

technical data

Individual control systems

air conditioning systems

R-410A



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Individual control systems

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1 Possible individual control systems



Simplified remote control - BRC2C51

- simple, compact and easy to operate unit
- suitable for use in hotel bedrooms

Operation buttons:

- ON / OFF
- Operation mode selection
- Fan speed control
- Temperature setting

Display

- Cool / heat changeover control
- Heat Recovery Ventilation (HRV) in operation
- Set temperature
- Operating mode
- Centralised control indication
- Fan speed
- Defrost / hot start
- Malfunction adjustment
- Operating mode selection
- Fan speed control
- Filter sign reset
- Inspection test / operation



Simplified remote control for hotel applications - BRC3A61

- compact, user friendly unit
- ideal for use in hotel bedrooms

Operation buttons:

- ON / OFF
- Fan speed control
- Temperature setting

Display

- Heat Recovery Ventilation (HRV) in operation
- Set temperature
- Operating mode
- Centralised control indication
- Fan speed
- Defrost / hot start
- Malfunction



Infrared remote control - BRC4C* / BRC7C*

Operation buttons:

- ON / OFF
- Timer mode start / stop
- Timer mode on / off
- Programmed time
- Temperature setting
- Air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only)
- Operating mode
- Fan speed control
- Filter sign reset
- Inspection test / operation

Display

- Operating mode
- Battery change
- Set temperature
- Air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only)
- Programmed time
- Inspection test / operation
- Fan speed

1 Possible individual control systems



BRC1E51A

Wired remote control - BRC1E51A

User-friendly remote control with contemporary design

- **Easy to use:** all main functions directly accessible
- **Easy setup:** improved graphical user interface for advanced menu settings
- **Real time clock** with auto update to daylight saving time
- **Schedule timer** with holiday setting, improved weekly timer and home leave operation
- **Supports multiple languages** (English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish)*
- **Built-in backup power:** when a power failure occurs all settings remain stored up to 48 hours



BRC1D52

Wired remote control - BRC1D52

- Schedule timer:
 - Five day actions can be set as follows:
 - * set point: unit is switched ON and normal operation is maintained
 - * OFF: unit is switched OFF
 - * limits: unit is switched ON and min./max. control (cf. limit operation for more details)
- Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- Constantly monitoring of the system for malfunctions in a total of 80 components
- Immediate display of fault location and condition
- Reduction of maintenance time and costs

Display

- Operating mode
- Heat Recovery Ventilation (HRV) in operation
- Cool / heat changeover control
- Centralised control indication
- Group control indication
- Set temperature
- Air flow direction
- Programmed time
- Inspection test / operation
- Fan speed
- Clean air filter
- Defrost / hot start
- Malfunction

