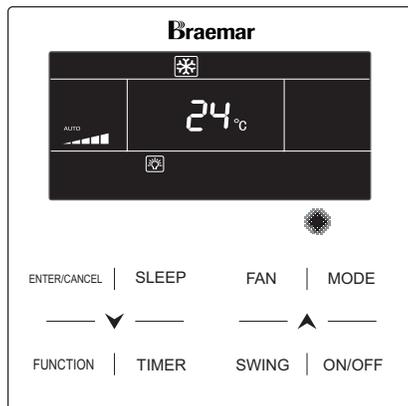


OWNER'S MANUAL

VRF MULTI SPLIT CONTROLLER XK46



IMPORTANT

As with any product that has moving parts or is subject to wear and tear, it is **VERY IMPORTANT** that you maintain your air conditioner and have it regularly serviced. Accordingly, it is a condition of warranty cover for your air conditioner that you comply with all of the maintenance and service requirements set out in this manual. Compliance with these requirements will prolong the life of your air conditioner. Furthermore, it is also a condition of warranty cover that the Maintenance Schedule in the manual is filled out (by signing and dating it in the places indicated) when the item is completed.

ANY FAILURE TO CARRY OUT THE REQUIRED MAINTENANCE AND SERVICING, AND ANY FAILURE TO FILL OUT THE MAINTENANCE SCHEDULE, WILL VERY LIKELY VOID YOUR WARRANTY.

(For complete warranty terms, refer to the separate Warranty Booklet sold with the product. Alternatively, visit <https://www.seeleyinternational.com/warranty/> to download the terms. Warranty terms are subject to property access and industry safety standards.)

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INTRODUCTION AND SAFETY

Congratulations on purchasing a new Braemar Air Conditioner!

Please keep this Manual and the Warranty Booklet in a safe place, along with the original purchase documents, plus all relevant certificates of compliance relating to the installation work performed. Please register the Warranty straight away, by following the steps set out in the Warranty Booklet.

The installer must read the Installation Manual before installing the Braemar Air Conditioning Unit. The home owner/user should read the Owner's Manual before operating the Unit.

To ensure the warranty on the Unit is continued and valid, the Unit must be checked and serviced by the home owner/user as per the requirements in the Maintenance & Service section and the Maintenance Schedule. This will also prolong the life of your air conditioner.

The home owner/user should regularly check the Air Inlet side of the Outdoor unit to ensure grass, leaf and other matter are not drawn into or onto the inlet side of the Outdoor unit. Restriction to the airflow across the coil will reduce the system's capacity, and result in high operation pressures and excessive operating costs.

A return air filter **MUST** be installed by the installer at the return air grille. The air filter should be inspected and cleaned at least every two weeks when the Braemar Air Conditioning Unit is used.

NOTE: The manufacturer recommends that low level return air grilles are installed.

IMPORTANT!

THE AUSTRALIAN GREENHOUSE OFFICE HAS ISSUED VARIOUS REGULATIONS ON THE USE AND DISPOSAL OF REFRIGERANTS IN THE UNIT. FAILURE TO FOLLOW THESE REGULATIONS MAY HARM THE ENVIRONMENT AND COULD LEAD TO THE IMPOSITION OF SUBSTANTIAL FINES.

WHERE SPECIFIED, ONLY QUALIFIED AND LICENSED TECHNICIANS SHOULD PERFORM WORK ON THIS UNIT, FAILING WHICH THE WARRANTY ON THE UNIT WILL BE VOID.

WARNING! This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

CONTROLLER LAYOUT

Your Braemar Air Conditioner has been designed and built with reliable, quality components. To ensure many years of trouble free, dependable service please read the following pages very carefully, and please ensure that you follow all of the instructions.

WIRED CONTROLLER

Please follow the below cautionary notes when using the wired controller:-

1. Do not install the wired controller in a damp place or under direct sunlight.
2. Do not abuse, toss, or frequently assemble/disassemble the wired controller.
3. Do not operate the wired controller with wet hands and never let any liquid flow into it.
4. Do not install or remove the wired controller by yourself. If necessary, please contact a service agent.
5. This wired controller is applicable to various kinds of air conditioners - some specific functions unavailable to the duct type air conditioners will be covered in this manual.
6. Before operating the air conditioner, please read this manual carefully and keep it in a safe place for future reference.

SYMBOLS ON LCD

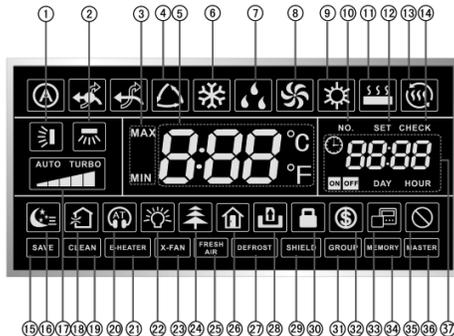


Fig. 01: LCD of the wired controller

No.	Symbol	Instructions
1.		Up and down swing function
2.	 *	Left and right swing function
3.		It's valid under Save mode and displays during setting process. Temperature lower limit for Cooling: Limit the minimum temperature value under Cooling or Dry mode. Temperature upper limit for Heating: Limit the maximum temperature value under Heating, Space Heating or 3D Heating mode.
4.	 *	Auto mode (Under Auto mode, the indoor units will automatically select their operating mode as per the temperature change so as to make the ambient comfortable.)
5.		It shows the setting temperature value (In case the wired controller is controlling a Fresh Air Indoor Unit, then the temperature zone will display FAP)
6.		Cooling mode
7.		Dry mode
8.		Fan mode
9.		Heating mode
10.		When inquiring or setting project number of indoor unit, it displays "NO." icon
11.	 *	Floor Heating mode (When Heating and Floor Heating simultaneously shows up, it indicates 3D Heating is activated.)

Table 01: Description of symbols

No.	Symbol	Instructions
12.		Display "SET" icon under parameter setting interface
13.	 *	Space Heating mode
14.		Display "CHECK" icon under parameter view interface
15.		Outdoor unit operates under Save mode / upper limit of system capacitor less 100% / remote Save status
16.		Sleep status
17.		Current set fan speed (including auto, low speed, medium-low speed, medium speed, medium-high speed, high speed and turbo seven status)
18.	 *	Airstatus, Indoor unit optional function
19.		Remind to clean the filter
20.		Quiet status (including Quiet and Auto Quiet two status)
21.	 *	Allow auxiliary electric heating On icon
22.		Light On/Off function
23.		X-fan function
24.	 *	Health function, Indoor unit optional function

No.	Symbol	Instructions
25.		Reserved function
26.		Absence function
27.		Outdoor unit defrosting status
28.		Gate-control function
29.		Shielding status
30.		Child lock status
31.		One wired controller controls multiple indoor units
32.		Save status of indoor unit
33.		It indicates the current wired controller is the secondary wired controller (address of wired controller is 02)
34.		Memory status (The indoor unit resumes the original setting state after power failure and then power recovery)
35.		Invalid operation
36.		Current wired controller connects primary indoor unit
37.		Timer zone : Display system clock and timer status

*Note: When wired controller is connected with different indoor units, some functions will be different.

