

AIR CONDITIONER
Cassette type

DESIGN & TECHNICAL MANUAL



FUJITSU GENERAL LIMITED

AO*****G45LETL AO*****G54LETL

1. INDOOR UNIT

CASSETTE TYPE :

AU*G45LRLA AU*G54LRLA

> DTR_AU053E_02 2013.04.01



1. INDOOR UNIT

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1. FEATURES

MODELS AU*G45LRLA / AO*G45LETL AU*G54LRLA / AO*G54LETL







FEATURES

Energy saving

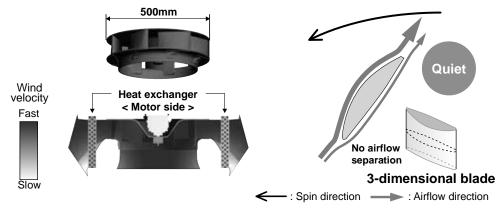
- All DC design
- Heat exchange efficiency increased and larger air flow by adoption of new type turbo fan

Advancement in comfort

- Quiet operation was realized by adoption of new type turbo fan
- Improvement of air stream

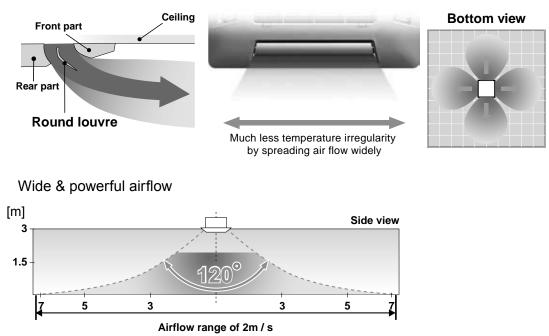
①Adoption of high efficiency turbo fan

High efficiency and quiet operation achieved by equaling the performance of the blade and air passing the heat exchanger.



@Improvement of the airflow distribution

Making space between the ceiling, the air flows far and wide leaving the ceiling clean.



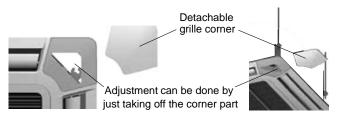
Economy operation

The power consumption can be reduced.

Improvement of installation & maintenance

Adjustment of hanger position is possible after installation

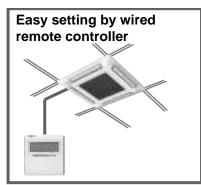
Mounting position of body can be fine adjusted after mounting the cassette grille.



• High lift drain pump

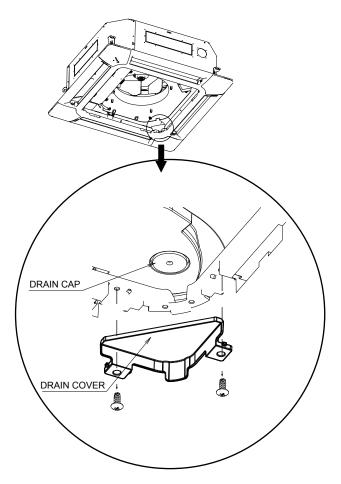


Easy installation



• Simplification of drain water check

Drain and contamination check are possible without removing the cassette grille.



Can be easily checked by removing the drain cover.

■ FUNCTION SETTING

Other functions

Performs operation matched to the number of outlets when 4 directions are unnecessary and outlets are blocked when the ceiling cassette is installed in a corner, etc.

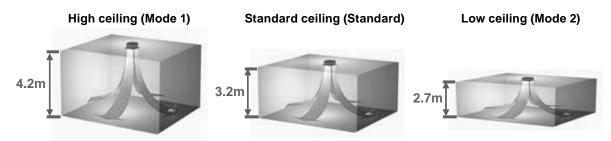
4-way direction 3-way direction



4-way direction mode: Set when there are 4 outlets (shipped state).3-way direction mode: Set when there are 3 outlets.

Ceiling switching function

Also delivers air to high ceilings by selecting the mode and raising the airflow according to the height of the ceiling.



Standard ... Operates at normal airflow.

Mode 1 ... Airflow becomes greater than normal.

Mode 2 ... Airflow becomes smaller than normal.

• Cooling room temperature correction

Heating room temperature correction

Auto restart

The unit will restart automatically when the current returns even when there is a power interruption during operation.

Room temperature sensor switching

The sensor judging the room temperature is switchable from the sensor attached to the indoor unit, to the sensor attached to the wired remote controller.

2. WIRED REMOTE CONTROLLER

■ FEATURES

-00000

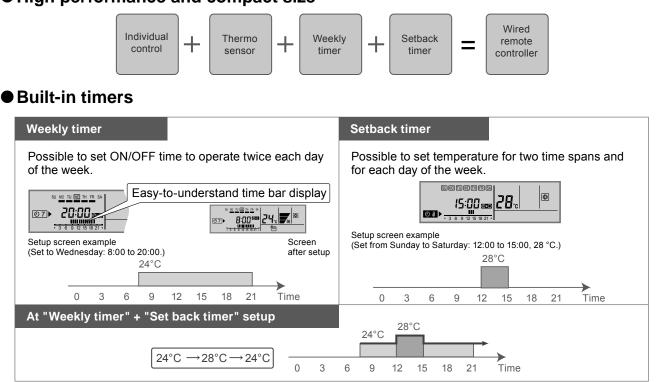


- * Various timer setup available (ON / OFF / WEEKLY).
- * Equipped with weekly timer as standard function. (Start/Stop function is twice per day for a week)
- When setting up the timer, operation mode and temperature setup can be changed.
- * When a failure occurs, the error code is displayed.
- * Error history. (Last 16 error codes can be accessed.)
- The room temperature can be controlled by detecting the temperature accurately with built-in thermo sensor.

Simple function setting

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

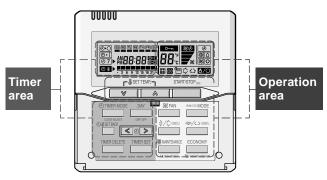
• High performance and compact size



Easy-to-understand operation

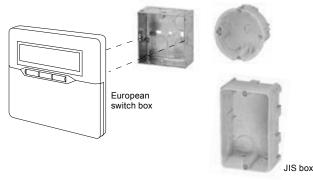
[Variable timer control]

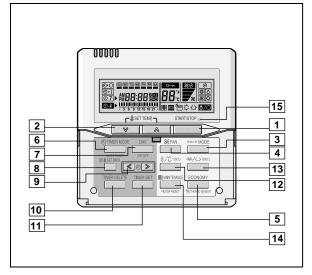
The operation/display sections are zoned according to time and operation, enabling variable programming to match application.



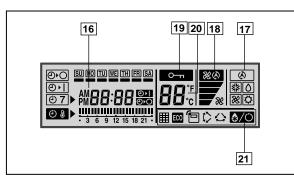
Simple installation

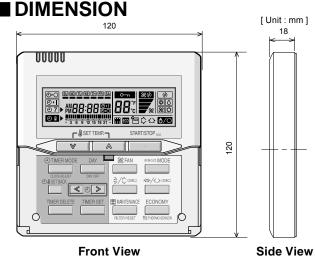
Components are compatible with standard switch boxes. Flat back surface allows equipment to be installed wherever it is needed.





Display panel





Front View

SPECIFICATION

SIZE	(H x W x D mm)	120 x 120 x 18
WEIGHT	(g)	160
CABLE LENG	GTH (m)	10
POWER	(V)	12

WIRING SPECIFICATIONS

1	START/STOP button
	Pressed to start and stop operation.

- 2 SET TEMP button
- Selects the setting temperature. 3 MODE button
 - Selects the operating mode (AUTO, HEAT, FAN, COOL, DRY).
- 4 FAN button Selects the fan speed (AUTO, QUIET, LOW, MED, HIGH).
- 5 ECONOMY button Turns the economy efficient mode on and off.
- 6 TIMER MODE (CLOCK ADJUST) button Selects the timer mode (OFF TIMER, ON TIMER, WEEKLY TIMER). Sets the current time.
- 7 DAY(DAY OFF) button Temporarily cancels one day timer.
- 8 SET BACK button Pressed to select the set back timer.
- 9 Set time button Pressed to set time.
- 10 TIMER DELETE button Deletes the weekly timer schedule.
- 11 TIMER SET button Sets the date, hour, minute and on-off time.
- 12 Vertical airflow direction and swing button Push for two seconds to change the swing mode.
- 13 Horizontal airflow direction and swing button Push for two seconds to change the swing mode.
- 14 FILTER RESET button
- 15 Operation lamp
 - Lights during operation and when the timer is on.
- 16 Timer and clock display
- 17 Operation mode display
- 18 Fan speed display
- **19** Operation lock display
- 20 Temperature display
- 21 Function display
 - ♦/O Defrost display
 - 6 Thermo sensor display
 - ECO Economy display
 - \mathbf{C} Vertical swing display
 - Horizontal swing display
 - ▦ Filter display

Note: Some button operations may not be available for all units or systems. For details, please see operation manual.

Use	Cable size	Wire type	Remarks
Remote controller cable	0.33mm ² (22AWG)	Polar 3 core	Use sheathed PVC cable

3. SPECIFICATION	S
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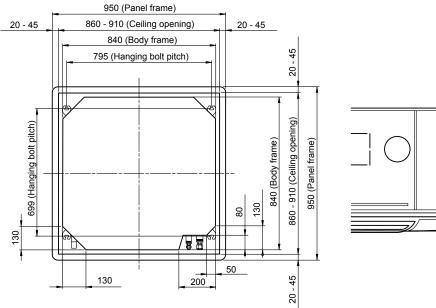
Tures					CASSETTE	MODEL					
Туре					INVERTER H	EATPUMP					
Model name					AU*G45LRLA	AU*G54LRLA					
Power source					230V ~						
Available voltage rang	e	- <u>r</u>			198-264V						
		Rated		kW	12.5						
	Cooling			Btu/h	42700						
		MinMax.		kW Btu/h	4.0-14.0 13700-47800						
Capacity				kW	13700-47800						
		Rated		Btu/h	47800						
	Heating			kW	4.2-16.2						
		MinMax.		Btu/h	14300-55300						
		Rated		Blain	3.88						
	Cooling	Max.		1	4.70	4.94					
Input power		Rated		kW –	3.77	4.69					
	Heating	Max.		1 -	4.70	4.94					
Quana at	Cooling	Deted			16.9	19.3					
Current	Heating	Rated		A	16.5	20.5					
EER		Cooling		kW/kW	3.22	3.01					
COP		Heating			3.71	3.41					
Moisture removal				l/h (pints/h)	4.5 (7.9)	5.0 (8.8)					
Maximum operating cu	urrent *	Cooling		- A -	20.5	21.5					
sportaning of		Heating			20.5	21.5					
			High	┥ ┝─	1900						
		Cooling	Med	┨ ┣━	1640						
			Low	┨ ┣━	1460						
	Airflow		Quiet	l/s (m ³ /h)	1250						
Fan	rate		High		1900						
		Heating	Med		1640 1460						
			Low Quiet	┥ ┝─	1250						
	Type × Q't		Quiet	L		5.0 (8.8) 21.5 21.5 2000 1700 1530 1300 2000 1700 1530 1300 2000 1700 1530 1300 0 47 43 41 37 47 43 41 37 21×13.3 37×13.3 53×13.3 3					
	Motor outp			w		1700 1530 1300 urbo × 1 80 47 43 41					
			High	**	46	47					
			Med	┥ ┝─	42						
		Cooling	Low	┨ ┣━	40						
			Quiet	1 -	36						
Sound pressure level			High	dB(A)	46						
			Med	1	42						
		Heating	Low	1	40						
			Quiet		36	37					
					252×202						
		Dimensions (H × V	V × D)	mm	252×208						
				┨ ┣━							
Heat exchanger type		Fin pitch			1.3	AU*G54LRLA 50Hz ~ 50Hz 13.3 45400 4.5-14.5 15400-49500 16.0 54600 4.7-16.5 16000-56300 4.42 4.94 4.94 4.99 4.94 19.3 20.5 3.01 3.41 5.0 (8.8) 21.5 21.5 2000 1700 1530 1300 2000 1700 1530 1300 × 1 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 41 37 47 43 50 840 840 840 85 50 85 50 85 50 85 50 85 50 85 50 50 50 50 50 50 50 50 50 5					
		Rows x Stages			<u>3 x 1</u>						
		Pipe type			Copp						
Dimensions		Fin type Net			Alumin						
(H × W × D)		Gross		mm							
(11 ~ W ~ D)		Net			26						
Weight		Gross		kg 🗕	31						
			Liquid	1 1	Ø9.52 (3	/8 in.)					
Connection pipe		Size	Gas	- mm	Ø15.88 (5						
·· · · · · · ·		Method	1	·	Flar						
Daria ha		Material			PVC						
Drain hose		Size		1	VP25 [Ø25(I.D.), Ø32(O.D.)]					
		Cooling		°C	18 to						
Operation range		Cooling		%RH	80 or l	ess					
Cassette grille		Heating		°C	16 to						
		Model name			UTG-UG						
		Material			PS						
		Colour			WHIT						
					Approximate colour of						
3		Dimensions	Net		50×950						
		(H × W × D)	Gross	· ·	115×1020						
		Weight	Net	kg 🛏	5.5						
Demote and the i			Gross		8.5						
Remote controller type	9				Wired [Wireless (option)]						

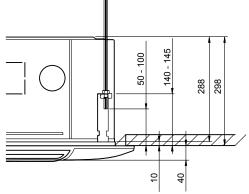
Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27 °CDB / 19 °CWB.and outdoor temperature of 35 °CDB/24 °CWB. Heating : Indoor temperature of 20 °CDB / 15 °CWB.and outdoor temperature of 7 °CDB/6 °CWB. Pipe length : 5 m, Height difference : 0 m.(Outdoor unit - Indoor unit) The protective function might work when using it outside the operation range. *: The maximum current is the maximum value when operated within the operation range.

