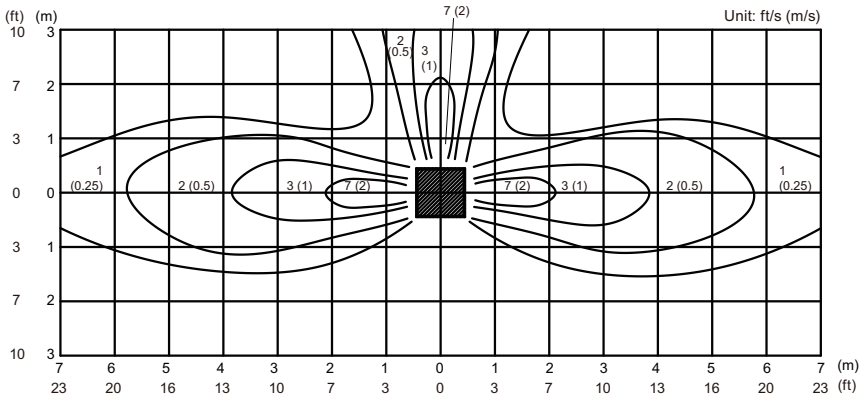


CASSETTE
AUUH18-36LUAS

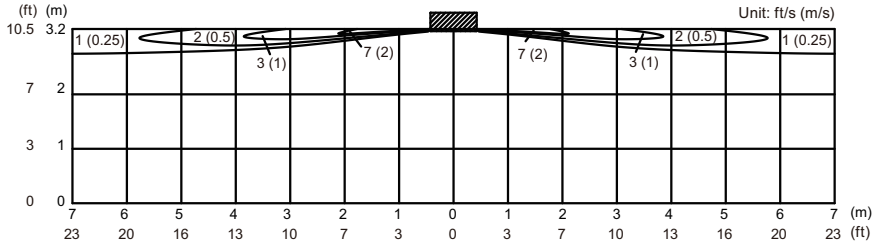
■ Model: AUUH30LUAS (3-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

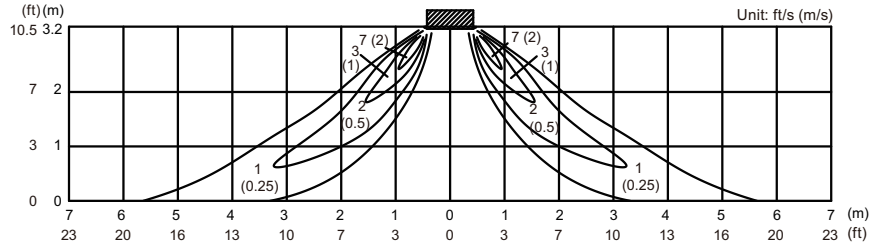
Top view
Horizontal louver: position 1



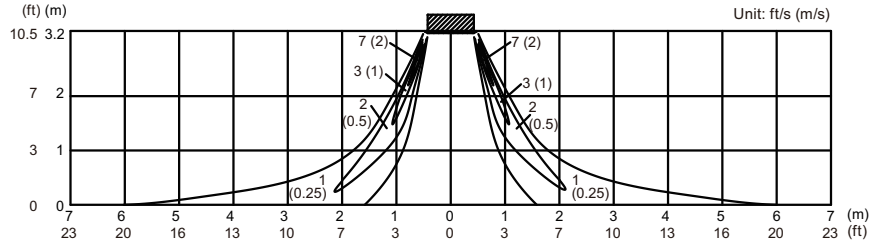
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4

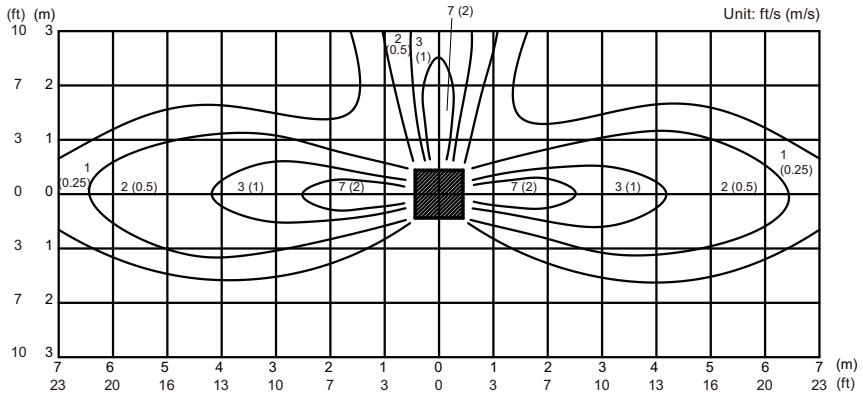


CASSETTE
AUUH18-36LUAS

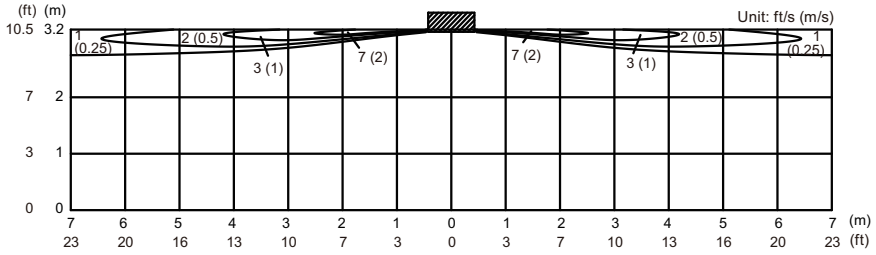
■ Model: AUUH36LUAS (3-way air outlet)

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

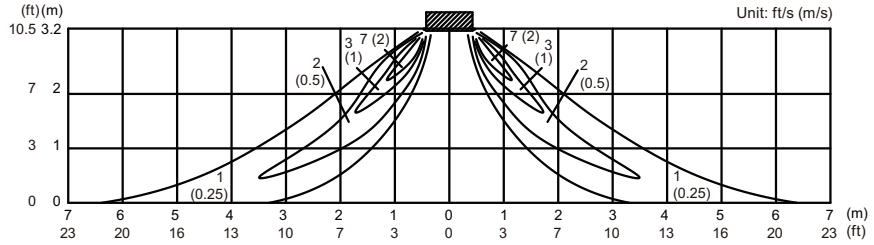
Top view
Horizontal louver: position 1



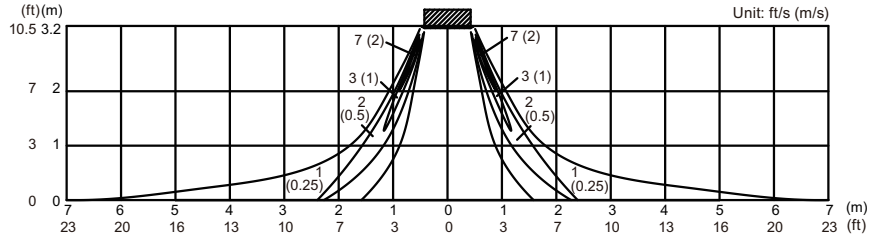
Side view
Horizontal louver: position 1



Side view
Horizontal louver: position 2



Side view
Horizontal louver: position 4



CASSETTE
AUUH18-36LUAS

5-2. Airflow

■ Model: AUUH18LUAS

● Cooling

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

● Heating

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

CASSETTE
AUUH18-36LUAS

■ Model: AUUH24LUAS

● Cooling

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

● Heating

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

CASSETTE
AUUH18-36LUAS

■ Model: AUUH30LUAS

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	1,600
	l/s	444
	CFM	942
MED	m^3/h	1,440
	l/s	400
	CFM	848
LOW	m^3/h	1,310
	l/s	364
	CFM	771
QUIET	m^3/h	1,150
	l/s	319
	CFM	677

● Heating

Fan speed	Airflow	
HIGH	m^3/h	1,600
	l/s	444
	CFM	942
MED	m^3/h	1,440
	l/s	400
	CFM	848
LOW	m^3/h	1,310
	l/s	364
	CFM	771
QUIET	m^3/h	1,150
	l/s	319
	CFM	677

CASSETTE
AUUH18-36LUAS

■ Model: AUUH36LUAS

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	1,900
	l/s	528
	CFM	1,118
MED	m^3/h	1,600
	l/s	444
	CFM	942
LOW	m^3/h	1,440
	l/s	400
	CFM	848
QUIET	m^3/h	1,180
	l/s	328
	CFM	695

● Heating

Fan speed	Airflow	
HIGH	m^3/h	1,900
	l/s	528
	CFM	1,118
MED	m^3/h	1,600
	l/s	444
	CFM	942
LOW	m^3/h	1,440
	l/s	400
	CFM	848
QUIET	m^3/h	1,180
	l/s	328
	CFM	695

CASSETTE
AUUH18-36LUAS

■ Model: AUUH18LUAS (3-way air outlet)

● Cooling/Heating

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

■ Model: AUUH24LUAS (3-way air outlet)

● Cooling/Heating

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

CASSETTE
AUUH18-36LUAS

■ Model: AUUH30LUAS (3-way air outlet)

● Cooling/Heating

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

■ Model: AUUH36LUAS (3-way air outlet)

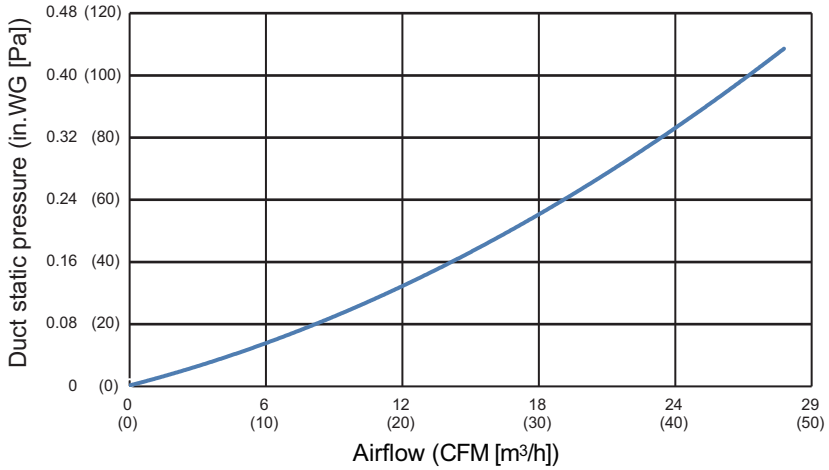
● Cooling/Heating

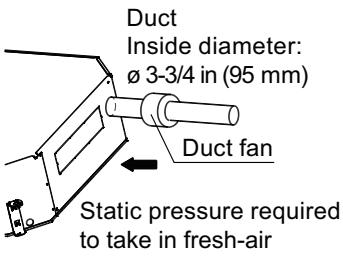
Fan speed	Airflow	
HIGH	m^3/h	1,660
	l/s	461
	CFM	977
MED	m^3/h	1,390
	l/s	386
	CFM	818
LOW	m^3/h	1,240
	l/s	344
	CFM	730
QUIET	m^3/h	1,030
	l/s	286
	CFM	606

CASSETTE
AUUH18-36LUAS

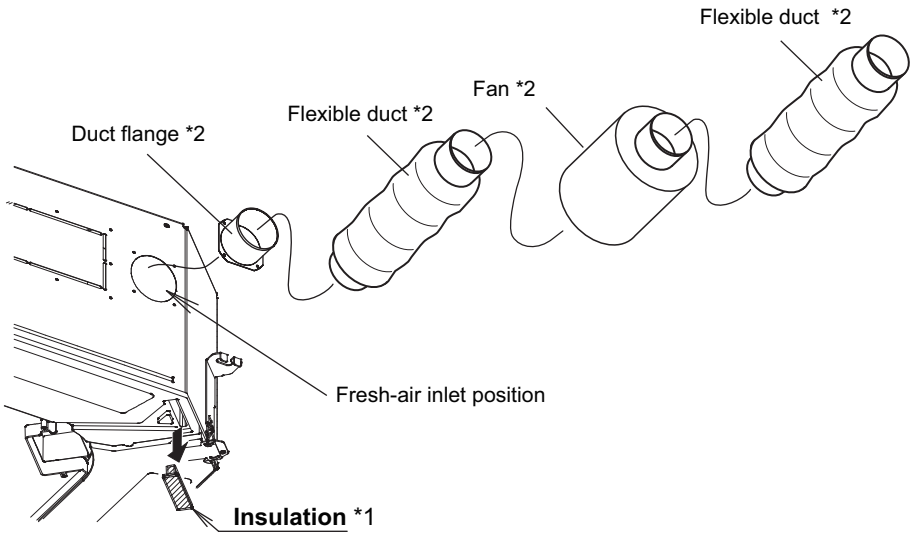
5-3. Fresh air characteristics

■ Airflow volume: Static pressure of fresh-air intake characteristics





● 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.

CASSETTE
AUUH18-36LUAS

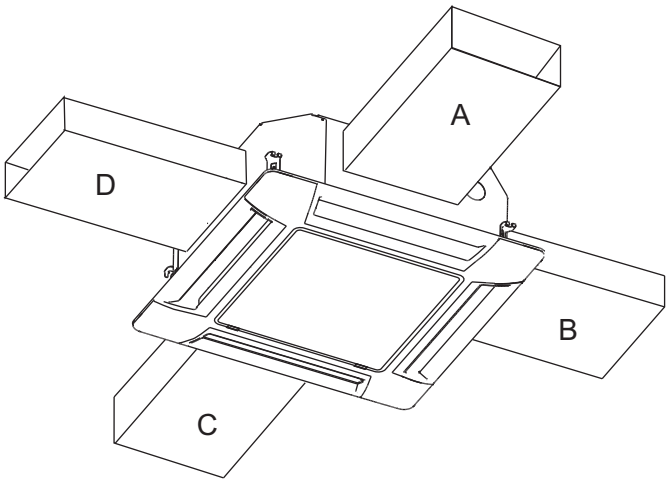
■ Air-outlet duct connection

● Precautions

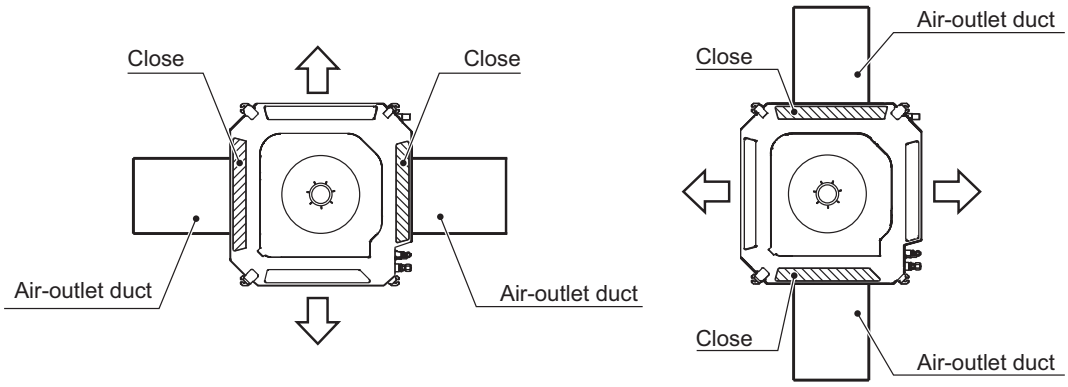
- Connect the air-outlet duct to maximum 2 directions among the 4-duct connecting directions.

⚠ CAUTION

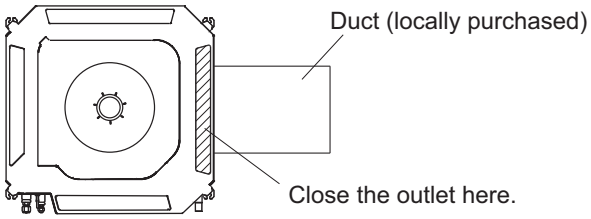
Do not connect ducts at 3 or more directions.



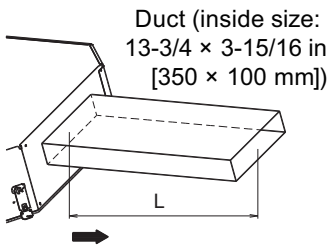
- When installing air-outlet duct in 2 directions, connect the ducts in a straight line.



- 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.

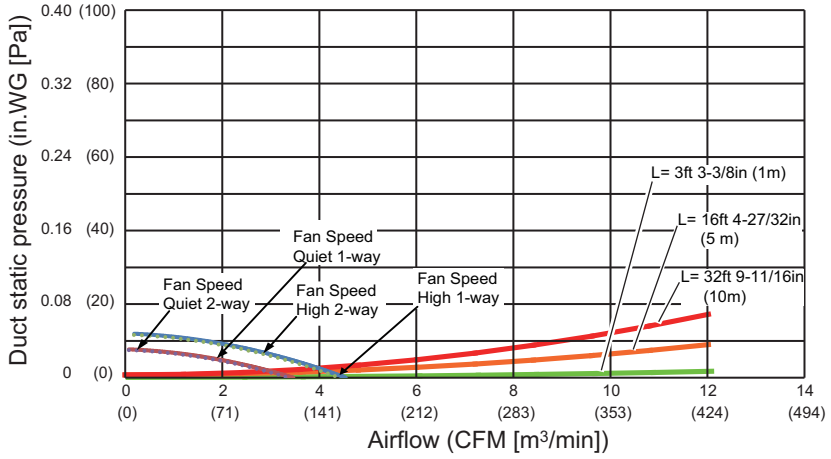


- The inside size of the duct is as follows:

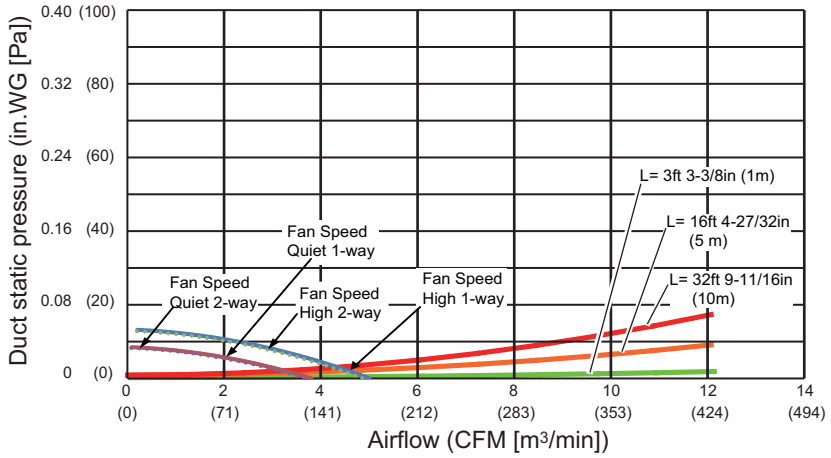


CASSETTE
AUUH18-36LUAS

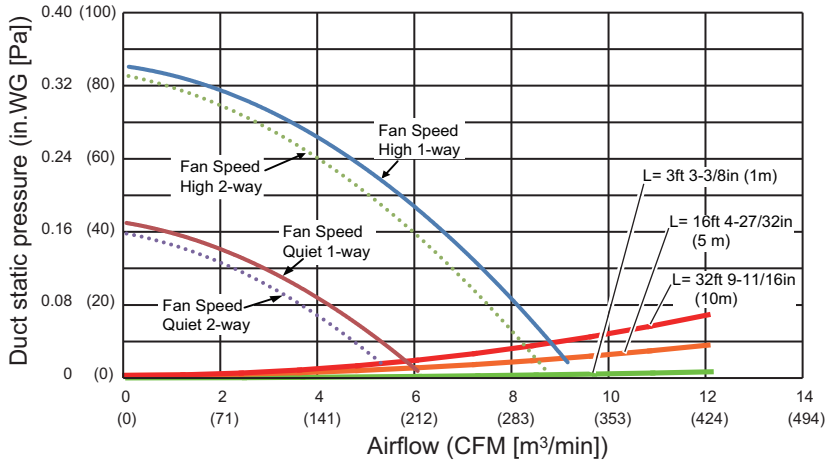
● Model: AUUH18LUAS



● Model: AUUH24LUAS

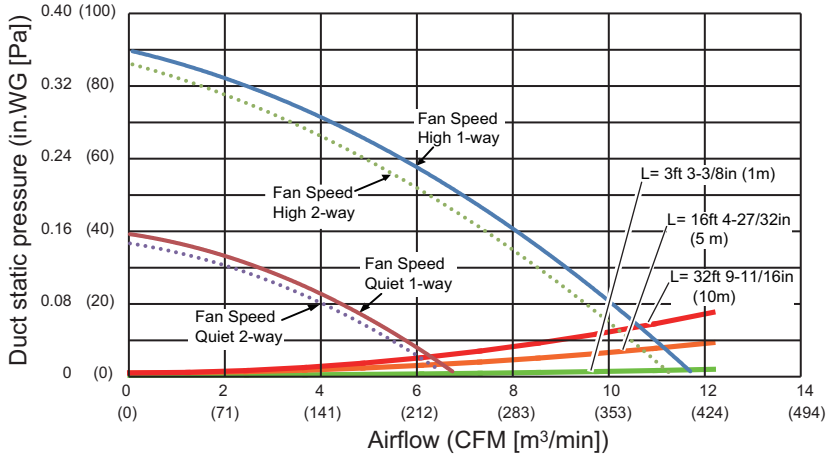


● Model: AUUH30LUAS



CASSETTE
AUUH18-36LUAS

● Model: AUUH36LUAS



CASSETTE
AUUH18-36LUAS

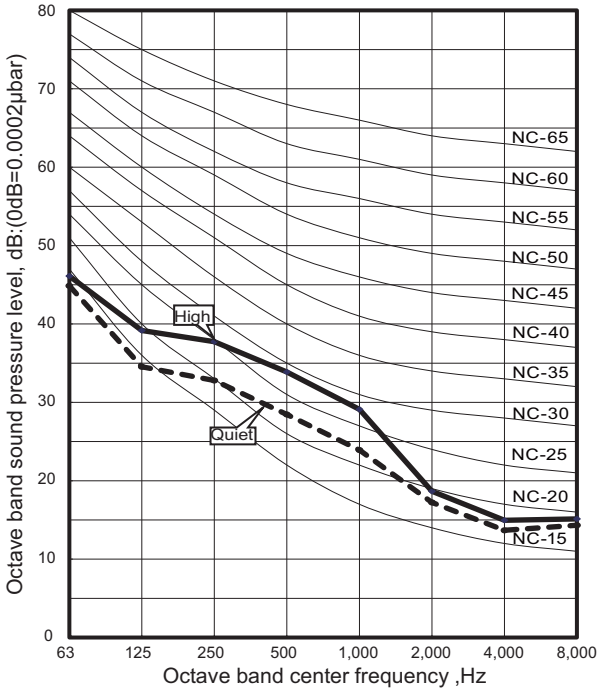
6. Operation noise (sound pressure)

6-1. Noise level curve

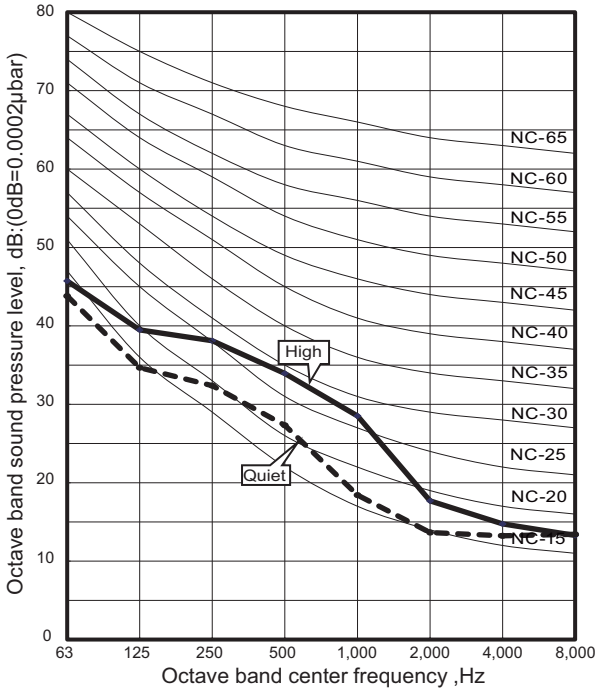
Measuring conditions	Ceiling height	Outlet directions
	Standard	4-way air outlet