BUTTON GRAPHICS

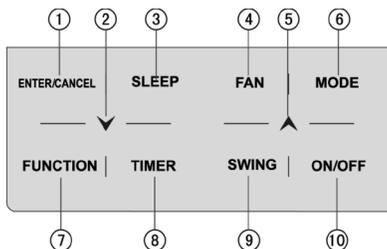


Fig. 02

No.	Buttons	Instructions
1	ENTER/CANCEL	Select and cancel function
2		(1) Set operating temperature of indoor unit (2) Set timer
5		(3) Switch Quiet mode, Air grade, Clean grade, set upper and lower temperature limit under Save mode (4) Set and inquiry parameter
3	SLEEP	Set Sleep mode
4	FAN	Switch among auto, low speed, low-medium speed, medium speed, medium-high speed and high speed.
6	MODE	Switch Auto, Cooling, Dry, Fan, Heating, Floor heating, 3D Heating and Space heating modes for indoor unit. (Note: The Floor heating, 3D heating and Space heating function will show up when the unit has those functions.
7	FUNCTION	Switch among Air, Quiet, Light, Health, Absence, Save, Clean, E-heater and X-fan functions
8	TIMER	Timer setting
9	SWING	Set up and down swing status
10	ON/OFF	Indoor unit On / Off
2+5	 + 	Simultaneously press both buttons for 5s to enter or cancel the Child Lock Function

INSTALLATION

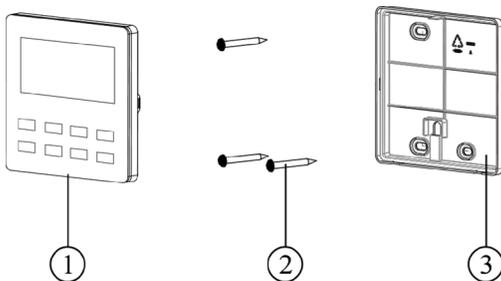
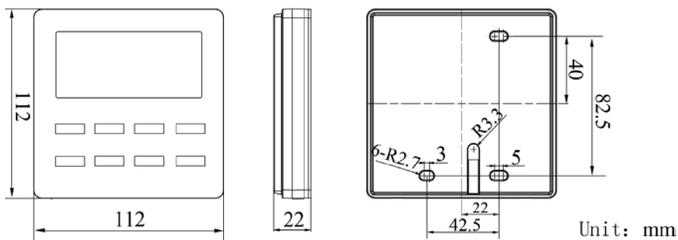


Fig. 03

No.	1	2	3
Name	Panel of wired controller	Self-tapping Screw ST3.9X25 MA	Mount plate of wired controller
Q'ty	1	3	1

INSTALLATION cont.

WIRING REQUIREMENTS

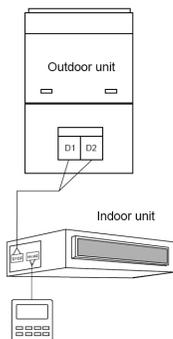


Fig. 04.1

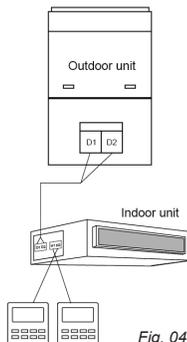


Fig. 04.2

- (1) When one wired controller controls multiple indoor units simultaneously, the wired controller can connect to any one indoor unit, but the connected indoor unit must be the same series indoor unit. The total quantity of indoor unit controlled by wired controller can't exceed 16 sets, and the connected indoor unit must be within the same indoor unit's network. Wire controller must set quantity of group control indoor units. Please refer to Parameters Settings Table.
- (2) When two wired controllers control one indoor unit, the addresses of those two wired controllers should be different. Please refer to Parameters Settings Table.
- (3) When two wired controllers control multiple indoor units, wired controller can connected to any one indoor unit, while the connected indoor unit should be the same series indoor unit. The addresses of those two wired controllers should be different. Please refer to Parameters Settings Table. The total quantity of indoor unit controlled by wired controller can't be more than 16 sets and all connected indoor units must be within the same indoor unit network. Wire controller must set quantity of group control indoor units. Please refer to Parameters Settings Table.
- (4) When one (or two) wired controller(s) control(s) multiple indoor units at the same time, the controlled indoor unit's setting should be the same.

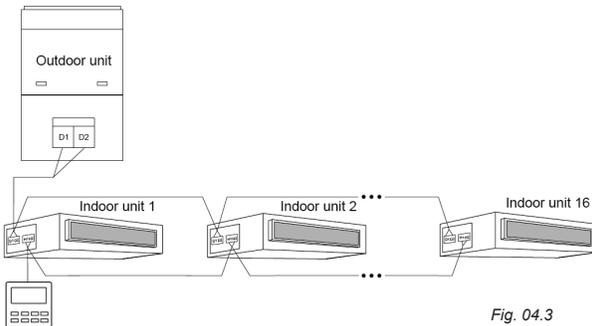


Fig. 04.3

(5) Wiring of wired controller and indoor unit network must be according to one of the four wiring method as shown in Fig. 04.1-04.4. As for the connection method shown in fig 04.2 and 04.4, there should be only one primary wired controller (address is 01) and one secondary wired controller (address 02). The quantity of wired controller can't exceed two.

Note:
 Series of indoor units include: Common Multi VRF Units; Fresh Air Units; Double-heat Sources Units; Combined Units; Except for fresh air units, double-heat sources units and combined units, the rest of indoor units belong to common multi VRF units.

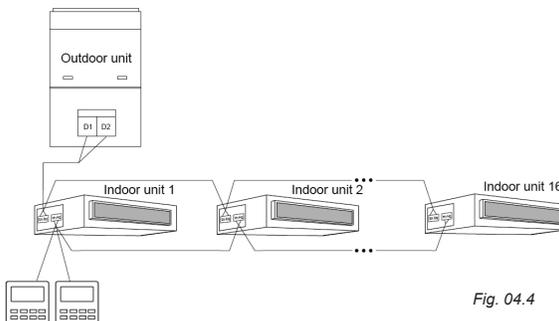


Fig. 04.4

INSTALLATION cont.

COMMUNICATION LINE SELECTION

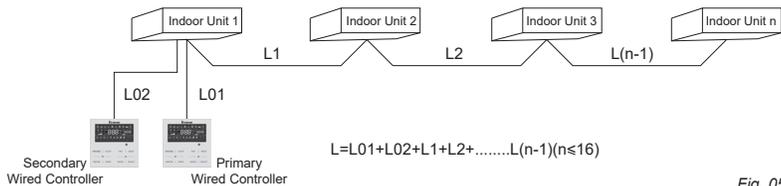


Fig. 05

Wire material type	Total length of communication line between indoor unit and wired controller L (m/feet)	Wire size (mm ² /AWG)	Material standard	Remarks
Light/Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	$L \leq 250m$ ($L \leq 820-1/5feet$)	2×0.75 mm ² ~2×1.25 mm ² (2×AWG18~2×AWG16)	IEC 60227-5:2007	(1)Total length of communication line can't exceed 250m (820-1/5feet). (2)The cord shall be Circular cord (the cores shall be twisted together). (3)If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

Note:

1. If the air conditioner is installed at the strong electromagnetic interference place, communication line of the wired controller must use shielding twisted pair.
2. Materials of communication line for wired controller must be selected according to this instruction manual strictly.

INSTALLATION PROCEDURE

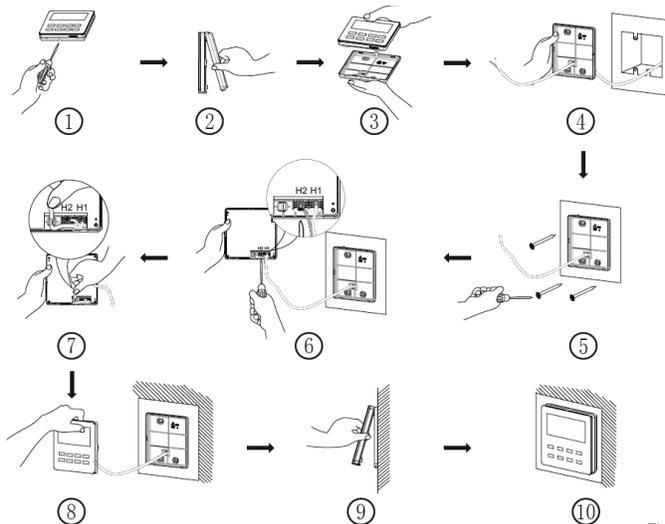


Fig. 06

Figure above is the simple installation process of wired controller; please pay attention to the following items:

- (1) Before installation, please cut off the power for indoor unit.
- (2) Pull out the two-core twisted pair from the installation hole on wall, and then pull this wire through the "D" shape hole at the rear side of mount plate of wired controller.
- (3) Stick the bottom plate of wired controller on the wall and then use self-tapping screw ST3.9X25 MA to fix mount plate and installation hole on wall together.
- (4) Connect two-core twisted pair to H1 and H2 wiring column and then fix the screws.
- (5) Set two-core into the groove at left side of wiring column, and then bundle panel and mount plate of wired controller together.

Note: If the wire size of the selected communication line is too large, you can peel some sheath layer of communication wire to satisfy installation requirements.