4. DIMENSIONS

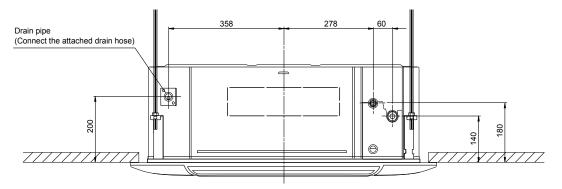
■ MODELS : AU*G45LRLA, AU*G54LRLA

• Ceiling opening and hanging bolt pitch

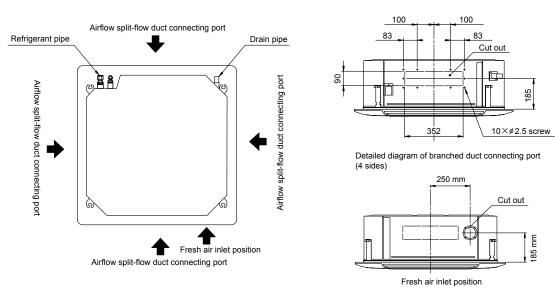




• Refrigerant piping and drain piping positions



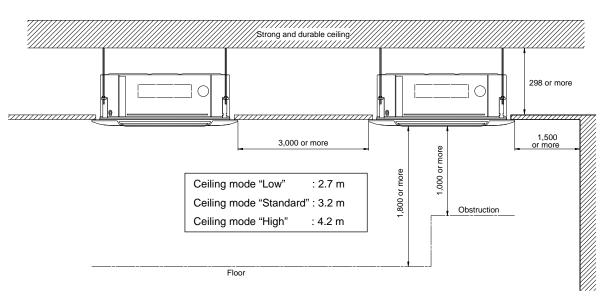
• Airflow split-flow duct and fresh air inlet positions



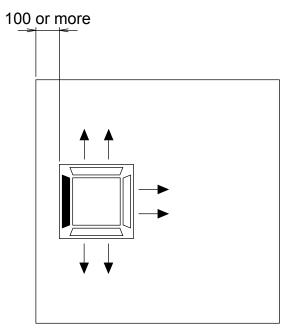
(Unit : mm)

■ INSTALLATION PLACE

CASSETTE TYPE AU*G45-54LRLA



● 3-way directions setting

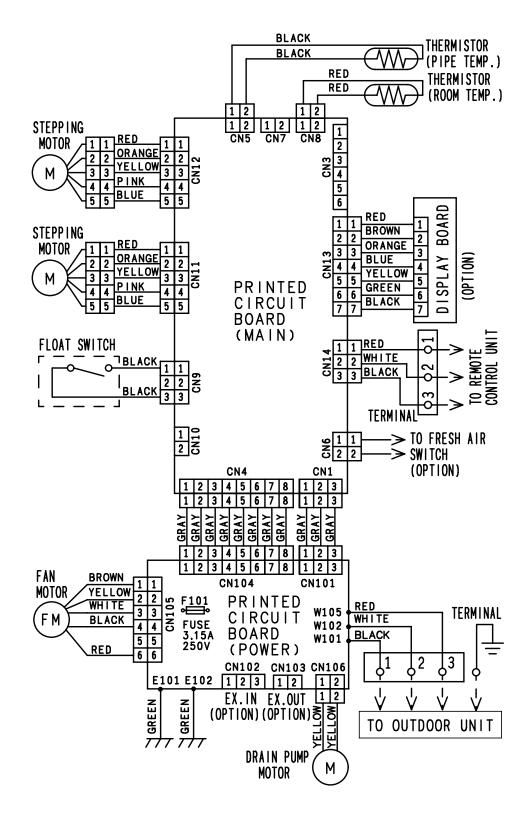


To set "3-way directions", the air outlet shutter plate (UTR-YDZC) sold separately must be installed and "outlet-direction" switched to "3-way" by remote controller.



5. WIRING DIAGRAMS ■MODELS : AU*G45LRLA, AU*G54LRLA





6. CAPACITY TABLE

6-1. COOLING CAPACITY

This table is created using the maximum capacity.

■ MODEL: AU*G45LRLA

AFR 31.7

											Indoo	tempe	rature									
	°CDB 18 21 23				23 25					27			29			32						
	°CWB		12			15			16			18			19			21		23		
	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
	-15	11.34	8.71	2.56	12.63	8.76	2.60	13.06	9.52	2.62	13.92	9.55	2.64	14.35	10.32	2.66	15.21	10.28	2.68	16.07	10.95	2.71
	-10	11.44	8.70	2.46	12.74	8.75	2.50	13.17	9.51	2.51	14.04	9.55	2.54	14.48	10.31	2.55	15.35	10.27	2.58	16.21	10.94	2.60
e	0	11.55	8.77	2.23	12.87	8.83	2.26	13.31	9.60	2.28	14.18	9.63	2.30	14.62	10.40	2.31	15.50	10.35	2.33	16.38	11.03	2.36
atur	5	11.37	8.78	2.30	12.67	8.84	2.34	13.10	9.61	2.35	13.96	9.64	2.37	14.40	10.41	2.39	15.26	10.37	2.41	16.12	11.04	2.43
temperature	10	11.11	8.78	2.49	12.37	8.83	2.53	12.79	9.60	2.54	13.64	9.63	2.57	14.06	10.40	2.58	14.90	10.36	2.61	15.74	11.04	2.63
tem	15	10.84	8.68	2.69	12.07	8.74	2.73	12.48	9.50	2.74	13.31	9.53	2.77	13.72	10.29	2.78	14.54	10.25	2.81	15.37	10.92	2.84
	20	11.22	8.69	3.15	12.49	8.74	3.20	12.92	9.50	3.22	13.77	9.53	3.25	14.20	10.29	3.27	15.05	10.25	3.30	15.90	10.92	3.33
Outdoor	25	11.10	8.78	3.36	12.36	8.83	3.41	12.79	9.60	3.43	13.63	9.63	3.46	14.05	10.40	3.48	14.89	10.36	3.51	15.74	11.03	3.55
0	30	11.34	8.84	4.27	12.63	8.89	4.34	13.06	9.67	4.36	13.92	9.70	4.41	14.35	10.48	4.43	15.21	10.43	4.43	16.07	11.11	4.43
	35	11.06	8.82	4.53	12.32	8.87	4.60	12.74	9.64	4.62	13.58	9.68	4.67	14.00	10.45	4.69	14.84	10.41	4.69	15.68	11.09	4.69
	40	8.79	7.66	3.92	9.79	7.83	3.98	10.13	8.52	4.00	10.80	8.54	4.04	11.13	9.23	4.06	11.80	9.19	4.06	12.47	9.79	4.06
	46	6.69	6.63	3.24	7.45	6.87	3.29	7.71	7.47	3.31	8.22	7.49	3.34	8.47	8.09	3.36	8.98	8.06	3.36	9.49	8.58	3.36

CASSETTE TYPE AU*G45-54LRLA

AFR : Air Flow Rate (m³/min) TC : Total Capacity (kW) SHC : Sensible Heat Capacity (kW) IP : Input Power (kW)

■ MODEL: AU*G54LRLA

AFR 33.3

											Indoo	r tempe	rature									
	°CDB		18 21 23 25 27				27		29			32										
	°CWB	°CWB 12 15			16			18			19		21			23						
	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
	-15	11.73	9.03	2.69	13.07	9.08	2.73	13.52	9.87	2.75	14.41	9.90	2.78	14.85	10.69	2.79	15.74	10.65	2.82	16.64	11.35	2.85
	-10	11.72	9.04	2.59	13.06	9.10	2.63	13.50	9.89	2.64	14.39	9.92	2.67	14.84	10.71	2.68	15.73	10.67	2.71	16.62	11.37	2.73
ø	0	11.84	9.12	2.33	13.19	9.17	2.36	13.64	9.97	2.37	14.54	10.01	2.40	14.99	10.81	2.41	15.89	10.76	2.43	16.78	11.46	2.46
atur	5	11.60	8.96	2.42	12.92	9.02	2.46	13.37	9.80	2.47	14.25	9.83	2.50	14.69	10.62	2.51	15.57	10.58	2.54	16.45	11.27	2.56
ber	10	11.44	8.90	2.54	12.74	8.95	2.58	13.18	9.73	2.59	14.04	9.76	2.62	14.48	10.54	2.63	15.35	10.50	2.66	16.22	11.18	2.68
Outdoor temperature	15	11.22	8.99	2.80	12.50	9.04	2.85	12.92	9.83	2.86	13.77	9.86	2.89	14.20	10.65	2.91	15.05	10.61	2.93	15.90	11.30	2.96
o	20	12.06	9.55	3.73	13.43	9.61	3.79	13.89	10.45	3.81	14.81	10.48	3.85	15.26	11.32	3.87	16.18	11.27	3.90	17.10	12.01	3.94
utq	25	11.82	9.10	4.31	13.17	9.15	4.38	13.62	9.95	4.40	14.52	9.98	4.45	14.97	10.78	4.47	15.86	10.73	4.51	16.76	11.43	4.56
0	30	11.62	8.98	4.52	12.95	9.04	4.59	13.39	9.82	4.61	14.27	9.86	4.66	14.71	10.64	4.68	15.59	10.60	4.68	16.48	11.29	4.68
	35	11.46	8.89	4.75	12.76	8.95	4.82	13.20	9.73	4.85	14.07	9.76	4.90	14.50	10.54	4.92	15.37	10.50	4.92	16.24	11.18	4.92
	40	9.11	8.03	3.94	10.15	8.21	4.00	10.49	8.93	4.02	11.18	8.96	4.06	11.53	9.67	4.08	12.22	9.63	4.08	12.91	10.26	4.08
	46	6.94	6.91	3.26	7.73	7.16	3.31	7.99	7.78	3.33	8.52	7.81	3.36	8.78	8.43	3.38	9.31	8.40	3.38	9.83	8.94	3.38

AFR : Air Flow Rate (m³/min) TC : Total Capacity (kW) SHC : Sensible Heat Capacity (kW) IP : Input Power (kW)

6-2. HEATING CAPACITY

This table is created using the maximum capacity.