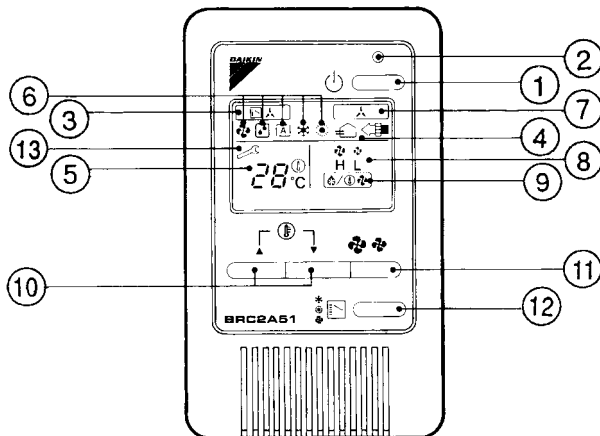
1 Possible individual control systems


















1 - 1 Survey

| DESCRIPTION | | FXFQ | FXZQ | FXCQ | FXKQ | FXDQ-M9 | FXDQ-PB/NB | FXSQ | FXMQ-P | FXMQ-MA | FXAQ | FXHQ | FXUQ | FXLQ | FXNQ |
|---|--------------|--------------------|-----------|---------|---------|---------|------------|---------|---------|---------|-----------|---------|-----------|---------|---------|
| Wired remote control | | BRC1E51A / BRC1D52 | | | | | | | | | | | | | |
| Infrared remote control | cooling only | BRC7F53 3F | BRC7E53 1 | BRC7C67 | BRC4C63 | BRC4C64 | BRC4C64 | BRC4C66 | BRC4C66 | BRC4C66 | BRC7E61 9 | BRC7E66 | BRC7C52 9 | BRC4C64 | BRC4C64 |
| | heat pump | BRC7F53 2F | BRC7E53 0 | BRC7C62 | BRC4C61 | BRC4C62 | BRC4C65 | BRC4C65 | BRC4C65 | BRC4C65 | BRC7E61 8 | BRC7E63 | BRC7C52 8 | BRC4C62 | BRC4C62 |
| Simplified remote control | | - | - | - | - | BRC2C51 | BRC2C51 | BRC2C51 | BRC2C51 | BRC2C51 | - | - | - | BRC2C51 | BRC2C51 |
| Simplified remote control for hotel use | | - | - | - | - | BRC3A61 | BRC3A61 | BRC3A61 | BRC3A61 | BRC3A61 | - | - | - | BRC3A61 | BRC3A61 |

2 BRC2C51 - Simplified remote control

2 - 1 Explanation of buttons and functions



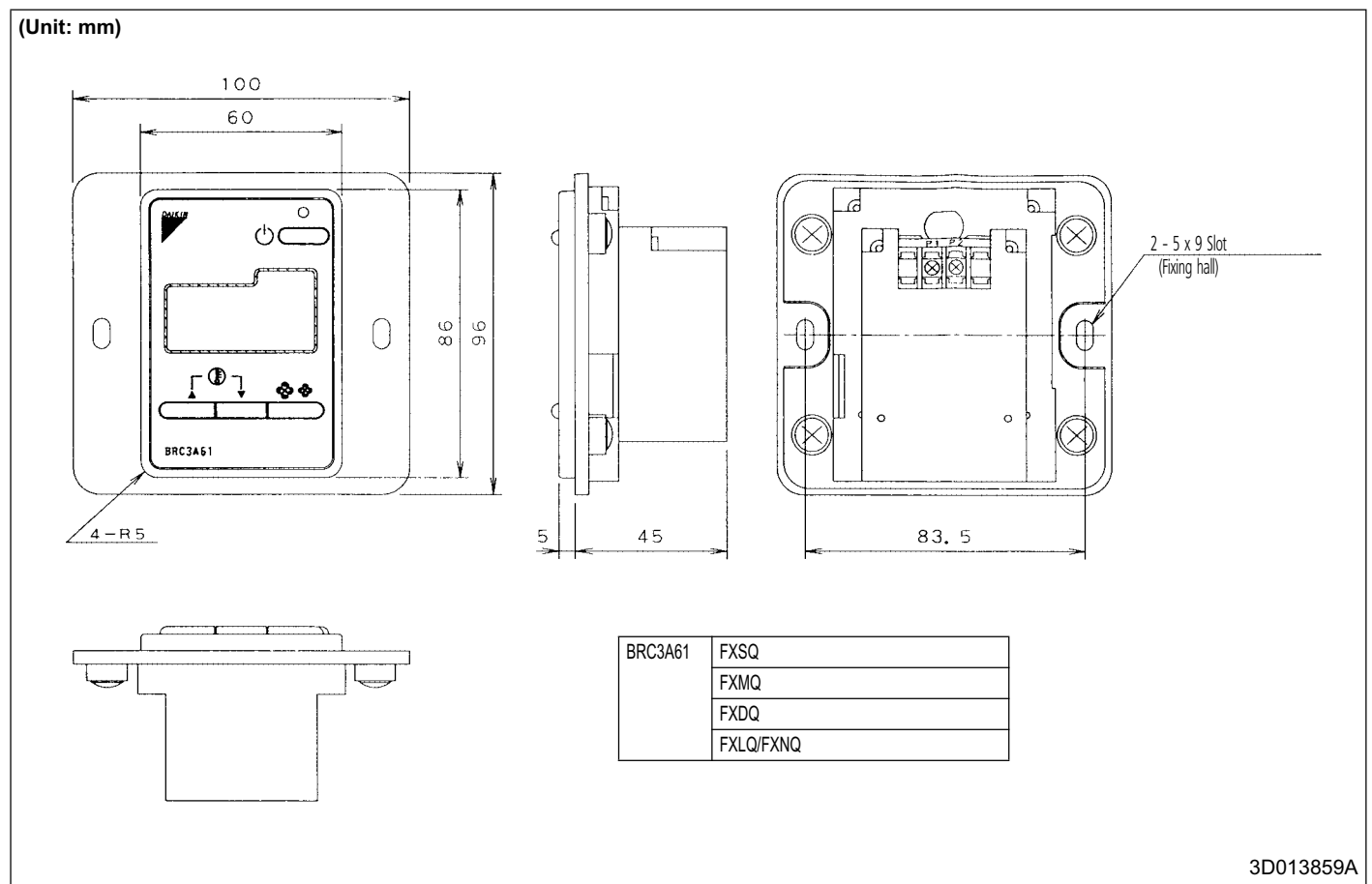
| | | | |
|---|--|----|--|
| 1 | ON/OFF BUTTON | 8 | DISPLAY '   ' (FAN SPEED) |
| | Press the button and the system will start. Press the button again and the system will stop. | | The display shows the fan speed: "HIGH" or "LOW". |
| 2 | OPERATION LAMP (RED) | 9 | DISPLAY '   ' (DEFROST/HOT START) |
| | The lamp lights up during operation and blinks in case of stop due to malfunction. | | Indicates that defrost or hot start (during which the fan is stopped till the temperature of air supply rises enough at the start of a heating run) is in progress. |