Disassembly

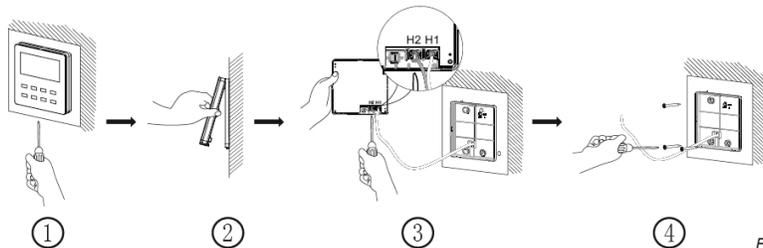


Fig. 07

COMMISSIONING

Set Primary Indoor Unit

Under Off status, long press MODE button for 5s to set the corresponding indoor unit of wired controller as primary indoor unit. "PRIMARY" icon will be light after finishing setting.

Note:

There is a primary indoor unit in a system, other secondary indoor units can be set as primary unit, in which case, the original primary unit will become a secondary unit.

In one system, only one set of primary indoor unit is allowed. If system detects that there are several primary units, it will designate the unit with the smallest project number as a primary unit.

PARAMETER ENQUIRY

Unit parameters can be checked in unit On or Off status.

- (1) Long press "FUNCTION" button for 5s to enter the interface of viewing unit parameters. "C00" is displayed in temperature zone and "CHECK" icon is light;
- (2) Press "▲" or "▼" button to select parameter code;
- (3) Press "ENTER/CANCEL" button to return to last step until exits viewing parameters.

Note:

- Under parameter viewing status, FAN, TIMER, SLEEP and SWING buttons are invalid. Press "ON/OFF" button to go back to the home page, while not to turn on/off the unit.
- Under parameter viewing status, the signal from remote controller is invalid.

Parameter code	Parameter name	Parameter range	Viewing method
C00	Entrance of adjustable parameter	---	In "C00" status, Timer zone shows the current indoor unit project number. When one wired controller is controlling multiple indoor units, then only the smallest project number will be displayed.
C01	View the project number of indoor unit and locate the faulted indoor unit	1-255; Project number of online indoor unit	<p>Operation method: Enter viewing, press MODE button in "C01" status to enter the interface of viewing indoor unit project number. Press "▲" or "▼" or unit.</p> <p>Display method: Temperature zone: displays error codes of the current indoor unit (The temperature zone will display the error codes in turn with an interval of 3 seconds if there are several malfunctions in one indoor unit.) Timer zone: displays present indoor unit project number /C5 malfunction of project number conflict</p> <p>Note: 1) If primary indoor unit exists in current indoor unit network, "PRIMARY" icon will be bright under "C01" interface. After entering the interface of viewing project number, "PRIMARY" icon will be bright only when the project number of primary indoor unit is selected. 2) System will not exit "C01" viewing automatically. User has to exit this interface manually.</p>
C03	View the indoor unit quantity of the system network	1-80	Timer zone: display indoor unit quantity of the system
C06	View priority operation	00: normal operation 01: priority operation	<p>Operation method: Enter viewing: press MODE button in "C06" status to enter the interface of viewing priority operation. Press "▲" or "▼" button to select indoor unit.</p> <p>Display method: Temperature zone: displays current indoor unit project number; Timer zone: displays current priority operation setting value of indoor unit.</p>

Parameter code	Parameter name	Parameter range	Viewing method
C07	View indoor ambient temperature	---	<p>Operation method: Enter viewing: press MODE button in "C07" status to enter the interface of viewing indoor ambient temperature. Press "▲" or "▼" button to select indoor unit.</p> <p>Display method: Temperature zone: displays current indoor unit project number; Timer zone: displays indoor ambient temperature.</p>
C08	View Filter Clean Reminder time	4-16: days	Timer zone: displays Filter Clean Reminder time
C09	View address of wired controller	01, 02	Timer zone: displays the address of wired controller
C11	View the indoor unit quantity in the case that one wired controller controls several indoor units at the same time	1-16	Timer zone: displays the indoor unit quantity controlled by the wired controller.
C12	View outdoor ambient temperature	---	Timer zone: displays outdoor ambient temperature.
C17	View indoor relative humidity	20~90 relative humidity 20%~90%	<p>Operation method: Enter into review process and press "MODE" button to enter into the review interface of indoor relative humidity under C17 status. Press "▲" or "▼" button to switch the number of indoor unit.</p> <p>Display method: Temp area: display current indoor unit's project number Timer zone: display indoor relative humidity</p>

Parameter code	Parameter name	Parameter range	Viewing method
C18	One-button viewing of indoor unit project number	1-255: Project Number of online indoor unit	<p>Operation method: Enter viewing, short-press “MODE” button in “C18” status to turn on the function of one-button viewing indoor unit project code, and the wired controller will enter the interface of viewing indoor unit project code. Press “▲” or “▼” button to select the indoor unit.</p> <p>Display method: Temperature zone: displays number of the current indoor unit Timer zone: displays project number of indoor unit</p> <p>Note: 1) After turning on the one-button viewing function, each wired controller of the entire system will display the project number of its controlling indoor unit on its timer zone. (The timer zone will display different project numbers in turn with an interval of 3 seconds if one wired controller is controlling multiple indoor units.) 2) Secondary wired controller cannot view “C18”.</p> <p>Cancel method: 1) If user exits the “C18” interface manually, the one-button viewing function will be immediately turned off. 2) If system exits the “C18” interface due to no action in 20 seconds, user has to press the “ON/OFF” button under on/off status to cancel this function. 3) After the one-button viewing function is turned on, pressing the “ON/OFF” button of any wired controller of the same system network under on/off status will cancel this function.</p>
C20	View the air outlet temperature of Fresh Air Indoor Unit*	---	<p>Operation method: Enter viewing, short-press “MODE” button in “C20” status to enter the interface of viewing air outlet temperature of Fresh Air Indoor Unit.</p> <p>Press “▲” or “▼” button to select the indoor unit.</p> <p>Display method: Temperature zone: displays current indoor unit project number Timer zone: displays air outlet temperature of Fresh Air Indoor Unit</p> <p>Note: only applicable to Fresh Air Indoor Unit.</p>

PARAMETER SETTINGS

Unit parameters can be set in unit On or Off status.

(1) Long press FUNCTION button for 5s and the temperature zone displays "C00"; long press FUNCTION button for another 5s to enter the interface of setting wired controller parameters. "P00" is displayed in temperature zone;

(2) Press "▲" or "▼" button to select parameter code. Press MODE button to enter parameter setting. At that time, parameter value is blinking. Press "▲" or "▼" button to adjust the parameter value and press ENTER/CANCEL button to Parameter finish setting.

(3) Press ENTER/CANCEL button to return to last step until exists setting parameters.

Parameter code	Parameter name	Parameter range	Viewing method	Note
P10	Set primary indoor unit	00: do not change current primary/secondary state of indoor unit 01: set current indoor unit as primary indoor unit	00	When set the corresponding indoor unit of wired controller as primary indoor unit, "MASTER" icon will be bright after finishing setting.
P11	Set infrared receiver of wired controller	00: forbidden 01: activated	01	It can be set only through primary wired controller. When infrared receiver of wired controller is forbidden, the wired controller can't receive the signal from remote controller and it is operated through buttons.
P13	Set address of wired controller	01: primary wired controller 02: secondary wired controller	01	When two wired controllers control one indoor unit (or several indoor units), the addresses of the two wired controllers should be different. Assistant wired controller (02) is without unit parameter setting function except setting its address.
P14	Set Q'ty of group control indoor units	00: Avoid this function 01-16: indoor unit quantity	01	Set the corresponding value according to the connected indoor unit quantity.