■ Model: AUUH18LUAS

● Cooling

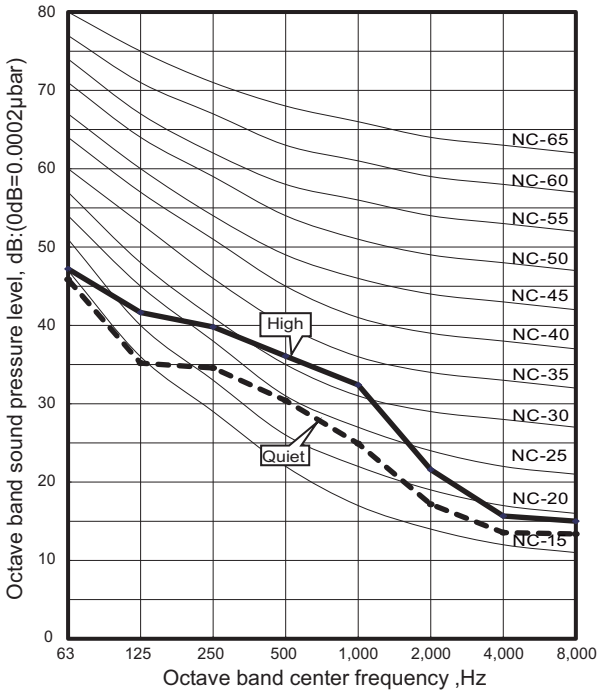


● Heating

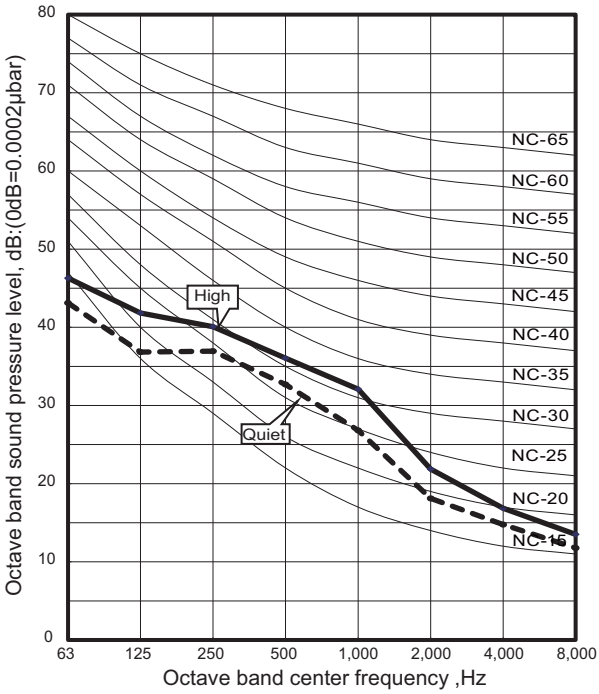


■ Model: AUUH24LUAS

● Cooling



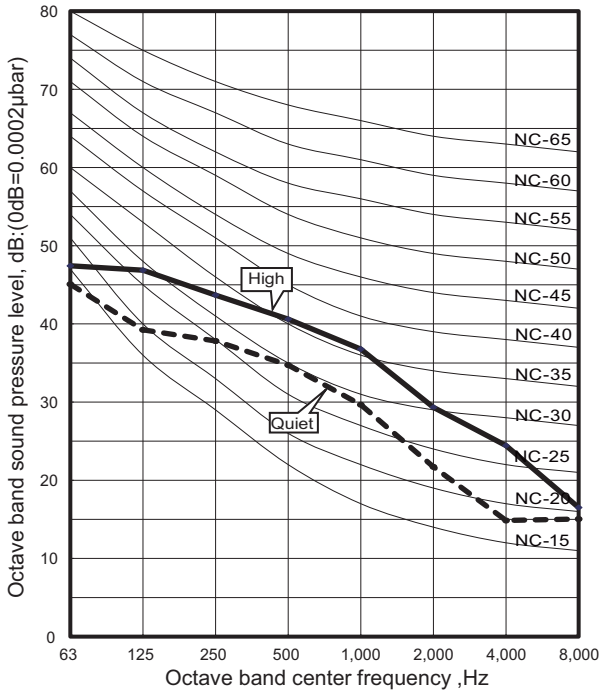
● Heating



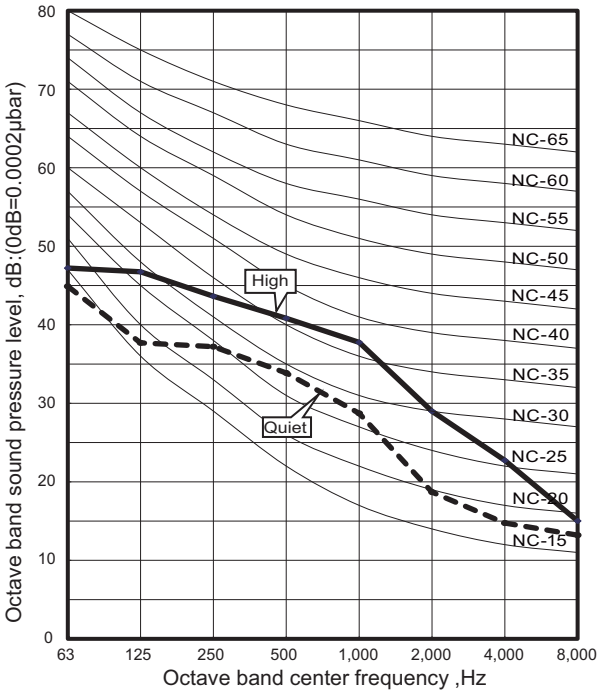
CASSETTE
AUUH18-36LUAS

■ Model: AUUH30LUAS

● Cooling

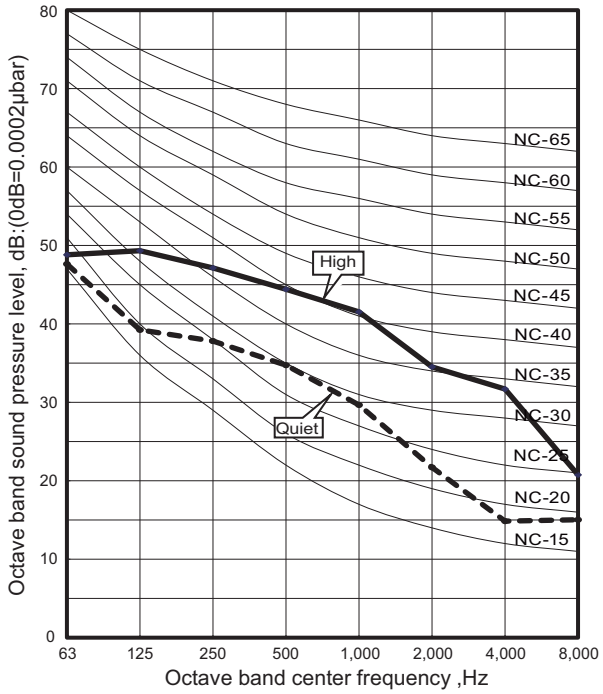


● Heating

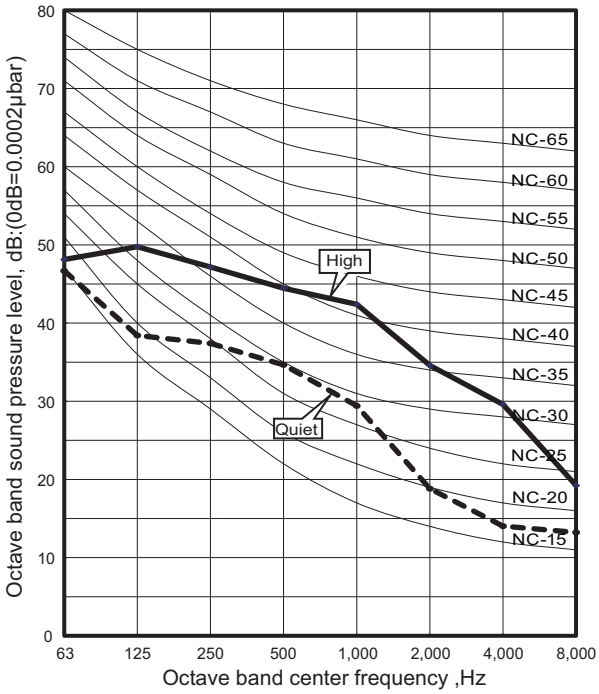


■ Model: AUUH36LUAS

● Cooling

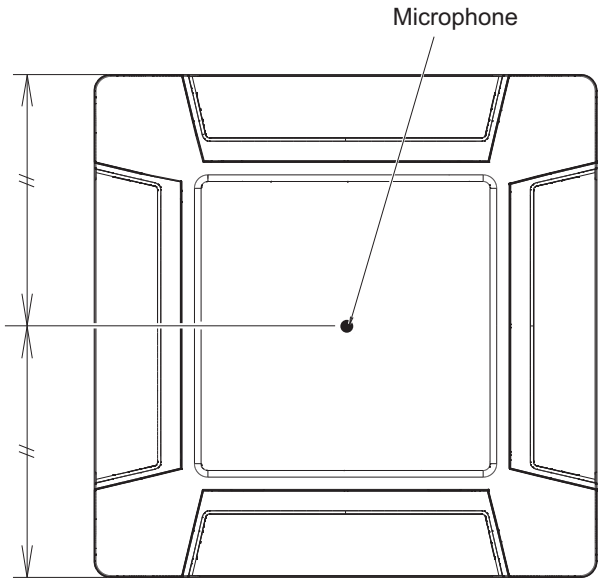


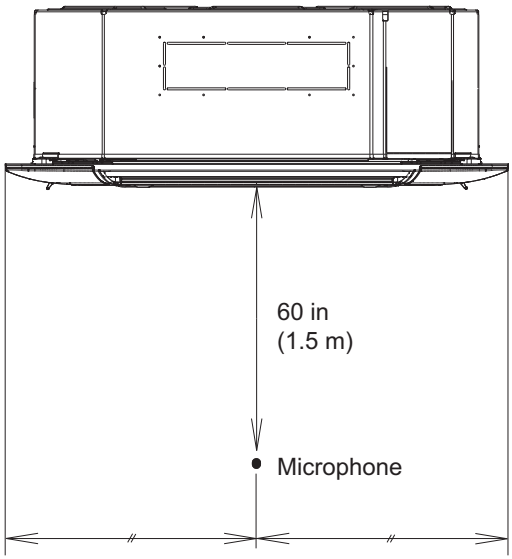
● Heating



CASSETTE
AUUH18-36LUAS

6-2. Sound level check point





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

CASSETTE
AUUH18-36LUAS

7. Safety devices

Type of protection	Protection form		Model	
			AUUH18LUAS AUUH24LUAS	AUUH30LUAS AUUH36LUAS
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

CASSETTE AUUH18-36LUAS

8. External input and output

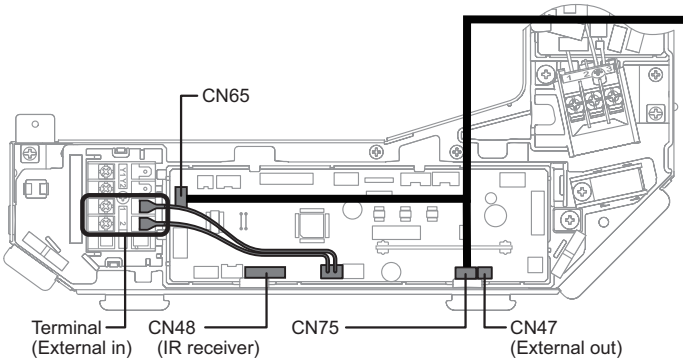


Fig. Indoor unit PCB

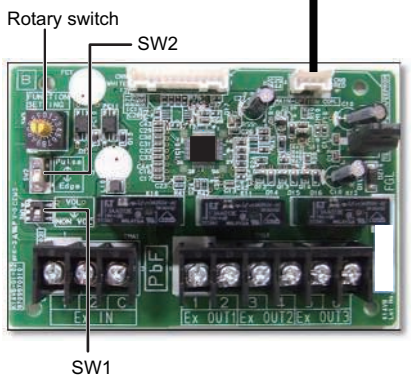


Fig. External input and output PCB

Connecting point		Input/Output	Function	Input select	Input signal
Indoor unit	Terminal	Input	Operation/Stop	Dry contact	Edge
			Forced stop		
	CN47	Output	Operation/Stop	—	—
			Error status		
			Indoor unit fan operation status		
			Cooling thermostat On		
			Heating thermostat On		
			External heater output		
External Input and Output PCB (UTY-XCSX)	Ex IN 1/2	Input	Operation/Stop	Dry contact/Apply voltage	Edge/Pulse
	Ex IN 1		Forced thermostat off		Edge
	Ex OUT 1 Ex OUT 2 Ex OUT 3	Output	Operation/Stop	—	—
			Error status		
			Indoor unit fan operation status		
			External heater output		
			Cooling high/low output		
			Heating thermostat On		

NOTE: For details of the switching function, refer to "Setting of external input and output" on page 43.

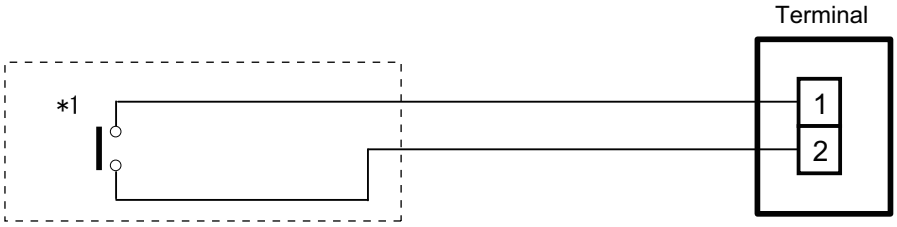
CASSETTE
AUUH18-36LUAS

8-1. External input

- “Operation/Stop” mode or "Forced stop" mode can be selected with function setting of indoor unit.
- A twisted pair cable (22 AWG) should be used. Maximum length of cable is 492 ft (150 m).
- Use an external input and output cable with appropriate external dimension, depending on the number of cables to be installed.
- 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 terminal.

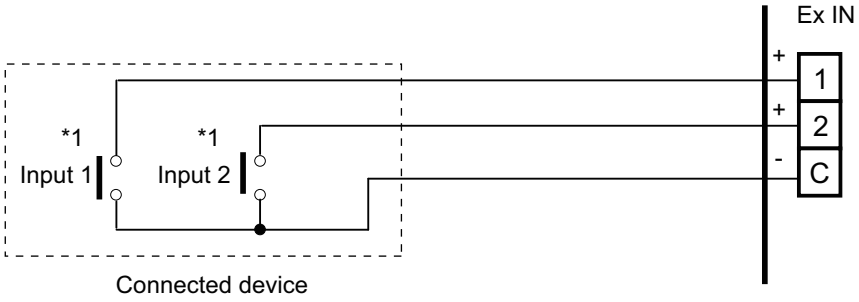


*1: The switch can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

■ External Input and Output PCB

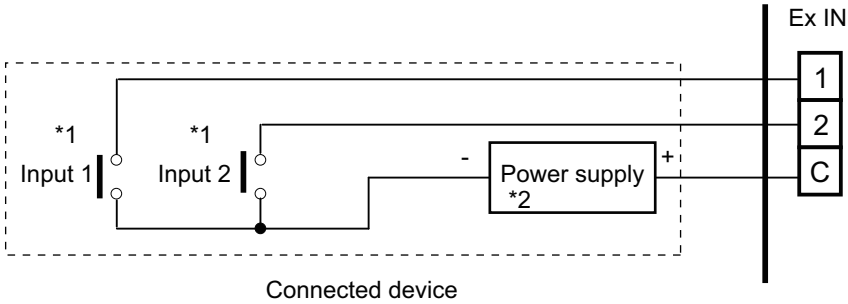
The indoor unit Operation/Stop can be set by using the input terminal on the PCB.

- **Input select**
  Use either one of these types of terminal according to the application. (Both types of terminal 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.

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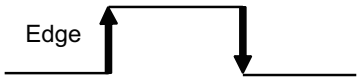
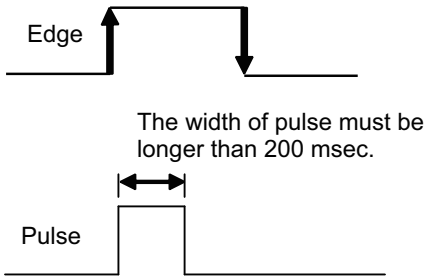
■ Input signal type

- **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.



NOTE: The input signal supports the following switch type:
- Edge: Alternate type switch
- Pulse: Momentary type switch

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8-2. External output

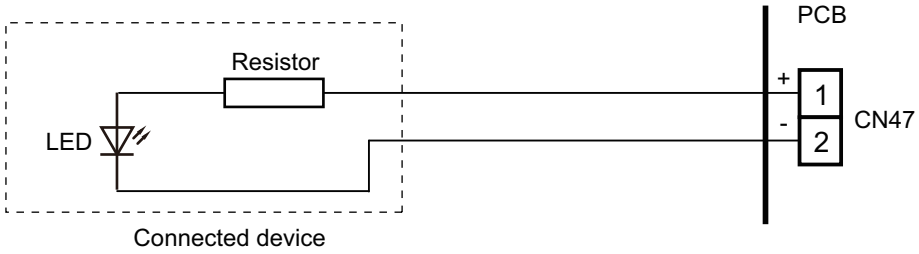
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

■ Indoor unit

- A twisted pair cable (22 AWG) should be used. Maximum length of cable is 82 ft (25 m).
- Output voltage: High DC 12 V ±2 V, Low 0 V.
- Permissible current: 50 mA
- For details, refer to "Setting of external input and output" on page 43.

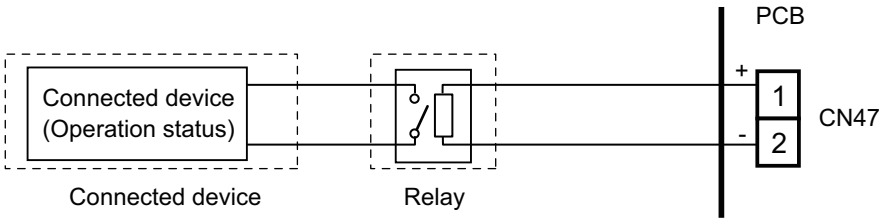
- **When indicator, etc. are connected directly**

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



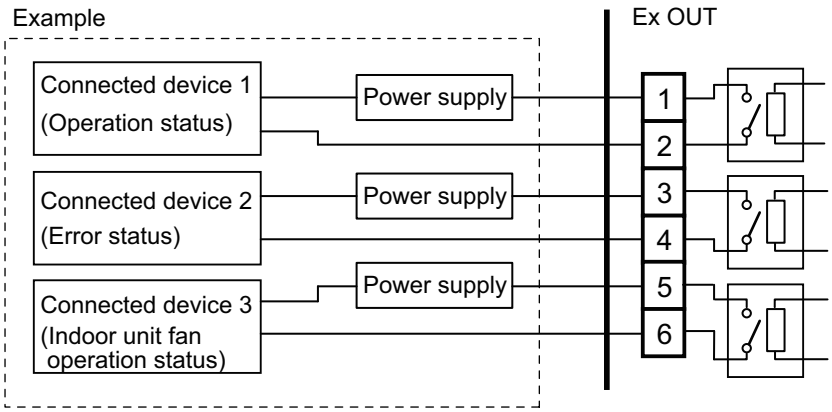
- **When connecting with a device equipped with a power supply**

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



■ External Input and Output PCB

- A twisted pair cable (22 AWG) 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 "Setting of external input and output" on page 43.



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8-3. Setting of external input and output

- **Indoor unit**

Input		
Connection point	**Function setting number 46**	**Function**
Terminal	00	Operation/Stop mode 1
	01	(Setting prohibited)
	02	Forced stop mode
	03	Operation/Stop mode 2

Output		
Connection point	**Function setting number 60**	**Function**
CN47	00	Operation/Stop
	01—04	Cooling thermostat On
	05	Heating thermostat On
	06	Operation/Stop
	07—08	Cooling thermostat On
	09	Error status
	10	Indoor unit fan operation status
	11	External heater output

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- **External Input and Output PCB**

Switch setting		Ex IN		Ex OUT		
Rotary switch	**SW2**	**1**	**2**	**1**	**2**	**3**
1	Edge	Operation/Stop	Not available	Operation/Stop	Error status	Indoor unit fan operation status
	Pulse	Operation	Stop			
2	Edge*1	Forced thermostat off	Not available	Error status	Indoor unit fan operation status	External heater output
3		Mechanical cooling off	Not available	Error status	Indoor unit fan operation status	External heater output
4		Forced thermostat off	Not available	Error status	Operation/Stop	External heater output
5		Mechanical cooling on*2	Not available	Cooling high/low output	Operation/Stop	External heater output
6		Mechanical cooling on*2	Not available	Error status	Operation/Stop	Cooling high/low output
7		Forced thermostat off	Not available	Error status	Indoor unit fan operation status	External heater output
8		Forced thermostat off	Not available	Error status	Indoor unit fan operation status	Heating thermostat on
9		Mechanical cooling off	Not available	Error status	Heating thermostat on	External heater output
A		Forced thermostat off	Not available	Heating thermostat on	Operation/Stop	External heater output
B		Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	External heater output
C		Forced thermostat off	Not available	Operation/Stop	Error status	External heater output
D		Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	Error status

NOTES:

- When the rotary switch is selected to “1", the operation of the terminal input of the indoor unit and the External Input and Output PCB input are the same. The operation content depends on the setting of function setting number 46.
- *1: The external input other than “Operation/Stop” is available only when the SW2 is set to “Edge”.
- *2: The external input of “Mechanical cooling on” is available only when the function setting number 60 is set to “03” or “04”.

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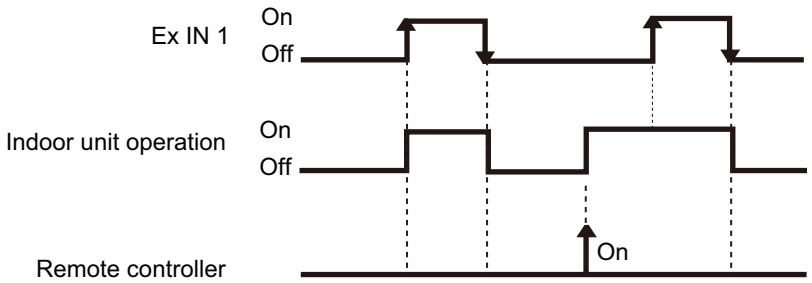
8-4. Details of control input function

■ Operation/Stop mode 1

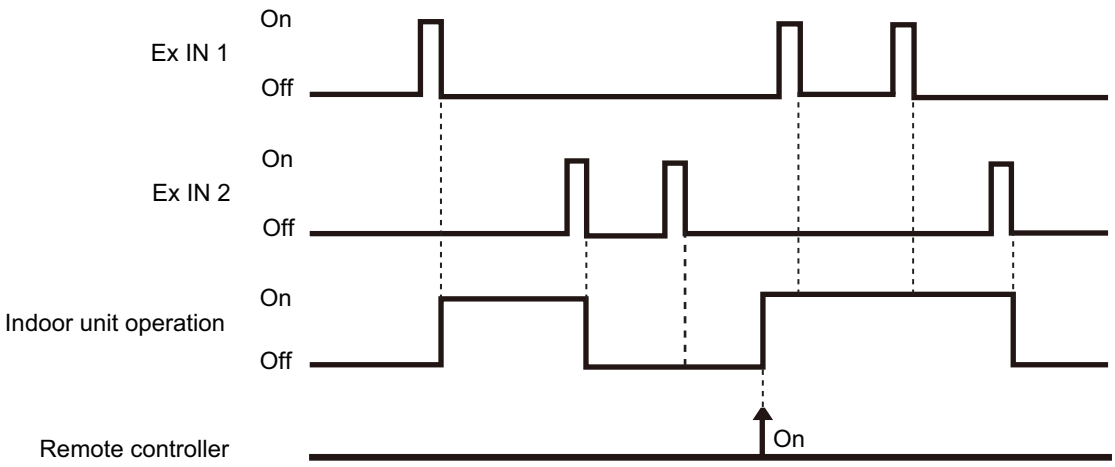
- **In the case of "Edge" input**

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-00	—		Input of indoor unit	Terminal	Off → On	Operation
					On → Off	Stop
	1	Edge	External Input and Output PCB	Ex IN 1	Off → On	Operation
					On → Off	Stop



- **In the case of "Pulse" input**

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-00	1	Pulse	External Input and Output PCB	Ex IN 1	Pulse	Operation
				Ex IN 2		Stop



NOTES:

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

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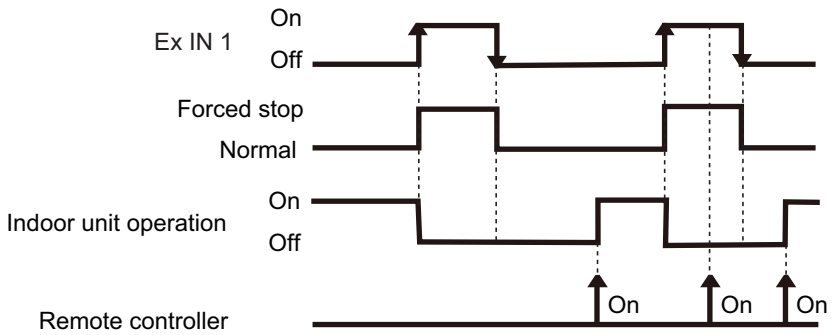
■ Forced stop

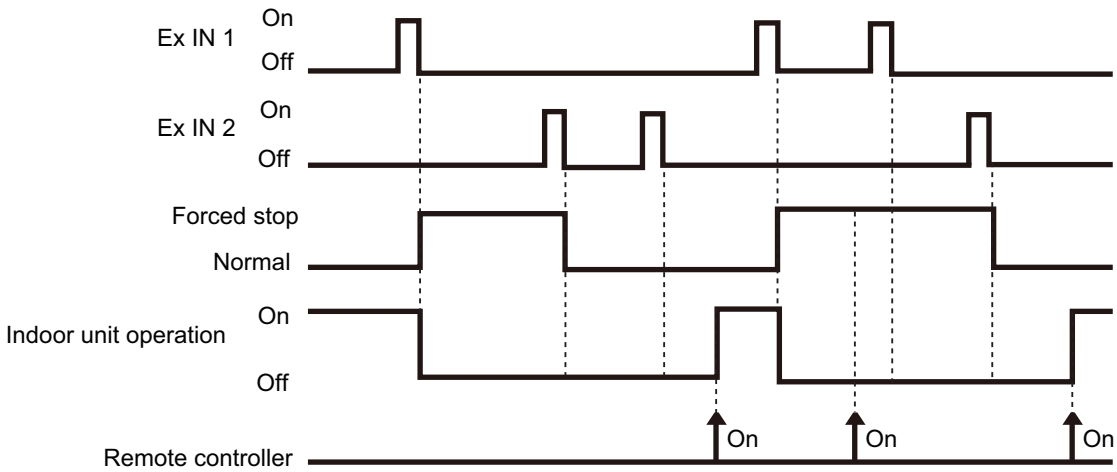
- **In the case of "Edge" input**

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-02	—		Input of indoor unit	Terminal	Off → On	Forced stop (R.C. disabled)
					On → Off	Normal (R.C. enabled)
	1	Edge	External Input and Output PCB	Ex IN 1	Off → On	Forced stop (R.C. disabled)
					On → Off	Normal (R.C. enabled)



- **In the case of "Pulse" input**

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-02	1	Pulse	External Input and Output PCB	Ex IN 1	Pulse	Forced stop (R.C. disabled)
				Ex IN 2		Normal (R.C. enabled)



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.

