



AIR CONDITIONER

Wall mounted type

DESIGN & TECHNICAL MANUAL



FUJITSU GENERAL LIMITED

Notices:

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

Trademarks

"AIRSTAGE Mobile" is a trademark of FUJITSU GENERAL LIMITED.

Google Play[™] is trademark of Google LLC.

App Store[®] is a service mark of Apple Inc., registered in the U.S. and other countries.

CONTENTS

Part 1. INDOOR UNIT	1
1. Specifications	2
2. Dimensions	3
2-1. Model: ASBH31KMTA	3
3. Wiring diagrams	5
3-1. Model: ASBH31KMTA	5
4. Capacity table	6
4-1. Cooling capacity	6
4-2. Heating capacity	6
5. Fan performance	7
5-1. Air velocity distributions	7
5-2. Airflow	8
6. Operation noise (sound pressure)	9
6-1. Noise level curve	9
6-2. Sound level check point	9
7. Safety devices	10
8. External input and output	11
8-1. External input	12
8-2. External output	15
8-3. Setting of external input and output	
8-4. Details of control input function	18 22
9. Group connection	24
9. Group connection	
10. Remote controller	
11. Function settings	
11-1.Function settings by using remote controller.	
12 Accessories	
12 1 Modol: ASPH21KMTA	34
12 Ontional parta	
13 1 Controllers	33
13-2 Others	

CONTENTS (continued)

Part 2. OUTDOOR UNIT	37
1. Specifications	
2. Dimensions	
2-1. Model: AOBH31KMTA	
3. Installation space	
3-1. Model: AOBH31KMTA	40
4. Refrigerant circuit	
4-1. Model: AOBH31KMTA	44
5. Wiring diagrams	45
5-1. Model: AOBH31KMTA	45
6. Capacity compensation rate for pipe length and height dif	ference46
6-1. Model: AOBH31KMTA	46
7. Additional charge calculation	47
7-1. Model: AOBH31KMTA	47
8. Airflow	
8-1. Model: AOBH31KMTA	48
9. Operation noise (sound pressure)	
9-1. Noise level curve	
9-2. Sound level check point	
10. Electrical characteristics	
11. Safety devices	51
12. External input and output	
12-1.External input	
12-2.External output	
13. Function settings	
13-1.Control PCB and switch buttons location	
13-2.Local setting procedure	
	Uð
15 Ontional parta	00
10. Uptivital parts	01

Part 1. INDOOR UNIT

WALL MOUNTED TYPE: ASBH31KMTA

1. Specifications

WALL MOUNTED ASBH31KMTA

Туре					Wall mounted				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Inverter, Heat pump				
Model name					ASBH31KMTA				
Power supply					220 V~ 60 Hz				
Power supply intake					Outdoor unit				
Available voltage ran	ge				198—242 V				
Capacity			Rated	kW	9.08				
		Cooling		Btu/h	31,000				
			Min.—Max.	kW	2.9—11.0				
				Btu/h	9,900—37,500				
			Rated	KVV Btu/b	9.00				
		Heating		kW	2 9—11 0				
			Min.—Max.	Btu/h	9.900-37.500				
			Rated		2.56				
Innut nousen		Cooling	Min.—Max.	100/	0.66—3.89				
input power		Heating	Rated	KVV	2.56				
		Tieaung	Min.—Max.		0.93—3.51				
Current		Cooling	Rated	А	11.9				
ounon		Heating			11.9				
EER		Cooling		kW/kW	3.55				
COP		Heating		1.3.67	3.55				
Sensible capacity		Cooling		KVV	0./0				
Power factor		Heating		%	97.0 07.8				
Moisture removal		licauly		L/h (pints/h)	3,9 (6.9)				
	4	Cooling			18.5				
Maximum operating o	current*1	Heating		— A	20.5				
			HIGH		1,360				
		Cooling	MED		1,130				
		Cooling	LOW		900				
	Airflow rate		QUIET	m ³ /h	720				
Fan	, aniow rate		HIGH		1,360				
		Heating	MED		1,060				
		5	LOW	_	840				
	Turne v Otu		QUIET		720 Greesflew for y 1				
	Motor output			W	78				
	Motor output		HIGH		50				
			MED	_	45				
		Cooling	LOW	-	39				
			QUIET		32				
Sound pressure level	*2		HIGH	dB (A)	49				
		Heating	MED		43				
		ricating	LOW		37				
			QUIET		33				
		Dimensions (F	H × W × D)	mm	462 × 900 × 26.6				
		Fin pitch			1.2				
Heat exchanger		Rows × Stage	S		2 × 22				
		Fipe type							
		Material			Polystyrene				
Enclosure		Matorial			White				
Linologuio		Color			Approximate color of Munsell N9.25/				
Dimensions		Net			340 × 1,150 × 280				
(H × W × D)		Gross		mm	405 × 1,270 × 450				
Weight		Net		ka	16.0				
weigin		Gross		ку	22.0				
		Size	Liquid	mm (in)	Ø9.52 (Ø3/8)				
Connection pipe			Gas	()	Ø15.88 (Ø5/8)				
		Method			Flare				
Drain hose		Material			PP+HDPE				
		l ip diameter		mm	Ø13.8 (I.D.), Ø15.0 to Ø16.8 (O.D.)				
Operation		Cooling		°C	18 to 32				
operation range		Heating		70KH	00 07 IESS				
Heati		rieaung			10 10 30				
Remote controllor					Wireless (Option: Wired Mobile anath [AIDSTACE Mabile])				