■ MODEL: AU*G45LRLA

AFR 31.7

							Indoor ter	nperature				
		°CDB	1	6	1	8	2	0	2	2	24	
	°CDB	°CWB	TC	IP	TC	IP	тс	IP	TC	IP	TC	IP
	-15	-16	10.90	4.14	10.64	4.22	10.38	4.31	10.12	4.40	9.86	4.48
	-10	-11	11.86	4.29	11.57	4.38	11.29	4.47	11.01	4.56	10.73	4.65
tu re	-5	-7	12.96	4.25	12.65	4.34	12.34	4.43	12.03	4.43	11.73	4.43
berat	0	-2	14.01	4.25	13.68	4.34	13.35	4.43	13.01	4.43	12.68	4.43
tem	5	3	15.51	4.25	15.14	4.34	14.77	4.43	14.40	4.43	14.03	4.43
Outdoor temperature	7	6	17.01	4.25	16.61	4.34	16.20	4.43	15.80	4.43	15.39	4.43
Out	10	8	17.29	4.25	16.88	4.34	16.46	4.43	16.05	4.43	15.64	4.43
	15	10	16.80	3.80	16.40	3.88	16.00	3.96	15.60	3.96	15.20	3.96
	20	15	16.27	3.80	15.88	3.88	15.49	3.96	15.10	3.96	14.72	3.96
	24	18	16.79	3.26	16.39	3.33	15.99	3.40	15.60	3.40	15.20	3.40

CASSETTE TYPE AU***G45-54LRLA**

AFR : Air Flow Rate (m³/min) TC : Total Capacity (kW) IP : Input Power (kW)

■ MODEL: AU*G54LRLA

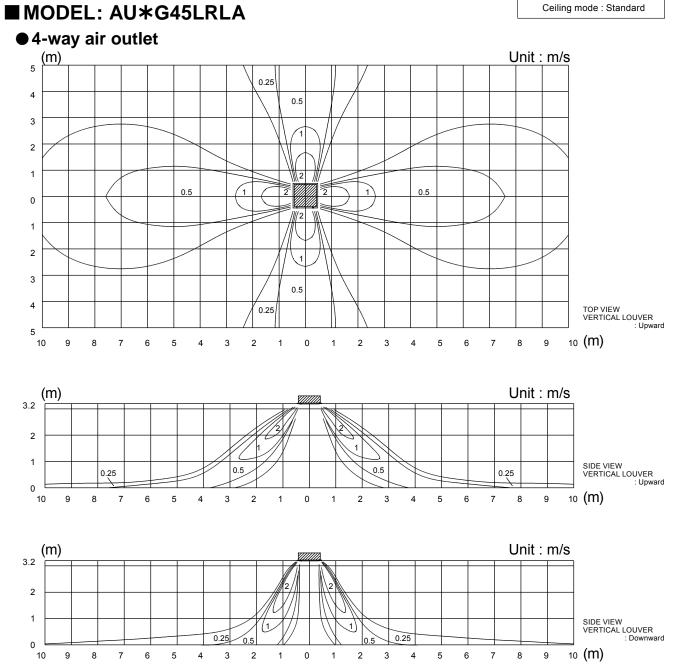
AFR 33.3

							Indoor ter	nperature				
		°CDB	16		1	8	2	0	2	2	24	
	°CDB	°CWB	TC	IP	TC	IP	тс	IP	TC	IP	TC	IP
	-15	-16	11.00	4.16	10.73	4.24	10.47	4.33	10.21	4.42	9.95	4.50
	-10	-11	12.08	4.31	11.79	4.40	11.50	4.49	11.22	4.58	10.93	4.67
ture	-5	-7	13.30	4.49	12.99	4.59	12.67	4.68	12.35	4.68	12.04	4.68
perat	0	-2	14.44	4.49	14.10	4.59	13.75	4.68	13.41	4.68	13.07	4.68
tem	5	3	16.01	4.49	15.62	4.59	15.24	4.68	14.86	4.68	14.48	4.68
Outdoor temperature	7	6	17.33	4.49	16.91	4.59	16.50	4.68	16.09	4.68	15.68	4.68
Out	10	8	17.61	4.49	17.19	4.59	16.77	4.68	16.35	4.68	15.93	4.68
	15	10	16.97	3.82	16.57	3.90	16.16	3.98	15.76	3.98	15.35	3.98
	20	15	16.43	3.37	16.04	3.44	15.65	3.51	15.25	3.51	14.86	3.51
	24	18	16.96	3.37	16.56	3.44	16.15	3.51	15.75	3.51	15.35	3.51

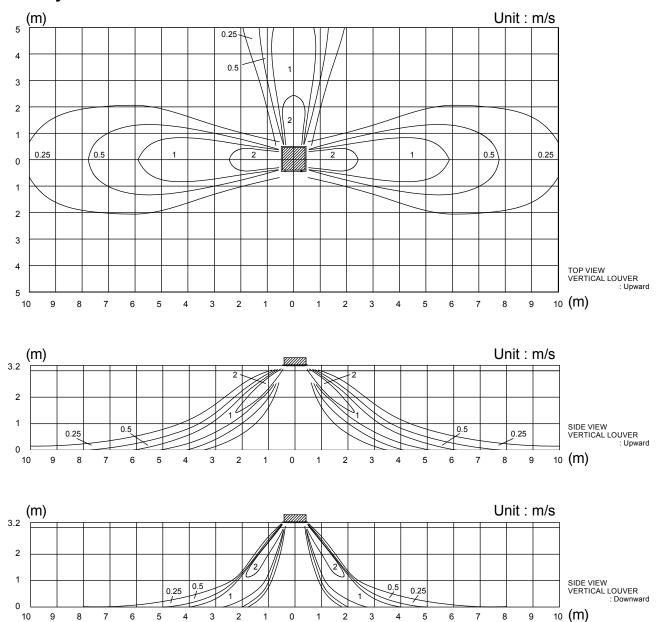
AFR : Air Flow Rate (m³/min) TC : Total Capacity (kW) IP : Input Power (kW)

7. FAN PERFORMANCE 7-1. AIR VELOCITY DISTRIBUTION 7-1-1. STANDARD MODE

Note: Condition Fan speed : High Operation mode : FAN Ceiling mode : Standard

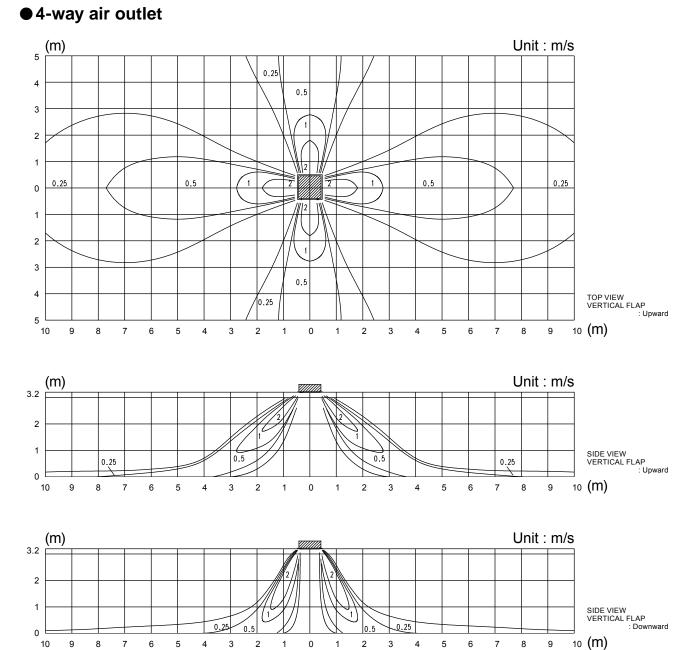


Note: Condition Fan speed : High Operation mode : FAN Ceiling mode : Standard



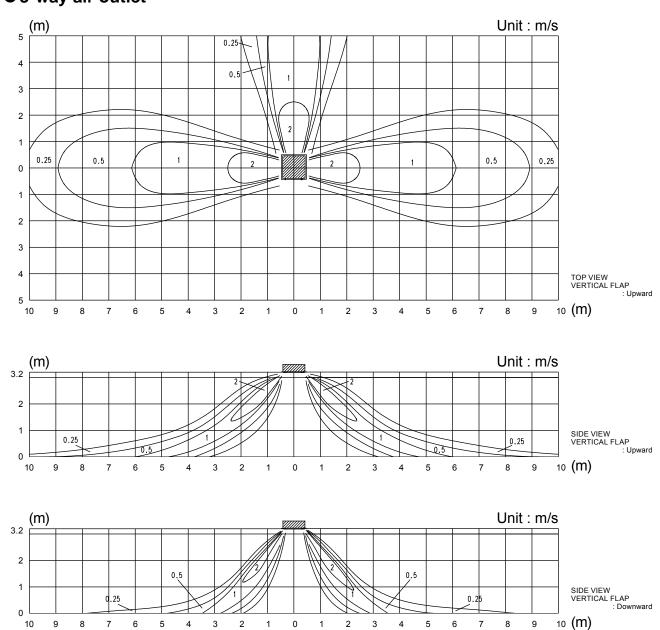
Note: Condition Fan speed : High Operation mode : FAN Ceiling mode : Standard

■ MODEL: AU*G54LRLA

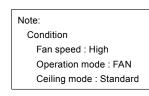


Fan speed : High Operation mode : FAN

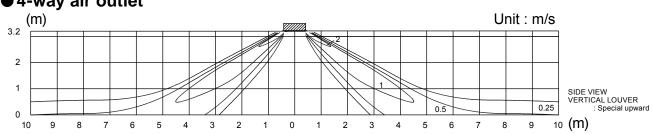
Ceiling mode : Standard



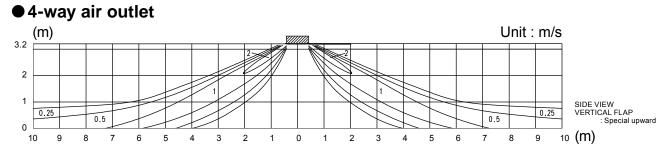
7-1-2. SPECIAL UPWARD MODE



■ MODEL: AU*G45LRLA ● 4-way air outlet



■ MODEL: AU*G54LRLA



7-2. AIRFLOW 7-2-1. 4-WAY OUTLET

■ MODEL: AU*G45LRLA

Cooling / Heating

Fan speed	Number of rotations (r.p.m.)	Airf	low			
		m³/h	1900			
HIGH	690	l/s	528			
		CFM	1118			
		m³/h	1640			
MED	610	l/s	456			
		CFM	965			
		m³/h	1460			
LOW	550	l/s	406			
		CFM	859			
		m³/h	1250			
QUIET	470	l/s	347			
		CFM	736			

■ MODEL: AU*G54LRLA

• Cooling / Heating

Fan speed	Number of rotations (r.p.m.)	Airt	flow		
		m³/h	2000		
HIGH	720	l/s	556		
		CFM	1177		
		m³/h	1700		
MED	630	l/s	472		
		CFM	1000		
		m³/h	1530		
LOW	570	l/s	425		
		CFM	900		
		m³/h	1300		
QUIET	480	l/s	361		
		CFM	765		

7-2-2. 3-WAY OUTLET

■ MODEL: AU*G45LRLA

Cooling / Heating

Fan speed	Number of rotations (r.p.m.)	Airf	flow	
		m³/h	1690	
HIGH	720	l/s	469	
		CFM	995	
		m³/h	1490	
MED	640	l/s 414		
		CFM	877	
		m³/h	1340	
LOW	580	l/s 372		
		CFM	789	
		m³/h	1140	
QUIET	500	l/s	317	
		CFM	671	

■ MODEL: AU*G54LRLA

• Cooling / Heating

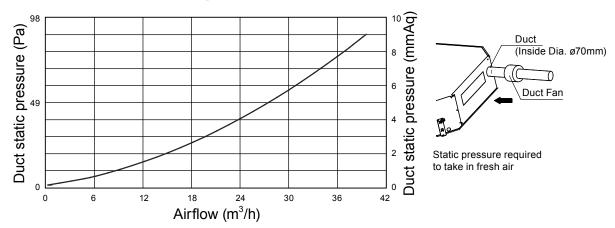
Fan speed	Number of rotations (r.p.m.)	Airf	flow
		m³/h	1740
HIGH	740	l/s	483
		CFM 1024	1024
		m³/h	1520
MED	650	l/s 422	
		CFM	895
		m³/h	1360
LOW	590	l/s 378	
		CFM	800
		m³/h	1140
QUIET	500	l/s 317	
		CFM	671

*Airflow can be changed according to the direction in which the outlet is blocked.

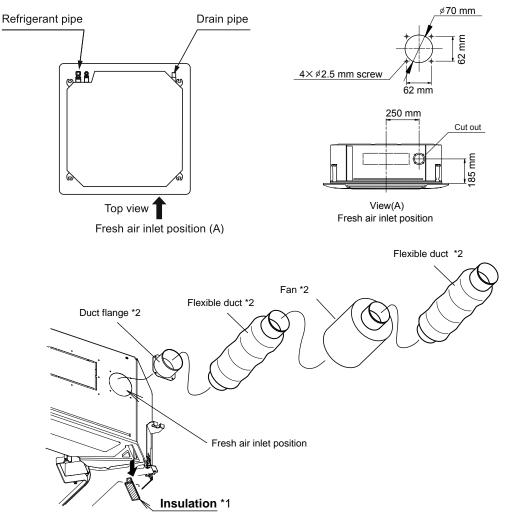
7-3. FRESH AIR

■MODELS : AU*G45LRLA, AU*G54LRLA

• Airflow volume - Static pressure of Fresh air intake characteristic





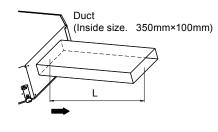


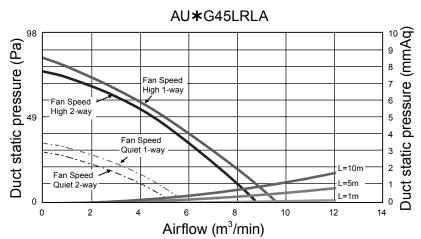
*1 : In case of fresh air intake, please remove the insulation.