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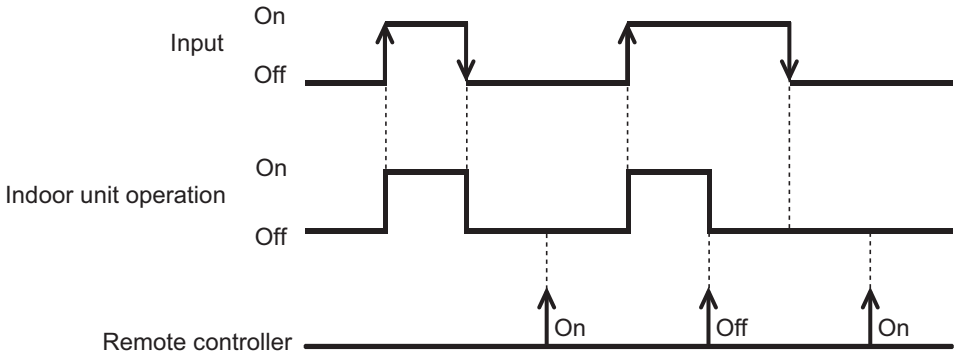
■ Operation/Stop mode 2

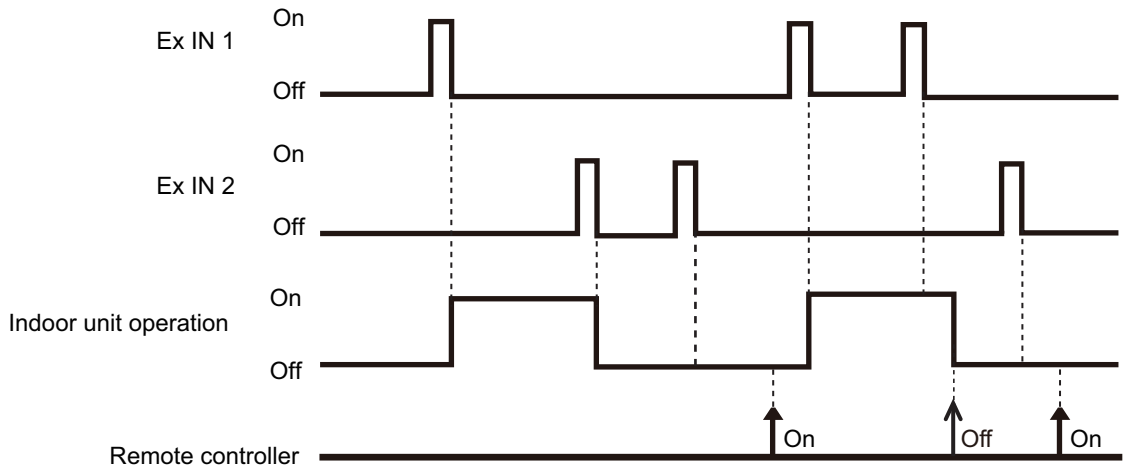
- **In the case of "Edge" input**

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-03	—		Input of indoor unit	Terminal	Off → On	Operation (R.C. enabled)
					On → Off	Stop (R.C. disabled)
	1	Edge	External Input and Output PCB	Ex IN 1	Off → On	Operation (R.C. enabled)
					On → Off	Stop (R.C. disabled)



- **In the case of "Pulse" input**

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-03	1	Pulse	External Input and Output PCB	Ex IN 1	Pulse	Operation (R.C. enabled)
				Ex IN 2		Stop (R.C. disabled)



NOTE: 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.

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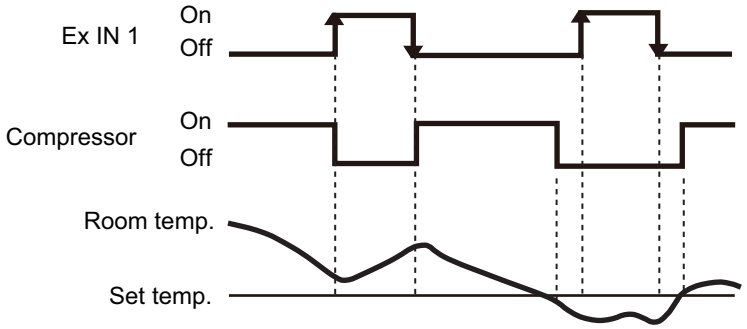
■ Forced thermostat off

External Input and Output PCB Rotary switch	External input		Input signal	Command
2, B, C, D	External Input and Output PCB	Ex IN 1	Off → On	Thermostat off
			On → Off	Normal operation
4, 7, 8, A	External Input and Output PCB	Ex IN 1	Off → On	Thermostat off
			On → Off	Normal operation



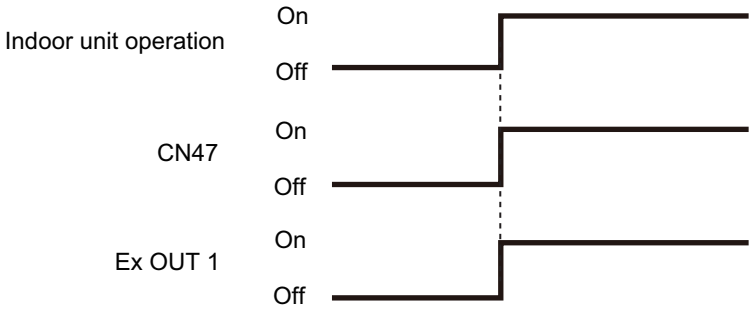
CASSETTE AUUH18-36LUAS

8-5. Details of control output function

■ Operation status

Function setting	External Input and Output PCB Rotary switch	External output		Output signal	Status
60-00 60-06	—	Output of indoor unit	CN47	Off → On	Operation
				On → Off	Stop
—	1, B, C, D	External Input and Output PCB	Ex OUT 1	Off → On	Operation
				On → Off	Stop

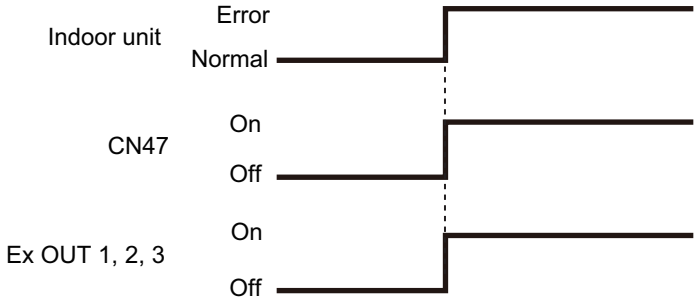
The output is low when the unit is stopped.



■ Error status

Function setting	External Input and Output PCB Rotary switch	External output		Output signal	Status
60-09	—	Output of indoor unit	CN47	Off → On	Error
				On → Off	Normal
—	2, 3, 4, 6, 7, 8, 9	External Input and Output PCB	Ex OUT 1	Off → On	Error
				On → Off	Normal
—	1, C	External Input and Output PCB	Ex OUT 2	Off → On	Error
				On → Off	Normal
—	D	External Input and Output PCB	Ex OUT 3	Off → On	Error
				On → Off	Normal

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



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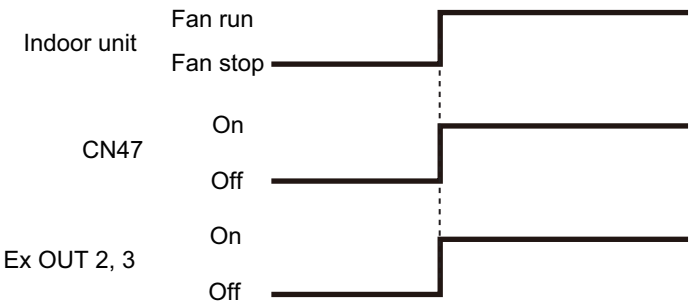
■ Indoor unit fan operation status

Function setting	External Input and Output PCB Rotary switch	External output		Output signal	Status
60-10	—	Output of indoor unit	CN47	Off → On	Fan run
				On → Off	Fan stop
—	2, 3, 7, 8, B, D	External Input and Output PCB	Ex OUT 2	Off → On	Fan run
				On → Off	Fan stop
—	1	External Input and Output PCB	Ex OUT 3	Off → On	Fan run
				On → Off	Fan stop

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



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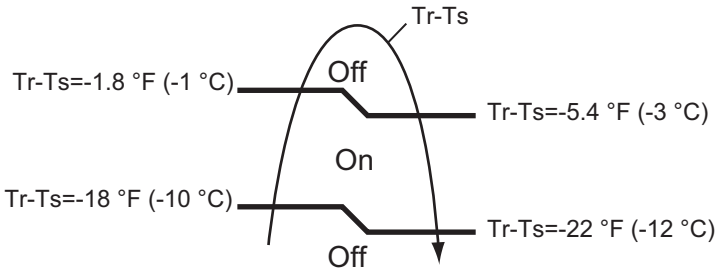
■ External heater output

Function setting	External Input and Output PCB	External output		Output signal	Control
	Rotary switch				
60-11	—	Output of indoor unit	CN47	Off → On	Heater on
				On → Off	Heater off
—	2, B, C	External Input and Output PCB	Ex OUT 3	Off → On	Heater on
				On → Off	Heater off

Output signal	Condition
Off → On	Heater turns on as shown in diagram of heating temperature
On → Off	Heater turns off as shown in diagram of heating temperature • Other than Heating mode • Error occurred • Forced thermo off • Fan stop protection

Specifications of the signal output performance are as shown as follows:

Example: When set temperature (Ts) is set at 72°F (22°C);
- And room temperature (Tr) increase above 53.6°F (12°C), signal output is on.
- And Tr increase above 69.8°F (21°C), signal output is off.
- And Tr decrease below 66.2°F (19°C), signal output is on.
- And Tr decrease below 50°F (10°C), signal output is off.



The output also turns off in defrost operation.

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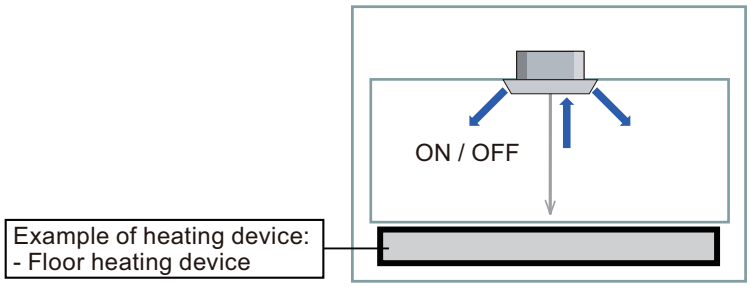
● Installation configuration of individual connection

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



⚠ WARNING

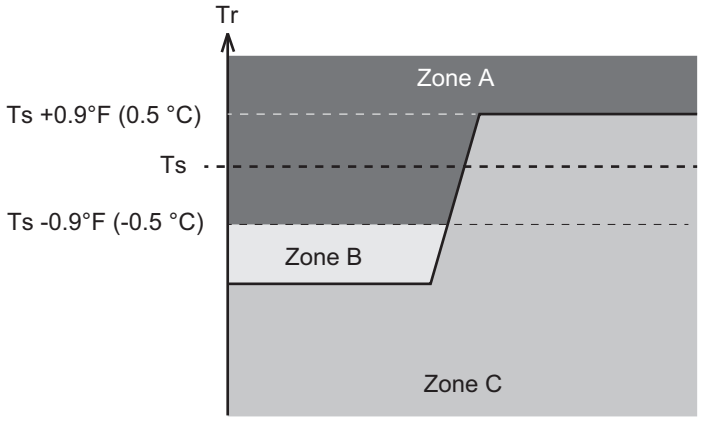
Operation	Condition
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

- 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.

CASSETTE AUUH18-36LUAS

● Auxiliary equipment control by room temperature

Auxiliary equipment control is switchable by room temperature. Auxiliary equipment switching is performed for each room temperature divided to following 3 zones.



Ts: Setting temperature
Tr: Room temperature

Zone	Application	When temperature dropping		When temperature rising	
		Primary	Auxiliary	Primary	Auxiliary
A	Both of primary and auxiliary equipment is unnecessary.	Off	Off	Off	Off
B	Primary heater only.When room temperature stays in zone B for a long time, auxiliary equipment also operates.	On	Off*1	—	—
C	Auxiliary equipment also operates.	On	On*2	On	On*2

*1: For standby time for auxiliary equipment operation, refer to indoor unit function number 71 "Contents of function setting" on page 71.

*2: When indoor unit function number 61 is set to "00", auxiliary equipment operates according to the following conditions.

- Ts - Tr > 21.6 °F (-12.0 °C): Auxiliary equipment turn off.
- Ts - Tr > 18.0 °F (-10.0 °C): Auxiliary equipment turn on.

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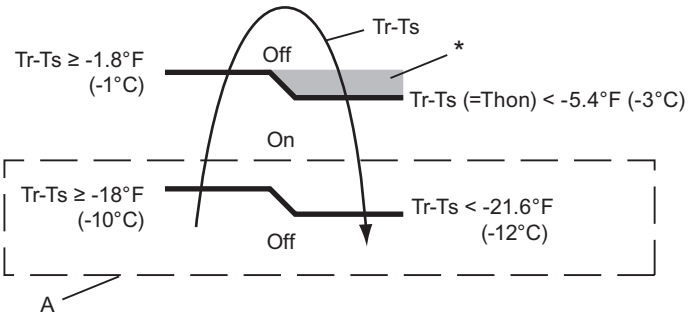
● Auxiliary heater control 1

Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off • Fan stop protection

- 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

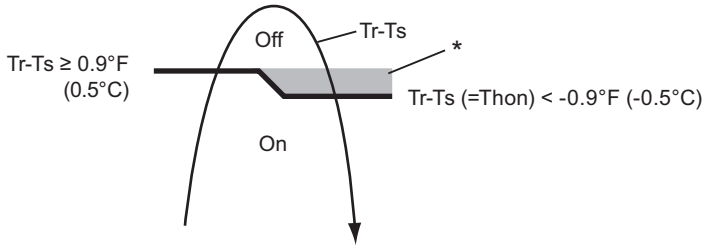
*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

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	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off • Fan stop protection

- 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

*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

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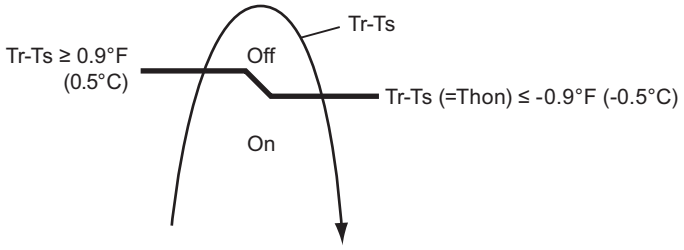
● Heat pump prohibition control

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

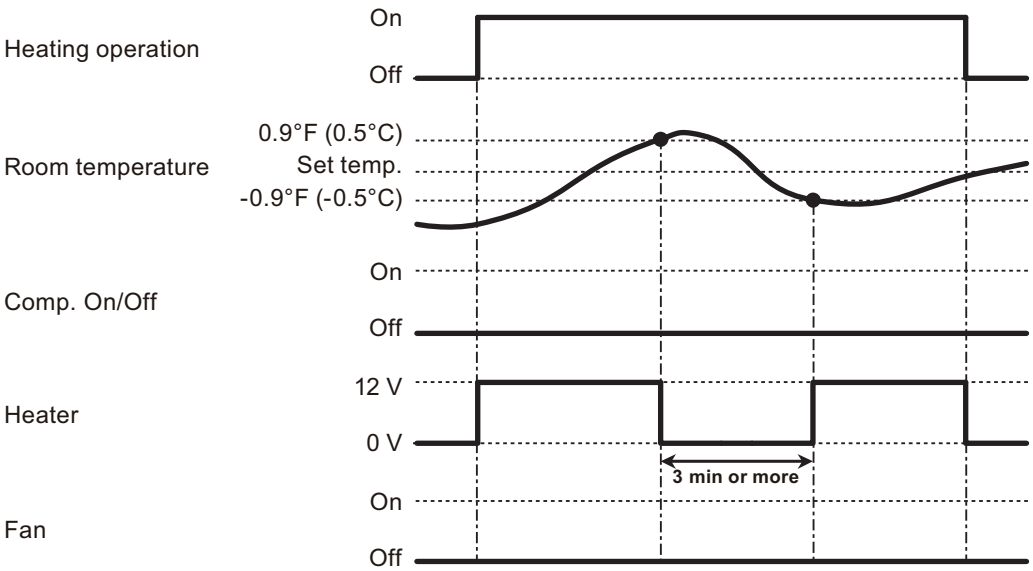
Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

- 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

- **Operation status**



NOTE: In following operations, compressor will be on.
- Other than heating
- Test run

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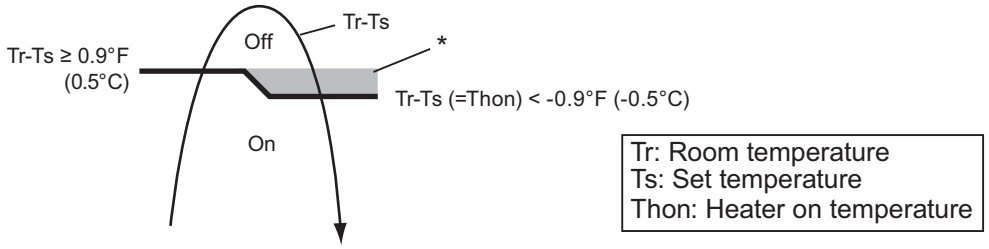
● Auxiliary heater control by outdoor temperature 1

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	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off • Heat pump only zone

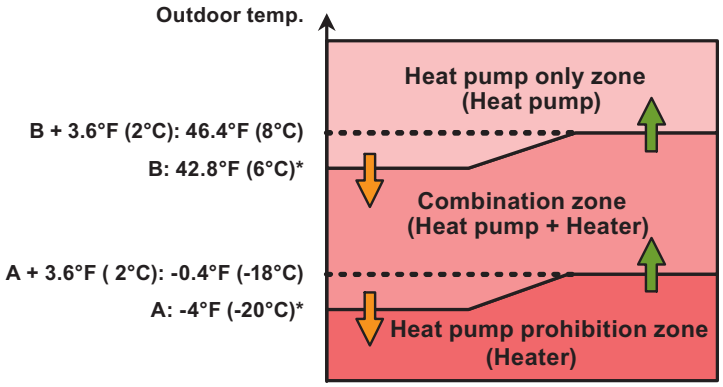
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting “Thon”.
- Outdoor temperature zone boundary A and B: Adjustable individually by function setting number 66 and 67.

- **External heater output**



*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- **Outdoor temperature zone**



*: Adjustable by function setting 66 and 67

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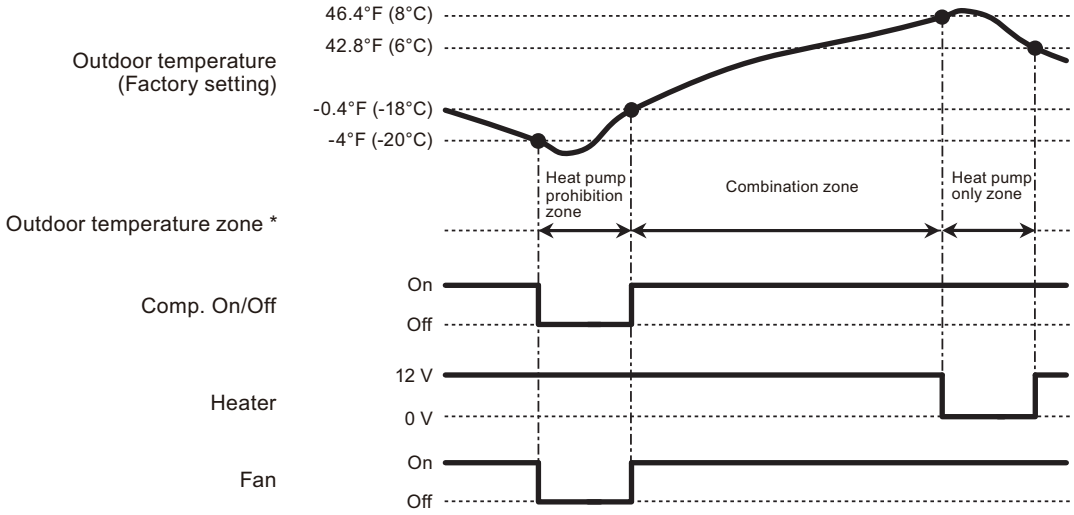
- **Operation status**



* 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

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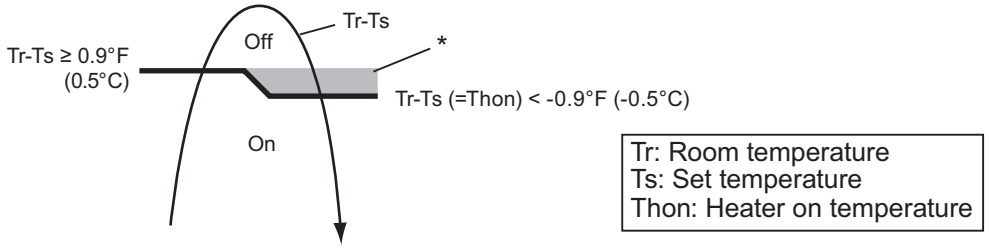
● Auxiliary heater control by outdoor temperature 2

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	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

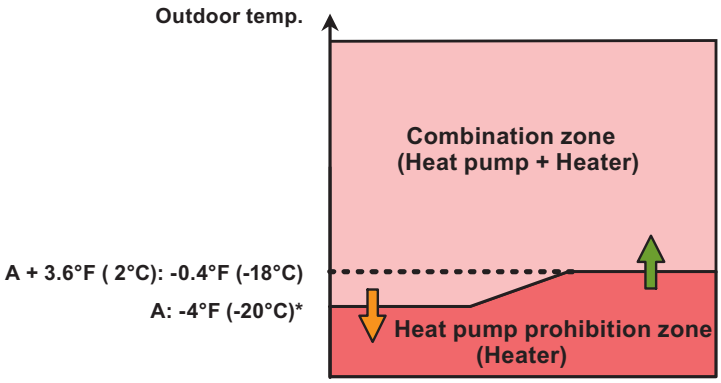
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting “Thon”.
- Outdoor temperature zone boundary A: Adjustable by function setting number 66.