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. (Between outdoor unit and indoor unit.)
 Protective function might work when using it outside the operation range.

+ *1 : Maximum current is maximum value when operated within the operation range.

• *2: 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.
 *³: Available on Google Play[™] store or on App Store[®]. Optional WLAN Adapter is also required. For details, refer to the setting manual.

2. Dimensions

WALL MOUNTED ASBH31KMTA

2-1. Model: ASBH31KMTA





Installation space requirement

Provide sufficient installation space for product safety.

Do not place any other electrical products or household belongings under the product. Condensation dripping from the product might get them wet, and may cause damage or malfunction to the property.





3. Wiring diagrams

WALL MOUNTED ASBH31KMTA

3-1. Model: ASBH31KMTA



4. Capacity table

VALL MOUNTED ASBH31KMTA

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: ASBH31KMTA

AFR	AFR m ³ /h						1,360															
											Indoc	or temper	rature									
	°CDB		18			21			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
	CDB		kW			kW			kW			kW			kW			kW			kW	
ture	18	8.21	6.25	1.97	8.70	6.47	2.02	8.99	6.61	2.05	9.38	6.75	2.07	9.67	6.88	2.12	9.91	7.11	2.15	10.26	7.44	2.19
era	20	8.22	6.34	1.87	8.71	6.57	1.91	9.00	6.71	1.93	9.38	6.85	1.96	9.68	6.99	2.01	9.91	7.22	2.04	10.27	7.55	2.09
du	25	8.01	6.39	2.00	8.48	6.62	2.04	8.76	6.75	2.07	9.15	6.90	2.10	9.43	7.04	2.15	9.66	7.27	2.18	10.00	7.61	2.23
r te	30	7.80	6.25	2.12	8.26	6.48	2.18	8.54	6.61	2.21	8.91	6.75	2.23	9.18	6.88	2.28	9.41	7.12	2.31	9.74	7.45	2.36
op	35	7.72	6.14	2.38	8.17	6.36	2.44	8.44	6.49	2.47	8.81	6.63	2.50	9.08	6.76	2.56	9.30	6.98	2.59	9.64	7.31	2.65
Outo	40	7.05	5.91	2.62	7.47	6.11	2.70	7.72	6.24	2.73	8.05	6.37	2.76	8.30	6.50	2.83	8.50	6.71	2.86	8.81	7.03	2.93
	46	6.50	5.68	2.93	6.89	5.89	3.01	7.11	6.02	3.05	7.42	6.14	3.09	7.65	6.27	3.16	7.84	6.46	3.20	8.11	6.77	3.27
	50	4.59	4.76	2.08	4.87	4.97	2.13	5.03	5.08	2.16	5.25	5.18	2.19	5.41	5.29	2.24	5.54	5.46	2.26	5.73	5.72	2.32

4-2. Heating capacity

Model: ASBH31KMTA

AFR	AFR m ³ /h						1,360						
							Indoor ter	mperature					
			1	6	1	8	2	0	2	2	2	4	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	
	CDB	CVVD	k	Ŵ	k\	Ŵ	k'	Ŵ	k\	N	k\	N	
	-15	-16	7.95	3.86	7.92	3.88	7.86	3.88	7.68	3.88	7.48	3.88	
ture	-10	-11	9.10	4.17	9.05	4.19	9.00	4.19	8.78	4.19	8.56	4.19	
era	-5	-7	9.97	4.10	9.94	4.10	9.86	4.11	9.63	4.11	9.38	4.13	
du	0	-2	10.84	4.10	10.79	4.10	10.71	4.11	10.46	4.11	10.18	4.12	
rte	5	3	11.06	3.67	11.01	3.67	10.92	3.68	10.68	3.68	10.40	3.68	
8	7	6	11.13	3.50	11.08	3.50	11.00	3.51	10.75	3.51	10.47	3.51	
Dute	10	8	11.51	3.49	11.46	3.50	11.37	3.50	11.11	3.51	10.82	3.51	
	15	10	11.53	3.28	11.48	3.28	11.39	3.28	11.13	3.29	10.84	3.30	
	20	15	11.45	2.81	11.39	2.81	11.31	2.81	11.05	2.82	10.76	2.82	
	24	18	11.41	2.68	11.36	2.68	11.27	2.68	11.01	2.69	10.73	2.69	