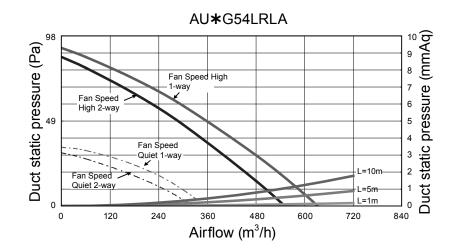
*2 : Locally procured parts

7-4. DUCT CONNECTION ■ MODELS : AU*G45LRLA, AU*G54LRLA

• Outlet air

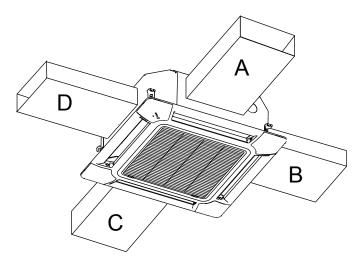




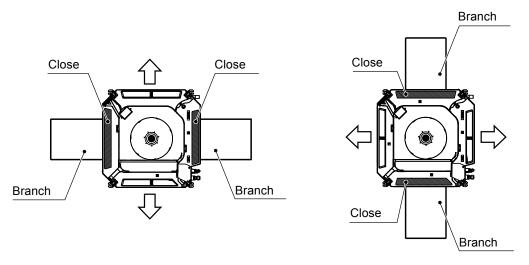


■ PRECAUTIONS WHILE CONNECTING AIR OUTLET DUCT

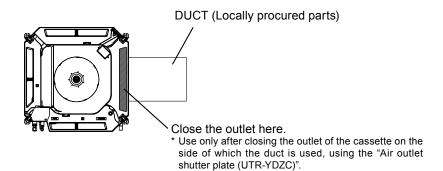
• Connect the air outlet duct to maximum two locations among the four duct connection locations. (Do not connect ducts to three or more locations.)



Blow-off pattern when a branch duct is installed Bi-directional branching, main unit bi-directional branching

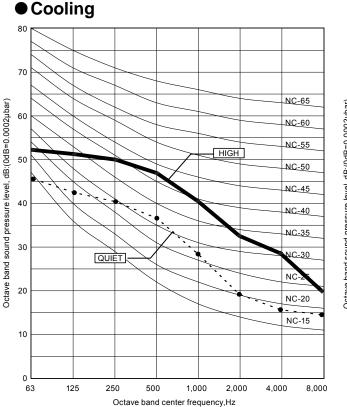


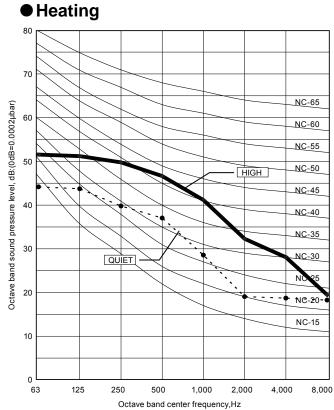
Once the location where the duct is to be connected is decided, always be sure to close the outlets in the same direction.



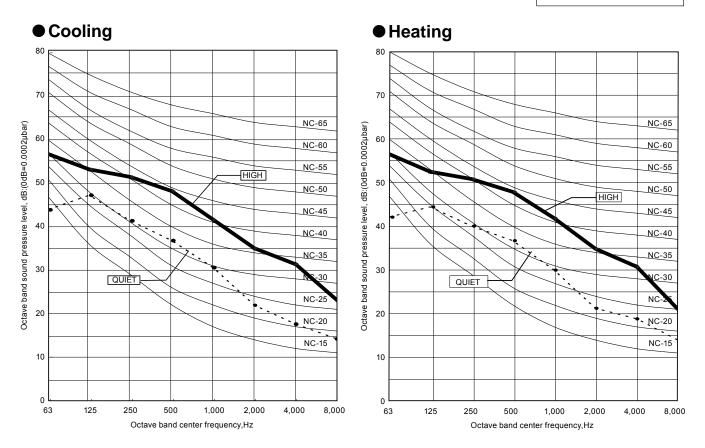
8. OPERATION NOISE (SOUND PRESSURE) 8-1. NOISE LEVEL CURVE ■ MODEL: AU*G45LRLA

Condition Ceiling mode : Standard Air outlet : 4-way air outlet





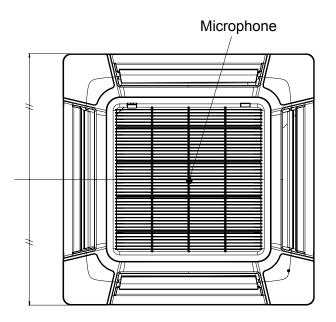
■ MODEL: AU*G54LRLA



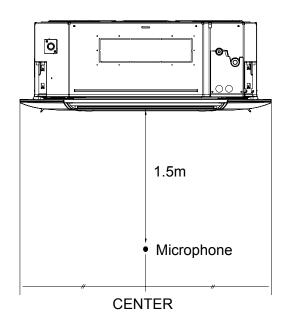
Condition Ceiling mode : Standard Air outlet : 4-way air outlet



8-2. SOUND LEVEL CHECK POINT



CASSETTE TYPE AU*G45-54LRLA



9. ELECTRIC CHARACTERISTICS

	AU * G45LRLA AU * G54LRLA	
V	230 ~	
Hz	50	
Δ	12	1

Frequency	Hz	50
Max. operating current (Indoor unit)		1.2
Connection cable	mm²	1.5 (Min.)
*2) Limited wiring length	m	51
	Connection cable	Connection cable mm ²

*1) Wiring Spec. Selected Sample

Model name

Power supply

(Selected based on Japan Electrotechnical Standards and Codes Committee E0005)

Voltage

*2) Limited wiring length : Limit voltage drop to less than 2%. Increase cable gauge if voltage drop is 2% or more.

10. SAFETY DEVICES

		Model		
	Protection form	AU * G45LRLA AU * G54LRLA		
Circuit protection	Current fuse (PCB)	250V 3.15A		
Fan motor protection	Thermal protection program	110 ⁺¹⁵ ₋₁₀ °C OFF 105 ⁺¹⁵ ₋₁₀ °C ON		

11.EXTERNAL INPUT & OUTPUT

Connector	INPUT	OUTPUT	REMARKS
CN102	Control input	—	See external
CN103	—	Operation status output	input/output settings for
CN6		Fresh air control output	details.

11-1. EXTERNAL INPUT

CONTROL INPUT (Operation/Stop or Forced stop)

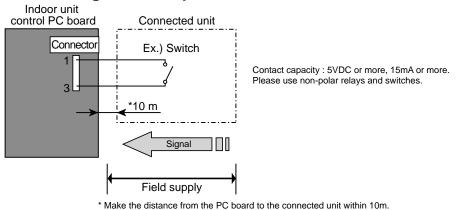
The air conditioner can be remotely operated by means of the following on-site work.

"Operation/Stop" mode or "Forced stop" mode can be selected with function setting of indoor unit.

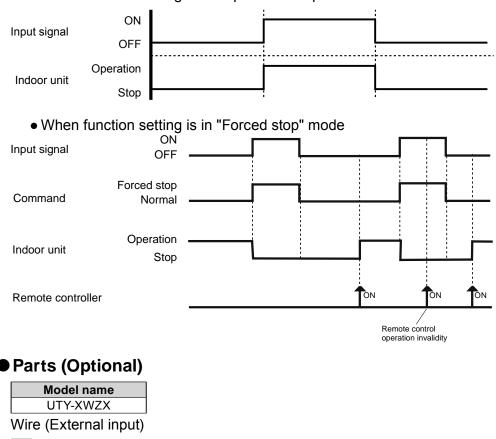
Unit operation is started at the following contents by adding the contact input of a commercial ON/OFF switch to a connector on the external control PC board and turning it ON.

Unit operation	Unit operation Initial setting after power is ON	
Operation mode	Auto changeover	Mode at previous operation
Set temperature	24°C	Temperature at previous operation
Air flow mode	AUTO	Mode at previous operation
Up-down air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation
Left-right air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation

Circuit diagram example



• When function setting is in "Operation/Stop" mode

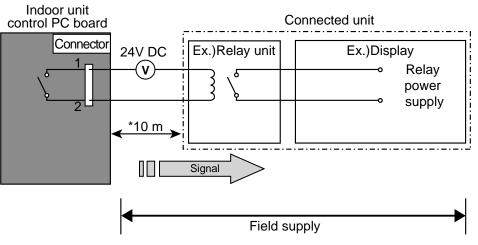


11-2. EXTERNAL OUTPUT

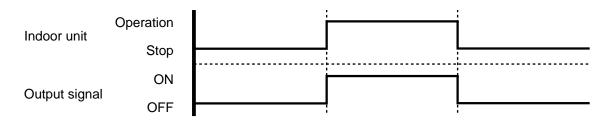
■ OPERATION STATUS OUTPUT

An air conditioner operation status signal can be output.

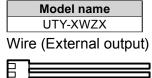
Circuit diagram example



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







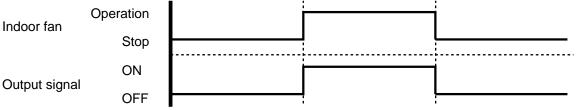
■ FRESH AIR CONTROL OUTPUT

• Circuit diagram example

A signal linked to air conditioner indoor fan ON can be output.

* However, signal becomes OFF during cold air prevention control operation.

Indoor unit Connected unit control PC board Ex.) Fan Ex.) Relay unit 12 V Connector Relay power supply on/off *10 m Signal Field supply * Make the distance from the PC board to the connected unit within 10m. Relay spec. : Rated 12VDC, 50mA or less.



Parts (Optional)

The table below outlines the required wire in diffrent fresh air intake options.

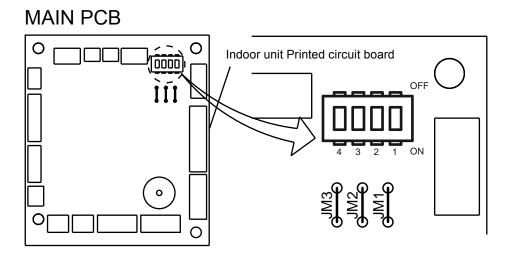
	No Fresh air intake	Built in Fresh air inlet	Fresh air intake kit	
Wire required	N/A	UTD-ECS5A	Wire included in UTZ-VXGA	
	L			

Note: This wire is included in both Fresh air intake kit (UTZ-VXGA) and External control set (UTD-ECS5A).

12. FUNCTION SETTINGS 12-1. INDOOR UNIT

	INDOOR UNIT			
	1			
DIP SW	2	Pomoto controllor address potting		
	3	Remote controller address setting		
	4			
	JM1			
Jumper Wire	JM2	Setting forbidden		
	JM3			

SWITCH POSITION



■ DIP-SW SETTING

Remote controller address setting

A number of indoor units can be operated at the same time using a wired remote controller. Set the unit number of each indoor unit using the DIP switches on the indoor unit circuit board. (See the following table.)

			(♦ Fact	ory setting)
Remote controller address	DIP switch No.			
Remote controller address	1	2	3	4
00	OFF	OFF	OFF	OFF
01	ON	OFF	OFF	OFF
02	OFF	ON	OFF	OFF
03	ON	ON	OFF	OFF
04	OFF	OFF	ON	OFF
05	ON	OFF	ON	OFF
06	OFF	ON	ON	OFF
07	ON	ON	ON	OFF
08	OFF	OFF	OFF	ON
09	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON



12-2. INDOOR UNIT (Setting by remote controller)

- The function settings of the control of the indoor unit can be changed by this procedure according to the installation conditions. Incorrect settings can cause the indoor unit to malfunction.
- After the power is turned on, perform the Function Setting according to the installation conditions using the remote controller.
- The settings may be selected between the following two: Function Number or Setting Value.
- · Settings will not be changed if invalid numbers or setting values are selected.

PREPARATION

• Turn on the power.

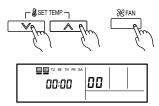
* Before turning on the power of the indoor units, make sure the piping air-tight test and vacuuming have been conducted.

* Also check again to make sure no wiring mistakes were made before turning on the power.

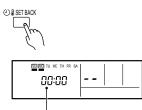
FUNCTION SETTING METHOD (for Wired remote controller)

Setting method

(1) Press the SET TEMP. buttons (♥) (∧) and FAN button simultaneously for more than 5 seconds to enter the function setting mode.

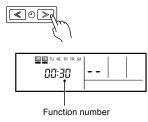


(2) Press the SET BACK button to select the indoor unit number.



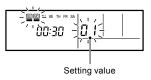
Unit number of INDOOR UNIT

(3) Press the Set time buttons to select the function number.