| 3 | DISPLAY '  ' (CHANGEOVER UNDER CONTROL) | 10 | TEMPERATURE SETTING BUTTON |
| | It is impossible to changeover heat/cool with the remote control when it shows this display. (As for details, see "SETTINGS OF MASTER REMOTE CONTROL" in the operation manual attached to the indoor unit.). | | Use this button for SETTING TEMPERATURE of the thermostat. ▲; Each press raises the set temperature by 1°C. ▼; Each press lowers the set temperature by 1°C. The variable temperature range is 16°C tot 32°C. |
| 4 | DISPLAY '  , "  , "OPTION" (VENTILATION / AIR CLEANING) | 11 | FAN SPEED CONTROL BUTTON |
| | This display shows that the total heat exchange unit and the air cleaning unit are in operation. (These are optional accessories.). | | Press this button to select the fan speed, HIGH or LOW, of your choice. |
| 5 | DISPLAY '  ' (SET TEMPERATURE) | 12 | OPERATION MODE SELECTOR BUTTON |
| | This display shows the set temperature. Only given during a cooling or heating operation. | | Press this button to select OPERATION MODE. |
| 6 | DISPLAY '  , '  ' , '  ' , '  ' , '  ' (OPERATION MODE) | 13 | DISPLAY '  ' (MALFUNCTION) |
| | This display shows the current OPERATION MODE.  is not available with outdoor units specially designed for cooling only. '  ' is reserved only for outdoor units capable of heat recovery. | | Indicates malfunction and blinks if the unit stops operating due to the malfunction. (As for details, see "TROUBLE SHOOTING" in the operation manual attached to the indoor unit.) |
| 7 | DISPLAY '  ' (UNDER CENTRALIZED CONTROL) | | |
| | When this display shows, the system is UNDER CENTRALIZED CONTROL. (This is not a standard specification) | | |