- **External heater output**



*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- **Outdoor temperature zone**



*: Adjustable by function setting 66

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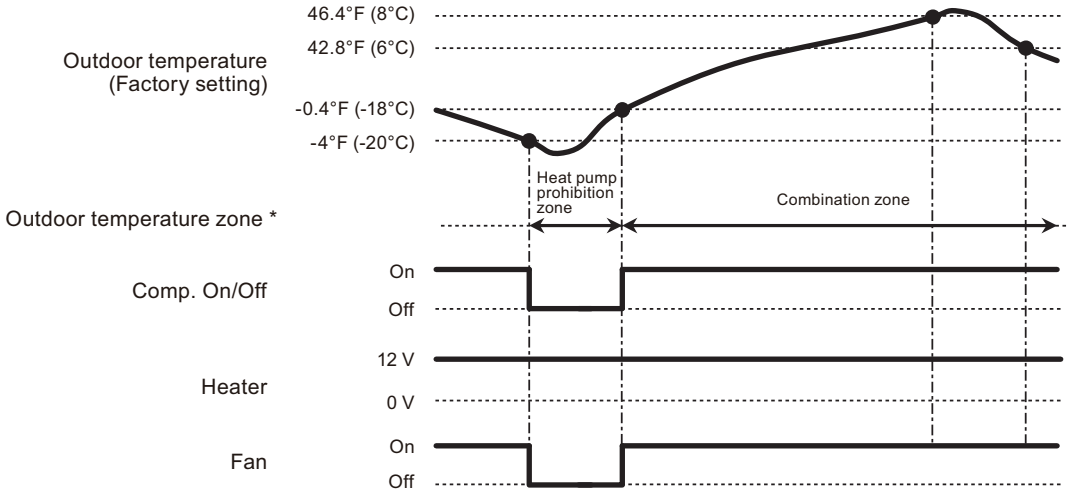
- **Operation status**



* 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

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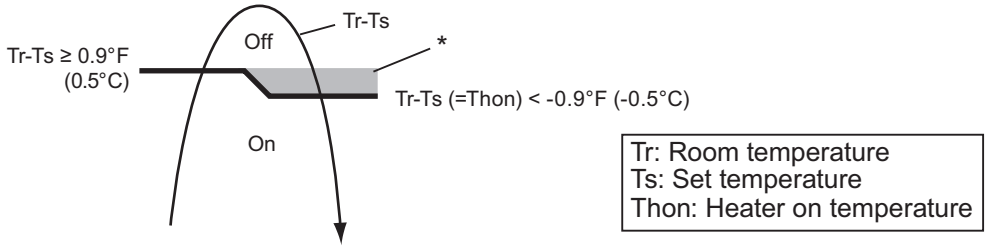
● Auxiliary heater control by outdoor temperature 3

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	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

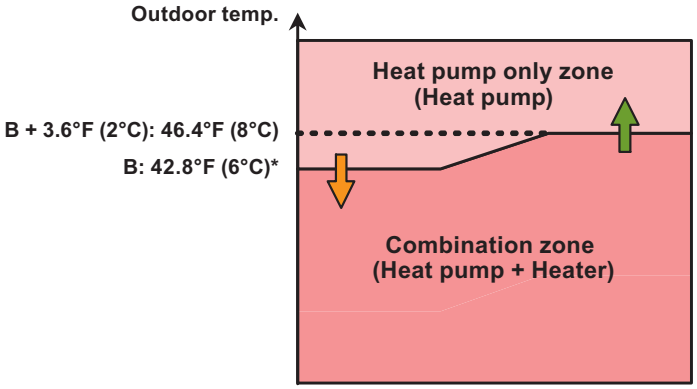
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting “Thon”.
- Outdoor temperature zone boundary B: Adjustable by function setting number 67.

- **External heater output**



*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- **Outdoor temperature zone**



*: Adjustable by function setting 67

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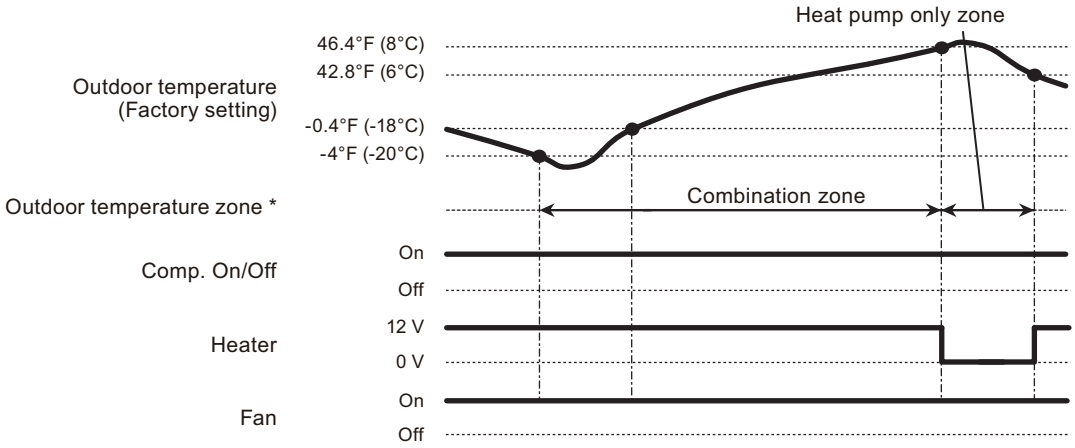
- **Operation status**



* 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

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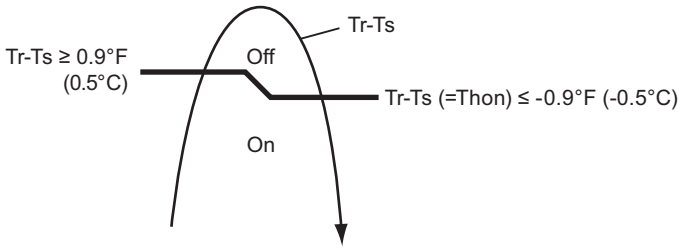
● Auxiliary heat pump control

- **External heater output**

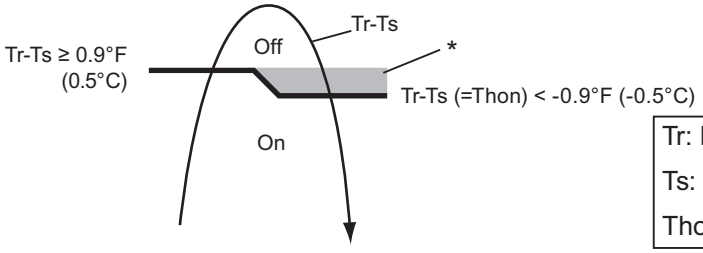
Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

– Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
– Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



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

- **Auxiliary heat pump On/Off**
  – Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
  – All control temperatures will shift by adjusting “Thon”.



Tr: Room temperature
Ts: Set temperature
Thon: Heat pump on temperature

*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

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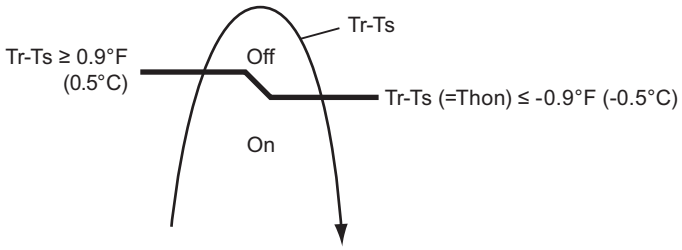
● Auxiliary heat pump control by outdoor temperature 1

- **External heater output**

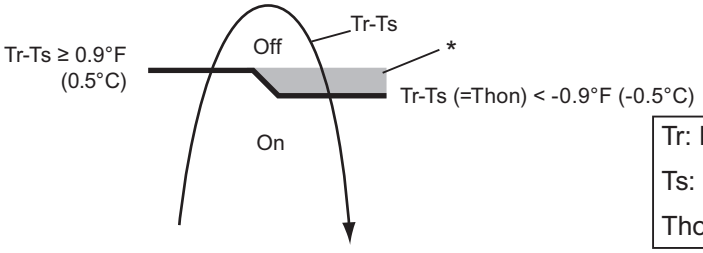
Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

– Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
– Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



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

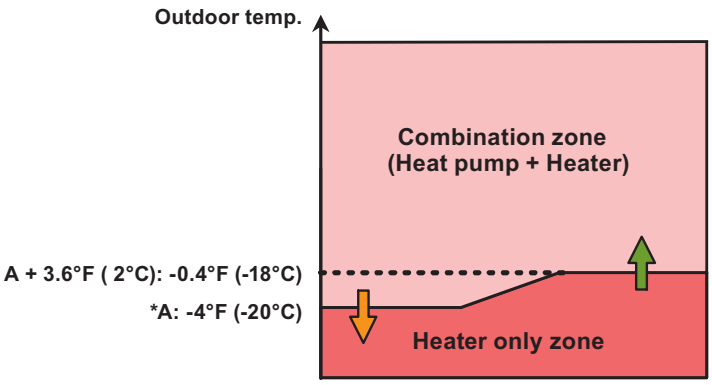
- **Auxiliary heat pump On/Off**
  – Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
  – All control temperatures will shift by adjusting “Thon”.



Tr: Room temperature
Ts: Set temperature
Thon: Heat pump on temperature

*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- **Outdoor temperature zone**



*: Adjustable by function setting 66

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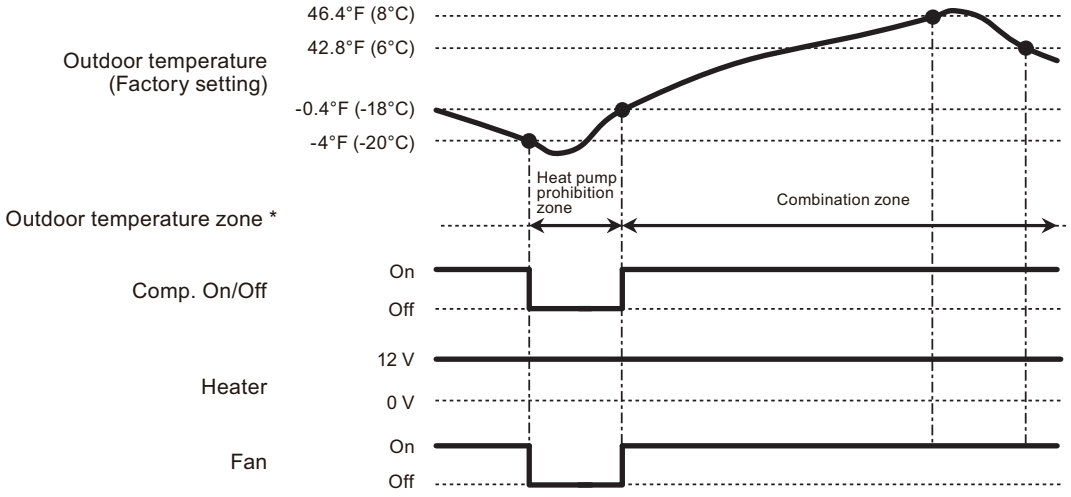
- **Operation status**



* 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

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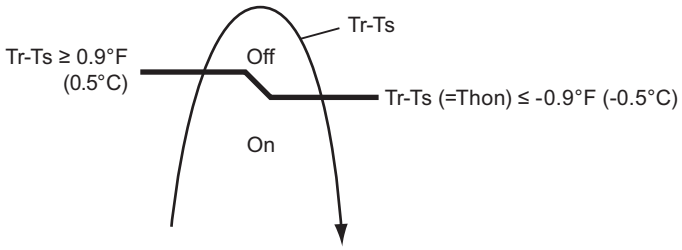
● Auxiliary heat pump control by outdoor temperature 2

- **External heater output**

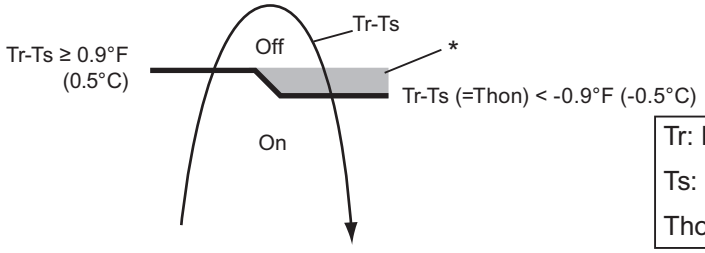
Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

– Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
– Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



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

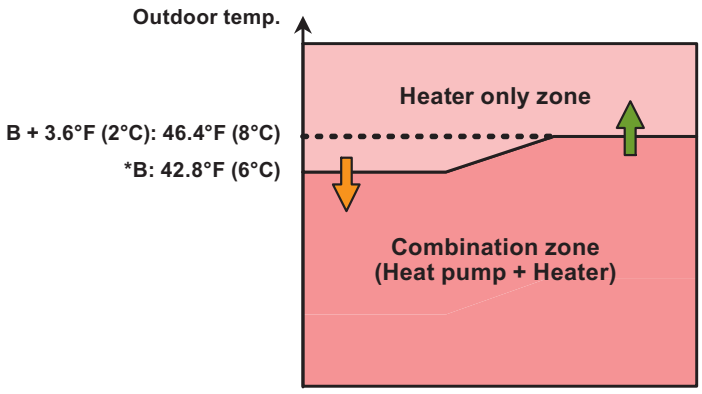
- **Auxiliary heat pump On/Off**
  – Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
  – All control temperatures will shift by adjusting “Thon”.



Tr: Room temperature
Ts: Set temperature
Thon: Heat pump on temperature

*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- **Outdoor temperature zone**



*: Adjustable by function setting 67

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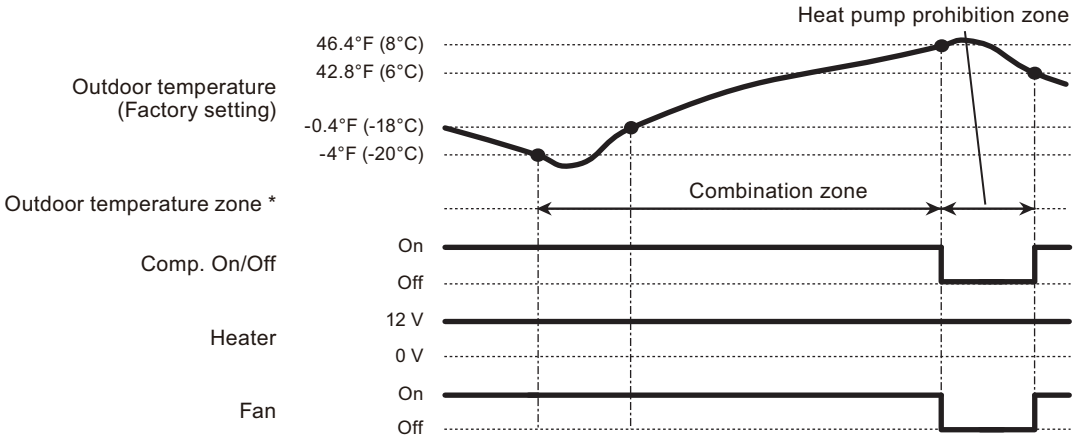
- **Operation status**



* 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

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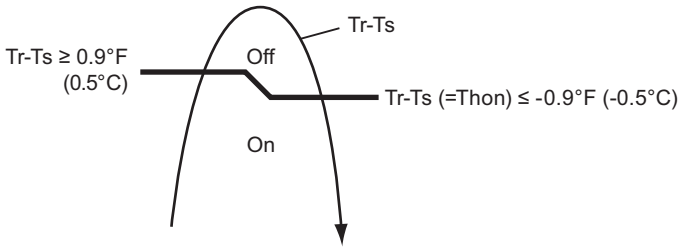
● Auxiliary heat pump control by outdoor temperature 3

- **External heater output**

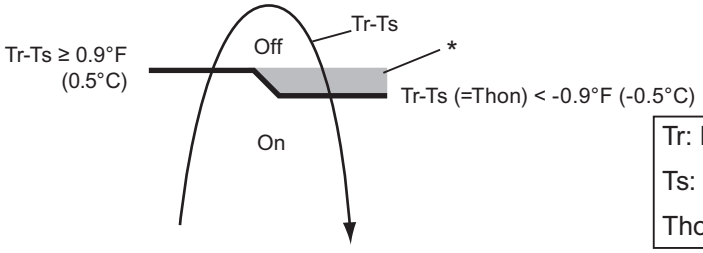
Operation	Condition
Heater on	Heater is on as shown in following diagram of heating temperature.
Heater off	• Heater is off as shown in following diagram of heating temperature. • Other than heating mode • Error occurred • Forced thermostat off

– Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
– Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



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

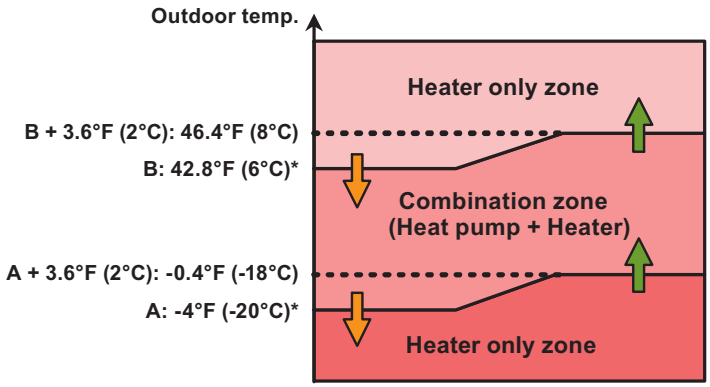
- **Auxiliary heat pump On/Off**
  – Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
  – All control temperatures will shift by adjusting “Thon”.



Tr: Room temperature
Ts: Set temperature
Thon: Heat pump on temperature

*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- **Outdoor temperature zone**



*: Adjustable by function setting 66 and 67

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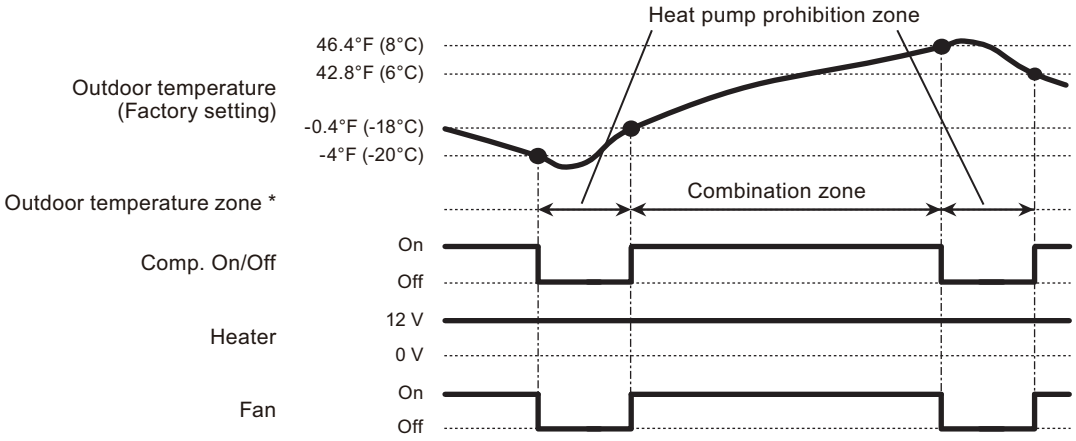
- **Operation status**



* 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

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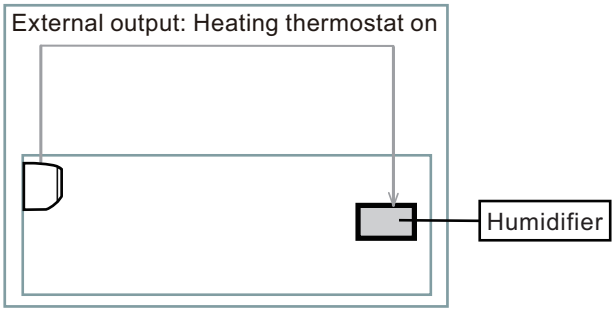
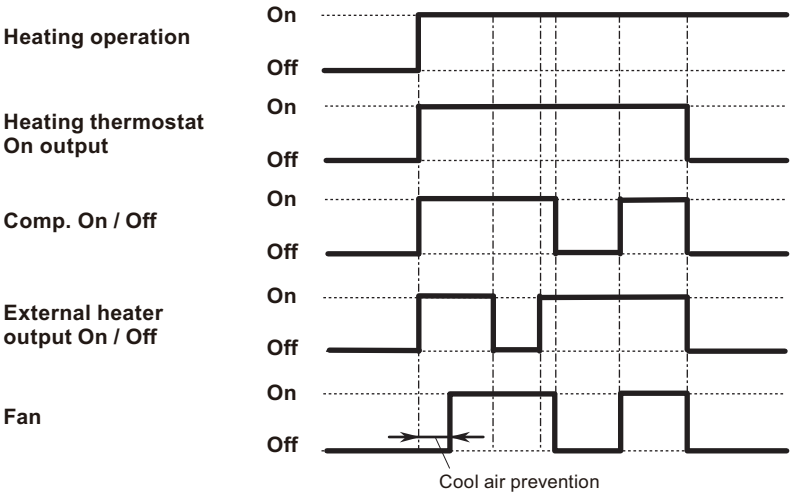
■ Heating thermostat on for humidifier

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	Output 3	
	7	60-07	9	Output 2	
	8	60-08	A	Output 1	

- **Example of individual connection**



- **Operation status**
  The heating thermostat output for CN47, Output 1, Output 2, or Output 3 will be on when comp on or external heater on.
  The heating thermostat output will be off when comp off and external heater off.



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9. Group connection

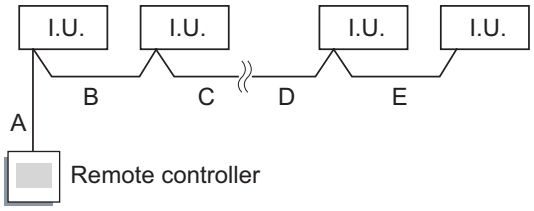
NOTE: Group control cannot be used together with WLAN Adapter.

Installation procedure for group control system:

A number of indoor units can be operated at the same time using a single remote controller.

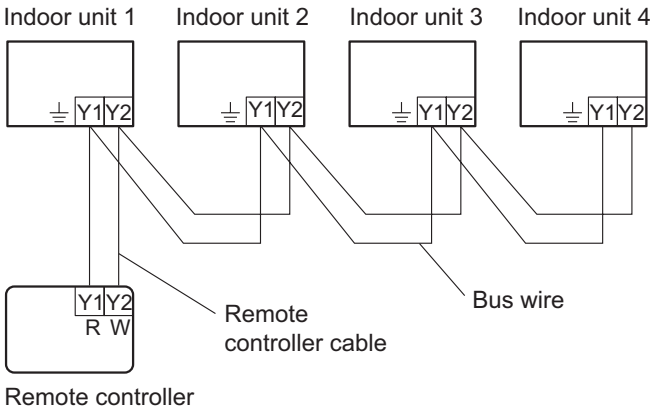
NOTE: When different type of indoor units (such as wall-mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.

1. Connect up to 16 indoor units in a system.



A, B, C, D, E: Remote controller cable	
Wiring length limitation	A + B + C + D + E ≤ 546.8 yd (500 m)

Example of wiring method



2. Automatic address setting
   After the remote controller connection in the system, the automatic address setting runs in the initial starting up. Do not change the remote controller address for the indoor unit.

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10. 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.

10-1. Function settings by using remote controller

Some function settings can be changed on the remote controller. After confirming the setting procedure and the content of each function setting, select appropriate functions for your installation environment.

■ Setting procedure by using remote controller

Remote controller is not attached for this product. For details of the installing remote controller, refer to following information.

- Overview information: Operating manual of the remote controller
- Setting procedure: Installation manual of the remote controller

■ 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
18)	71	Standby time for auxiliary equipment operation
19)	72	Heat pump backup setting
20)	73	Emergency heat for external output terminal
21)	75	External heater use in defrosting
22)	94	Fixed operation mode switching

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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	

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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)		

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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.

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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 (Remote controller enabled)	♦
	01	(Setting prohibited)	
	02	Forced stop mode	
	03	Operation/Stop mode 2 (Remote controller disabled)	

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.

NOTE: 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.

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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 "Details of control output function" on page 49.

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	
	05	Auxiliary heater control by outdoor temperature 3	
	06	Auxiliary heat pump control	
	07	Auxiliary heat pump control by outdoor temperature 1	
	08	Auxiliary heat pump control by outdoor temperature 2	
	09	Auxiliary heat pump control by outdoor temperature 3	

CASSETTE AUUH18-36LUAS

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 "Details of control output function" on page 49.