(4) Press the SET TEMP. buttons (\heartsuit) (\land) to select the setting value. The display flashes during setting value selection.





- (5) Press the TIMER SET button to confirm the setting. Press the TIMER SET button for a few seconds until the setting value stops flashing. If the setting value display changes or if "- -" is displayed when the flashing stops, the setting value has not been set correctly. (An invalid setting value may have been selected for the indoor unit.)
- (6) Repeat steps 2 to 5 to perform additional settings. Press the SET TEMP. buttons (♥) (♠) and FAN button simultaneously again for more than 5 seconds to cancel the function setting mode. In addition, the function setting mode will be automatically canceled after 1 minute if no operation is performed.
- (7) After completing the Function Setting, be sure to turn off the power and turn it on again.

 After turning off the power, wait 30 seconds or more before turning on it again. The Function Setting will not become active unless the power is turned off then on again.

■ CONTENTS OF FUNCTION SETTING

- Follow the instructions in the Local Setup Procedure, which is supplied with the remote control, in accordance with the installed condition.
- After the power is turned on, perform the Function Setting on the remote control.
- The settings may be selected between the following two: Function Number or Setting Value.
- · Settings will not be changed if invalid numbers or setting values are selected.

1)	Filter sign
2)	Ceiling height
3)	Outlet directions
4)	Vertical wind direction adjustment range
5)	Cooler room temperature correction
6)	Heater room temperature correction
7)	Auto restart
8)	Indoor room temperature sensor switching function
9)	Remote controller signal code
10)	External input control
11)	Indoor unit fan control for energy saving

1) Filter sign

The indoor unit displays a sign to inform the user that it is time to clean the filter. Select the time setting for the filter sign display interval in the table below according to the amount of dust or debris in the room. If you do not wish the filter sign to be displayed, select the setting value for "No indication".

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
	"Standard (2,500 hours)"		00
	"Long interval (4,400 hours)"	11	01
	"Short interval (1,250 hours)"		02
•	No indication		03

2) Ceiling height

Select the setting values in the table below according to the height of the ceiling.

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
•	Standard 3.2m		00
	High ceiling 4.2m	20	01
	Low ceiling 2.7m		02

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

3) Outlet directions

Select the setting values in the table below when using a 3-way outlet.

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
•	4-way	22	00
	3-way		01

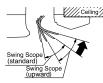
4) Vertical wind direction adjustment range

The use of "upward" is recommended if you wish to prevent draft.

Note that the ceiling may become dirty depending on your usage condition. To prevent this, we recommend the use of the optional "PANEL SPACER KIT".

			(♦Factory setting)
•	Setting Description	Function Number	Setting Value
	Standard	22	00
	Upward	23	01

We recommend the use of "Upward" when using the "High ceiling mode".



5) Cooler room temperature correction

Depending on the installed environment, the room temperature sensor may require a correction. The settings may be selected as shown in the table below.

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
٠	Standard		00
	Slightly lower control	30	01
	Lower control] 30	02
	Warmer control		03

6) Heater room temperature correction

Depending on the installed environment, the room temperature sensor may require a correction. The settings may be changed as shown in the table below.

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
٠	Standard		00
	Lower control	31	01
	Slightly warmer control	31	02
	Warmer control		03

7) Auto restart

Enable or disable automatic system restart after a power outage.

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
•	Yes	40	00
	No		01

* Auto restart is an emergency function such as for power failure etc. Do not start and stop the indoor unit by this function in normal operation. Be sure to operate by using the remote controller or external input device.

8) Indoor room temperature sensor switching function

(Only for Wired remote controller)

The following settings are needed when using the control by Wired remote controller temperature sensor.

			(♦Factory setting)
	Setting Description	Function Number	Setting Value
•	No	42	00
	Yes		01

* If setting value is "00",

room temperature is controlled by the indoor unit temperature sensor.

* If setting value is "01", room temperature is controlled by either indoor unit temperature sensor or remote controller unit sensor.

9) Remote controller signal code

Change the indoor unit Signal Code, depending on the remote controllers.

TYPE LRLA

	Setting Description	Function Number	Setting Value		
٠	A		00		
	В	44	01		
	С		02		
	D		03		

10) External input control

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

			(♦ Factory setting)
	Setting description	Function number	Setting value
٠	Operation/Stop mode		00
-	(Setting forbidden)	46	01
	Forced stop mode		02

11) Indoor unit fan control for energy saving (Only cooling mode)

Enable or disable indoor unit fan control when the outdoor unit is stopped.

			(♦ Factory setting)
	Setting description	Function number	Setting value
	No	49	00
٠	Yes	49	01

*If setting value is "00":

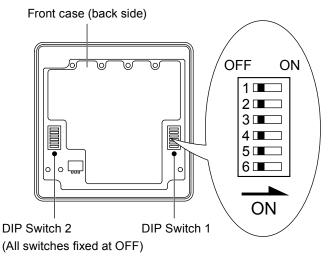
When the outdoor unit is stopped, the indoor unit fan operates following the setting on the remote controller continuously.

*If setting value is "01":

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

12-3. WIRED REMOTE CONTROLLER

■ SWITCH POSITION



■ DIP SWITCH 1 SETTING

	SW1	Forbidden*
	SW2	Dual remote controller setting
DIP Switch 1	SW3	Forbidden*
	SW4	Forbidden*
	SW5	Forbidden*
	SW6	Memory backup setting

*Switches are fixed at OFF.

- - 11

• Dual remote controller setting

Set the remote controller SW2 according to the following table.

			(♦ ···· Factory setting)
	Number of remote	Primary unit	Secondary unit
	controller	SW2	SW2
٠	1 (Normal)	OFF	—
	2 (Dual)	OFF	ON

Memory backup setting

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

.

		(♥···· Factory setting)
	SW6	Memory backup
٠	OFF	Invalidity
	ON	Validity

13. OPTIONAL PARTS 13-1. CONTROLLER

CASSETTE TYPE AU*G45-54LRLA

Exterior	Parts name	Model No.	Summary
	Wired remote controller	UTY-RVN*M	Large and full-dot liquid crystal screen, wide and large keys easy to press, user-intuitive arrow key.
	Wired remote controller	UTY-RNN*M	The room temperature can be controlled by detecting the temperature accurately with built-in thermo sensor.
	IR receiver kit	UTY-LRH*A2	Unit control is performed by wireless remote controller.
	Simple remote controller	UTY-RSN*M	Compact remote controller concentrates on the basic functions such as Start/Stop, Fan Control, Temperature Setting and Operation mode.

13-2. CASSETTE GRILLE

Exterior	Parts name	Model No.	Summary
	Cassette grille	UTG-UG*A-W	The form of the grille discharges wind away from the ceiling making it difficult to leave dirt marks.

13-3. OTHERS

CASSETTE TYPE AU*G45-54LRLA

Exterior	Parts name	Model No.	Summary
	Air outlet shutter plate	UTR-YDZC	Air outlet shutter plate is installed at the air outlet when 3-way direction is performed.
	Wide panel	UTG-AGYA-W	Wide panel hides the gap between the ceiling hole and the Cassette grille.
	Panel spacer	UTG-BGYA-W	Installation in a space of 256mm or greater is possible by using panel spacer when the height behind the ceiling is low. (Normal installation height behind the ceiling is 298mm.)
	Insulation kit for high humidity	UTZ-KXGA	Install when the condition under the roof is expected to have humidity of over 80% and temperature of over 30°C.
	External connect kit	UTY-XWZX	Use to connect with various peripheral devices and air conditioner PC board.
(x1) (x2) (x1) (x2)	External control set	UTD-ECS5A	Use to connect with various peripheral devices and air conditioner PC board. (Set of 6)
	Fresh air intake kit	UTZ-VXGA	Enables to take in fresh air of up to 10% of "high" air volume of the indoor unit by attaching the Fresh air intake kit.

2. OUTDOOR UNIT

SINGLE TYPE : AO*G45LETL AO*G54LETL

> DTR_AO136E_01 2013.02.22

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2. OUTDOOR UNIT

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1. FEATURE ■ FEATURES

Peak cut operation

Peak cut mode

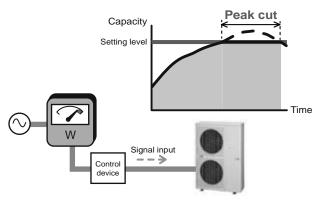
Suppresses maximum capacity to perform energy-saving operation, preventing breaker tripping. This function operates by setting a peak current value and reducing the power consumption. * Performance drops by reducing the power consumption preferentially.

Level 1 ... Suppresses the power consumption to almost 0% by stopping the compressor.

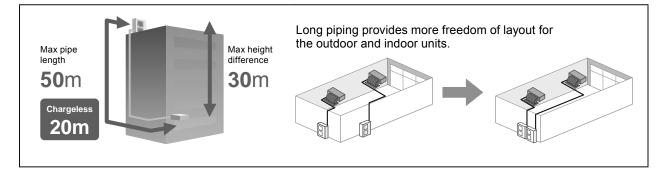
Level 2 \ldots Suppresses the power consumption to 50% of the rated power consumption value.

Level 3 \ldots Suppresses the power consumption to 75% of the rated power consumption value.

Level 4 ... Suppresses the power consumption to the rated power consumption value (100%).



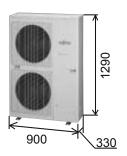
High installation capability long piping correspondence



Compact size

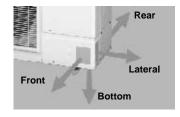
High performance has been realized with a compact outdoor unit.

Due to the compact size, the space required for installation has been reduced, allowing a wider selection of installation locations.



• 4-direction piping connection

Piping is connectable in any of the four directions. The perfect route can be selected according to the installation.



• Low outdoor air temperature correspondence

Both cooling and heating operations can be performed when the outdoor air temperature is low.



• External output (option)

Compressor status output

This output indicates the outdoor unit compressor status.

Blue fin heat exchanger

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

Aluminium base material





• Quiet operation

Low noise mode

Suppresses operating sound.

This function suppresses the outdoor unit noise value to the following 2 levels.

* Performance may drop depending on the outside air temperature condition, etc.

Level 1 ... Rated noise value -2dB Level 2 ... Rated noise value -4dB

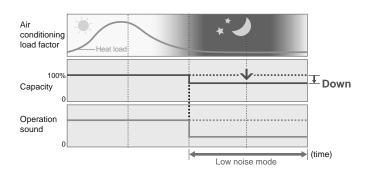
Error status output

This output indicates the Normal / Error status of the outdoor unit and connected indoor unit.

• Service, maintenance

- "Error display" and "Operating information" can be explained by LED display.
- Pump down operation can be performed by one button during refrigerant recovery.