5. Fan performance

WALL MOUNTED ASBH31KMTA

5-1. Air velocity distributions

Model: ASBH31KMTA



5-2. Airflow

Model: ASBH31KMTA

• Cooling

Fan speed	Air	flow
	m ³ /h	1,360
HIGH	l/s	378
	CFM	800
	m ³ /h	1,130
MED	l/s	314
	CFM	665
	m ³ /h	900
LOW	l/s	250
	CFM	530
	m ³ /h	720
QUIET	l/s	200
	CFM	424

Heating

Fan speed	Airflow				
	m ³ /h	1,360			
HIGH	l/s	378			
	CFM	800			
	m ³ /h	1,060			
MED	l/s	294			
	CFM	624			
	m ³ /h	840			
LOW	l/s	233			
	CFM	494			
	m ³ /h	720			
QUIET	l/s	200			
	CFM	424			

6. Operation noise (sound pressure)

6-1. Noise level curve

Model: ASBH31KMTA



6-2. Sound level check point



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

7. Safety devices

WALL MOUNTED ASBH31KMTA

Type of	Dretection	. for	Model		
protection	Protection	ITOrm	ASBH31KMTA		
Circuit protection	Current fuse (PCB*)		250 V, 3.15 A		
		Activisto	150 ±15°C		
Fan motor	Thermal protector	Activate	Fan motor stop		
protection	program	Peact	120 ±15°C		
		Resei	Fan motor restart		

*PCB: Printed Circuit Board

8. Ext

VALL MOUNTED 4SBH31KMTA

8. External input and output



External input and output PCB



Connecting point		Input/Output	Function	Input select	Input signal	
	CN46	Input	Operation/Stop	Dry contact	Edgo	
	01140	Input	Forced stop	Dry contact	Euge	
Indoor unit			Operation/Stop			
	CN47	Output	Error status		_	
		Output	Indoor unit fan			
			operation status			
	CN313		Operation/Stop		Edge/Pulse	
	CN314	Input	Forced stop	Dry contact/Apply	Euge/1 uise	
External Input	CN313	mpar	Forced thermostat off	voltage	Edge	
(UTY-XCSXZ2)	CN310		Operation/Stop			
	CN311	Output	Error status			
	CN212	Output	Indoor unit fan			
	CN312		operation status			

NOTE: For details of the switching function, refer to "Setting of external input and output" on page 17.

8-1. External input

With using external input function, some functions on this product can be controlled from an external device.

- "Operation/Stop" mode or "Forced stop" mode can be selected with function setting of indoor unit.
- A twisted pair cable should be used. Maximum length of cable is 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 connectors.



*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 connector on the PCB.

Input select

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

- Dry contact

In case of internal power supply, set the slide switch of SW301 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 SW301 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.

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 (SW302) on the External Input and Output PCB.



NOTE: The input signal supports the following switch type:

- Edge: Alternate type switch
- Pulse: Momentary type switch

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 should be used. Maximum length of cable is 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 17.

· 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 should be used. Maximum length of cable is 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 17.
- When indicator or other components are connected directly: Example: Rotary SW on External Input and Output PCB is set to "1".



• When connecting with a device equipped with a power supply: **Example:** Rotary SW on External Input and Output PCB is set to "1".



8-3. Setting of external input and output

Indoor unit

Input										
Connection point	Function setting number 46	Function								
	00	Operation/Stop mode 1								
CN/6	01	(Setting prohibited)								
01140	02	Forced stop mode								
	03	Operation/Stop mode 2								

Output										
Connection point	Function setting number 60	Function								
	00	Operation/Stop								
	01 to 08	(Setting prohibited)								
CN47	09	Error status								
	10	Indoor unit fan operation status								
	11	(Setting prohibited)								

External Input and Output PCB

Switch	setting	Ing	out	Output				
Rotary switch	SW302	SW302 CN313 CN314 CN310		CN311	CN312			
1	Edge	Operation/Stop	Not available	Operation/Stop	Error status	Indoor unit fan		
1	Pulse	Operation	Stop	Operation/Otop		status		
2		Forced thermostat off	Not available	Error status	Indoor unit fan operation status	Not available		
3 to 9, A			(Setting prohibited	i)			
В	Edge*	Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	Not available		
С		Forced thermostat off	Not available	Operation/Stop	Error status	Not available		
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 connector 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.
- *: The external input other than "Operation/Stop" is available only when the SW302 is set to "Edge".