Function number	Setting value	Setting description				Factory setting
		Setting value of function 61:				
		00		01 to 09		
		Heater: On	Heater: Off	Heater: On	Heater: Off	
62	00	-5.4°F (-3°C)	-1.8°F (-1°C)	-0.9°F (-0.5°C)	-0.9°F (-0.5°C)	♦
	01	-3.6°F (-2°C)	-1.8°F (-1°C)	-1.8°F (-1°C)	-0.9°F (-0.5°C)	
	02	-3.6°F (-2°C)	-1.8°F (-1°C)	-3.6°F (-2°C)	-0.9°F (-0.5°C)	
	03	-5.4°F (-3°C)	-1.8°F (-1°C)	-5.4°F (-3°C)	-0.9°F (-0.5°C)	
	04	-7.2°F (-4°C)	-1.8°F (-1°C)	-7.2°F (-4°C)	-0.9°F (-0.5°C)	
	05	-9.0°F (-5°C)	-1.8°F (-1°C)	-9.0°F (-5°C)	-0.9°F (-0.5°C)	
	06	-5.4°F (-3°C)	-0.9°F (-0.5°C)	-0.9°F (-0.5°C)	0°F (0°C)	
	07	-3.6°F (-2°C)	-0.9°F (-0.5°C)	-1.8°F (-1°C)	0°F (0°C)	
	08	-3.6°F (-2°C)	-0.9°F (-0.5°C)	-3.6°F (-2°C)	0°F (0°C)	
	09	-5.4°F (-3°C)	-0.9°F (-0.5°C)	-5.4°F (-3°C)	0°F (0°C)	
	10	-7.2°F (-4°C)	-0.9°F (-0.5°C)	-7.2°F (-4°C)	0°F (0°C)	
	11	-9.0°F (-5°C)	-0.9°F (-0.5°C)	-9.0°F (-5°C)	0°F (0°C)	
	12	-5.4°F (-3°C)	0°F (0°C)	-0.9°F (-0.5°C)	-0.9°F (-0.5°C)	
	13	-3.6°F (-2°C)	0°F (0°C)	-1.8°F (-1°C)	-0.9°F (-0.5°C)	
	14	-3.6°F (-2°C)	0°F (0°C)	-3.6°F (-2°C)	-0.9°F (-0.5°C)	
	15	-5.4°F (-3°C)	0°F (0°C)	-5.4°F (-3°C)	-0.9°F (-0.5°C)	
	16	-7.2°F (-4°C)	0°F (0°C)	-7.2°F (-4°C)	-0.9°F (-0.5°C)	
	17	-9.0°F (-5°C)	0°F (0°C)	-9.0°F (-5°C)	-0.9°F (-0.5°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 "Details of control output function" on page 49.

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)	

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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 and 3 is performed on the indoor unit.

For details, refer to “External heater output” in "Details of control output function" on page 49.

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)	

18) Standby time for auxiliary equipment operation

Sets the standby time until the auxiliary equipment operation starts during primary equipment operation.

For details, refer to "Details of control output function" on page 49.

Function number	Setting value	Setting description	Factory setting
71	00	Disable	♦
	01	1 minute	
	02	2 minutes	
	•	•	
	•	•	
	•	•	
	98	98 minutes	
	99	99 minutes	

19) Heat pump backup setting

Enables or disables the heat pump backup instruction from the outdoor unit.

This function will be usable provided that the corresponding outdoor unit is connected.

Function number	Setting value	Setting description	Factory setting
72	00	Disable	♦
	01	Enable	

20) Emergency heat for external output terminal

Enables or disables emergency heat input.

Function number	Setting value	Setting description	Factory setting
73	00	Disable	♦
	01	Enable	

NOTE: When this function is used, IR Receiver Unit is necessary.

CASSETTE
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21) External heater use in defrosting

Enables or disables external heater use in defrosting.

NOTE: Inappropriate heater selection may cause cold air in defrosting.

Function number	Setting value	Setting description	Factory setting
75	00	Disable	♦
	01	Enable	

22) Fixed operation mode switching

Sets the operation mode to heat pump, heating only, or cooling only.

Function number	Setting value	Setting description	Factory setting
94	00	Heat pump	♦
	01	Heating only	
	02	Cooling only	

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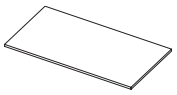
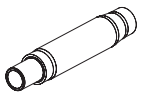
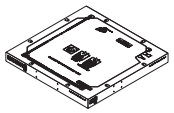
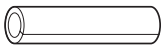
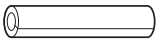
11. Accessories

11-1. Models: AUUH18LUAS, AUUH24LUAS, AUUH30LUAS, and AUUH36LUAS

Part name	Exterior	Qty	Part name	Exterior	Qty
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

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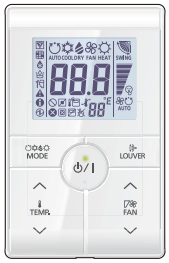
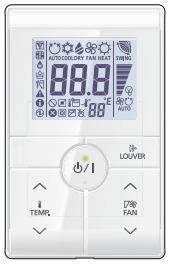
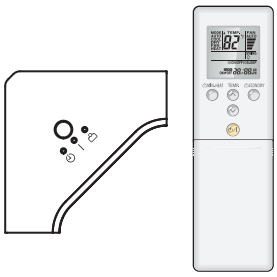
AUUH18-36LUAS

12. Optional parts

12-1. Controllers

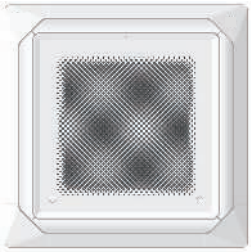
Exterior	Part name	Model name	Summary
	Wired Remote Controller	UTY-RNRUZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire
	Simple Remote Controller	UTY-RSRY	Compact remote controller concentrates on the basic functions such as 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.

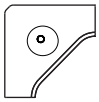
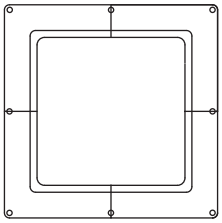
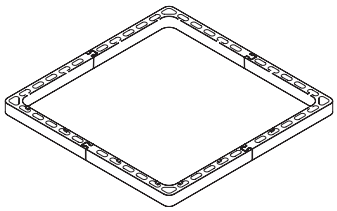
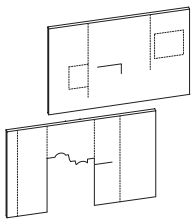
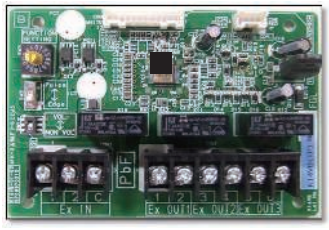
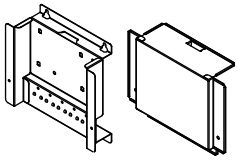
CASSETTE
AUUH18-36LUAS

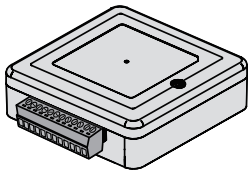
12-2. Cassette Grille

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

CASSETTE
AUUH18-36LUAS

12-3. 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. Connecting point: CN47 on Main PCB
	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.
	Insulation Kit 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. Connecting point: CN65 or CN75 on Main PCB
	External Input and Output PCB Box	UTZ-GXRA	For installing the External input and output PCB.

Exterior	Part name	Model name	Summary
	WLAN Adapter	UTY-TFSXJ4	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. Connecting point: CN75 on Main PCB
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network. Connecting point: CN65 or CN75 on Main PCB
	KNX Convertor	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network. Connecting point: CN65 or CN75 on Main PCB
	Thermostat Converter	UTY-TTRXZ*	This converter can control Fujitsu General products using a third-party thermostat controller. Connecting point: Terminal block (Y1, Y2) on Main PCB
	Network Converter	UTY-VTGX	This converter is required when connecting single split system to VRF network system. Connecting point: Terminal block (Y1, Y2) on Main PCB
	Network Converter (AC power supply)	UTY-VTGXV	This converter is required when connecting single split system to VRF network system. Connecting point: Terminal block (Y1, Y2) on Main PCB
	External Switch Controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches. Connecting point: Terminal block (Y1, Y2) on Main PCB

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOUH18LUAS1
AOUH24LUAS1
AOUH30LUAS1
AOUH36LUAS1

OUTDOOR UNIT
AOUH18-36LUAS1

1. Specifications

Type				Inverter, Heat pump	
Model name				**AOUH18LUAS1**	**AOUH24LUAS1**
Power supply				208/230 V~ 60 Hz	
Power supply intake				Outdoor unit	
Available voltage range				187—253 V	
Starting current			A	8.1	10.3
Fan	Airflow rate	Cooling	CFM (m^3/h)	1,395 (2,370)	2,187 (3,715)
		Heating		1,460 (2,480)	2,187 (3,715)
	Type × Qty			Propeller fan × 1	
	Motor output		W	49	100
Sound pressure level*		Cooling	dB (A)	52	
		Heating		55	54
Heat exchanger type		Dimensions (H × W × D)	in (mm)	Main 1: 23-1/8 × 34-11/16 × 11/16 (588 × 881 × 18.19) Main 2: 23-1/8 × 33-1/2 × 11/16 (588 × 851 × 18.19)	Main 1: 29-3/4 × 35-5/8 × 11/16 (756 × 905 × 18.19) Main 2: 29-3/4 × 35-5/8 × 11/16 (756 × 905 × 18.19)
		Fin pitch	FPI	Main 1: 20 Main 2: 20	Main 1: 18 Main 2: 18
		Rows × Stages		Main 1: 1 × 28 Main 2: 1 × 28	Main 1: 1 × 36 Main 2: 1 × 36
		Pipe type		Copper tube	
		Fin type	Type (Material)	Aluminum	
			Surface treatment	PC fin	Blue fin
Compressor		Type		DC rotary	DC twin rotary
		Motor output	W	1,030	1,360
Refrigerant		Type		R410A	
		Charge	lb oz	2 lb 12 oz	4 lb 10 oz
			g	1,250	2,100
Refrigerant oil		Type		POE (RB68)	
		Amount	in^3 (cm^3)	24.4 (400)	48.8 (800)
Enclosure		Material		Steel sheet	
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0	
Dimensions (H × W × D)		Net	in (mm)	24-7/8 × 31-7/16 × 11-7/16 (632 × 799 × 290)	31 × 37 × 12-5/8 (788 × 940 × 320)
		Gross		27-1/4 × 37 × 14-3/4 (692 × 940 × 375)	38-1/16 × 40-7/16 × 17-1/2 (966 × 1,027 × 445)
Weight		Net	lb (kg)	86 (39)	117 (53)
		Gross		95 (43)	134 (61)
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)	Ø3/8 (Ø9.52)
		Gas		Ø1/2 (Ø12.70)	Ø5/8 (Ø15.88)
	Method			Flare	
	Pre-charge length		ft (m)	66 (20)	
	Max. length			98 (30)	164 (50)
	Max. height difference			49 (15)	98 (30)
Operation range		Cooling	°F (°C)	14 to 115 (-10 to 46)	-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:

- 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)/60°FWB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).
  - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *: Sound pressure level
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

OUTDOOR UNIT
AOUH18-36LUAS1

Type				Inverter, Heat pump	
Model name				**AOUH30LUAS1**	**AOUH36LUAS1**
Power supply				208/230 V~ 60 Hz	
Power supply intake				Outdoor unit	
Available voltage range				187—253 V	
Starting current			A	13.4	16.5
Fan	Airflow rate	Cooling	CFM (m^3/h)	2,301 (3,910)	2,502 (4,250)
		Heating		2,219 (3,770)	2,431 (4,130)
	Type × Qty			Propeller fan × 1	
	Motor output		W	120	
Sound pressure level*		Cooling	dB (A)	53	54
		Heating		55	56
Heat exchanger type		Dimensions (H × W × D)	in (mm)	Main 1: 38-1/16 × 35-5/8 × 11/16 (966 × 905 × 18.19) Main 2: 38-1/16 × 35-5/8 × 11/16 (966 × 905 × 18.19)	
		Fin pitch	FPI	Main 1: 18 Main 2: 18	
		Rows × Stages		Main 1: 1 × 46 Main 2: 1 × 46	
		Pipe type		Copper tube	
		Fin type	Type (Material)	Aluminum	
			Surface treatment	Blue fin	
Compressor		Type		DC twin rotary	
		Motor output	W	1,830	
Refrigerant		Type		R410A	
		Charge	lb oz	5 lb 8 oz	
			g	2,500	
Refrigerant oil		Type		POE (RB68)	
		Amount	in^3 (cm^3)	48.8 (800)	
Enclosure		Material		Steel sheet	
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0	
Dimensions (H × W × D)		Net	in (mm)	39-5/16 × 37 × 12-5/8 (998 × 940 × 320)	
		Gross		46-5/16 × 40-7/16 × 17-1/2 (1,176 × 1,027 × 445)	
Weight		Net	lb (kg)	139 (63)	
		Gross		159 (72)	
Connection pipe	Size	Liquid	in (mm)	Ø3/8 (Ø9.52)	
		Gas		Ø5/8 (Ø15.88)	
	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.)	

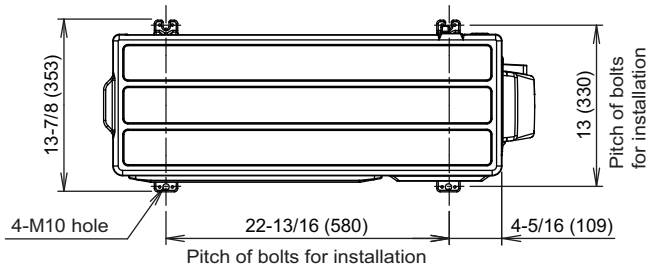
NOTES:

- 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)/60°FWB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).
  - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *: Sound pressure level
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

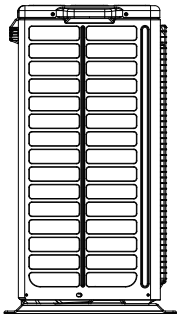
2. Dimensions

2-1. Model: AOUH18LUAS1

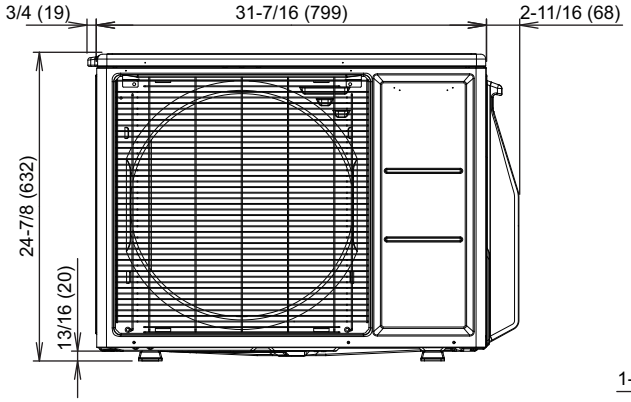
Unit: in (mm)



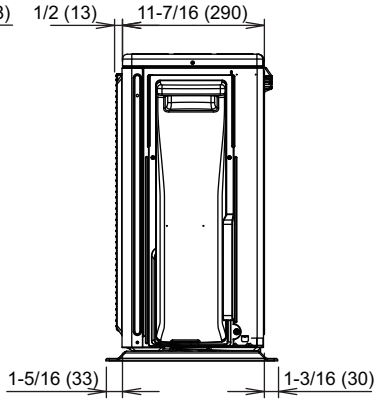
Top view



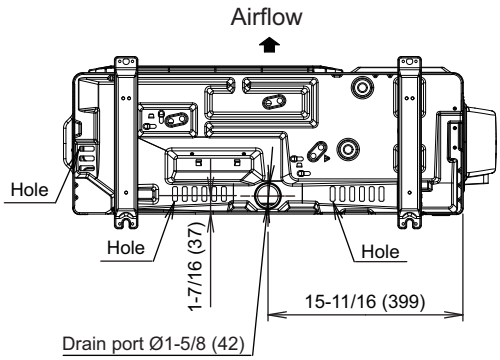
Side view



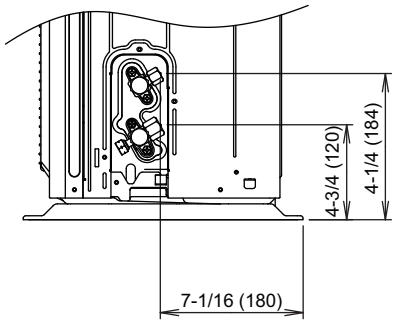
Front view



Side view



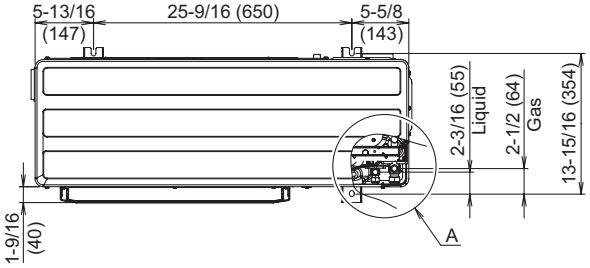
Bottom view



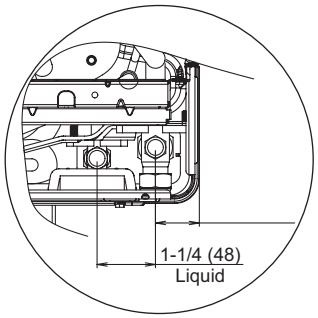
Side view (Valve part)

2-2. Model: AOUH24LUAS1

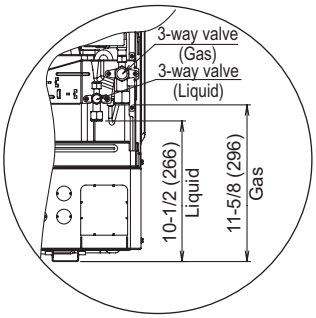
Unit: in (mm)



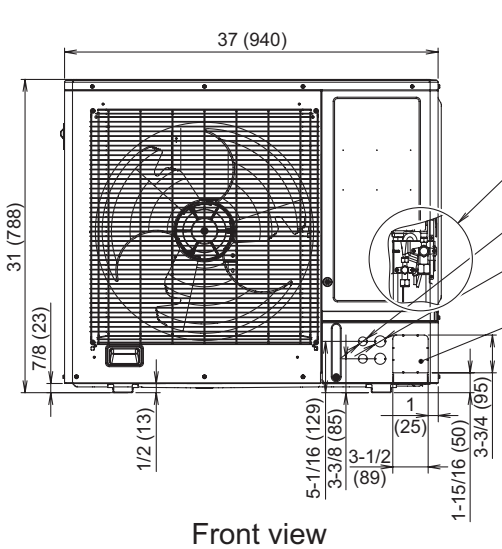
Top view



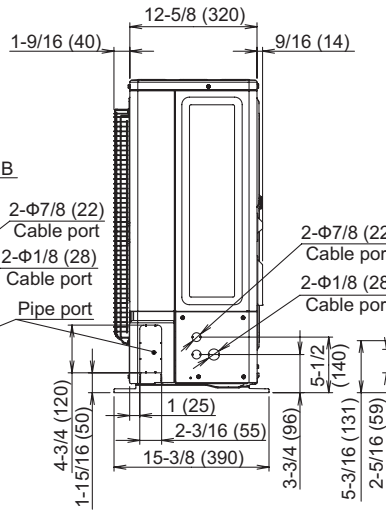
Detail A



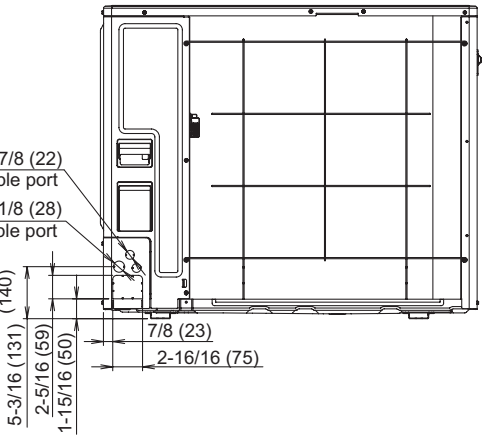
Detail B



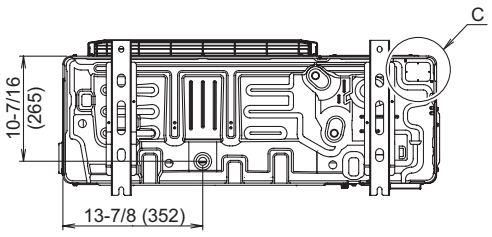
Front view



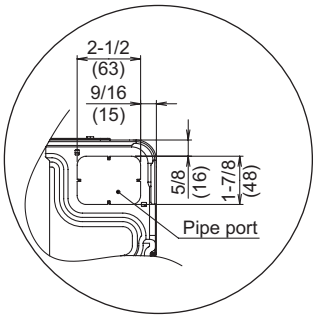
Side view



Rear view



Bottom view

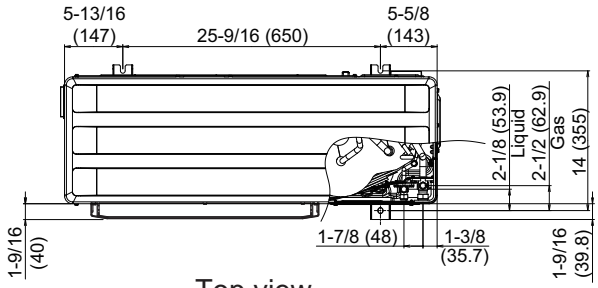


Detail C

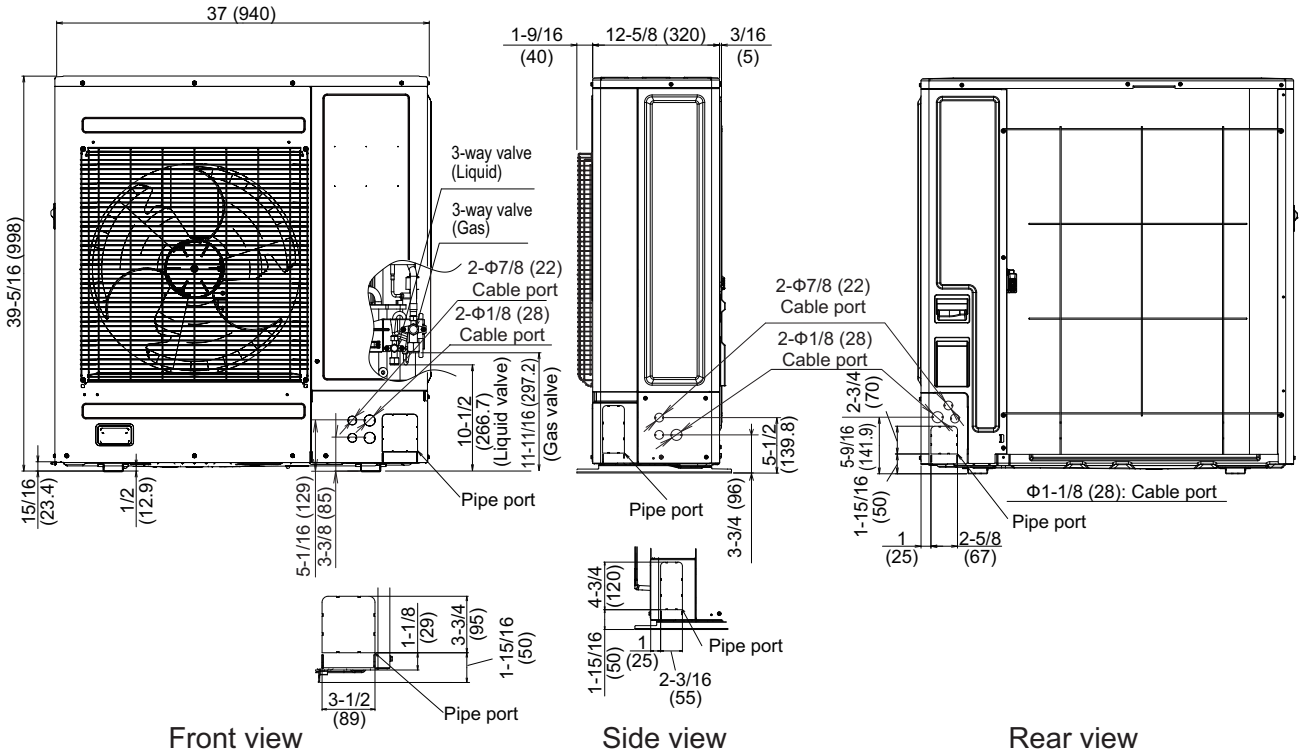
OUTDOOR UNIT
AOUH18-36LUAS1

2-3. Models: AOUH30LUAS1 and AOUH36LUAS1

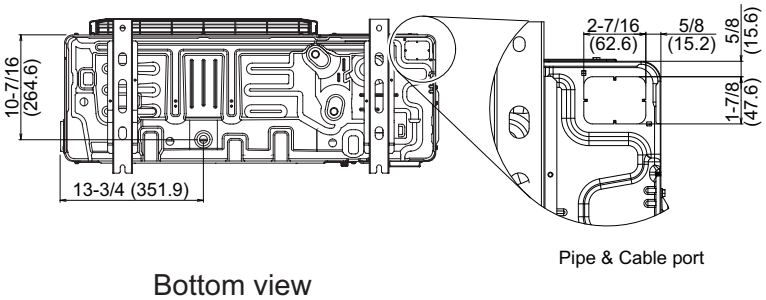
Unit: in (mm)



Top view



Front view Side view Rear view



Bottom view

3. Installation space

3-1. Model: AOUH18LUAS1

OUTDOOR UNIT
AOUH18-36LUAS1

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

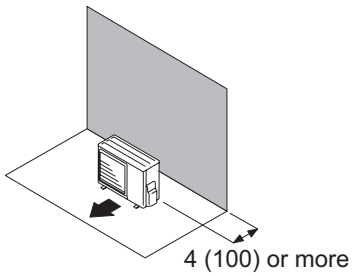
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

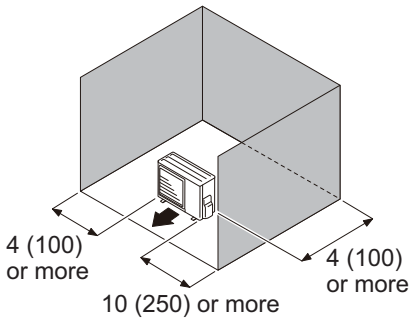
- **When the upper space is open:**

Unit: in (mm)

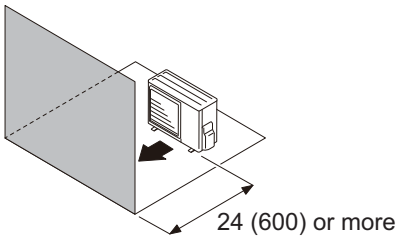
Obstacles at rear only



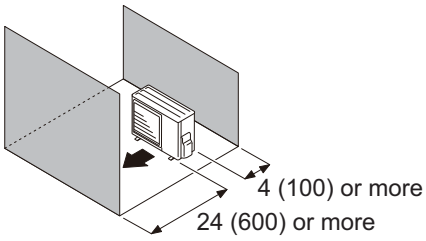
Obstacles at rear and sides



Obstacles at front



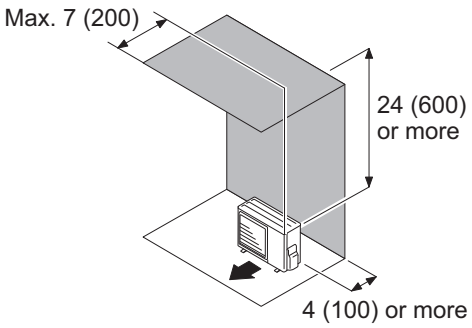
Obstacles at front and rear



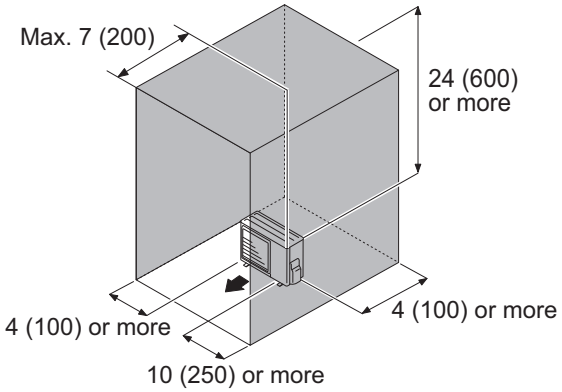
- **When an obstruction in the upper space:**

Unit: in (mm)

Obstacles at rear and above



Obstacles at rear, sides, and above



OUTDOOR UNIT
AOUH18-36LUAS1

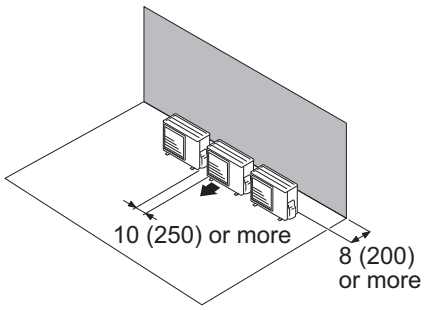
● Multiple outdoor unit installation

- Provide at least 10 in (250 mm) of space between the outdoor units if multiple units are installed.
- When routing the piping from the side of an outdoor unit, provide space for piping.
- No more than 3 units must be installed side by side.
  When 4 units or more are arranged in a line, provide the space as shown in the following example "**When an obstruction in the upper space:**".