2. SPECIFICATIONS

Power source 10/230V-50Hz Available voltage range 198-264V-50Hz Starting current A 18.9 20.9 Fan Ariflow Type x O'ty Cooling (m³/h) 6,750 6,750 Fan Cooling (beta of the time) 0 6,750 6,750 Ype x O'ty Type x O'ty Propeller x 2 Propeller x 2 Motor output W 104 104 Sound pressure level Cooling Heating MB(A) 55 55 Motor output W 104 104 104 Sound pressure level Cooling Heating MB(A) 55 57 Motor output W N D) mm 1.30 7 Net Type (Material) Corrugate (Aluminium) 1.30 Compressor Type x O'ty Type (Material) Corrosion resistance (Blue fin) Compressor Type (Global Warming Potential) R410A (1975) 1.410A (1975) Charge g 3350 1.410A (1975) 1.410A (1975) Consure	Nodel name		AO*G45LETL AO*G54LETL					
Starting current A 18.9 20.9 Fan Airflow rate Cooling Heating (m³/h) 6,750 6,750 Type × Q*ty Motor output W 104 6,750 6,850 Sound pressure level Cooling Heating W 104 104 Sound pressure level Cooling Heating MB(A) 55 55 Dimensions (H × W × D) Fin pitch mm 1260 × 900 × 36.4 57 Bring itch Tippe (Material) Corrugate (Aluminium) 55 57 Fin pitch mm 1.30 70 70 70 Rows x Stages 2 × 60 2 × 60 70 70 70 Fin type Type (Material) Corrugate (Aluminium) 70 70 70 Compressor Type < Q'ty Motor output W 2100 70 70 70 Refrigerant Type (Global Warming Potential) Charge g 3550 86 86 86 Enclosure Material Steel sheet 8168 <	Power source					1Ø 230V~ 50Hz		
Fan Airflow rate Cooling Heating (m³/h) 6,750 6,750 Type × Q'ty Propeller × 2 Propeller × 2 Propeller × 2 6,850 Sound pressure level Cooling Heating W 104 104 Sound pressure level Cooling Heating dB(A) 55 55 Motor output W 104 55 57 Dimensions (H × W × D) mm 1260 × 900 × 36.4 57 Fin pitch mm 1.30 6,750 57 Rows x Stages 2 × 60 2 × 60 2 × 60 6,750 Pipe type Type (Material) Corrugate (Aluminium) 56 57 Compressor Type × Q'ty Type (Internation) 56 57 Refrigerant Type (Global Warming Potential) R410A (1975) 6 6 Colour Colour Weithaterial Steel sheet 56 57 Dimensions (H×W×D) Gross mm 1290 × 900 × 330 6 6 Weight Net	Available voltage r					198-264	V~ 50Hz	
Fan Itate Heating (m'/n) 6,200 6,850 Type × Q'ty Propeller × 2 Propeller × 2 Propeller × 2 Motor output W 104 104 Sound pressure level Cooling dB(A) 55 55 Heating Dimensions (H × W × D) mm 1.30 77 Heat exchanger type Rows x Stages 2 × 60 2 × 60 77 Pipe type Corrugate (Aluminum) Surface treatment Corrugate (Aluminum) 70 Compressor Type × Q'ty Twin Rotary × 1 Twin Rotary × 1 70 Compressor Type (Global Warming Potential) R410A (1975) R410A (1975) Refrigerant Type Refriderial Steel sheet Enclosure Material Steel sheet 8E/GE Colour (Approximate colour of MUNSELL 10YR 7.5 / 1.0) 0 Dimensions (H × W × D) Gross mm 1430 × 1050 × 445 Weight Size kg 36 Gross kg 94	Starting current	starting current			A	18.9	20.9	
Fan Itale Heating Mode 6,200 6,850 Type × Q'ty Propeller × 2 Propeller × 2 Propeller × 2 Sound pressure level Cooling dB(A) 55 55 Motor output W × D) mm 1260 × 900 × 36.4 57 Heat exchanger type Fin pitch mm 1260 × 900 × 36.4 57 Pipe type Coopper Coopper Copper 6,000 6,000 Fin type Type (Material) Corrugate (Aluminium) Corrugate (Aluminium) 6,000 Compressor Type X Q'ty W 2×60 7 7 Motor output W Corrugate (Aluminium) 7 7 7 Refrigerant Type X Q'ty W 2100 7 7 7 Refrigerant oil Type (Global Warming Potential) R410A (1975) 7 7 7 7 Colour Colour Colour Gross Material Steel sheet 8 8 8 6 7 </td <td></td> <td>Airflow</td> <td>Cooling</td> <td></td> <td>(m^3/h)</td> <td>6,750</td> <td>6,750</td>		Airflow	Cooling		(m^3/h)	6,750	6,750	
Type × City Propeller × 2 Motor output W 104 104 Sound pressure level Cooling Heating dB(A) 55 55 Heating Dimensions (H × W × D) mm 1260 × 900 × 36.4 57 Heat exchanger type Fin pitch mm 1.30 60 Revs Stages 2 × 60 2 × 60 60 Pipe type Copper Copper 60 Fin type Type (Material) Corrugate (Aluminium) 60 Compressor Type × Q'ty Type (Material) Corruspate (Aluminium) 70 Compressor Type x Q'ty W Quoto 70 70 Refrigerant Type (Global Warming Potential) R410A (1975) 71 71 Refrigerant oil Type Type Refrigerant Steel sheet 886 Enclosure Material Steel sheet 1290 × 900 × 330 71 (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions Net mm 1290 × 900 × 330 71 (Approximate colour of MUNSELL 1	Fan	rate	Heating			6,200	6,850	
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Heating 55 57 Heating 1260 × 900 × 36.4 1.30 Fin pitch mm 1.30 Rows x Stages 2 × 60 Pipe type Copper Fin type Type (Material) Corrugate (Aluminium) Compressor Type x Q'ty Twin Rotary × 1 Refrigerant Type (Global Warming Potential) R410A (1975) Refrigerant oil Type g 3350 Refrigerant oil Type Refrial Steel sheet Colour Material Steel sheet BEIGE Colour Material Steel sheet 1430 × 1050 × 445 Weight Net mm 1430 × 1050 × 445 Weight Size Liquid mm 09.52 (Ø 3/8 in.) Gross Liquid mm Q.9.52 (Ø 3/8 in.) 0 Gross Liquid mm Flare 0	Cooling			55	55			
Heat exchanger type Fin pitch mm 1.30 Rows x Stages 2 × 60 Pipe type Copper Fin type Type (Alterial) Surface treatment Corrosion resistance (Blue fin) Compressor Type × Q'ty Twin Rotary × 1 Motor output W 2100 Refrigerant Type (Global Warming Potential) R410A (1975) Charge g 3350 Refrigerant oil Type RB68 Enclosure Material Steel sheet Colour Colour (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions (H×W×D) Gross mm 1290 × 900 × 330 Weight Net g 86 Gross kg 94 Size Liquid mm Ø 9.52 (Ø 3/8 in.) Gas mm Q 9.52 (Ø 3/8 in.)	Sound pressure level Heating			55	57			
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Heat exchanger type Pipe type Copper Fin type Type (Material) Corrugate (Aluminum) Compressor Type × Q'ty Twin Rotary × 1 Compressor Type (Global Warming Potential) W Refrigerant Type (Global Warming Potential) R410A (1975) Refrigerant oil Type g Refrigerant oil Type RB68 Enclosure Material Steel sheet Colour Colour BEIGE (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions (H×W×D) Net mm 1290 × 900 × 330 Weight Net g 94 Size Liquid Gas mm Ø 9.52 (Ø 3/8 in.) Method Flare Flare				1 """	1.:	30		
Pipe type Copper Fin type Type (Material) Corrugate (Aluminium) Compressor Type × Q'ty Twin Rotary × 1 Motor output W 2100 Refrigerant Type (Global Warming Potential) R410A (1975) Charge g 3350 Refrigerant oil Type Material Enclosure Material Steel sheet Colour Colour BEIGE (H×W×D) Gross mm Net 1430 × 1050 × 4455 Weight Net 86 Size Liquid mm Size Liquid mm Method Flare			Rows x Sta	iges		2 ×	60	
Fin type Surface treatment Corrosion resistance (Blue fin) Compressor Type × Q'ty Twin Rotary × 1 Motor output W 2100 Refrigerant Type (Global Warming Potential) R410A (1975) Charge g 3350 Refrigerant oil Type RB68 Enclosure Material Steel sheet Colour Colour (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions Net 1290 × 900 × 330 (H×W×D) Gross mm 1290 × 900 × 330 Weight Net 86 Gross kg 94 Size Liquid mm Ø 9.52 (Ø 3/8 in.) Method Flare Flare	•		Pipe type			Сор	oper	
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Charge g 3350 Refrigerant oil Type RB68 Enclosure Material Steel sheet Colour Colour BEIGE (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions (H×W×D) Net mm 1290 × 900 × 330 Weight Net gross mm Size Liquid mm 09.52 (Ø 3/8 in.) Gross mm Ø 9.52 (Ø 3/8 in.) Flare	Type (Global Warming Potential)			R410A (1975)				
Material Steel sheet Enclosure Colour BEIGE (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions (H×W×D) Net mm 1290 × 900 × 330 Weight Net mm 1430 × 1050 × 445 Weight Net 86 Size Liquid mm Ø 9.52 (Ø 3/8 in.) Method mm Ø 15.88 (Ø 5/8 in.)	Retriderant		g	3350				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Refrigerant oil		Туре			RB68		
Colour (Approximate colour of MUNSELL 10YR 7.5 / 1.0) Dimensions (H×W×D) Net mm 1290 × 900 × 330 Weight Net 1430 × 1050 × 445 Weight Net 86 Gross y 94 Size Liquid mm Ø 9.52 (Ø 3/8 in.) Method Flare Flare			Material					
Net mm 1290 × 900 × 330 (H×W×D) Gross 1430 × 1050 × 445 Weight Net 86 Gross 94 Size Liquid mm Method 09.52 (Ø 3/8 in.) Flare Flare	Enclosure		Colour			BE	IGE	
(H×W×D) Gross mm 1430 × 1050 × 445 Weight Net 86 Gross 94 Size Liquid mm Gas 09.52 (Ø 3/8 in.) Method Flare			Coloui					
Image: Met part of the system Im		Net				1290 × 900 × 330		
Weight Gross kg 94 Size Liquid mm Ø 9.52 (Ø 3/8 in.) Gas Method Flare				1430 × 1050 × 445				
Gross Junit Gross 94 Size Liquid mm Ø 9.52 (Ø 3/8 in.) Gas 0 15.88 (Ø 5/8 in.) Flare	Net		ka	86				
Connection pipe	Gross		_ ∿g	9	94			
Connection pipe		Sizo	Size			Ø 9.52 (Ø 3/8 in.)		
	Connection nine	3120				Ø 15.88 (Ø 5/8 in.)		
Connection pipe Bro shares longth		Method				Flare		
	Connection pipe	Pre-charge length				20		
Max. length m 50		Max. length	Max. length			5	0	
Max. height difference 30					30			
Operation range Cooling °C -15 to 46	Operation range		Cooling		•	-15 t	o 46	
Operation range °C -15 to 40	Operation range		Heating			-15 t	o 24	

OUTDOOR UNIT AO*G45-54LETL

Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27 °CDB / 19 °CWB and outdoor temperature of 35 °CDB/24 °CWB. Heating : Indoor temperature of 20 °CDB / 15 °CWB and outdoor temperature of 7 °CDB/6 °CWB. Pipe length : 5 m, Height difference : 0 m.(Outdoor unit - Indoor unit) The protective function may work when using it outside the operation range.

3. DIMENSIONS ■ MODELS: AO*G45LETL, AO*G54LETL

119

38 (Liquid) 46 (Gas) (370)

40

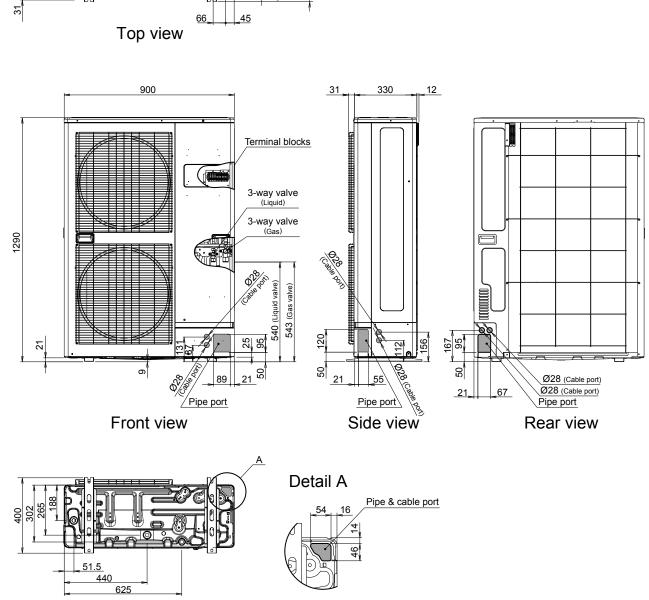
650

132

LE A

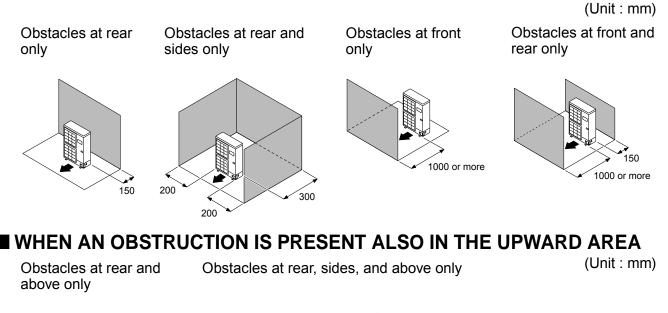
330

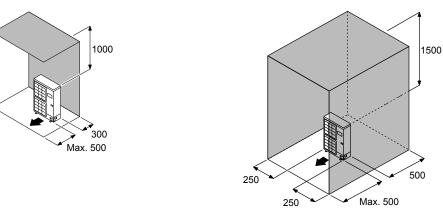
(Unit : mm)



Bottom view

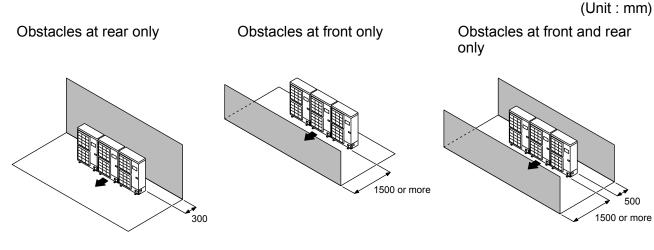
4. INSTALLATION PLACE 4-1. SINGLE OUTDOOR UNIT INSTALLATION ■ WHEN THE UPWARD AREA IS OPEN



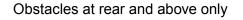


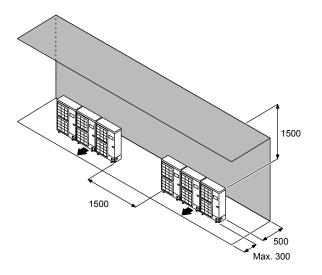
If the space is larger than stated, the condition will be the same as those without any obstacles.