8-4. Details of control input function

Operation/Stop mode 1

• In the case of "Edge" input

Function	External Input and Output PCB		External input		Innut signal	Command
setting	Rotary switch	SW302	2		input signai	Command
			Input of indoor unit	CN/16	$\text{Off} \to \text{On}$	Operation
46.00	_	_		01140	$\text{On} \to \text{Off}$	Stop
40-00	1	Edgo	External Input and	CN1212	$Off\toOn$	Operation
	I	Luge	Output PCB	011010	$\text{On} \to \text{Off}$	Stop
		CN313	On Off			
	Indoo	r unit operation	On Off			

• In the case of "Pulse" input

Function	External Outpu	Input and It PCB	External in	out	Innut signal	Command
setting	Rotary switch	SW302	External input		input signal	Command
46.00	1	Dulco	External Input and	CN313	Pulso	Operation
46-00	I	Fuise	Output PCB	CN314	Fuise	Stop

Remote controller.

On



NOTES:

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

Forced stop

• In the case of "Edge" input

Function	External Outpu	Input and It PCB	Extornal in	out	Input signal	Command
setting	Rotary switch	SW302			input signal	Command
			Input of indeer unit	CN46	$\text{Off} \to \text{On}$	Forced stop (R.C. disabled)
			CIN40	$On\toOff$	Normal (R.C. enabled)	
40-02	4 Edua	Edge	External Input and	CN313	$\text{Off} \to \text{On}$	Forced stop (R.C. disabled)
		Luge	Output PCB	GN313	$On\toOff$	Normal (R.C. enabled)



• In the case of "Pulse" input

Function	External Outpu	Input and It PCB	Extornal in	out	Input signal	Command
setting	Rotary switch	SW302	2		input signal	Command
46-02	1	Pulse	External Input and	CN313	Pulse	Forced stop (R.C. disabled)
40-02		Puise	Output PCB	CN314	1 0130	Normal (R.C. enabled)
	CN	0n Off 077 076 076		ſ		
	Fo	orced stop				
In	door unit oper	On <u> </u>				Ţ
	. .			∲ On	Ón	∱ On

NOTES:

Remote controller

- 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.

Operation/Stop mode 2

• In the case of "Edge" input

Function	External	Input and				
setting	Rotary switch	SW302	External input Input signal			Command
			Input of indoor unit		$Off\toOn$	Operation (R.C. enabled)
46.03	_	_		CIN40	$On\toOff$	Stop (R.C. disabled)
40-03	1	Edgo	External Input and	CN212	$\text{Off} \to \text{On}$	Operation (R.C. enabled)
	I	Edge	Output PCB	CINSTS	$On\toOff$	Stop (R.C. disabled)
		On CN313 Off				_
	Indoor unit o	On operation Off				_
	Ren	note contoller _		n 🕇	Off On	_

• In the case of "Pulse" input

Function	External Outpu	Input and It PCB	External in	out	Innut signal	Command
setting	Rotary switch	SW302	External input		input orginal	Command
46-03	1	Pulse	External Input and	CN313	Pulse	Operation (R.C. enabled)
+0-00	40-03 I Puise	1 0130	Output PCB	CN314	T UISC	Stop (R.C. disabled)
	CN313	On 3	П	Г	п	
		Off				
	CN314	On 1	П	п	Г	1
		Off				
Indoo	r unit operation	On				
indee		Off				
	Remote con	troller		Or	n O ff	On

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.

Forced thermostat off

External Input and Output PCB	External input		Input signal	Command
Rotary switch				
	External Input and	CN313	$\text{Off} \to \text{On}$	Thermostat off
2, 0, 0, 0	Output PCB	CN010	$On\toOff$	Normal operation
Comp	CN313 On Off Off On Off Off			
	Room temp.	\frown		

NALL MOUNTED ASBH31KMTA

8-5. Details of control output function

Operation status

Function setting	External Input and Output PCB Rotary switch	External out	put	Output signal	Status
60-00 1,	1 2	Output of indoor unit	CN47	$\text{Off} \to \text{On}$	Operation
	Ι, Ζ			$On \rightarrow Off$	Stop
		External Input and	CN210	$Off \rightarrow On$	Operation
_	Г, D, C, D	Output PCB	011310	$On \rightarrow Off$	Stop

The output is low when the unit is stopped.