Parameter code	Parameter name	Parameter range	Viewing method	Note
P16	Set unit of temp	00:Celsius 01:Fahrenheit	00	---
P30	Set static pressure of indoor fan motor	01-09: static pressure level of indoor fan motor	05	There are two kinds of static pressure level: 5 levels: 03, 04, 05, 06, 07 9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09 Wired controller can be adapted to the different types of indoor units that it possesses 1 - 9 level selection for setting static pressure. When the indoor unit with 5 static pressure levels received the level setting sent by wired controller is less than 3, it will be settled as the 3rd level; if it is over 7, it will be settled as the 7th level.
P31	High ceiling installation	00: installation height of standard ceiling 01: installation height of high ceiling	00	Only applicable to cassette units
P33	Set Timer	00: general timer 01: clock timer	00	--
P34	Clock Timer repetition is valid	00: once 01: repeat everyday	00	Available only when timer is set to clock timer.
P37	Cooling setting temp under auto mode	17°C~30°C (63°F~86°F)	25°C (77°F)	When the temperature unit is °C, cooling setting temperature minus heating setting temperature 1°C. When the temperature unit is °F, cooling setting temperature minus heating setting temperature °F 2°F
P38	Heating setting temp under auto mode	16°C~29°C (61°F~84°F)	20°C (68°F)	

Parameter code	Parameter name	Parameter range	Viewing method	Note
P43	Set priority operation	00: normal operation 01: priority operation	00	When power supply is insufficient, the indoor units which are set to priority operation can operate, while other indoor units are forced to be turned off.
P46	Clear Filter Clean accumulated time	00: do not clear 01: clear	00	---
P49	Opening angle of indoor unit air-return plate	01: angle 1(25°) 02: angle 2(30°) 03: angle 3(35°)	01	Only applicable to units with air-return plate.
P50	Air outlet temp setting for Fresh Air Indoor Unit in cooling	16°C~30°C (61°F~86°F)	18°C (64°F)	Only applicable to Fresh Air Indoor Unit.
P51	Air outlet temp setting for Fresh Air Indoor Unit in heating	16°C~30°C (61°F~86°F)	22°C (71°F)	Only applicable to Fresh Air Indoor Unit.
P54	Union setting of Fresh Air Indoor Unit	00: without union control 01: with union control	00	After union function is set, Fresh Air Indoor Unit will be turned on/off following the on/off status of common indoor unit. Besides, Fresh Air Indoor Unit can also be turned on/off manually. Note: only applicable to Fresh Air Indoor Unit.

OPERATION

MODE SETTING

The appliance is equipped with 8 modes or 5 modes depending on the type of appliance. Mode setting helps you switch between each of these modes.

TEMPERATURE SETTING

Helps set the temperature for the appliance. Temperature can be displayed in Celcius or Fahrenheit based on the users preference.

FAN SPEED SETTING

The appliance is programmed to have 6 different fan speed settings;
Auto - Low - Medium Low - Medium - Medium High - High

TURBO FUNCTION

This function quickly and effectively sets the room to desired temperature by activating fast cooling or heating function.

TIMER SETTING

The wired controller is equipped with two kinds of timer: general timer and clock timer. General timer is factory defaulted setting.

SWING SETTING

The controller is programmed for left-right swing and/or up-down sing function. Not all features apply to all models, please check your appliance specifications.

QUIET SETTING

Decreases the noise of indoor unit. Quiet function has two modes: Quiet mode and Auto Quiet mode. It is only available in Auto, Cooling, Dry, Fan, Heating, 3D heating, Space heating mode.

SLEEP SETTING

The appliance will operate according to the preset sleep curve to provide a comfortable sleep environment.

AIR EXCHANGE SETTING

Adjusts the amount of indoor fresh air to improve air quality and keep indoor air fresh.

OPERATION cont.

LIGHT ON/OFF SETTING

Backlight of controller can be turned on or off.

SAVE FUNCTION SETTING

Air conditioner can be operated in small temperature range by setting the minimum temperature under Cooling and Dry modes and setting maximum temperature under Heating, 3D Heating and Space Heating modes. Thus, achieving energy savings.

FILTER CLEAN REMINDER SETTING

Unit will remember its own operating time and will remind you to clean the filter. A dirty filter will result in bad heating and cooling performance, abnormal protection, bacteria gathering, etc.

X-FAN SETTING

If unit is turned off under Cooling or Dry mode, the evaporator of indoor unit will be dried off automatically to prevent bacteria and mould from gathering.

ABSENCE SETTING

This is used to maintain indoor temperature when occupants are not in the room. This function can only be used under heating mode.

CHILD LOCK FUNCTION

All buttons will be disabled while child lock function is active.

REMOTE SHIELD FUNCTION

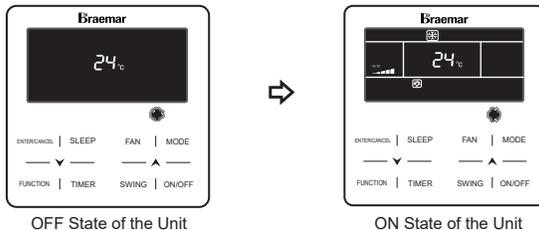
Remote monitor or central controller can disable the relevant functions of wired controller so as to realize the function of remote control.

GATE-CONTROL FUNCTION

When there is Gate-control System, user can insert a card to turn on the unit or pull off a card to turn off the unit. When the card is re-inserted, the unit will recover the operation as state in memory.

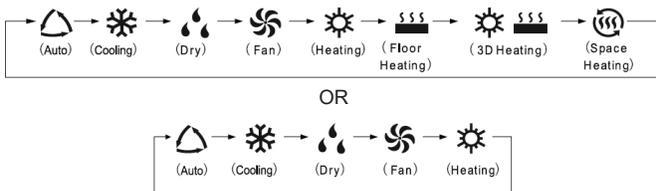
ON/OFF

Press the On/Off button to turn the unit on or off.



MODE SETTING

Under the ON state of the unit, press the Mode button to switch the operation modes as the sequence shown below.



Note:

- The available modes are different for different models, the wired controller will automatically select mode setting range according to the model of indoor unit.
- The Auto mode can be only set at the primary indoor unit.
- Under Auto mode, if the indoor unit is running under Cooling, the icons “” and “” will light up; if the indoor unit is running under Heating, the icons “” and “” will light up.

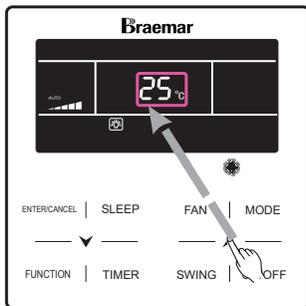
OPERATION cont.

TEMPERATURE SETTING

Press “▲” or “▼” button to increase or decrease setting temperature when the unit is on. Pressing either of them continuously, will increase or decrease by 1°C or 1°F every 0.3s.

In Cooling, Dry, Fan and Heating mode, temperature setting range is 16°C~30°C or 61°F~86°F.

In Dry mode, the temperature setting range is 12°C or 54° F, 16°C~30°C or 61° F~86° F. In Dry mode, when temperature is 16°C or 61° F, continuously press “▼” button twice to decrease temperature to 12°C or 54° F (when save function is activated, the temperature in Dry mode can't be adjusted to 12°C or 54° F and the setting range is “lowest temperature in Save mode” ~ 30°C or 86° F).

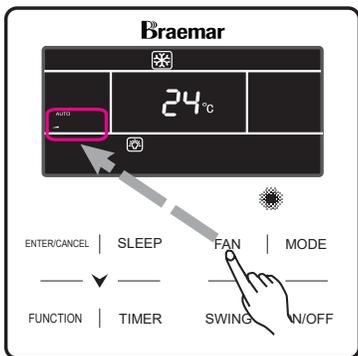


Note:

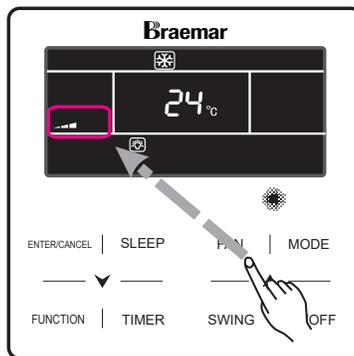
- Under Auto mode or Absence function is activated, the setting temperature can not be adjusted by pressing “▲” or “▼”.
- When the wired controller is connected with a Fresh Air Indoor Unit, fresh air indoor unit code “FAP” will be displayed. Setting temperature won't be displayed and can't be adjusted via “▲” or “▼” button. The air outlet temperature in cooling or heating can only be set in the parameter setting status.

FAN SPEED SETTING

Press the FAN button to vary the speeds as shown in the sequence below:



Press FAN button to adjust the fan speed.



Press FAN button again to increase the fan speed.

OPERATION cont.