NOTE

- 1 Please note that the display shows all indications for the purpose of explanation only.
This is contrary to actual running situations.

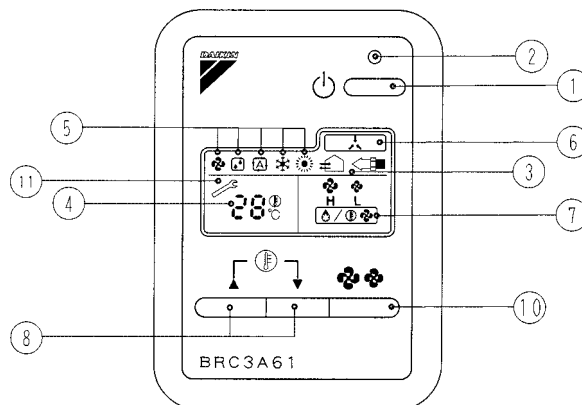
3 BRC3A61 - Simplified remote control for hotel applications

3 - 1 Dimensional drawing



3 BRC3A61 - Simplified remote control for hotel applications

3 - 2 Explanation of buttons and functions



| | | | |
|---|--|----|--|
| 1 | ON/OFF BUTTON Press the button and the system will start. Press the button again and the system will stop. | 7 | DISPLAY 'FAN SPEED' (FAN SPEED) The display shows the set fan speed: 'HIGH' or 'LOW'. |
| 2 | OPERATION LAMP (RED) The lamp lights up during operation or blinks if a malfunction occurs. | 8 | DISPLAY 'DEFROST/HOT START' (DEFROST/HOT START) Indicates that defrost or hot start (during which the fan is stopped till the temperature of air supply rises enough at the start of a heating run) is in progress. |
| 3 | DISPLAY 'VENTILATION / AIR CLEANING' (VENTILATION / AIR CLEANING) This display shows that the total heat exchange unit is in operation. (These is an optional accessory). | 9 | TEMPERATURE SETTING BUTTON Use this button for SETTING TEMPERATURE of the thermostat. ▲; Each press raises the set temperature by 1°C. ▼; Each press lowers the set temperature by 1°C. The variable temperature range is 16°C tot 32°C. |
| 4 | DISPLAY 'SET TEMPERATURE' (SET TEMPERATURE) This display shows the set temperature. Only given during a cooling or heating operation. | 10 | FAN SPEED CONTROL BUTTON Press this button to select the fan speed, HIGH or LOW, of your choice. |
| 5 | DISPLAY 'OPERATION MODE' (OPERATION MODE) This display shows the current OPERATION MODE. 'SUN' is not available with outdoor units specially designed for cooling only. 'SNOWFLAKE' is reserved only for heat recovery outdoor units. | 11 | DISPLAY 'MALFUNCTION' (MALFUNCTION) Indicates malfunction and blinks if the unit stops operating due to the malfunction. (As for details, see "TROUBLE SHOOTING" in the operation manual attached to the indoor unit.) |
| 6 | DISPLAY 'UNDER CENTRALIZED CONTROL' (UNDER CENTRALIZED CONTROL) When this display shows, the system is UNDER CENTRALIZED CONTROL. (This is not a standard specification) | | |

NOTES

- Please note that the display shows all indications for the purpose of explanation only. This is contrary to actual running situations.
- This remote control does not have "AIR FLOW DIRECTION ADJUST BUTTON." Don't operate the flap adjusting air flow direction by your hand. (FXFQ, FXCQ, FXAQ, FXKQ)

4 BRC1E51A - Wired remote control

4 - 1 Specifications

| AMBIENT TEMPERATURE | | | BRC1E51A |
|---------------------------------|----------|-----------------|---|
| Operation | Min. | °C | -10 |
| | Max. | °C | 50 |
| Storage | Min. | °C | -20 |
| | Max. | °C | 70 |
| DIMENSIONS | | | |
| Unit | Height | mm | 120 |
| | Width | mm | 120 |
| | Depth | mm | 19 |
| Packed unit | Height | mm | 160 |
| | Width | mm | 150 |
| | Depth | mm | 55 |
| LCD SIZE | | | |
| Height | | mm | 43.2 |
| Width | | mm | 68.85 |
| PACKING | | | |
| Material | | | Carton |
| Weight | | kg | 0.050 |
| TEMPERATURE SETPOINT RANGE | | | |
| Cooling | | °C | depends on the indoor unit |
| Heating | | °C | depends on the indoor unit |
| WEIGHT | | | |
| Unit | | kg | 0.200 |
| Packed unit | | kg | 0.415 |
| WIRING CONNECTIONS | | | |
| Type of wires | | | sheathed vinyl cord or cable |
| Wire size | | mm ² | 0.75-1.25 |
| For connection with indoor unit | Quantity | | 2 |
| | Remark | | P1-P2 wired connection from indoor unit |

4 BRC1E51A - Wired remote control

4 - 2 Functions

| Category | Function | BRC1E51A |
|----------------------|-------------------------------|----------------|
| Basic Functions | Drawing display | LCD |
| | Operation method | Menu selection |
| | Backlight function | ○ |
| Convenient | Clock function (time display) | ○ |
| | Display switch function | ○ *1 |
| | Keylock function | ○ |
| | Schedule (weekly) timer *4 | ○ |
| Maintenance/Services | Model name display | ○ *2 |
| | Contact dealer display | ○ *2 |
| | Operation time display | ○ *3 |
| | Operational data display | ○ *3 |

○: Possible

* 1 Used for setting Normal Display mode or Detailed Display mode.

* 2-1 When an error occurs, the error code blinks and the contact address and model appear

2-2 The contact address must be registered when the controller is installed.