Error status

Function	External Input and Output PCB	External output		Output signal	Status
Rotary switch					
60.00	60-09 —	Output of indoor unit	CN/47	$Off \rightarrow On$	Error
00-09				$\text{On} \to \text{Off}$	Normal
	0	External Input and	out and CN210	$\text{Off} \to \text{On}$	Error
	Z	Output PCB	$\text{On} \to \text{Off}$	Normal	
	1.0	External Input and	CN211	$\text{Off} \to \text{On}$	Error
	I, U	Output PCB	CNSTT	$\text{On} \to \text{Off}$	Normal
_	р	External Input and Output PCB	CN312	$Off\toOn$	Error
	U			$On\toOff$	Normal

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



CN310, 311, 312

Indoor unit fan operation status

Function setting	External Input and Output PCB Rotary switch	External output		Output signal	Status
60-10	C	Output of indoor unit	CN47	$Off \rightarrow On$	Fan run
00-10	0			$\text{On} \to \text{Off}$	Fan stop
	2 8 0	External Input and	CN211	$Off \rightarrow On$	Fan run
— 2, b, D	2, 0, 0	Output PCB	CNJTT	$\text{On} \to \text{Off}$	Fan stop
	1	External Input and	CN312	$Off \rightarrow On$	Fan run
—	Ι	Output PCB	CNJTZ	$\text{On} \to \text{Off}$	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.



WALL MOUNTED ASBH31KMTA

9. Group connection

LL MOUNTED BH31KMTA

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.









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.

10. Remote controller

10-1. Wireless remote controller

Overview



NOTE: Functions may differ by type of the indoor unit. For details, refer to the operation manual.

Display panel



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

Specifications

• Controller



Size (H × W × D)	mm	181 × 58 × 17
Weight	g	116 (without batteries)

Holder

Top view 52 (Hole) 64 Front view Side view

Size (H × W × D)	mm	126.3 × 62.8 × 26.3
Weight	g	28

Unit: mm

11. 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.

11-1. 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 wireless remote controller

The function number and the associated setting value are displayed on the LCD of the remote controller. Follow the instructions written in the local setup procedure supplied with the remote controller, and select appropriate setting according to the installation environment.

Before connecting the power supply of the indoor unit, reconfirm following items:

- Cover for the electrical enclosure on the outdoor unit is in place.
- There is no wiring mistake.
- · Piping air tightness test and vacuuming have been performed firmly.
- · All the necessary wiring work for outdoor unit has been finished.

After reconfirming the items listed above, connect the power supply of the indoor unit.

NOTES:

- Settings will not be changed if invalid numbers or setting values are selected.
- When optional wired remote controller is used, refer to the installation manual enclosed with the remote controller.

Entering function setting mode:

While pressing the FAN SPEED button and TEMP. (\land) button simultaneously, press the RESET button to enter the function setting mode.

Selecting the function number and setting value:

- 1. Press MODE button.
- 2. Press the TEMP. (\land) (\checkmark) buttons to select the function number. (Press MODE button to switch between the left and right digits.)
- 3. Press the FAN SPEED button to proceed to value setting. (Press FAN SPEED button again to return to the function number selection.)
- 4. Press the TEMP. (\land) (\checkmark) buttons to select the setting value. (Press MODE button to switch between the left and right digits.)
- 5. Press the POWERFUL button once. Please confirm the beeping sound.
- 6. Press the START/STOP button once to fix the Function setting. Please confirm the beeping sound.
- 7. Press the RESET button to cancel the function setting mode.
- 8. After completing the function setting, be sure to disconnect the power supply and then reconnect it.

After disconnecting the power supply, wait 30 seconds or more before reconnecting it. The function setting will not become active unless the power supply is disconnected and then reconnected.



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)	30/31	Room temperature control for indoor unit sensor
3)	35/36	Room temperature control for wired remote controller sensor
4)	40	Auto restart
5)	42	Room temperature sensor switching
6)	44	Remote controller custom code
7)	46	External input control
8)	48	Room temperature sensor switching (Aux.)
9)	49	Indoor unit fan control for energy saving for cooling
10)	60	Switching functions for external output terminal

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 (400 hours)	
	01	Long interval (1,000 hours)	
	02	Short interval (200 hours)	
	03	No indication	♦

2) 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 26° C and the setting value is "03" (-1.0°C), corrected temp. will be 27° C (26° C - [-1.0°C]).

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

Function number		Setting value	Setting description		Factory setting
		00	Standard s	setting	♦
		01	No correctio	n 0.0 °C	
		02	-0.5 °C		
		03	-1.0 °C		
		04	-1.5 °C		
		05	-2.0 °C	More cooling	
		06	-2.5 °C	Less heating	
		07	-3.0 °C		
30	31	08	-3.5 °C		
(For cooling)	(For heating)	09	-4.0 °C		
		10	+0.5 °C		
		11	+1.0 °C		
		12	+1.5 °C		
		13	+2.0 °C	Less cooling	
		14	+2.5 °C	More heating	
		15	+3.0 °C		
		16	+3.5 °C		
		17	+4.0 °C		

3) 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
		00	Standard s	setting	♦
		01	No correctio	on 0.0°C	
		02	-0.5 °C		
		03	-1.0 °C		
		04	-1.5 °C		
		05	-2.0 °C	More cooling	
		06	-2.5 °C	Less heating	
		07	-3.0 °C		
35	36	08	-3.5 °C		
(For cooling)	(For heating)	09	-4.0 °C		
		10	+0.5 °C		
		11	+1.0 °C		
		12	+1.5 °C		
		13	+2.0 °C	Less cooling	
		14	+2.5 °C	More heating	
		15	+3.0 °C		
		16	+3.5 °C		
		17	+4.0 °C		

4) Auto restart

Enables or disables automatic restart after a power interruption.