TURBO FUNCTION SETTING

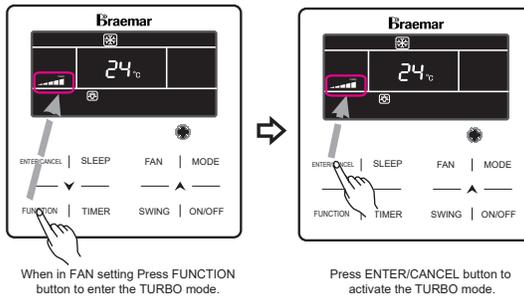
Press FUNCTION button to switch to “**TURBO**” function. The TURBO icon will flash.

Press the ENTER/CANCEL to start function. When the “**TURBO**” function is activated the “**TURBO**” icon will be displayed.

To deactivate the “**TURBO**” function press the FUNCTION button to switch to “TURBO” function, then press the ENTER/CANCEL button to deactivate.

Note:

- In Dry mode, fan speed is low and can't be adjusted.
- When the wired controller is connected with a Fresh Air Indoor Unit, fan speed of indoor unit will be high fan speed only. Fan speed of indoor unit can't be adjusted via “FAN” button.
- If indoor unit's fan speed is set auto, indoor unit will change fan speed automatically according to room temperature in order to make the room temperature more stable and comfortable.



TIMER SETTING

The wired controller is equipped with two kinds of timer: General timer and Clock timer. General timer is factory defaulted setting.

For the GENERAL TIMER setting to activate, Parameter setting P33 will need to be set during installation. If the GENERAL TIMER cannot be activated consult the installation manual.

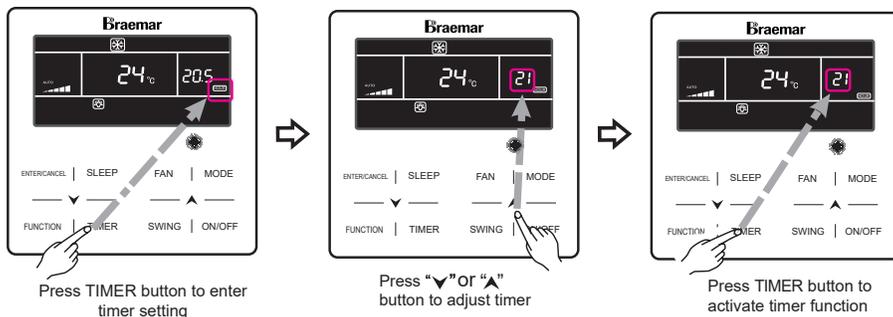
GENERAL TIMER (Timer setting range: 0.5~24h)

TIMER ON Setting

When the unit is OFF, press the TIMER button, afterwards “HOUR” will be displayed, press “▲” or “▼” button to adjust the timer, then press the TIMER button to confirm.

TIMER OFF Setting

When the unit is ON, press the TIMER button, “XX HOUR” will be displayed and flash, press “▲” or “▼” button to adjust the timer, then press the TIMER button to confirm.



CLOCK SETTING

When the Clock Timer (parameter 33) is selected, the “🕒” symbol will appear in the ‘timer’ section of the display. To set the Clock:

Press and hold the TIMER button for 5s, the “🕒” symbol will blink. Press the “▲” or “▼” buttons to adjust the clock time. Press ENTER/CANCEL button to save the setting and exit.

OPERATION cont.

CLOCK TIMER

The clock timer can be set for 3 modes: Unit ON, Unit OFF and Unit ON/OFF.

Press TIMER button to enter Timer function, the ON symbol will blink. Press “▲” or “▼” buttons to adjust the ON time. Press ENTER/CANCEL to save and exit – the ON symbol will remain. Alternately, press TIMER button instead of ENTER/CANCEL to save and move to OFF timer setting.

OFF symbol will blink. Press “▲” or “▼” buttons to adjust the OFF time. Press ENTER/CANCEL to save setting. The OFF symbol will remain and the clock and time will be shown.

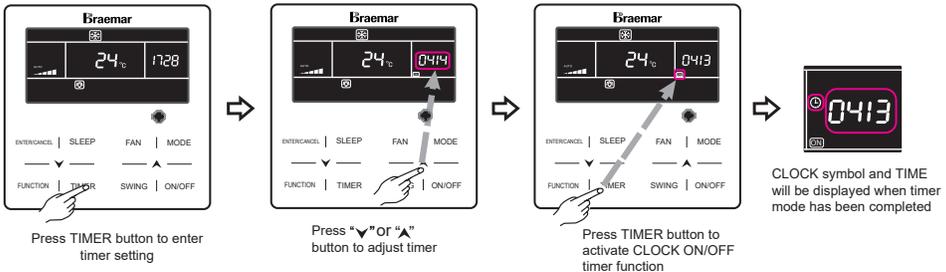
Cancel timer

To cancel the clock ON timer, Press the TIMER function to enter setting. Press the ENTER/CANCEL to cancel clock ON timer.

To cancel the clock OFF timer, Press the TIMER function to enter setting. Press the ENTER/CANCEL to cancel clock OFF timer.

NOTE:

Pressing “▲” or “▼” button increases or decrease the timer time by 1 min intervals. Holding “▲” or “▼” button for 5s increases or decreases the time by 10 min intervals.



NOTE:

For the CLOCK TIMER setting to activate, Parameter setting P33 will need to be set during installation. If the CLOCK TIMER cannot be activated consult the installation manual.

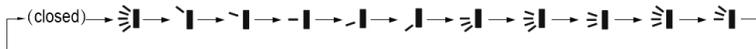
SWING SETTING

In unit on status, up & down swing function and left & right swing function can be set.

Up & down swing function

Up & down swing function has two modes: simple swing mode and fixed-angle swing mode. In unit off status, press “SWING” button and “▲” button together for 5 seconds to switch between simple swing mode and fixed-angle swing mode. Up & down swing icon “” will blink during switching.

1. When simple swing mode is set in unit on status, press “SWING” button to start or stop up & down swing.
2. When fixed-angle swing mode is set in unit on status, press “SWING” button to adjust swing angle circularly as below:



Left & right swing function

Start left & right swing: In unit on status, press “FUNCTION” button to switch to left & right swing function with left & right swing icon “” blinking, and then press “ENTER/CANCEL” button to start left & right swing. When left & right swing is activated, left & right swing icon “” will be bright.

Cancel left & right swing: When left & right swing is activated, press “FUNCTION” button to switch to left & right swing with left & right swing icon “” blinking, and then press “ENTER/CANCEL” button to cancel left & right swing.

OPERATION cont.

QUIET SETTING

Press the FUNCTION button to select Quiet or AutoQuiet function.

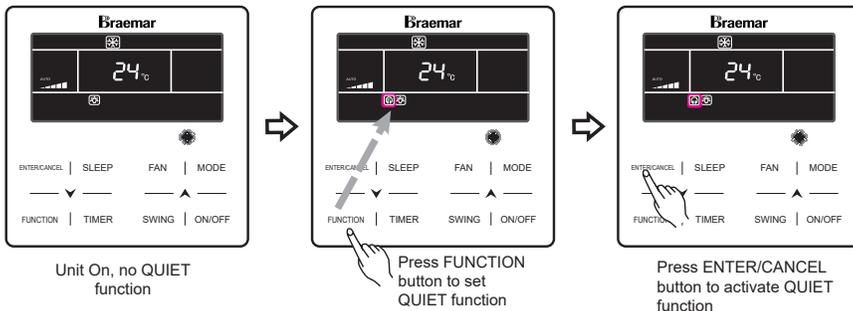
The QUIET “” or AutoQuiet “” icon will flash. Press ENTER/CANCEL button to activate.

When the “QUIET” function is activated, press the FUNCTION button to select “QUIET” icon, press ENTER/CANCEL button to deactivate “QUIET” function.

NOTE:

“QUIET” function is available only in Auto, Cooling, Dry, Fan, Heating, 3D Heating, Space Heating mode.

When Quiet function is enabled, indoor unit will operate at quiet fan speed. Fan speed is lowered so as to reduce the noise of indoor fan motor. When Auto Quiet function is enabled, indoor unit will change fan speed automatically according to room temperature. After room temperature reaches a set point, unit will operate at quiet fan speed.