4-2. MULTIPLE OUTDOOR UNIT INSTALLATION ■ WHEN THE UPWARD AREA IS OPEN



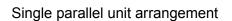
WHEN AN OBSTRUCTION IS PRESENT ALSO IN THE UPWARD AREA



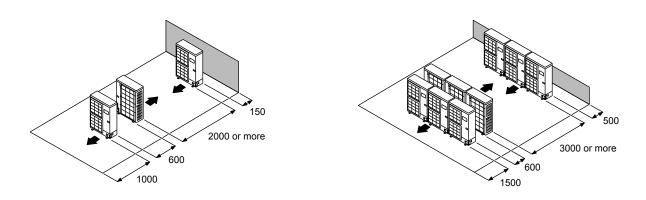


4-3. OUTDOOR UNIT INSTALLATION IN MULTI ROW

(Unit : mm)

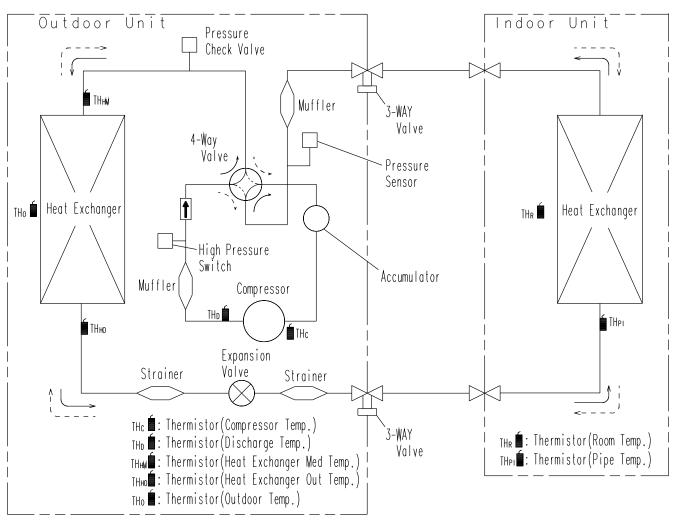


Multiple parallel unit arrangement



If the space is larger than stated, the condition will be the same as those without any obstacles.

5. REFRIGERANT CIRCUIT MODELS: AO*G45LETL, AO*G54LETL

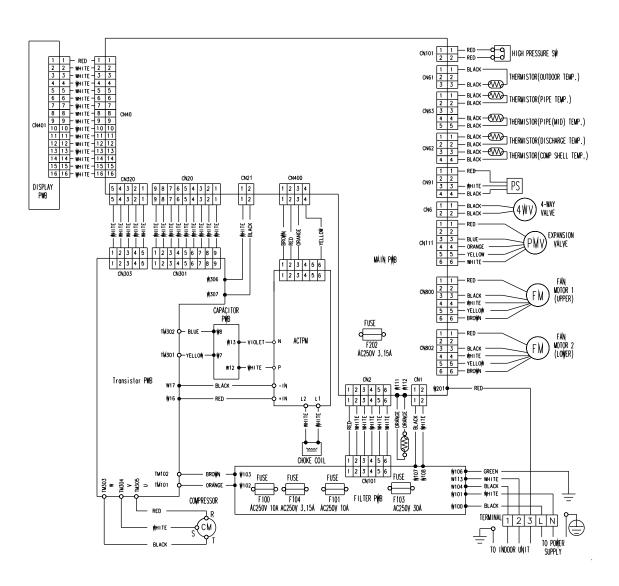


Refrigerant direction

- ___→ Cooling
- ---> Heating

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

6. WIRING DIAGRAMS ■ MODELS: AO*G45LETL, AO*G54LETL

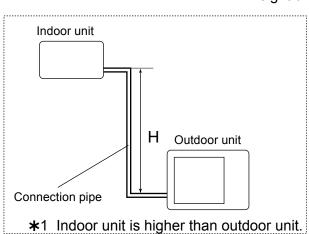


7. CAPACITY COMPENSATION RATE FOR PIPE LENGTH AND HEIGHT DIFFERENCE

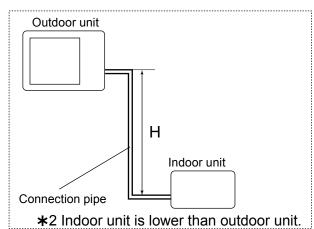
■ MODEL: AO*G45LETL

COOLING				Pipe length (m)							
	COOLING			7.5	10	20	30	40	50		
		30	-	-	-	-	0.879	0.846	0.814		
	*1	20	-	-	-	0.926	0.893	0.861	0.828		
	Indoor unit is higher than	10	-	-	0.975	0.942	0.908	0.875	0.841		
	outdoor unit.	7.5	-	0.988	0.979	0.946	0.912	0.878	0.845		
Height		5	0.992	0.992	0.983	0.949	0.916	0.882	0.848		
difference H		0	1.000	1.000	0.991	0.957	0.923	0.889	0.855		
(m)		-5	1.000	1.000	0.991	0.957	0.923	0.889	0.855		
	★2 Indoor unit is lower than	-7.5	-	1.000	0.991	0.957	0.923	0.889	0.855		
		-10	-	-	0.991	0.957	0.923	0.889	0.855		
	outdoor unit.	-20	-	-	-	0.957	0.923	0.889	0.855		
		-30	-	-	-	_	0.923	0.889	0.855		

			Pipe length (m)						
	HEATING		5	7.5	10	20	30	40	50
		30	-	-	-	-	0.978	0.968	0.958
	*1	20	-	-	-	0.988	0.978	0.968	0.958
	Indoor unit is higher than	10	-	-	0.998	0.988	0.978	0.968	0.958
	outdoor unit.	7.5	-	1.000	0.998	0.988	0.978	0.968	0.958
Height		5	1.000	1.000	0.998	0.988	0.978	0.968	0.958
difference H		0	1.000	1.000	0.998	0.988	0.978	0.968	0.958
(m)		-5	0.998	0.995	0.993	0.983	0.973	0.963	0.953
	*2	-7.5	-	0.993	0.991	0.981	0.971	0.961	0.951
	Indoor unit is lower than	-10	-	-	0.988	0.978	0.968	0.958	0.948
	outdoor unit.	-20	-	-	-	0.968	0.958	0.949	0.939
		-30	-	-	-	-	0.949	0.939	0.929



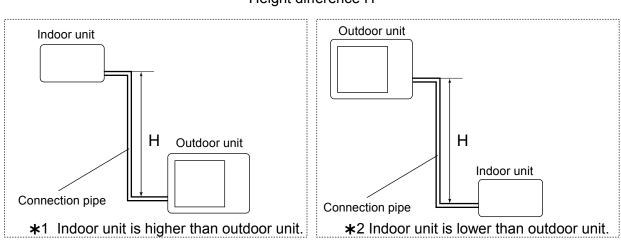
Height difference H



■ MODEL: AO*G54LETL

COOLING		Pipe length (m)							
	COOLING		5	7.5	10	20	30	40	50
		30	-	-	-	-	0.871	0.837	0.803
	*1	20	-	-	-	0.921	0.886	0.851	0.816
	Indoor unit is higher than	10	-	-	0.971	0.936	0.900	0.865	0.830
	outdoor unit.	7.5	-	0.988	0.975	0.940	0.904	0.868	0.833
Height		5	0.992	0.992	0.979	0.943	0.908	0.872	0.836
difference H		0	1.000	1.000	0.987	0.951	0.915	0.879	0.843
(m)		-5	1.000	1.000	0.987	0.951	0.915	0.879	0.843
	*2	-7.5	-	1.000	0.987	0.951	0.915	0.879	0.843
	Indoor unit is lower than	-10	-	-	0.987	0.951	0.915	0.879	0.843
	outdoor unit.	-20	-	-	-	0.951	0.915	0.879	0.843
		-30	-	-	-	-	0.915	0.879	0.843

			Pipe length (m)						
	HEATING		5	7.5	10	20	30	40	50
		30	-	-	-	-	0.978	0.968	0.958
	*1	20	-	-	-	0.988	0.978	0.968	0.958
	Indoor unit is higher than	10	-	-	0.998	0.988	0.978	0.968	0.958
	outdoor unit.	7.5	-	1.000	0.998	0.988	0.978	0.968	0.958
Height		5	1.000	1.000	0.998	0.988	0.978	0.968	0.958
difference H		0	1.000	1.000	0.998	0.988	0.978	0.968	0.958
(m)		-5	0.998	0.995	0.993	0.983	0.973	0.963	0.953
	*2	-7.5	-	0.993	0.991	0.981	0.971	0.961	0.951
	Indoor unit is lower than	-10	-	-	0.988	0.978	0.968	0.958	0.948
	outdoor unit.	-20	-	-	-	0.968	0.958	0.949	0.939
		-30	-	-	-	-	0.949	0.939	0.929



Height difference H

8. ADDITIONAL CHARGE CALCULATION ■ MODELS: AO*G45LETL, AO*G54LETL

Refrigerant type		R410A
Refrigerant amount	g	3350

• Refrigerant Charge

Total pipe length	m	20 or less	30	40	50 (MAX)	10 a/m
Additional charge	g	0	400	800	1200	40g/m

9. AIRFLOW

■ MODELS: AO*G45LETL, AO*G54LETL

Cooling

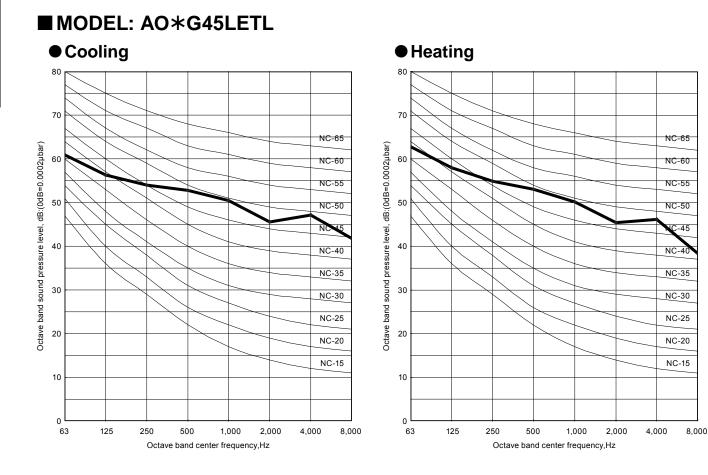
OUTDOOR UNIT AO*G45-54LETL

MODEL		Number of rotations (r.p.m.)	Airflow	
	Upper fan	850	m³/h	6750
AO*G45LETL			l/s	1875
	Lower fan	800	CFM	3974
	Upper fan	850	m³/h	6750
AO * G54LETL	opportion.		l/s	1875
	Lower fan	800	CFM	3974

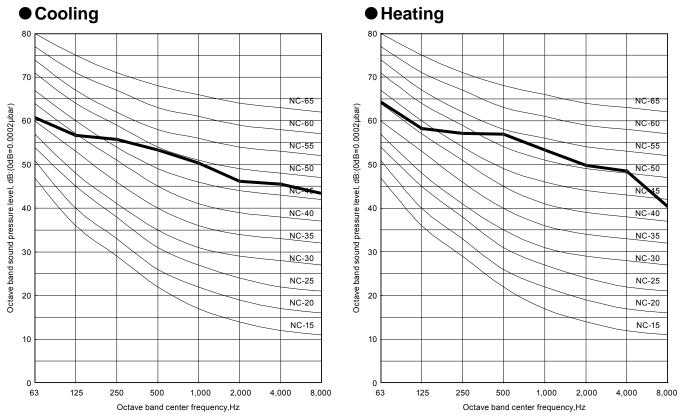
Heating

MODEL		Number of rotations (r.p.m.)	Airflow		
Upper fan		780	m³/h	6200	
AO*G45LETL			l/s	1722	
	Lower fan	750	CFM	3650	
	Upper fan		m³/h	6850	
AO*G54LETL			l/s	1903	
	Lower fan	830	CFM	4033	