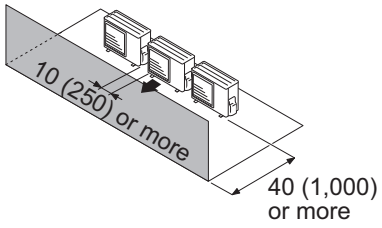
- **When the upper space is open:**

Unit: in (mm)

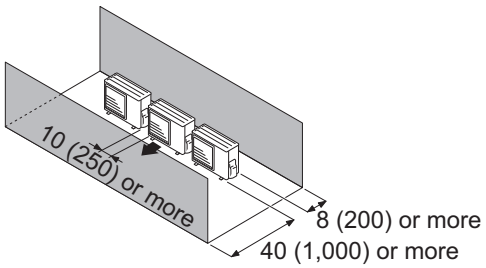
Obstacles at rear only



Obstacles at front only



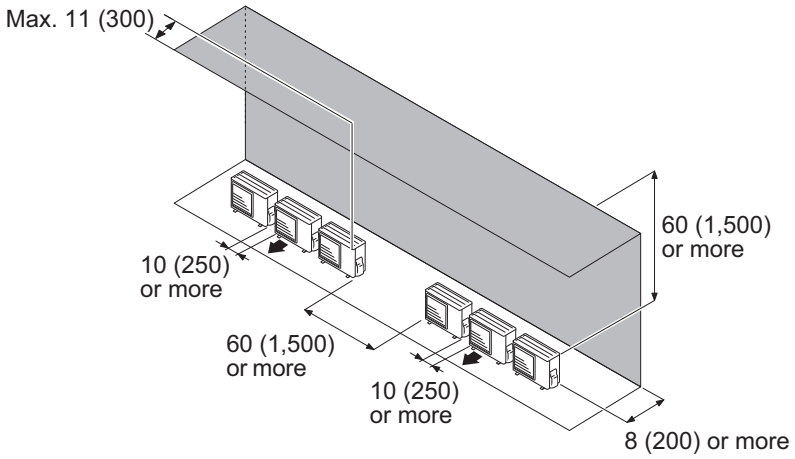
Obstacles at front and rear



- **When an obstruction in the upper space:**

Unit: in (mm)

Obstacles at rear and above.

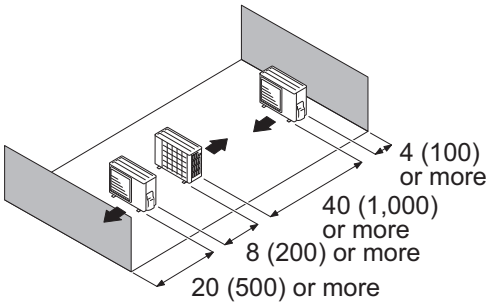


OUTDOOR UNIT
AOUH18-36LUAS1

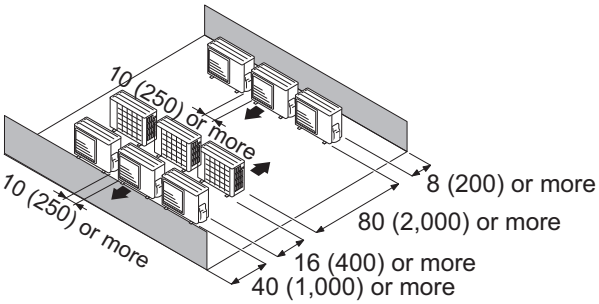
● Outdoor units installation in multi-row

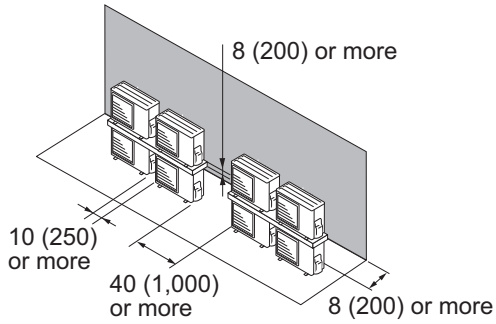
Unit: in (mm)

Single parallel unit arrangement



Multiple parallel unit arrangement



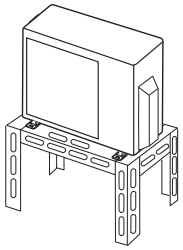


NOTES:

- If the space is larger than stated above, the condition will be the same as when there is no obstacle.
- 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.



3-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

OUTDOOR UNIT
AOUH18-36LUAS1

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

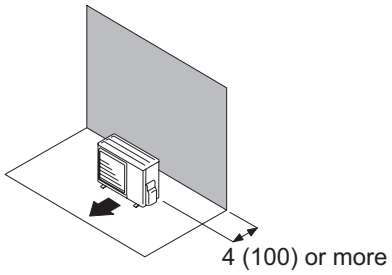
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

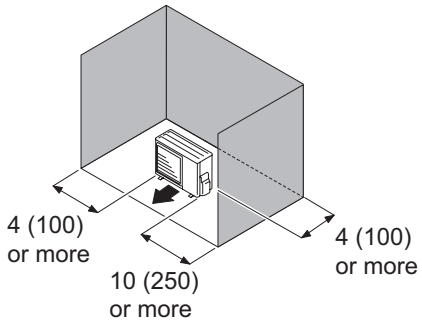
- **When the upper space is open:**

Unit: in (mm)

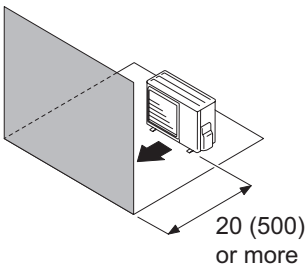
When there are obstacles at the rear only.



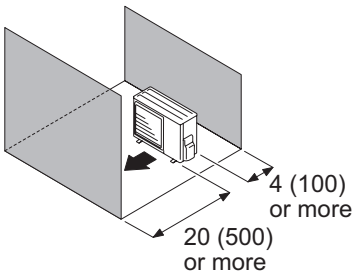
When there are obstacles at the rear and sides.



When there are obstacles at the front only.



When there are obstacles at the front and rear.

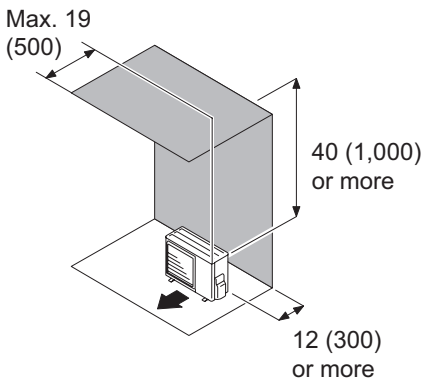


OUTDOOR UNIT
AOUH18-36LUAS1

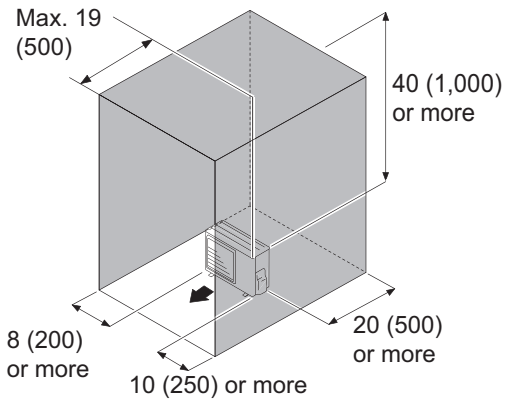
- **When an obstruction in the upper space:**

Unit: in (mm)

When there are obstacles at the rear and above.



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



OUTDOOR UNIT
AOUH18-36LUAS1

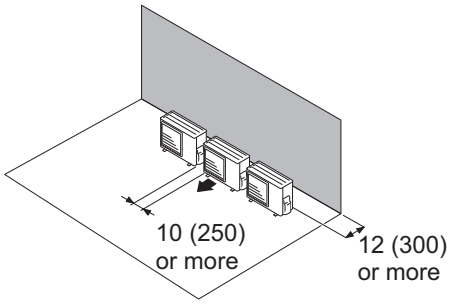
● Multiple outdoor unit installation

- Provide at least 250 mm of space between the outdoor units if multiple units are installed.
- When routing the piping from the side of an outdoor unit, provide space for piping.
- No more than 3 units must be installed side by side.
  When 4 units or more are arranged in a line, provide the space as shown in the following example "**When an obstruction in the upper space:**".

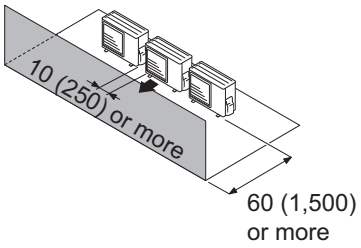
- **When the upper space is open:**

Unit: in (mm)

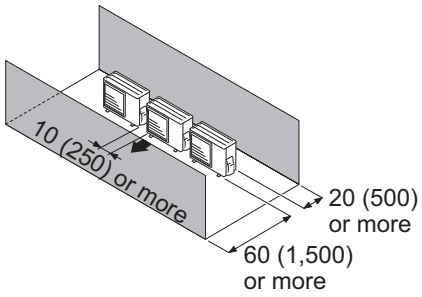
When there are obstacles at the rear only.



When there are obstacles at the front only.



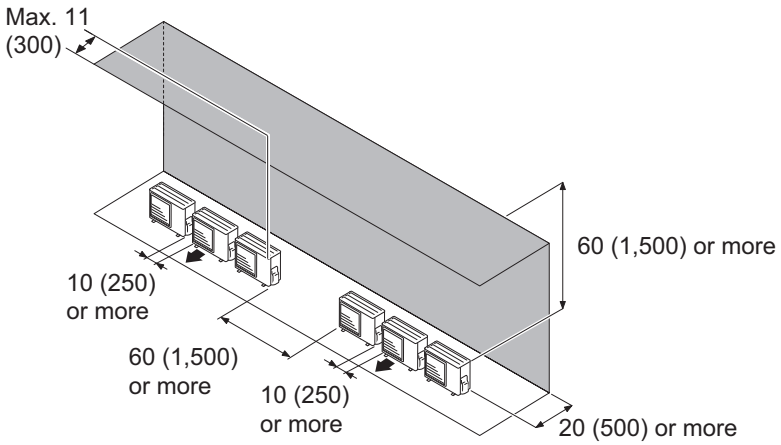
When there are obstacles at the front and rear.



- **When an obstruction in the upper space:**

Unit: in (mm)

When there are obstacles at the rear and above.

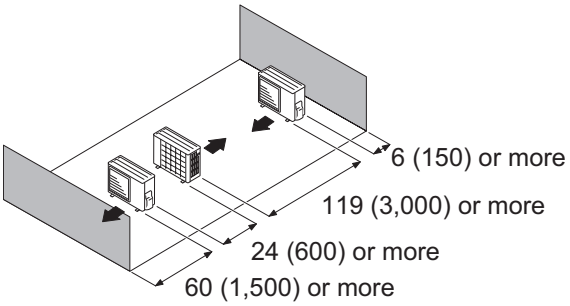


OUTDOOR UNIT
AOUH18-36LUAS1

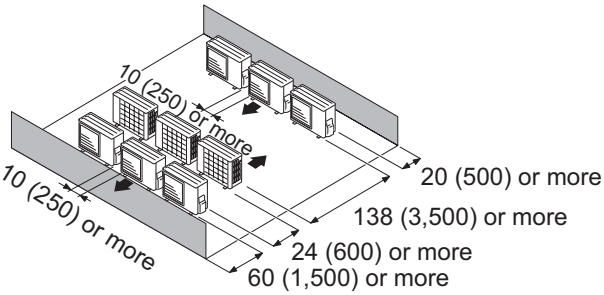
● Outdoor unit installation in multi-row

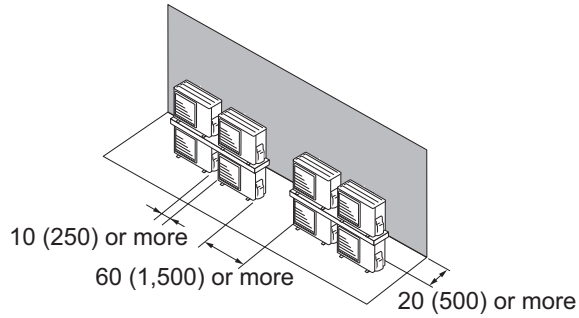
Unit: in (mm)

Single parallel unit arrangement



Multiple parallel unit arrangement



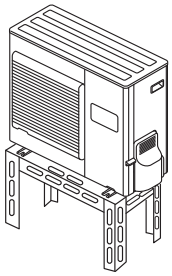


NOTES:

- 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.

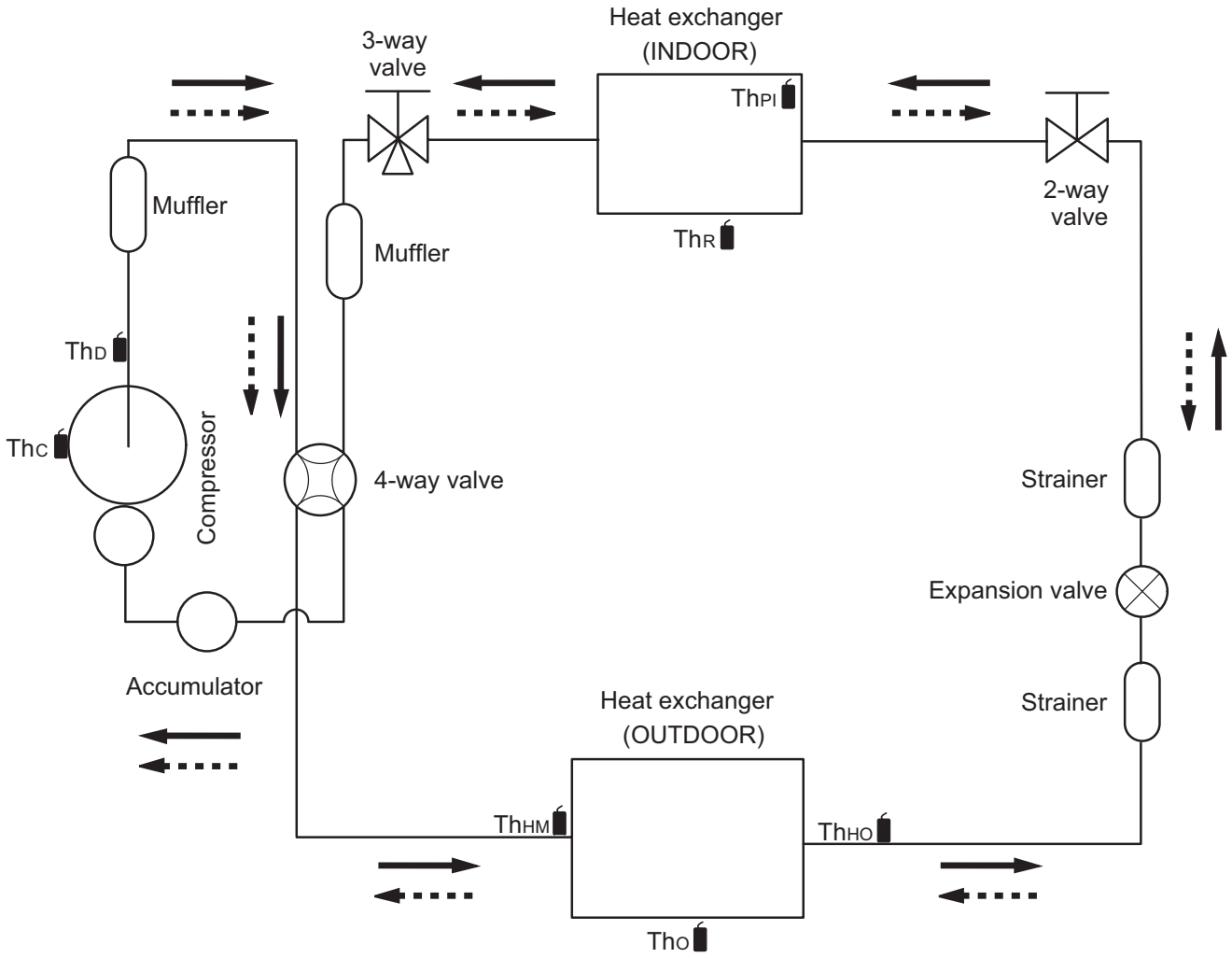
⚠ CAUTION

- 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.



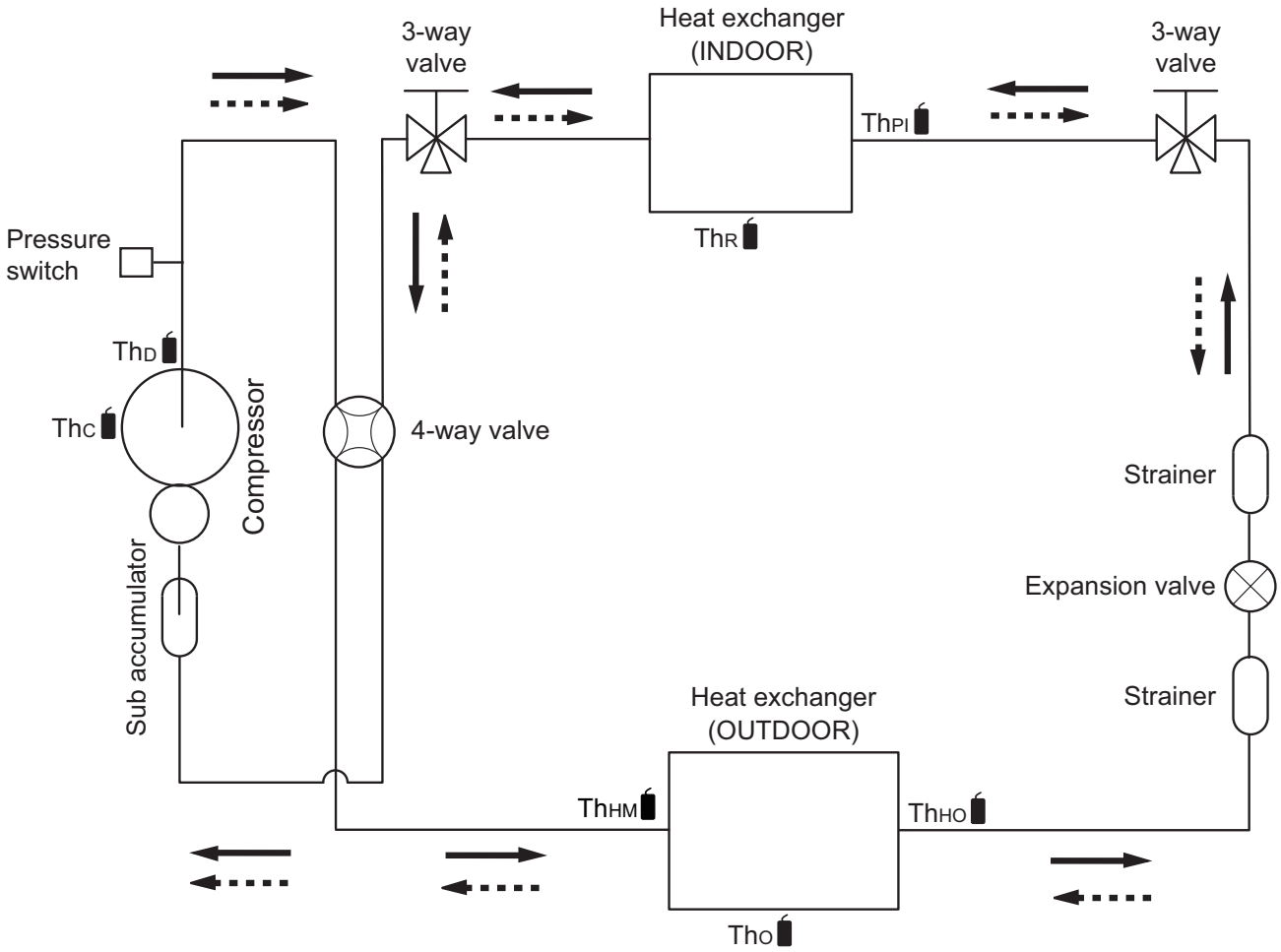
4. Refrigerant circuit

4-1. Model: AOUH18LUAS1



ThC : Thermistor (Compressor temperature)
ThD : Thermistor (Discharge temperature)
ThHM : Thermistor (Heat exchanger middle temperature)
ThO : Thermistor (Outdoor temperature)
ThHO : Thermistor (Heat exchanger out temperature)
ThPI : Thermistor (Pipe temperature)
ThR : Thermistor (Room temperature)