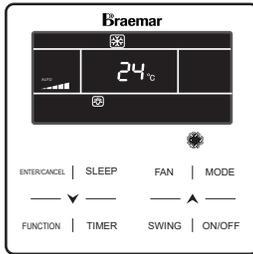
SLEEP SETTING

Sleep on: Press the “SLEEP” button to activate the “SLEEP” function.

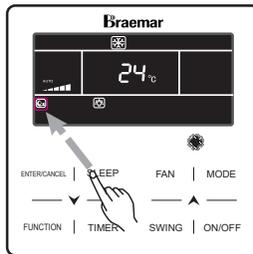
Sleep off: When the “SLEEP” function is activated, press the “SLEEP” button to deactivate the “SLEEP” function.

NOTE:

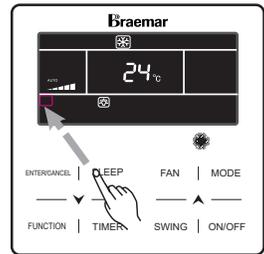
- Under auto, Fan, or Floor Heating mode, this SLEEP function is not available
- When the SLEEP function is cancelled. If the QUIET function is still activated before activating the SLEEP function, only the SLEEP function will be deactivated.



Unit On, no SLEEP function



Press SLEEP button to activate SLEEP function



Press SLEEP button to deactivate SLEEP function

OPERATION cont.

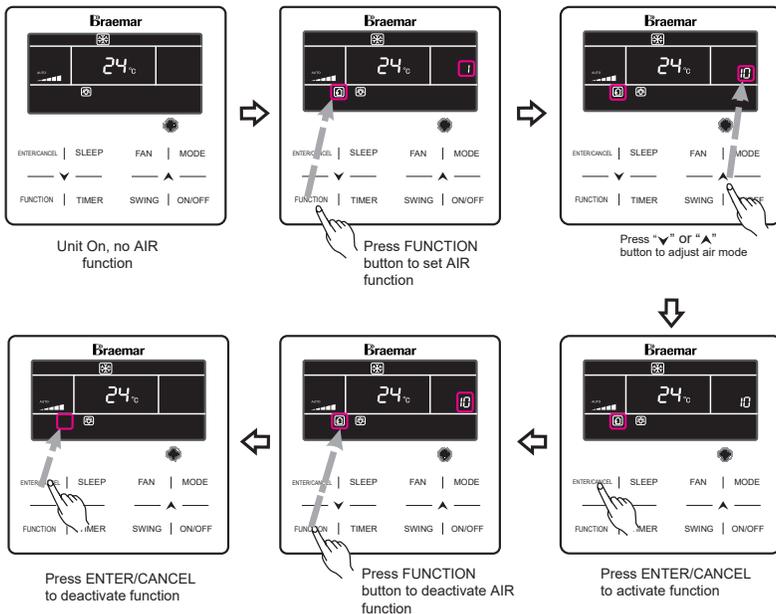
AIR EXCHANGE SETTING

When the unit is ON, press the FUNCTION button to select “AIR” function, the “AIR” function icon will flash, press “▲” or “▼” to adjust the “AIR” type. Press the ENTER/CANCEL button to activate.

Setting 1-9: The unit runs continuously for 60 minutes, fresh air valve runs for 6 minutes (setting 1) to 54 minutes (setting 9), in 6 minute increments.

Setting 10: The Unit runs continuously for 60 minutes, fresh air valve always runs.

To deactivate the “AIR” function press FUNCTION then select “AIR” with the “AIR” icon flashing, press the ENTER/CANCEL button. The “AIR” icon will disappear.



Note:

Air function is only effective for units with air function and fresh air valve.

The following table indicates the opening time of fresh air valve per unit of time (60min) corresponding to the level of Air setting. Opening time of fresh air valve is the initial N minutes per unit of time. Example:

The level of Air setting is set to 1, then unit starts timing and fresh air valve is open. 6 minutes

Fresh air valve is closed and unit keeps running. After timing for 60minutes, unit restarts timing and fresh air valve is open again 6 minutes later, the valve is closed and the cycle repeats.

Level of Air Setting	1	2	3	4	5	6	7	8	9	10
Opening time of fresh air valve	60/6	60/12	60/18	60/24	60/30	60/36	60/42	60/48	60/54	Always ON
Note: time indicated in the table: unit's operating time (min) / opening time of fresh air valve per operating time (min)										

LIGHT ON/OFF SETTING

Light On/Off Function: Light of indoor unit can be turned on or off.

Turn on the Light: When unit is on or off, press FUNCTION button to select Light function “” icon will blink. Press ENTER/CANCEL to turn on the light.

Turn off the Light: When light of indoor unit is on, press FUNCTION button to select Light. Then press ENTER/CANCEL to turn off the light.

Note:

When there is no button operation on the wired controller or no remote control signal is received for 20s continuously:

- If Light function is activated, the back light of LCD will turn to half bright.
- If Light function is off, the back light of LCD will be off.

OPERATION cont.

SAVE FUNCTION SETTING

The SAVE setting will make the air conditioner operate in a smaller temperature range by limiting the lower temperature value in the COOL or DRY mode and upper value in HEAT mode. There're two kinds of setting method for Save function. As for the Save function for different kinds of wired controller, the setting method is one of those two methods.

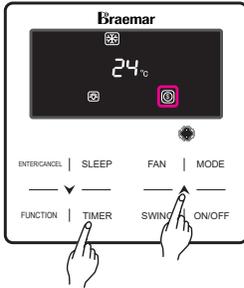
Setting method one:

Start up Save function for Cooling: When the unit is off, simultaneously press "TIMER" and "▲" buttons for 5s, the buzzer will give out a sound and then unit will enter into Save setting mode. "Ⓢ" icon is blinking. "MIN" icon and Mode icon are on. Press "MODE" button to switch to Cooling or Dry mode. Press "▲" or "▼" button to adjust the temperature limit for Save function; press "ENTER/CANCEL" button to start up Save function.

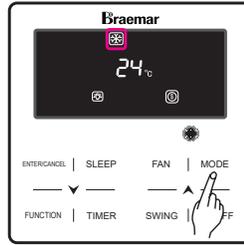
Start up Save function for Heating: When the unit is off, simultaneously press "TIMER" and "▲" buttons for 5s, the buzzer will give out a sound and then unit will enter into Save setting mode. "Ⓢ" icon is blinking. "MAX" icon and Mode icon are on. Press "MODE" button to switch to Heating or 3D Heating or Space Heating mode. Press "▲" or "▼" button to adjust the temperature limit for Save function. Press "ENTER/CANCEL" button to start up Save function.

After starting up save function, it will display "Ⓢ" icon for all modes under on and off status.

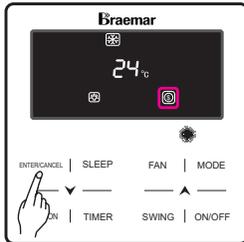
Cancel save function: When the unit is off, press "TIMER" and "▲" buttons for 5s to enter into save setting, press "ENTER/CANCEL" button to cancel Save function of all modes.



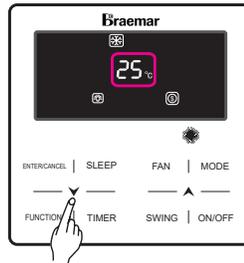
Press TIMER + ▲ button for 5 seconds and set SAVE inOFF status



Press MODE button and select Cooling or Dry mode.



Press ENTER/CANCEL button to activate SAVE function.



Press "▼" or "▲" button to adjust the minimum temperature.

OPERATION cont.

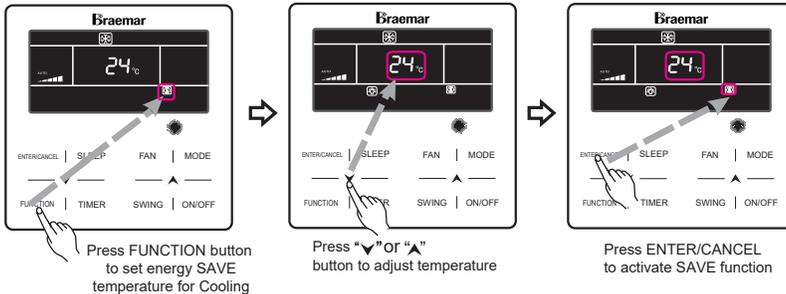
Setting method two:

Energy Saving Setting for Cooling: When the unit runs under the COOL or DRY mode, press the FUNCTION button to select the “SAVE” function. While “SAVE” icon is flashing and “MIN” icon is lit up, press “▲” or “▼” to adjust the lower limit, then press ENTER/CANCEL to confirm and activate this function.