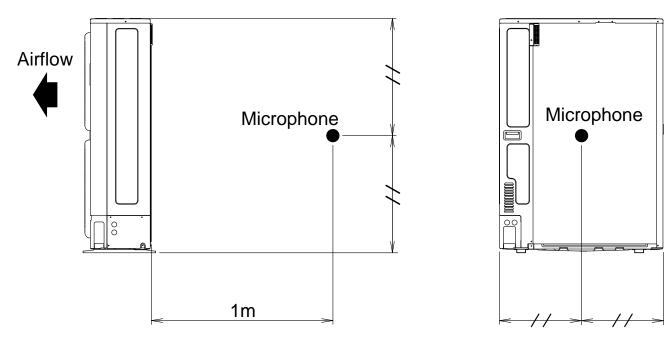
10. OPERATION NOISE (SOUND PRESSURE) 10-1. NOISE LEVEL CURVE



MODEL: AO*G54LETL



10-2. SOUND LEVEL CHECK POINT



11. ELECTRIC CHARACTERISTICS

Model name			AO*G45LETL	AO*G54LETL
Dowor gupply	Power supply Voltage V Frequency Hz		230 ~	
			50	
*1) Max. operating current		A	22.5	23.5
	Main fuse (Circuit breaker)	_	30	
*2) Wiring spec.	Current	A		
Power cable m		mm ²	6.0	

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

*2) Wiring spec. :

OUTDOOR UNIT AO*G45-54LETL

Selected sample (Selected based on Japan Electrotechnical Standards and Codes Committee E0005)

12. SAFETY DEVICES

	Protection form	Model		
	FIOLECLIOITIOITI	AO*G45LETL	AO*G54LETL	
	Current fuse	250\/ 20 4 250\/ 1	0A x2, 250V 3.15A	
Circuit protection	(Filter printed circuit board)	250V 50A, 250V 1	UA X2, 250V 5.15A	
Circuit protection	Current fuse	250\/	3.15A	
	(Main printed circuit board)	2500	5.15A	
Fan motor protector	Thermal protector	OFF : 1	50±15°C	
		ON : 120±15°C		
	Thermal protection program	OFF : 108°C		
Comprosport protoction	(Compressor temp.)	ON :	80°C	
Compressor protection	Thermal protection program	OFF :	110°C	
	(Discharge temp.)	ON : After 7 minutes		
High proceure protection	Pressure switch	OFF : 4.2	2±0.1MPa	
High pressure protection	Flessule switch	ON : 3.2±	0.15MPa	
Low process protection	Dragouro geneer	OFF : 0	.12MPa	
Low pressure protection	Pressure sensor	ON : 0.15MPa		

13. EXTERNAL INPUT & OUTPUT

Input	Output	Connector	Remarks
Low noise mode	_	CN10	
Peak cut mode	_	CN11	See external
_	Error status	CN12	input/output settings for details.
_	Compressor status	CN13	ior details.

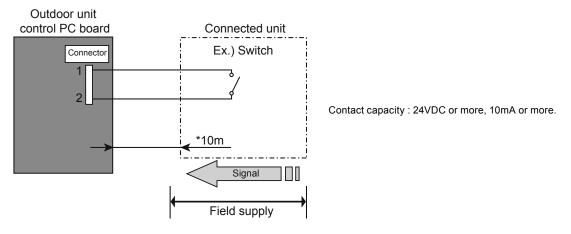
13-1. EXTERNAL INPUT

ON/OFF of the "Low noise mode" and "Peak cut mode" functions can be specified by external signal.

LOW NOISE MODE

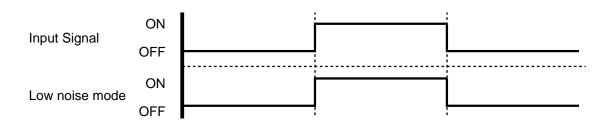
- The following reduces the operating sound of the outdoor unit from the normal sound. The air conditioner is set to the "Low noise mode" when closing the contact input of a commercial timer or ON/OFF switch to a connector on the outdoor control PC board.
- * Performance may drop depending on the outside air temperature condition, etc.

• Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.

- Use the following parts and construct a circuit as shown above.
- Input Signal--ON : Low noise mode, Input Signal--OFF : Normal operation
- *To set the "Low noise mode" level, refer to "13.FUNCTION SETTINGS".



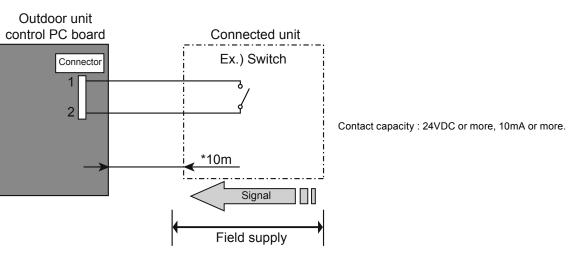
Parts name	External connect kit
Model name	UTY-XWZXZ3



PEAK CUT MODE

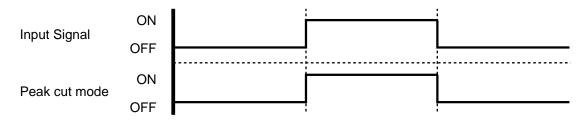
• Operation that suppressed the current value can be performed by means of the following onsite work. The air conditioner is set to the Peak cut mode when closing the contact input of a commercial ON/OFF switch to a connector on the outdoor control PC board.

• Circuit diagram example

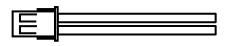


* Make the distance from the PC board to the connected unit within 10m.

- Use the following parts and construct a circuit as shown above.
- Input Signal···ON : Peak cut mode, Input Signal···OFF : Normal operation
- *To set the "Peak cut mode" level, refer to "13.FUNCTION SETTINGS".



Parts name	External connect kit
Model name	UTY-XWZXZ3



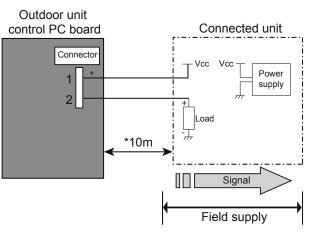
13-2. EXTERNAL OUTPUT

ERROR STATUS OUTPUT

• An air conditioner error status signal is produced when a malfunction occurs.

• Circuit diagram example

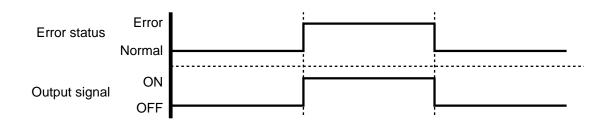
OOR UNIT 345-54LETL

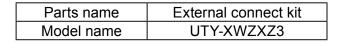


1) Power supply •Voltage (Chart sign=Vcc) : DC 24V or less 2) Load

•Load : DC 500mA or less is recommended

* Make the distance from the PC board to the connected unit within 10m.



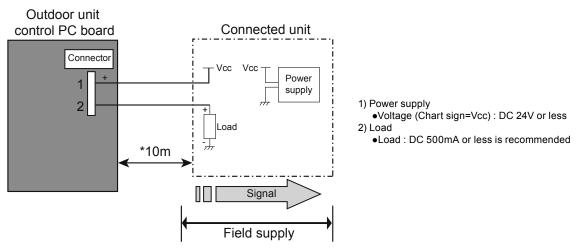




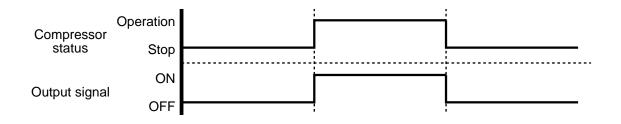
■ COMPRESSOR STATUS OUTPUT

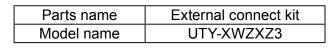
• Compressor operation status signal is produced when the compressor is running.

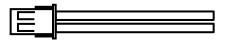
• Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.







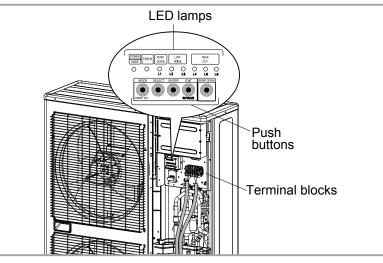
14. FUNCTION SETTINGS

▲ Caution

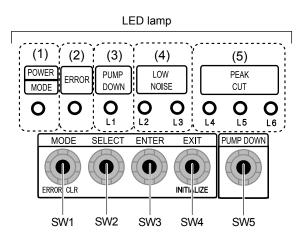
Discharge the static electricity from your body before setting up the push buttons. Never touch the terminals or the patterns on the parts that are mounted on the board.

14-1. FIELD SETTING SWITCHES

The positions of the switches on the outdoor unit control board are shown in the figure below.



FUNCTIONS



Display lamp		Function or operation method
(1) POWER / MODE	Green	Lights on while power on. Local setting in outdoor unit or error code is displayed with blink.
(2) ERROR	Red	Blinks during abnormal operation.
(3) PUMP DOWN (L1)	Orange	Lights on during pump down operation.
(4) LOW NOISE MODE (L2,L3)	Orange	Lights on during "Low noise" mode when local setting is activated. (Lighting pattern of L2 and L3 indicates low noise level)
(5) PEAK CUT MODE (L4,L5,L6)	Orange	Lights on during "Peak cut" mode when local setting is activated. (Lighting pattern of L4, L5 and L6 indicates peak cut level)

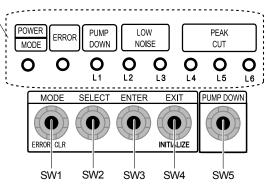
Button		Function or operation method		
SW1	MODE	To switch between "Local setting" and "Error code display".		
SW2	SELECT	To switch between the individual "Local settings" and the "Error code displays".		
SW3	ENTER	To fix between the individual "Local settings" and the "Error code displays".		
SW4	EXIT	To return to "Operation status display".		
SW5	PUMP DOWN	To start the pump down operation.		

14-2. SETTING METHOD

* Stop the operation of air conditioner before this setting.

14-2-1. LOW NOISE MODE

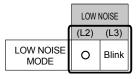
LED lamp part



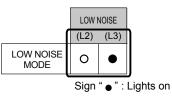
- (1) Switch to "Local setting mode" by pressing [MODE] button (SW1) for 3 seconds or more.
- (2) Confirm that the (POWER / MODE) blinks 9 times, then press [ENTER] button (SW3).

POWER	ERROR	PUMP DOWN LOW NOISE		PEAK CUT			
MODE		(L1)	(L2)	(L3)	(L4)	(L5)	(L6)
Blinks (9 times)	0	0	0	0	0	0	0
Sign " _O " : Lights off							

(3) Press [SELECT] button (SW2), and adjust LED lamp as shown below. (Current setting is displayed)



(4) Press [ENTER] button (SW3).



(5) Press [SELECT] button (SW2), and adjust LED lamp as shown in below figure.

	PEAK CUT		
	(L4)	(L5)	(L6)
MODE 1: Rated noise value -2dB	0	0	Blink
MODE 2: Rated noise value -4dB	0	Blink	0

The noise of MODE2 is lower than that of MODE1.

(6) Press [ENTER] button (SW3) to fix it.

	PEAK CUT		
	(L4)	(L5)	(L6)
MODE 1: Rated noise value -2dB	0	0	
MODE 2: Rated noise value -4dB	0		0

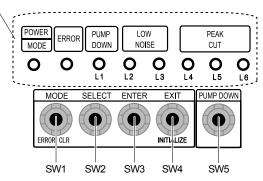
(7) Return to "Operating status display (Normal operation)" by pressing [EXIT] button (SW4).

• To restart the setting during the process, return to "Operating status display (Normal operation)" by pressing the [EXIT] button once.

14-2-2. PEAK CUT MODE

LED lamp part

000R UNIT G45-54LETL

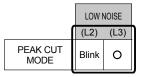


- (1) Switch to "Local setting mode" by pressing [MODE] button (SW1) for 3 seconds or more.
- (2) Confirm that the (POWER / MODE) blinks 9 times, then press [ENTER] button (SW3).

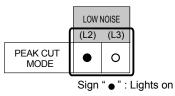
POWER	ERROR	PUMP DOWN	LOW	NOISE	ŀ	PEAK CU	Г
MODE	LINION	(L1)	(L2)	(L3)	(L4)	(L5)	(L6)
Blinks (9 times)	0	0	0	0	0	0	0

Sign " _O " : Lights off

(3) Press [SELECT] button (SW2), and adjust LED lamp as shown below. (Current setting is displayed)



(4) Press [ENTER] button (SW3).



(5) Press [SELECT] button (SW2), and adjust LED lamp as shown in below figure.

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

(6) Press [ENTER] button (SW3) to fix it.

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

(7) Return to "Operating status display (Normal operation)" by pressing [EXIT] button (SW4).

• To restart the setting during the process, return to "Operating status display (Normal operation)" by pressing the [EXIT] button once.

15. OPTIONAL PARTS

Exterior	Parts name	Model No.	Summary
	External connect kit	UTY-XWZXZ3	Use to operate the External input and output function of Outdoor unit.