4-2. Model: AOUH24LUAS1

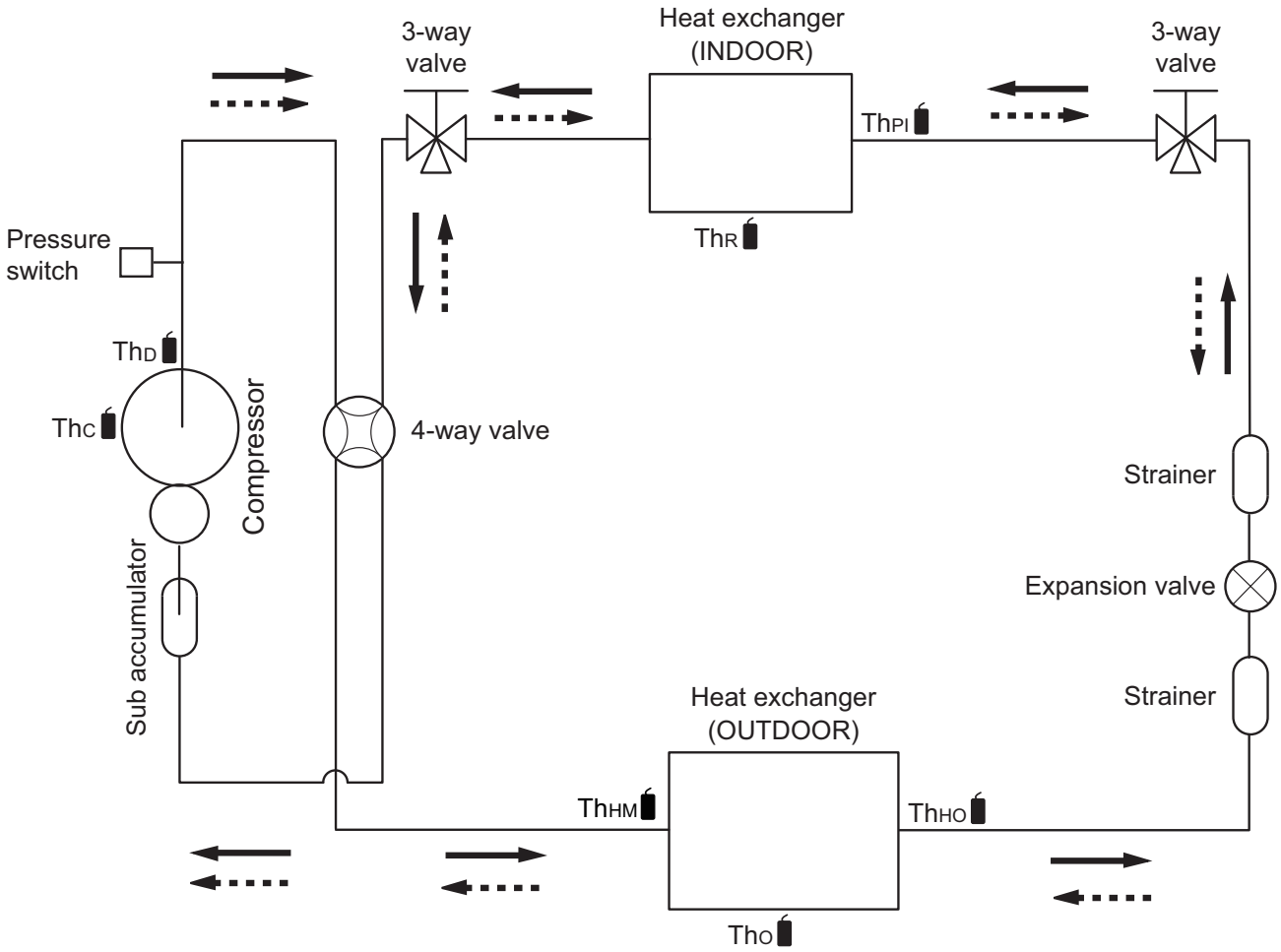


: Cooling
: Heating

ThC : Thermistor (Compressor temperature)
ThD : Thermistor (Discharge temperature)
ThHM : Thermistor (Heat exchanger middle temperature)
ThO : Thermistor (Outdoor temperature)
ThHO : Thermistor (Heat exchanger out temperature)
ThPI : Thermistor (Pipe temperature)
ThR : Thermistor (Room temperature)

OUTDOOR UNIT
AOUH18-36LUAS1

4-3. Models: AOUH30LUAS1 and AOUH36LUAS1



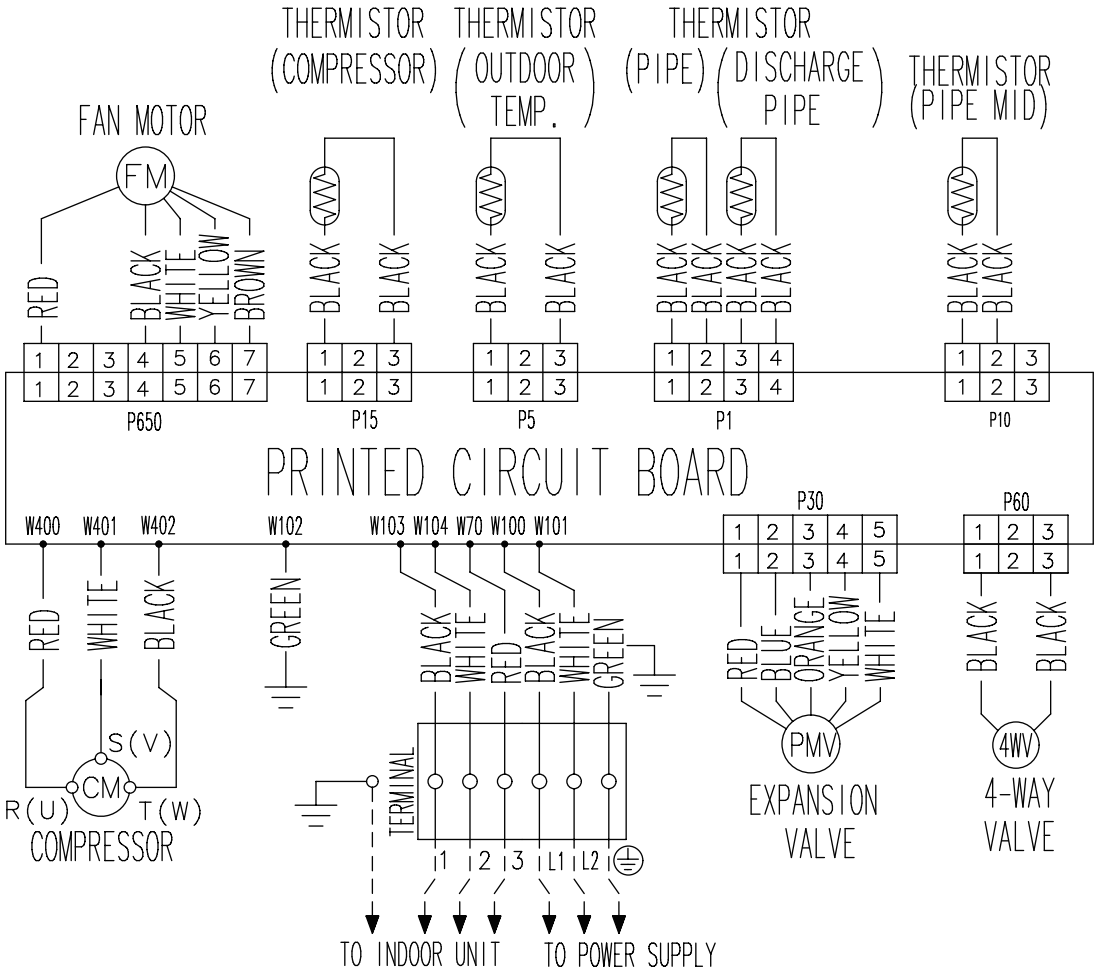
: Cooling
: Heating

ThC : Thermistor (Compressor temperature)
ThD : Thermistor (Discharge temperature)
ThHM : Thermistor (Heat exchanger middle temperature)
ThO : Thermistor (Outdoor temperature)
ThHO : Thermistor (Heat exchanger out temperature)
ThPI : Thermistor (Pipe temperature)
ThR : Thermistor (Room temperature)

OUTDOOR UNIT
AOUH18-36LUAS1

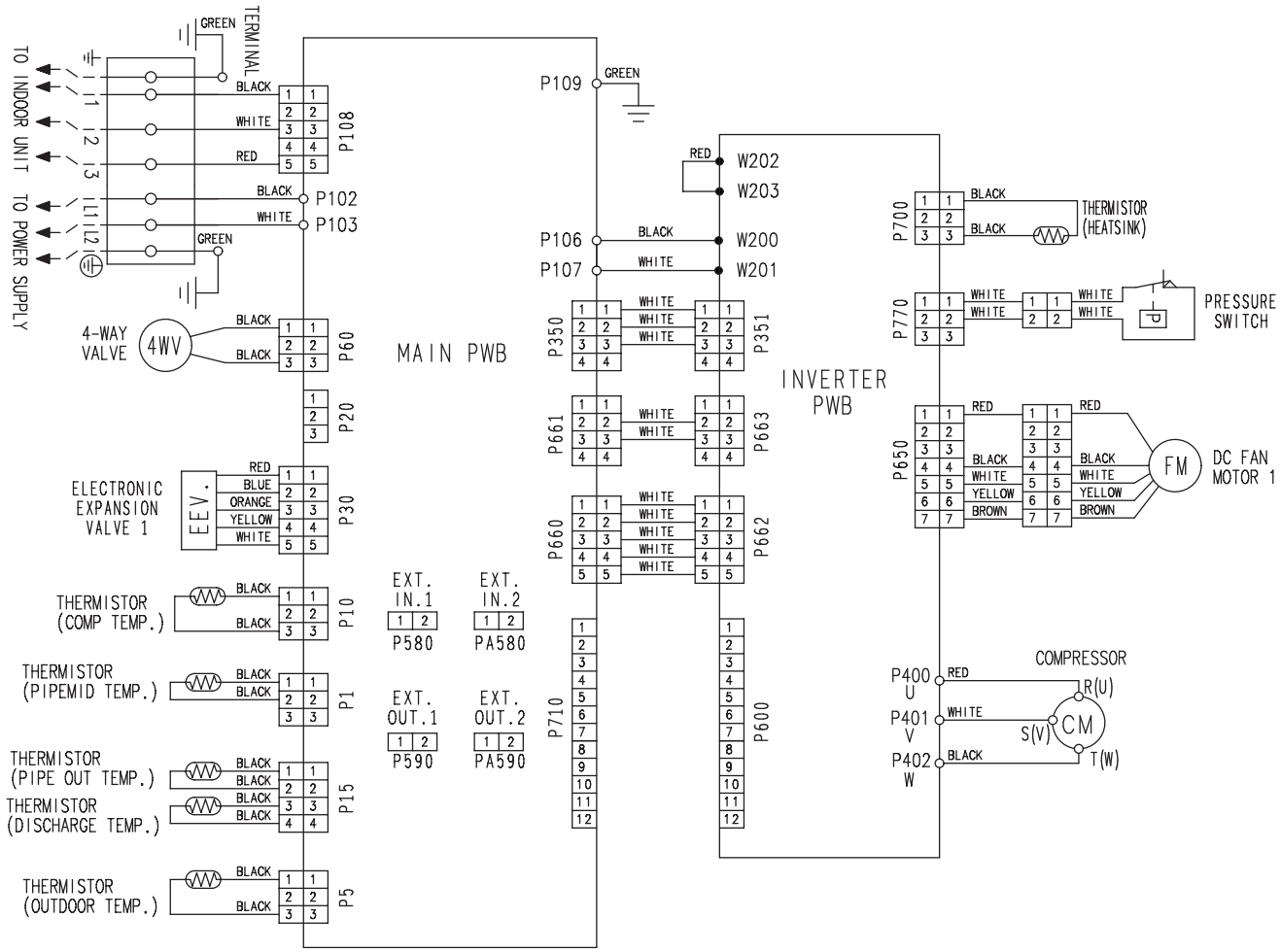
5. Wiring diagrams

5-1. Model: AOUH18LUAS1



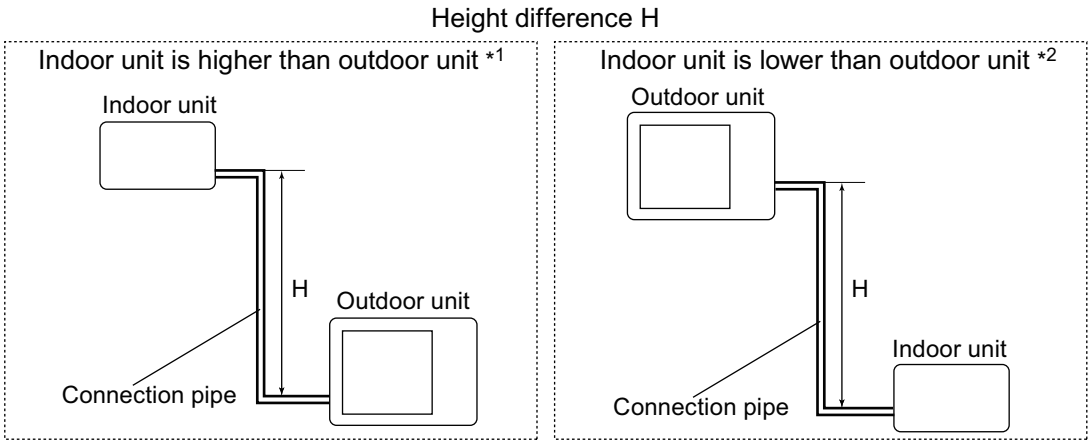
5-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

OUTDOOR UNIT
AOUH18-36LUAS1



OUTDOOR UNIT
AOUH18-36LUAS1

6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOUH18LUAS1

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

COOLING		Pipe length								
		m		5	7.5	10	15	20	25	30
			ft	16	25	33	49	66	82	98
Height difference H	Indoor unit is higher than outdoor unit *1	15	49	—	—	—	0.951	0.950	0.947	0.941
		10	33	—	—	0.979	0.967	0.966	0.962	0.956
		7.5	25	—	0.988	0.983	0.971	0.970	0.966	0.960
		5	16	0.994	0.992	0.987	0.975	0.974	0.970	0.964
		0	0	1.002	1.000	0.995	0.983	0.982	0.978	0.972
	Indoor unit is lower than outdoor unit *2	-5	-16	1.002	1.000	0.995	0.983	0.982	0.978	0.972
		-7.5	-25	—	1.000	0.995	0.983	0.982	0.978	0.972
		-10	-33	—	—	0.995	0.983	0.982	0.978	0.972
		-15	-49	—	—	—	0.983	0.982	0.978	0.972

HEATING		Pipe length								
		m		5	7.5	10	15	20	25	30
			ft	16	25	33	49	66	82	98
Height difference H	Indoor unit is higher than outdoor unit *1	15	49	—	—	—	0.994	0.979	0.949	0.919
		10	33	—	—	1.012	0.994	0.979	0.949	0.919
		7.5	25	—	1.000	1.012	0.994	0.979	0.949	0.919
		5	16	0.969	1.000	1.012	0.994	0.979	0.949	0.919
		0	0	0.969	1.000	1.012	0.994	0.979	0.949	0.919
	Indoor unit is lower than outdoor unit *2	-5	-16	0.964	0.995	1.007	0.989	0.974	0.944	0.915
		-7.5	-25	—	0.993	1.004	0.986	0.972	0.942	0.911
		-10	-33	—	—	1.002	0.984	0.969	0.940	0.909
		-15	-49	—	—	—	0.974	0.959	0.930	0.899

6-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

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

OUTDOOR UNIT
AOUH18-36LUAS1

7. Additional charge calculation

7-1. Model: AOUH18LUAS1

Refrigerant type		R410A
Refrigerant amount	lb oz	2 lb 12 oz
	g	1,250

■ Refrigerant charge

Total pipe length	ft	66 or less	82	98 (Max.)	0.22 oz/ft (20 g/m)
	m	20 or less	25	30 (Max.)	
Additional charge	oz	0	1.0	2.0	
	g	0	100	200	

7-2. Model: AOUH24LUAS1

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

■ Refrigerant charge

Total pipe length	ft	66 or less	82	98	114	131	147	164 (Max.)	0.43 oz/ft (40 g/m)
	m	20 or less	25	30	35	40	45	50 (Max.)	
Additional charge amount	oz	0	7	14	21	28	35	42	
	g	0	200	400	600	800	1,000	1,200	

7-3. Models: AOUH30LUAS1 and AOUH36LUAS1

Refrigerant type		R410A
Factory charge amount	lb oz	5 lb 8 oz
	g	2,500

■ Refrigerant charge

Total pipe length	ft	66 or less	82	98	114	131	147	164 (Max.)	0.43 oz/ft (40 g/m)
	m	20 or less	25	30	35	40	45	50 (Max.)	
Additional charge amount	oz	0	7	14	21	28	35	42	
	g	0	200	400	600	800	1,000	1,200	