Function number	Setting value	Setting description	Factory setting
40	00	Enable	♦
40	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.

5) 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.

6) 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	В	
	02	С	
	03	D	

7) 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)	

NOTE: If this function is necessary, the rotary switch on the External input and output PCB should be set to 1.

8) 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
19	00	Both	•
40	01	Wired remote controller	

9) 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
	00	Disable	
49	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.

10) 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
	00	Operation status	•
	01—08	(Setting prohibited)	
60	09	Error status	
	10	Indoor unit fan operation status	
	11	(Setting prohibited)	

11-2. Custom code setting for wireless remote controller

To interconnect the air conditioner and the wireless remote controller, assignment of the custom code for the wireless remote controller is required.

NOTE: Air conditioner cannot receive a signal if the air conditioner has not been set for the custom code.

When 2 or more air conditioners are installed in a room, and the remote controller is operating an air conditioner other than the one you wish to set, change the custom code of the remote controller to operate only the air conditioner you wish to set. (4 selections possible.)

Confirm the setting of the remote controller custom code and the function setting. If these do not match, the remote controller cannot be used to operate for the air conditioner.

- 1. Press the START/STOP button until only the clock is displayed on the remote controller display.
- 2. Press the MODE button for at least 5 seconds to display the current custom code. (Initially set to $\frac{1}{2}$.)
- Press the TEMP. (∧) (∨) buttons to change the custom code between A→b→c→c. Match the code on the display to the air conditioner custom code. (Initially set to A.)
- 4. Press the MODE button again to return to the clock display. The custom code will be changed.

NOTES:

- If no button is pressed within 30 seconds after the custom code is displayed, the system returns to the original clock indicator. In this case, start again from step 1.
- The air conditioner custom code is set to $\frac{1}{4}$ prior to shipment. To change the custom code, contact your retailer.

remp

12. Accessories

12-1. Model: ASBH31KMTA

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Drain hose insulation		1
Installation manual		1	Cloth tape	0	1
Wall book bracket		1	Self-tapping screw (Large)		8
Wail Hook Bracket			Self-tapping screw (Small)	()))))>	2
Remote controller		1	Air cleaning filters	<u>[22222222222222</u>] []]]]]]]]]]]]]]]]]]]]]	1
Remote controller holder	0	1	Air cleaning filter holder		2

13. Optional parts

13-1. Controllers

Exterior	Part name	Model name	Summary
Cost 26.00 Rom Torpe 26.00 Same Meru Cost 21000 Rom Torpe 26.00 Same Meru Cost 200 Same Meru Cost 200 Same Meru	Wired Remote Controller	UTY-RNRYZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire Optional Communication Kit is necessary for installation.
	Wired Remote Controller	UTY-RLRY	High visibility and easy operation. Room temperature can be accurately controlled using the thermo sensor. Wire type: Non-polar 2-wire Optional Communication Kit is necessary for installation.

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.

1

Exterior	Part name	Model name	Summary
	External Connect Kit	UTY-XWZX	Use to connect with various peripheral devices and air conditioner PCB.
	External Connect Kit	UTY-XWZXZ5	Required when external device is connected.
			Connecting point: CN47 on Main PCB
	External Input and Output PCB	UTY-XCSXZ2	optional External Connect Kit is
			necessary for installation. Connecting point: CN65 on Main PCB
	Communication Kit	UTY-TWRXZ2	Use to connect Non-polar 2-core wired remote controller.
	WLAN Adapter	UTY-TFSXH3	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets. Appropriate application for each region is required to use this option. For details, contact FGL sales company. Connecting point: Main PCB via USB connector
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network. Connecting point: CN65 on Main PCB
	KNX Convertor	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network. Connecting point: CN65 on Main PCB
	External Switch Controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches. Use the terminal for wired remote controller.