Energy Saving Setting for Heating: When the unit runs under the HEAT mode, press the FUNCTION button to select the “SAVE” function, with the “\$” icon flashing, press “▲” or “▼” to adjust the lower limit, then press ENTER/CANCEL to confirm.

The “SAVE” function can be deactivated by pressing the FUNCTION button to select the “SAVE” then press the ENTER/CANCEL button.

NOTE: When the “SAVE” function is turned on and the set temperature exceeds the set limit . The “\$” icon will flash three times followed by 2 “beeps”.



FILTER CLEAN REMINDER SETTING

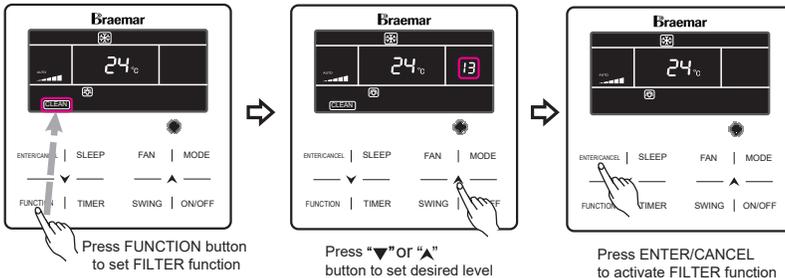
Turn on Filter Clean Reminder Function:

When unit is on, press FUNCTION button and select Filter Clean Reminder. The “CLEAN” icon will flash. Press “▲” or “▼” button to adjust the cleaning level, between 10-39. Press ENTER/CANCEL to activate this function.

Turn off Filter Clean Reminder Function:

When unit is on and this function has been activated, press FUNCTION button and select “CLEAN”. The “CLEAN” icon will flash. Set the cleaning level as 00 and press ENTER/CANCEL to deactivate.

NOTE: When Filter Clean Reminder activates, the “CLEAN” icon will light up to remind you to clean the filter. Press the FUNCTION button to select the Filter Clean Reminder Function, then press ENTER/CANCEL to dismiss the reminder, this will reset the filter reminder.



OPERATION cont.

Level of Contamination	Description of Levels
Turn off Clean	Timer zone shows 00
Light	The first digit shows 1 while the second one shows 0, each increment of 1 in the second number increases operating time by 500 hours. Range: 5500 - 10000 hours.
Medium	The first digit shows 2 while the second one shows 0, each increment of 1 in the second number increases operating time by 400 hours. Range: 1400 - 5000 hours.
Heavy	The first digit shows 3 while the second one shows 0, each increment of 1 in the second number increases operating time by 100 hours. Range: 100 - 1000 hours.

X-FAN SETTING

X-fan Function: If unit is turned off under Cooling or Dry mode, the evaporator coil of indoor unit will be dried off automatically to prevent the build up of bacteria and mould.

Turn on X-fan: When unit is in Cooling or Dry mode, press the FUNCTION button to select “X-fan” function. The “X-fan” icon will flash. Then press ENTER/CANCEL button to turn on this function.

Turn off X-fan: When “X-fan” function is on, press FUNCTION button to select “X-fan”. Then press ENTER/CANCEL button to turn off this function.

ABSENCE SETTING

Turn on Absence Function: Under Heating mode, press FUNCTION button to select Absence. The “” icon will flash. Then press ENTER/CANCEL button to activate this function.

Turn off Absence Function: When this function is on, press FUNCTION button to select Absence. The “” icon will blink. Press ENTER/CANCEL button to turn off this function.

LOCK FUNCTION

When the unit is ON or OFF to activate the LOCK function press “▲” and “▼” buttons at the same for 5s till the wired wall controller enters the lock state and the LCD displays “”.

Press “▲” and “▼” buttons at the same time for 5s to quit the lock state.

Under the lock state, pressing any other buttons with give no response.

REMOTE SHIELD FUNCTION

Remote Shield Function: A central controller can disable the control functions of the wired controller.

When the shield function is activated the controls on the wired wall controller will be disabled. When the central controller activates the remote shield function the “SHIELD” icon will show.

GATE-CONTROL FUNCTION

When there is Gate-control System, The user can insert a card to turn on the unit or pull out the card to turn off the unit. When the card is re-inserted, the unit will resume operation. When the card is pulled out the “” icon will show. Both the unit as well as the wired remote will not be in operation. The “” icon will flash. (This function is optional and may not be applicable to your unit).

NOTE:

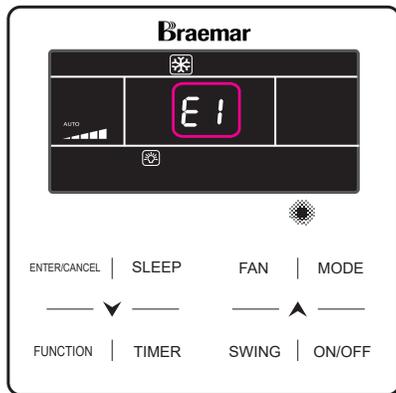
The model cannot be connected to the gate control system on it own. For the gate control system to be activated it must be connected with a wired controller that includes a gate control signal detecting function.

ERROR DISPLAY

When an error occurs to the unit, the error code will be shown on the wired controller. When multiple errors simultaneously happens, the error codes will be shown cyclically on the display.

When an error occurs, please immediately shut down the unit and contact your Seeley approved service agent.

A typical error message is shown - "E1" means the high pressure protection.



ERROR CODES FOR OUTDOOR UNITS

Error Code	Description	Error Code	Description	Error Code	Description
E0	Outdoor Unit Error	F9	Compressor 5 Discharge Temperature Sensor Error	FU	Compressor 2 Top Temperature Sensor Error
E1	High Pressure Protection	FA	Compressor 6 Discharge Temperature Sensor Error	U1	Compressor 1 Over-Current Protection
E2	Discharge low Temperature Protection	Fb	Compressor 2 Top Temperature Sensor Error	U2	Compressor 2 Over-Current Protection
E3	Low Pressure Protection	Fc	Compressor 2 Current Sensor Error	U3	Compressor 3 Over-Current Protection
E4	Excess Discharge Temperature Protection of compressor	Fd	Mode Exchanger Outlet Pipe Temperature Sensor Error	U4	Compressor 4 Over-Current Protection
F0	Bad Performance of the Outdoor Mainboard	Ff	Compressor 4 Current Sensor Error	U5	Compressor 5 Over-Current Protection
F1	High Pressure Sensor Error	FF	Compressor 5 Current Sensor Error	U6	Compressor 6 Over-Current Protection
F3	Low Pressure Sensor Error	FH	Compressor 1 Current Sensor Error	U7	4-way Blow-by Protection
F5	Compressor 1 Discharge Temperature Sensor Error	FJ	Compressor 6 Current Sensor Error	U8	System Pressure Over-ratio Protection
F6	Compressor 2 Discharge Temperature Sensor Error	FL	Compressor 3 Current Sensor Error	U9	System Pressure Under-Ratio Protection
F7	Compressor 3 Discharge Temperature Sensor Error	Fm	Mode Exchanger Inlet Pipe Temperature Sensor Error	UA	Protection of Abnormal Pressure
F8	Compressor 4 Discharge Temperature Sensor Error	FP	Malfunction of DC motor	UL	Protection of Water Flow Switch

ERROR CODES FOR OUTDOOR UNITS cont.