OUTDOOR UNIT
AOUH18-36LUAS1

8. Airflow

8-1. Model: AOUH18LUAS1

● Cooling

m^3/h	2,370
l/s	658
CFM	1,395

● Heating

m^3/h	2,480
l/s	689
CFM	1,460

8-2. Model: AOUH24LUAS1

● Cooling

m^3/h	3,715
l/s	1,032
CFM	2,187

● Heating

m^3/h	3,715
l/s	1,032
CFM	2,187

8-3. Model: AOUH30LUAS1

● Cooling

m^3/h	3,910
l/s	1,086
CFM	2,301

● Heating

m^3/h	3,770
l/s	1,047
CFM	2,219

8-4. Model: AOUH36LUAS1

OUTDOOR UNIT
AOUH18-36LUAS1

● Cooling

m^3/h	4,250
l/s	1,181
CFM	2,502

● Heating

m^3/h	4,130
l/s	1,147
CFM	2,431

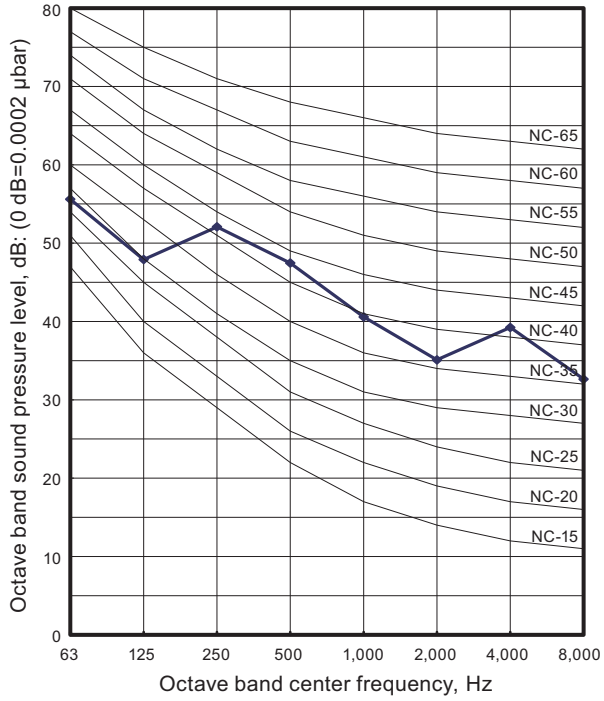
OUTDOOR UNIT
AOUH18-36LUAS1

9. Operation noise (sound pressure)

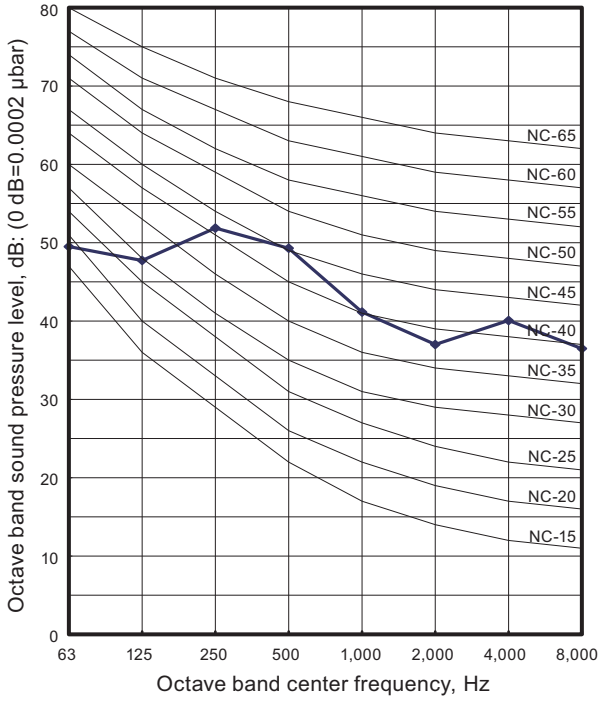
9-1. Noise level curve

■ AOUH18LUAS1

● Cooling

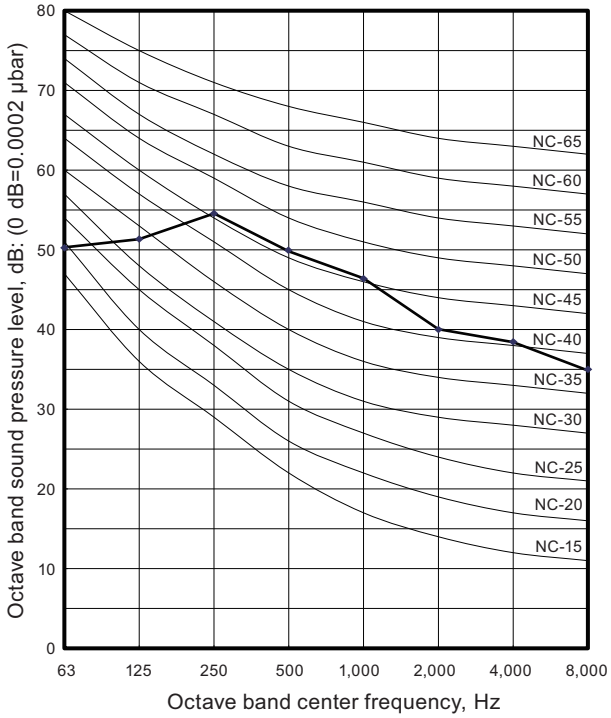


● Heating

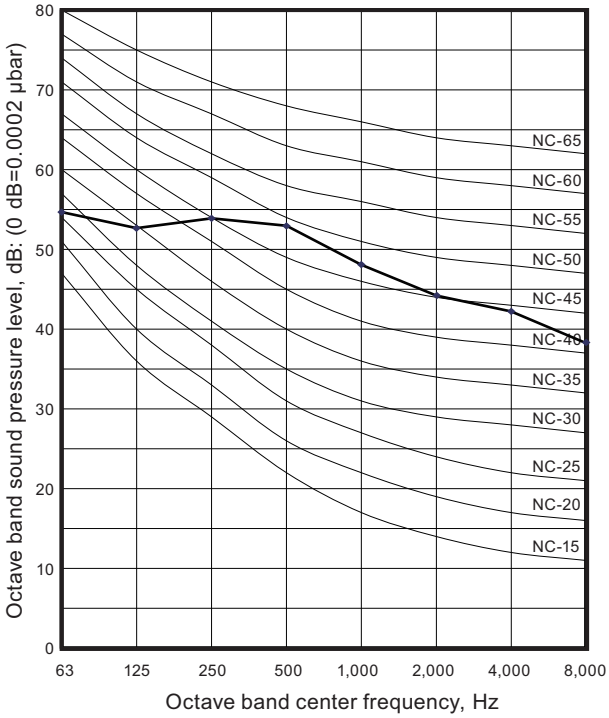


■ AOUH24LUAS1

● Cooling



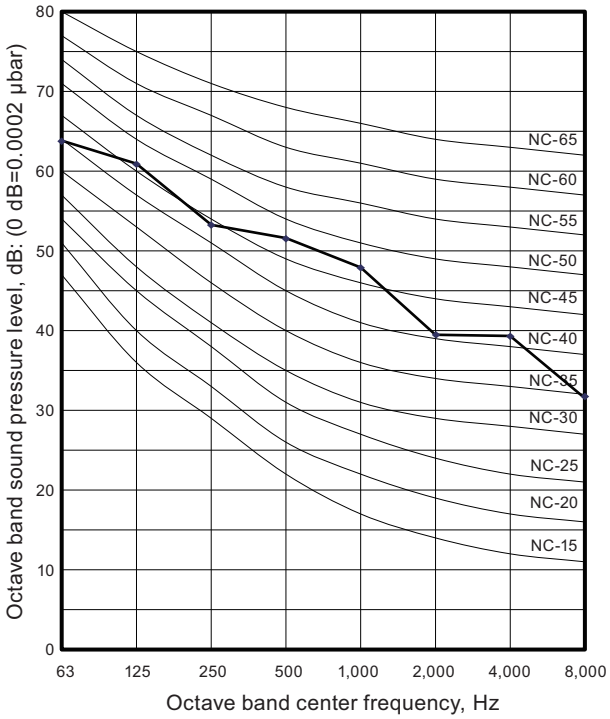
● Heating



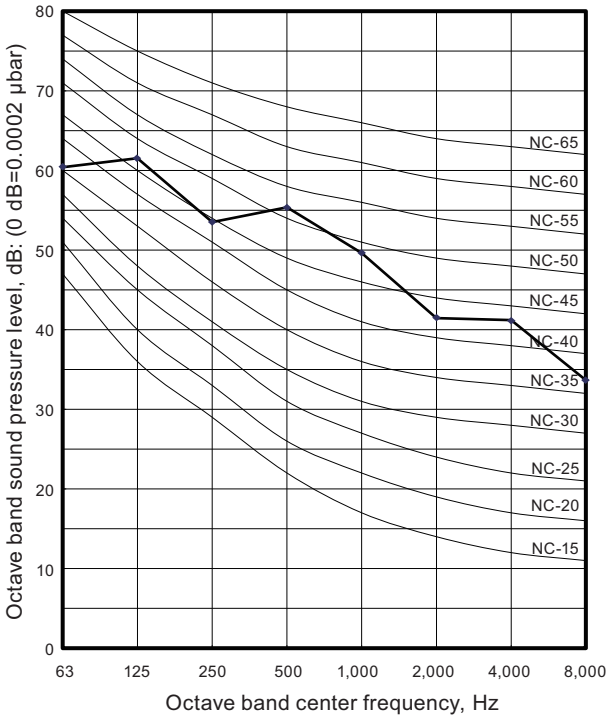
OUTDOOR UNIT
AOUH18-36LUAS1

■ AOUH30LUAS1

● Cooling

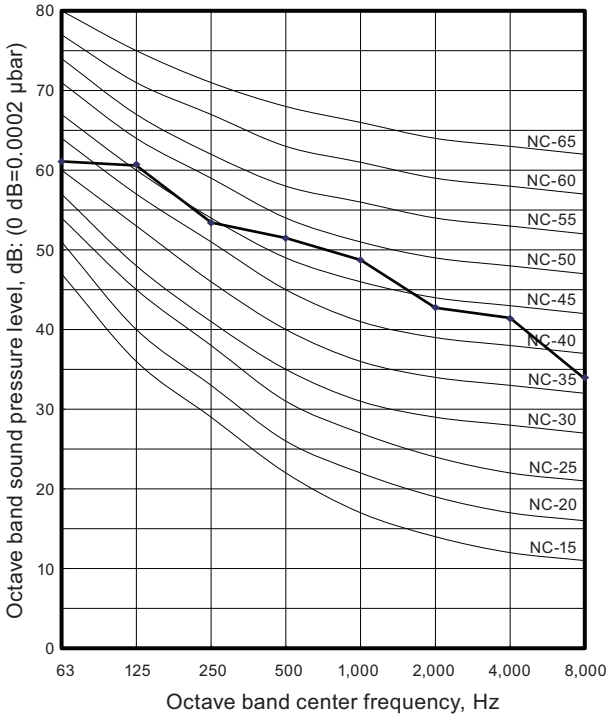


● Heating

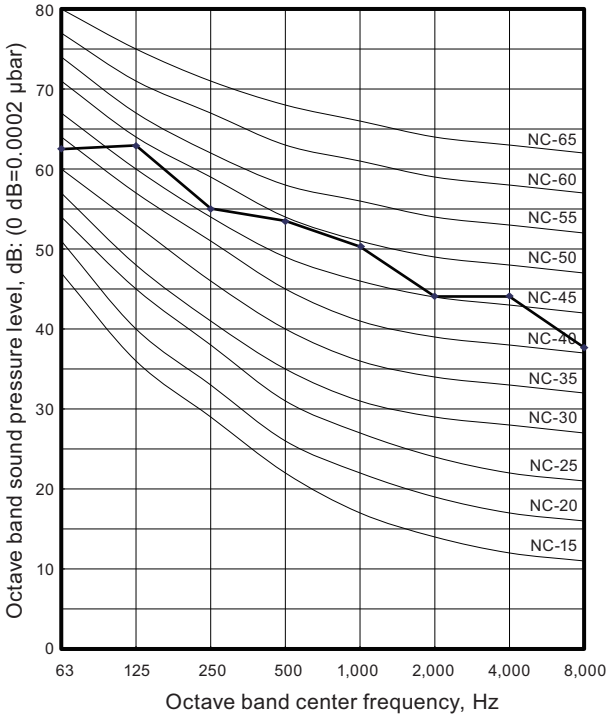


■ AOUH36LUAS1

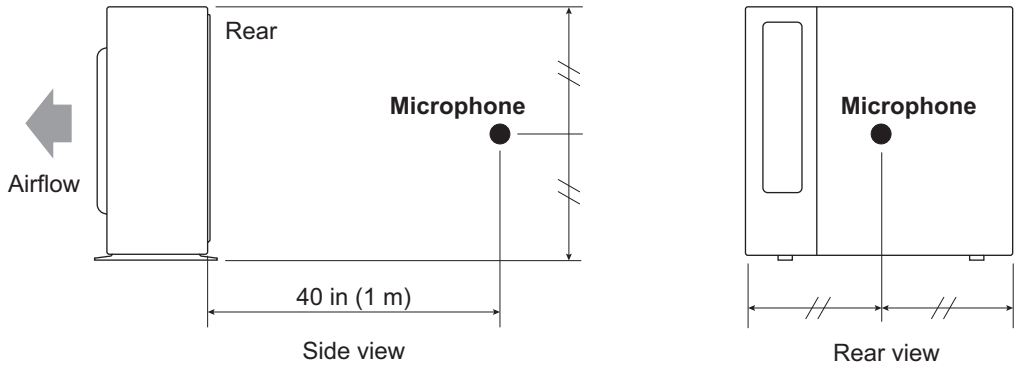
● Cooling



● 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

Model name				AOUH18LUAS1	AOUH24LUAS1
Power supply	Voltage		V	208/230	
	Frequency		Hz	60	
MCA *1			A	18.1	19.2
Starting current			A	8.1	10.3
Wiring spec.*2	MAX. CKT. BKR*3		A	20	
	Power cable		AWG	14	12
	Connection cable*4	Cross-sectional area	AWG	14	
		Limited wiring length	ft (m)	102 (31)	167 (51)

Model name				AOUH30LUAS1	AOUH36LUAS1
Power supply	Voltage		V	208/230	
	Frequency		Hz	60	
MCA*1			A	22.2	24.1
Starting current			A	13.4	16.5
Wiring spec.*2	MAX. CKT. BKR*3		A	25	
	Power cable		AWG	12	
	Connection cable*4	Cross-sectional area	AWG	14	
		Limited wiring length	ft (m)	167 (51)	

NOTES:

- *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.

OUTDOOR UNIT
AOUH18-36LUAS1

11. Safety devices

Type of protection	Protection form		Model	
			AOUH18LUAS1	AOUH24LUAS1
Circuit protection	Current fuse (PCB*)		250 V, 20 A	
			250 V, 5 A	250 V, 3.15 A
			250 V, 3.15 A	250 V, 10 A × 2
Fan motor protection	Thermal protection program	Activate	257 ±18°F (125 ±10°C) Fan motor stop	251.6 ±16.2°F (122 ±9°C) Fan motor stop
		Reset	248 ±18°F (120 ±10°C) Fan motor restart	$240.8\ ^{+18.0}_{-16.2}$°F $(116\ ^{+10}_{-9}$°C) Fan motor restart
Compressor protection	Thermal protection program (Compressor temp.)	Activate	226°F (108°C) Compressor stop	
		Reset	After 3 minutes, and 176°F (80°C) or less Compressor restart	
	Thermal protection program (Discharge temp.)	Activate	230°F (110°C) Compressor stop	
		Reset	After 7 minutes Compressor restart	
	Thermal protection program (Outdoor temp.) (Only in COOL and DRY mode)	Activate	5°F (-15°C) Compressor stop	-13°F (-25°C) Compressor stop
		Reset	14°F (-10°C) Compressor restart	-4°F (-20°C) Compressor restart

Type of protection	Protection form		Model	
			AOUH30LUAS1	AOUH36LUAS1
Circuit protection	Current fuse (PCB*)		250 V, 25 A or 30 A	
			250 V, 3.15 A	
			250 V, 10 A × 2	
Fan motor protection	Thermal protection program	Activate	302 ±27°F (150 ±15°C) Fan motor stop	
		Reset	248 ±27°F (120 ±15°C) Fan motor restart	
Compressor protection	Thermal protection program (Compressor temp.)	Activate	226°F (108°C) Compressor stop	
		Reset	After 3 minutes, and 176 °F (80°C) or less Compressor restart	
	Thermal protection program (Discharge temp.)	Activate	230°F (110°C) Compressor stop	
		Reset	After 7 minutes Compressor restart	
	Thermal protection program (Outdoor temp.) (Only in COOL and DRY mode)	Activate	-13°F (-25°C) Compressor stop	
		Reset	-4°F (-20°C) Compressor restart	

*PCB: Printed Circuit Board

OUTDOOR UNIT
AOUH18-36LUAS1

12. External input and output (for 24-36 model)

With using external input and output functions, this product can be operated inter-connectedly with an external device.

Connector	Input	Output	Remarks
P580	Low noise mode	—	See external input/output settings for details.
PA580	Peak cut mode	—	
P590	—	Error status	
PA590	—	Compressor status	

12-1. External input

With using external input function, on/off status of “Low noise mode” and “Peak cut mode” can be specified by the external signal.

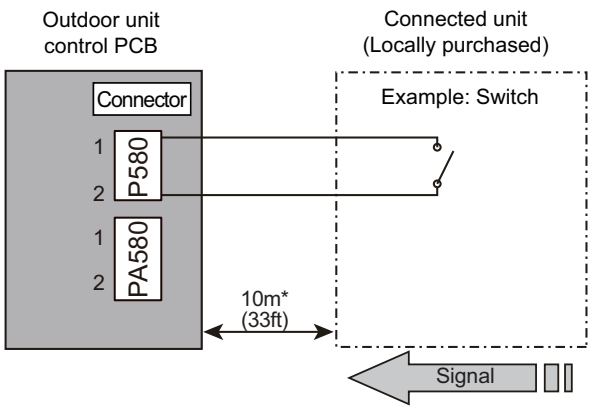
■ Low noise mode

In following condition, the operating noise of the outdoor unit reduces comparing from the one in normal operating condition:

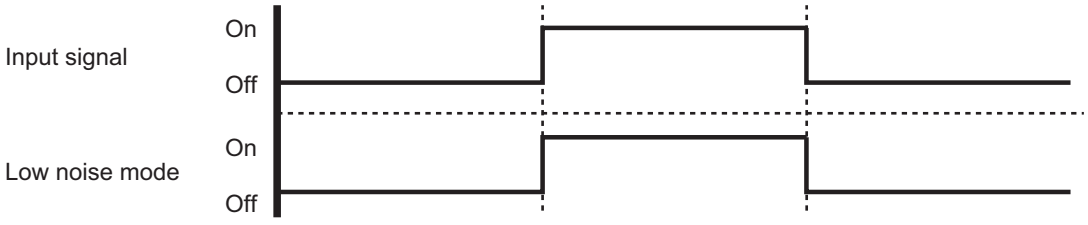
The air conditioner is set to the “Low noise mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

NOTE: Product performance may drop depending on some conditions such as the outdoor temperature.

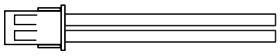
- **Circuit diagram example**



- Contact capacity: DC 24 V or more, 10 mA or more.
- *: Make the distance from the PCB to the connected unit within 33 ft (10 m).
- Construct a circuit as shown in this figure with using optional parts mentioned below.
- Input signal: On in “Low noise mode”
- Input signal: Off in normal operation
- To set the level of “Low noise mode,” refer to "Low noise mode" on page 119 (under “Local setting procedure”.)



- **Optional part**

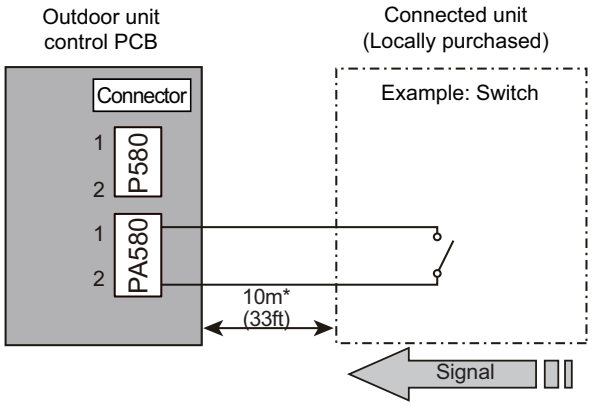
Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External input wire 

OUTDOOR UNIT
AOUH18-36LUAS1

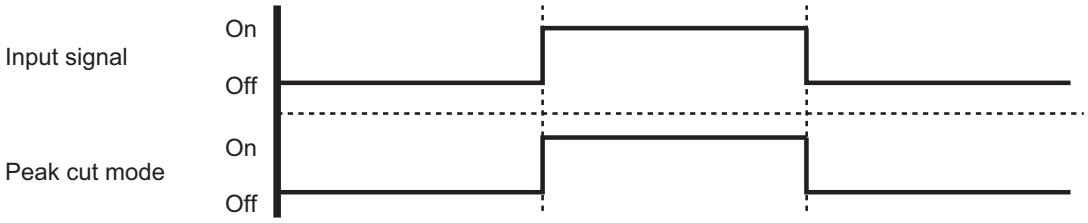
■ Peak cut mode

By performing following on-site work, operation that suppresses the current value can be enabled:
The air conditioner is set to the “Peak cut mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

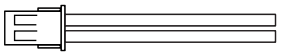
- **Circuit diagram example**



- Contact capacity: DC 24 V or more, 10 mA or more.
- *: Make the distance from the PCB to the connected unit within 33 ft (10 m).
- Construct a circuit as shown in this figure with using optional parts mentioned below.
- Input signal: On in “Peak cut mode”
- Input signal: Off in normal operation
- To set the level of “Peak cut mode,” refer to "Peak cut mode" on page 120 (under “Local setting procedure”.)



- **Optional part**

Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External input wire 

OUTDOOR UNIT
AOUH18-36LUAS1

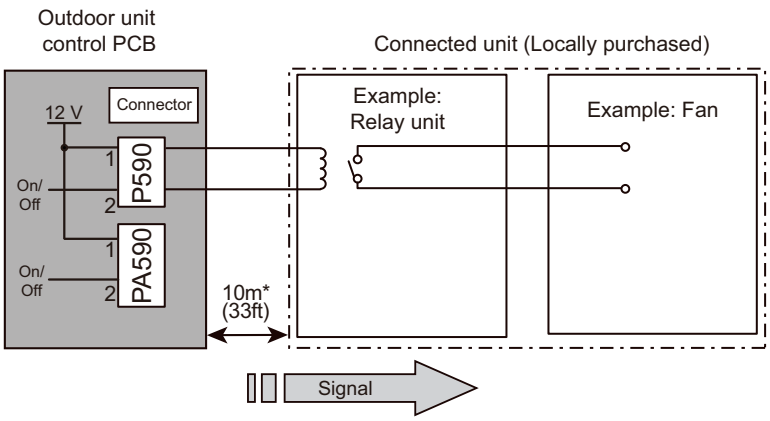
12-2. External output

With using external output function, some status signals are transmitted to the control PCB, and the related LED lamp indicates the status of this product.

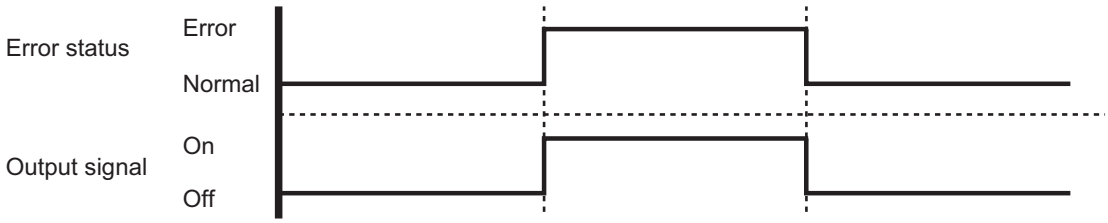
■ Error status output

Signal on air conditioner error status is generated when a malfunction occurs.

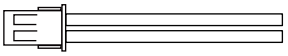
- **Circuit diagram example**



- Output voltage (Vcc): DC 12 V 50 mA or less
- *: Make the distance from the PCB to the connected unit within 33 ft (10 m).



- **Optional part**

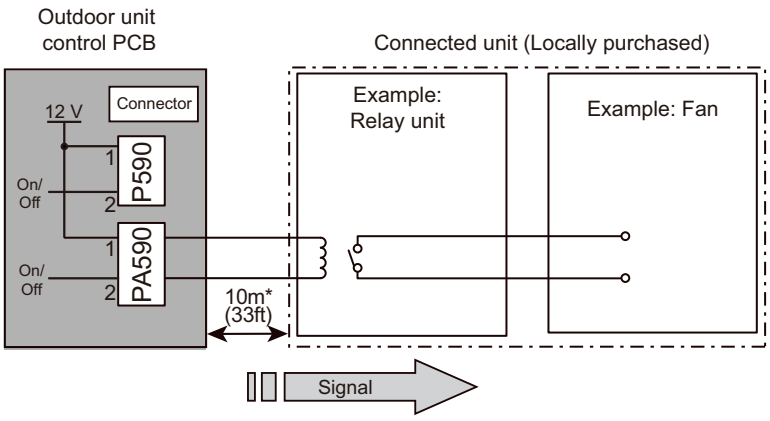
Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External output wire 

OUTDOOR UNIT
AOUH18-36LUAS1

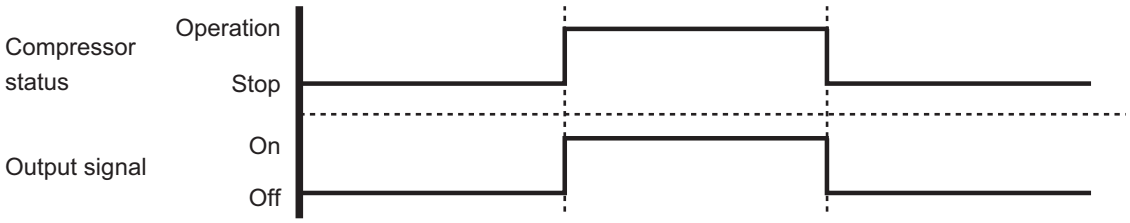
■ Compressor status output

Signal on compressor operation status is generated when the compressor is running.

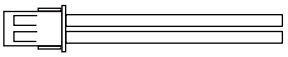
- **Circuit diagram example**



- Output voltage (Vcc): DC 12 V 50 mA or less
- *: Make the distance from the PCB to the connected unit within 33 ft (10 m).



- **Optional part**

Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External output wire 

OUTDOOR UNIT
AOUH18-36LUAS1

13. Function settings (for 24-36 model)

Perform appropriate function setting locally according to the installation environment.

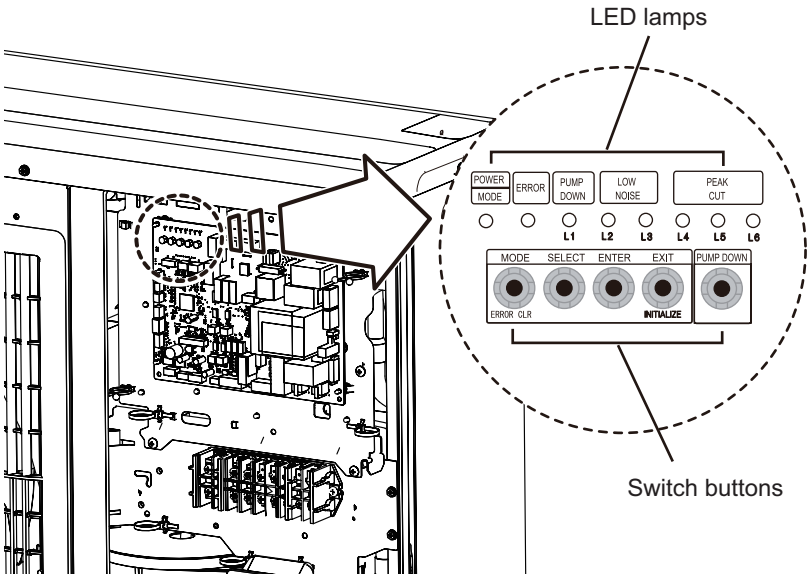
NOTE: Incorrect settings can cause a product malfunction.

⚠ CAUTION

- Before setting up the switch buttons, discharge the static electricity from your body.
- Never touch the terminals or the patterns on the parts that are mounted on the PCB.

13-1. Control PCB and switch buttons location

Control PCB of the outdoor unit is located as shown in the following figure.



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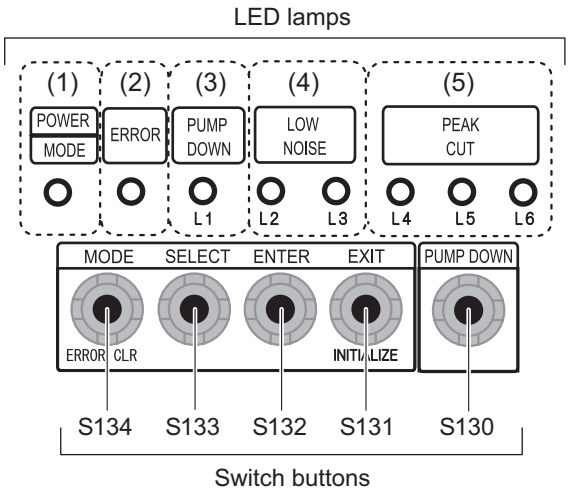
■ Switch buttons and the functions



LED lamp			Function or operation method
(1)	POWER/MODE	Green	Lights on while power on. Blinks to show the local setting on the outdoor unit or the error code.
(2)	ERROR	Red	Blinks during error operation.
(3)	PUMP DOWN (L1)	Orange	Lights on during pump down operation.
(4)	LOW NOISE MODE (L2 and L3)	Orange	Lights on during “Low noise mode” when local setting is activated. (Light pattern of L2 and L3 indicates the low noise level.)
(5)	PEAK CUT MODE (L4, L5, and L6)	Orange	Lights on during “Peak cut mode” when local setting is activated. (Light pattern of L4, L5, and L6 indicates the peak cut level.)

Switch button		Function or operation method
S134	MODE	Switches between “Local setting” and “Error code display”.
S133	SELECT	Switches between the individual “Local settings” and the “Error code displays”.
S132	ENTER	Switches between the individual “Local settings” and the “Error code displays”.
S131	EXIT	Returns to “Operation status display”.
S130	PUMP DOWN	Starts the pump down operation.

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13-2. Local setting procedure

NOTE: Before performing the function setting, be sure to stop the operation of the air conditioner.

■ Low noise mode

1. Press the MODE switch button (S134) for 3 seconds or more to switch to “Local setting mode”.
2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

POWER / MODE	ERROR	PUMP DOWN (L1)	LOW NOISE (L2)	LOW NOISE (L3)	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
Blinks (9 times)	○	○	○	○	○	○	○

Sign “ ○ ”: Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.

	LOW NOISE (L2)	LOW NOISE (L3)
LOW NOISE MODE	○	Blink

4. Press the ENTER switch button (S132).

	LOW NOISE (L2)	LOW NOISE (L3)
LOW NOISE MOD E	○	●

Sign “ ● ”: Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
MODE 1: Low	○	○	Blink
MODE 2: Lower	○	Blink	○

6. Press the ENTER switch button (S132) and fix it.

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
MODE 1: Low	○	○	●
MODE 2: Lower	○	●	○

7. To return to “Operating status display (Normal operation)”, press the EXIT switch button (S131).

In case of missing how many times you pressed the SELECT and ENTER switch buttons:

1. To return to “Operation status display (Normal operation)”, press the EXIT switch button once.
2. Restart from the beginning of setting procedure.

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■ Peak cut mode

1. Press the MODE switch button (S134) for 3 seconds or more to switch to “Local setting mode”.
2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

POWER / MODE	ERROR	PUMP DOWN (L1)	LOW NOISE (L2)	LOW NOISE (L3)	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
Blinks (9 times)	○	○	○	○	○	○	○

Sign “ ○ ”: Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.

	LOW NOISE (L2)	LOW NOISE (L3)
PEAK CUT MOD E	Blink	○

4. Press the ENTER switch button (S132).

	LOW NOISE (L2)	LOW NOISE (L3)
PEAK CUT MODE	●	○

Sign “ ● ”: Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
0 % of rated input ratio	○	○	Blink
50 % of rated input ratio	○	Blink	○
75 % of rated input ratio	○	Blink	Blink
100 % of rated input ratio	Blink	○	○

6. Press the ENTER switch button (S132) and fix it.

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
0 % of rated input ratio	○	○	●
50 % of rated input ratio	○	●	○
75 % of rated input ratio	○	●	●
100 % of rated input ratio	●	○	○

7. To return to “Operating status display (Normal operation)”, press the EXIT switch button (S131).

NOTE: When pressed number is lost during setting, you must redo the setting procedure. Return to “Operation status display (Normal operation)” by pressing the EXIT switch button once, and restart from the beginning of the setting procedure.

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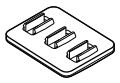
14. Accessories

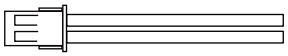
14-1. Model: AOUH18LUAS1

Part name	Exterior	Qty	Part name	Exterior	Qty
Installation manual		1	Cable tie		2
Drain pipe		1	Drain cap		5

14-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

Part name	Exterior	Qty	Part name	Exterior	Qty
Installation manual		1	Drain cap		3
Drain pipe		1			

15. Optional parts

Exterior	Part name	Model name	Summary
	External Connect Kit	UTY-XWZXZ3	Use to operate the external input and output functions of outdoor unit. (for 24-36 model)

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