Part 2. OUTDOOR UNIT

SINGLE TYPE: AOBH31KMTA

1. Specifications

Туре				Inverter, Heat pump
Model name				AOBH31KMTA
Power supply				220 V~ 60 Hz
Power supply intake	;			Outdoor unit
Available voltage ra	nge			198—242 V
Starting current	-		A	11.9
		Cooling	2	4,450
-	Airflow rate	Heating	m³/h	4,450
Fan	Type × Qty			Propeller fan × 1
	Motor output		W	120
		Cooling		56
Sound pressure leve	el*	Heating	dB (A)	57
		Dimensions		Main 1: 966 × 905 × 18.19
		$(H \times W \times D)$	mm	Main 2: 966 × 905 × 18.19
		Fin pitch		Main 1: 1.45 Main 2: 1 45
Heat exchanger typ	e			Main 1: 1 × 46
l loui ononangor typ		Rows × Stages		Main 2: 1 × 46
		Pipe type		Copper tube
			Type (Material)	Aluminum
		Fin type	Surface treatment	Blue fin
	Туре			DC twin rotary
Compressor	Motor output		W	1,830
		Туре		R32
Refrigerant		Charge	q	2,300
		Туре		RmM68AF
Refrigerant oil		Amount	cm ³	800
		Material		Steel sheet
Enclosure				Beige
		Color		Approximate color of Munsell 10YR 7.5/1.0
Dimensions	Net			998 × 940 × 320
$(H \times W \times D)$	Gross		mm	1,176 × 1,027 × 445
, , , , ,	Net			62
Weight	Gross		kg	71
		Liquid		Ø9.52 (Ø3/8)
	Size	Gas	mm (in)	Ø15.88 (Ø5/8)
	Method			Flare
Connection pipe	Pre-charge length	h		25
	Max. length		m	50
	Max. height differ	rence		30
Additional charge		a/m	40	
production of ange		Cooling		18 to 50*3
Operation range*2		Heating	°C	-15 to 24
		Material		IDPE
Drain hose		Tip diameter	mm	Ø13.0 (I.D.), Ø16.0 to Ø16.7 (O.D.)
NOTES:			1	

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.

Protective function might work when using it outside the operation range.

*1: 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: The protection circuits might activate to stop the unit's operation outside the temperature range.

• *3: Suction temperature of the outdoor unit.

2. Dimensions





Bottom view

Pipe & Cable port

3. Installation space

3-1. Model: AOBH31KMTA

Space requirement

Provide sufficient installation space for product safety.

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:

When there are obstacles at the rear only.

When there are obstacles at the rear and sides.



250 or more

When there are obstacles at the front only.

100 or more

500 or more

When there are obstacles at the front and rear.



Unit: mm

dr unit Kmta

When there are obstacles at the rear and above.







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: mm

When there are obstacles at the rear only.



When there are obstacles at the front and rear.



• When an obstruction in the upper space:



When there are obstacles at the front only.

Unit: mm

When there are obstacles at the rear and above.



250°0r

more

150 or more

3.000 or more

600 or more

1,500 or more

• Outdoor unit installation in multi-row

Single parallel unit arrangement



600 or more ,500 or more

3,500 or more

Unit: mm



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 50 mm or more.
- When installing the outdoor unit, be sure to open the front and left side to obtain better operation efficiency.

- 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 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



- The : Thermistor (Heat exchanger out temperature)
- The **i** : Thermistor (Pipe temperature)
- Thr : Thermistor (Room temperature)

5. Wiring diagrams

OUTDOOR UNIT AOBH31KMTA



6. Capacity compensation rate for pipe length and height difference

6-1. Model: AOBH31KMTA

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

		Pipe length (m)							
	COOLING		5	7.5	10	20	30	40	50
		30	_	—	—	—	0.930	0.926	0.921
	Indoor unit in highor	20	_	—	—	0.953	0.947	0.941	0.936
<u> </u>	than outdoor unit *1	10	_	—	0.981	0.968	0.963	0.956	0.951
T 0		7.5	_	0.988	0.985	0.972	0.966	0.960	0.954
uč.		5	0.992	0.992	0.989	0.976	0.970	0.964	0.958
ere		0	1.000	1.000	0.997	0.984	0.978	0.972	0.966
diff		-5	1.000	1.000	0.997	0.984	0.978	0.972	0.966
ght	Indoor unit in lower than	-7.5	_	1.000	0.997	0.984	0.978	0.972	0.966
lei,	outdoor unit *2	-10	_	—	0.997	0.984	0.978	0.972	0.966
<u> </u>		-20				0.984	0.978	0.972	0.966
		30					0.978	0.972	0.966