Error Code	Description	Error Code	Description	Error Code	Description
b7	Oil return pipe is blocked	b7	Gas-Liquid Separator outlet Temperature Sensor Error	bL	Compressor 2 Top Temperature Sensor Detachment Protection
bF	Oil return pipe is leaking	b8	Outdoor Humidity Sensor Error	P0	Compressor Drive Board Error
UL	Protection of Low High-pressure	b9	Heat Exchanger Gas-out Temperature Sensor Error	P1	Compressor Drive board Malfunction
b1	Outdoor Ambient Temperature Sensor Error	bA	Oil-return Temperature Sensor Error	P2	Protection of Compressor Drive Board Power Supply
b2	Defrosting Temperature Sensor 1 Error	bC	Compressor 1 Top Temperature Sensor Detachment Protection	P3	Protection of Compressor Drive Board Module Reset
b3	Defrosting Temperature Sensor 2 Error	bE	Malfunction of Entry tube Temperature Sensor of Condenser	H0	Error of Fan Drive Board
b4	Subcooler Liquid-out Temperature Sensor Error	bF	Malfunction of Exit tube Temperature Sensor of Condenser	H1	Malfunction of Fan Drive Board
b5	Subcooler Gas-out Temperature Sensor Error	bH	System Clock Malfunction	H2	Protection of Fan Drive Board Power Supply
b6	Gas-Liquid Separator inlet Temperature Sensor Error	bJ	High and Low Pressure sensors are connected inversely		

ERROR CODES FOR INDOOR UNITS

Error Code	Description	Error Code	Description	Error Code	Description
L0	Indoor Unit Error	LF	Shunt Valve Setting Error	d9	Jumper Cap Error
L1	Indoor Fan Protection	LH	Low Air Quantity Warning	dA	Indoor Unit Hardware Address Error
L2	E-heater Protection	LU	Wrong Setting of Function DIP Switch	dB	Special Code: Field Debugging Code
L3	Water Full Protection	LP	Zero-crossing malfunction of PG motor	dC	Capacity DIP Switch Setting Error.
L4	Wired Controller Power Supply Error	LU	Inconsistent Branch of Group-controlled Indoor Units in Heat Recovery System	dE	Indoor Unit CO2 Sensor Error
L5	Anti-Frosting Protection	d1	Indoor Unit PC-Board Error	dH	Wired Controller PC-Board Error
L7	No Primary Indoor Unit Error	d3	Ambient Temperature Sensor Error	dL	Outlet Air Temperature Sensor Error
L8	Power Insufficiency Protection	d4	Inlet Pipe Temperature Sensor Error	dN	Swing Assembly Error
L9	Quantity Of Group Control Indoor Units Setting Error	d5	Malfunction of middle tube temperature sensor	YN	Fresh Air Inflow Temp Sensor Error
LA	Indoor Units Incompatibility Error	d6	Outlet Pipe Temperature Sensor Error	YB	Indoor Air Box Sensor Error
Lb	Inconsistency of Group-controlled Indoor Units in Reheat Dehumidification System	d7	Humidity Sensor Error	YD	Outdoor Air Box Sensor Error
Lc	Outdoor-Indoor Incompatibility Error	d8	Water Temperature Abnormality		

DEBUGGING CODES

Error Code	Description	Error Code	Description	Error Code	Description
U2	Outdoor Unit Capacity Code/Jumper Cap Setting Error	UL	Emergency Operation DIP switch setting of the compressor is wrong.	CE	Communication Failure Between Mode Exchanger and Indoor Unit.
U3	Phase Sequence Protection of Power Supply	CO	Communication between indoor unit and outdoor unit and the communication between indoor unit and wired controller have malfunction.	CF	Error of Multiple Primary Indoor Unit.
U4	Protection of Lack of Refrigerant	CE	Communication error between primary control and inverter compressor drive	CH	Rated capacity is too high.
U5	Wrong Address of Compressor Drive Board	CE	Communication error between primary control and inverter fan motor drive	CU	System addresses is incompatible.
U6	Valve Abnormal Alarm	CE	Error of Lack of Indoor Unit	CL	Rated capacity is too low.
U8	Indoor Unit Tube Malfunction	CE	Alarm of Indoor Unit Project Number Collision	CE	Indoor and Outdoor Network Error of Mode Exchanger
U9	Outdoor Unit Tube Malfunction	CE	Alarm of Wrong Number of Outdoor Unit	CE	Error of Multiple Primary Wired Controller
UE	Primary indoor unit is successfully set.	CE	Mode Exchanger Communication Error	CU	Communication Error between Indoor Unit and Remote Receiver
UE	Refrigerant Charging is ineffective.	CE	Outflow of Units IP Address	CE	Communication Error of No Primary in Mode Exchanger
UF	Indoor Unit Identification Error of Mode Exchanger	CE	Communication Failure Between Mode Exchanger and Outdoor Unit		

STATUS CODES

Error Code	Description	Error Code	Description	Error Code	Description
A0	Unit is waiting for debugging.	A0	Vacuum-pumping mode	A1	Filter Clean Reminder
A1	Check the compressor operation parameters.	A2	Emergency stop	A3	Remote Urgent Stop
A2	After-sales Refrigerant Reclaim	A4	Operation Restriction	A5	Compulsory defrosting
A3	Defrosting	A6	Cooling	A7	EVI Operating Mode
A4	Oil Return	A8	Fan		
A5	Online Testing	A9	Heating		

MAINTENANCE SCHEDULE

Please NOTE: The Maintenance Schedule covers Year 1 to Year 5

Installation Date:	/	/	Installer:					
Items to be done by the Home Owner/User (please sign in the places indicated)								
	Monthly	Annually	Year 1	Year 2	Year 3	Year 4	Year 5	
Air filter cleaning	✓							
Air filter replacement		✓						
Maintain required clearance around Outdoor unit		✓						

Items to be done by a Qualified Licensed Technician (Home owner/user must ensure that the technician signs and dates in the places indicated)	
	Annually
Check, clean or replace filter	✓
Check drain from indoor coil	✓
Check Outdoor unit clearances – maintain garden and debris	✓
Check refrigerant charge	✓
Check refrigeration connections for soundness	✓
Check outdoor fans	✓
Check electrical connections	✓
Check overall installation	✓
Report to the home owner/user all tasks that require attention	✓

Year 1 - Date:	/ /	Technician:	
Year 2 - Date:	/ /	Technician:	
Year 3 - Date:	/ /	Technician:	
Year 4 - Date:	/ /	Technician:	
Year 5 - Date:	/ /	Technician:	

To preserve your investment for many years after the expiry of warranty, we strongly recommend that you continue to maintain and service the Braemar Air Conditioner appliance as per the items and frequency set out in the Schedule, and as indicated elsewhere in the Owner's Manual.

OPERATION TIPS

The following events may occur during normal operation:

1. Protection of the air conditioner.

Compressor protection

- The compressor cannot restart for 3 minutes after it stops.
- The supply air drops below a pre-determined set point; this prevents the indoor coil from freezing.

2. A white mist coming out from the Indoor unit.

-A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.

3. Low noise of the air conditioner.

- You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the sound of the refrigerant flowing or coming to a stop.
- You may also hear a low “squeak” sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the Appliance when the temperature is changing.

4. Dust is blown out from the Indoor unit.

This is a normal condition when the air conditioner has not been used for a long time or during first use of the appliance.

5. A peculiar smell comes out from the Indoor unit.

This is caused by the Indoor unit giving off smells permeated from building material, from furniture, smoke (for example if someone is cooking food), or from the duct work.

6. FAN operation during COOL mode.

When indoor air temperature reaches the setting on the wired wall control, the compressor will stop operating and after approximately 60 seconds the indoor fan will stop blowing air. When the room temperature rises back to the set point, the indoor fan and the compressor will start again.

Problem	Probable Cause	Remedy
1. The air conditioner does not run.	1.1 Power failure. 1.2 Fuse blown or circuit breaker open. 1.3 Thermostat adjustment too low (in heating mode) or too high (in cooling mode).	1.1 Wait for power to resume. 1.2 Replace the fuse or reset the breaker. 1.3 Check thermostat setting.
2. There is insufficient cooling.	2.1 The room was probably very hot when the system was started.	2.1 Wait a while so the appliance has enough time to cool the room.
3. 'Clicking' sound is heard from the air conditioner.	3.1 In heating or cooling operation, any plastic parts may expand or shrink due to a sudden temperature change. In this event, a clicking sound may occur.	3.1 This is normal.

Warranty Service Australia

1300 650 644



It is the policy of Seeley International to introduce continuous product improvement.

Accordingly, specifications are subject to change without notice.

Please consult with your dealer to confirm the specifications of the model selected.