HEATING		Pipe length (m)							
	HEATING		5	7.5	10	20	30	40	50
		30	—	_	—	—	0.937	0.920	0.905
(Indoor unit is highor	20			—	0.954	0.937	0.920	0.905
m)	than outdoor unit *1	10	—	_	0.990	0.954	0.937	0.920	0.905
Нe		7.5	—	1.000	0.990	0.954	0.937	0.920	0.905
nce.		5	1.000	1.000	0.990	0.954	0.937	0.920	0.905
ere		0	1.000	1.000	0.990	0.954	0.937	0.920	0.905
diff		-5	0.995	0.995	0.986	0.949	0.932	0.915	0.901
ght	Indoor unit in lower than	-7.5	—	0.993	0.983	0.946	0.930	0.913	0.898
	outdoor unit *2	-10			0.981	0.944	0.927	0.910	0.896
-		-20	—	_	—	0.935	0.918	0.901	0.887
		30			_		0.909	0.892	0.878

7-1. Model: AOBH31KMTA

Refrigerant type		R32
Factory charge amount	g	2,300

Refrigerant charge

Total pipe length m		25 or less	30	40	50 (Max.)	10 a/m
Additional charge amount	g	0	200	600	1,000	40 g/m

- 47 -

8. Airflow

8-1. Model: AOBH31KMTA

Cooling

m ³ /h	4,450
l/s	1,236
CFM	2,619

• Heating

m ³ /h	4,450
l/s	1,236
CFM	2,619

OUTDOOR UNIT AOBH31KMTA

9. Operation noise (sound pressure)

9-1. Noise level curve

OUTDOOR UNIT AOBH31KMTA

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

	Mode	el name	AOBH31KMTA			
Power	Voltage		V	220		
supply	Frequency	Frequency		-requency		60
Maximum o	perating current*	1	А	20.5		
Starting current			А	11.9		
	Circuit breaker current Power cable		А	25		
			mm ²	2.5—4.0		
Wiring spec.* ² Connection cable* ³	Connection	Cross-sectional area	mm ²	1.5		
	cable* ³	Limited wiring length	m	51		

NOTES:

- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *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: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.

11. Safety devices

OUTDOOR UNIT AOBH31KMTA

Type of	Protection form		Model
protection	FIOLECTIONION		AOBH31KMTA
Circuit protection	current fuse (PCB*)		250 V, 30 A or 35.5 A 250 V, 3.15 A
Fan motor	Thermel protection program	Activate	250 V, 10 A × 2 150 ±15°C Fan motor stop
protection	Reset		120 ±15°C Fan motor restart
Compressor protection	Thermal protection program	Activate	110°C Compressor stop
	(Discharge temp.)	Reset	After 7 minutes Compressor restart
	Thermal protection program	Activate	108°C Compressor stop
	(Compressor temp.)	Reset	80°C or less Compressor restart
	Thermal protection program	Activate	-20°C Compressor stop
	(Only in COOL or DRY mode)	Reset	-15°C Compressor restart

*PCB: Printed Circuit Board

12. External input and output

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

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

Optional part

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

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

TDOOR UNIT 3H31KMTA

Optional part

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

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

TDOOR UNIT 3H31KMTA

Optional part

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

Compressor status output

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

Circuit diagram example

Optional part

OUTDOOR UNIT AOBH31KMTA

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

13. Function settings

Perform appropriate function setting locally according to the installation environment.

NOTE: Incorrect settings can cause a product malfunction.

OUTDOOR UNIT AOBH31KMTA

- 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.

Switch buttons and the functions

OUTDOOR UNIT AOBH31KMTA

Switch buttons

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.

13-2. Local setting procedure

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

Low noise mode

DOOR UNIT 3H31KMTA

- 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			LOW	NOISE	F	PEAK CUT	Г
MODE	LINION	(L1)	(L2)	(L3)	(L4)	(L5)	(L6)
Blinks (9 times)	0	0	0	0	0	0	0

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.

4. Press the ENTER switch button (S132).

Sign "
• ": Lights on

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

	PEAK CUT			
	(L4) (L5) (L6)			
MODE 1: Low	0	0	Blink	
MODE 2: Lower	O Blink O			

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

	PEAK CUT			
	(L4)	(L5)	(L6)	
MODE 1: Low	0	0		
MODE 2: Lower	0		0	

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.

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	ERROR	ERROR		LOWI	NOISE	F	PEAK CU	г
MODE			(L1)	(L2)	(L3)	(L4)	(L5)	(L6)
Blinks (9 times)	0	0	0	0	0	0	0	

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.

4. Press the ENTER switch button (S132).

Sign "
• ": Lights on

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

	PEAK CUT		
	(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 the ENTER switch button (S132) and fix it.

	PEAK CUT		
	(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. 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.

14. Accessories

14-1. Model: AOBH31KMTA

Part name	Exterior	Qty	Part name	Exterior	Qty
Installation manual		1	Drain cap		3
Drain pipe	al [®]	1	One-touch bush	Ô	2

OUTDOOR UNIT AOBH31KMTA

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.

OUTDOOR UNIT AOBH31KMTA