2-3 For some models, model codes are displayed instead of model names

* 3 Can display for some model only

* 4 Setback function

4 - 3 Dimensional drawing

- Remote control dimensions



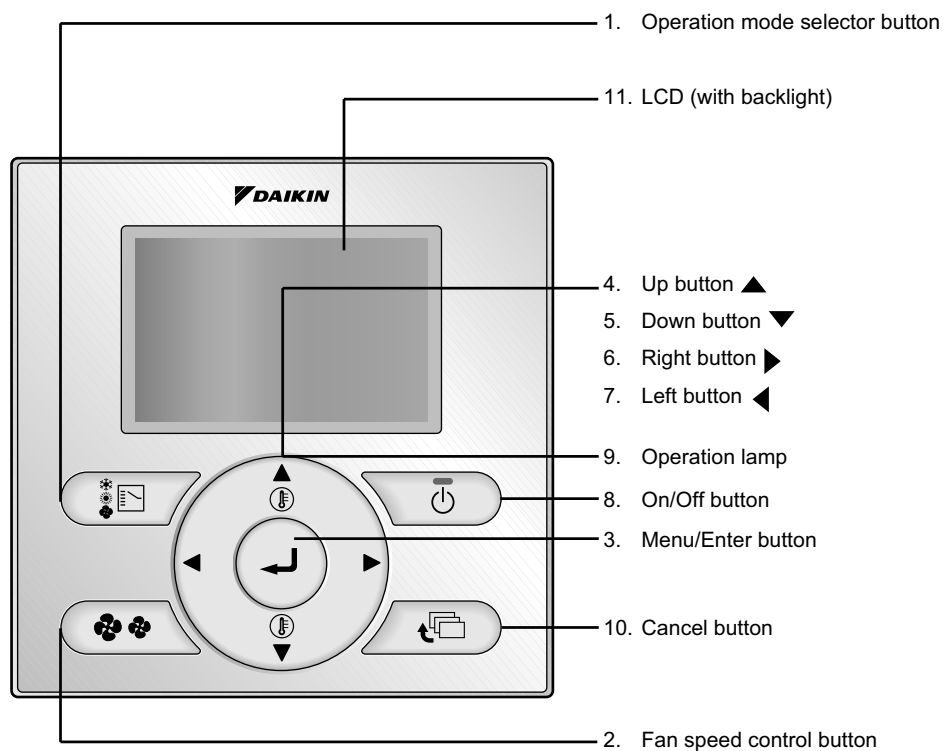
- Specifications of cord

2 If the hole size is too large or the location is not proper, the hole may come out from the remote control.

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4 BRC1E51A - Wired remote control

4 - 4 Explanation of buttons and functions



Functions other than basic operation items (i.e., On/Off, Operation mode selector, Fan speed control, and temperature settings) are set from the menu screen.

4 BRC1E51A - Wired remote control

4 - 4 Explanation of buttons and functions

| | | | |
|----------|--|-----------|---|
| 1 | Operation mode selector button | 7 | Left button ◀ (Be sure to press the part with the symbol ◀) |
| | <ul style="list-style-type: none"> Press this button to select the operation mode of your preference. Available modes vary with the connecting model. | | <ul style="list-style-type: none"> Used to highlight the next items on the left-hand side. Each screen is scrolled in the left-hand direction. Home leave settings are enabled with this button kept pressed for at least four seconds. |
| 2 | Fan speed control button | 8 | On/Off button |
| | <ul style="list-style-type: none"> Press this button to select the fan speed of your preference. Available fan speed vary with the connecting model. | | <ul style="list-style-type: none"> Press this button and system will start. Press this button again and system will stop. |
| 3 | Menu/Enter button | 9 | Operation lamp (Green) |
| | <ul style="list-style-type: none"> Used to indicate the main menu. Used to enter the setting item selected. | | <ul style="list-style-type: none"> This lamp lights up during operation. This lamp blinks if a error occurs. |
| 4 | Up button ▲ (Be sure to press the part with the symbol ▲) | 10 | Cancel button |
| | <ul style="list-style-type: none"> Used to raise the set temperature. The next items on the upper side will be highlighted.(The highlighted items will be scrolled continuously when the button is kept pressed.) Used to change the item selected. | | <ul style="list-style-type: none"> Used to return to the previous screen. |
| 5 | Down button ▼ (Be sure to press the part with the symbol ▼) | 11 | LCD (with backlight) |
| | <ul style="list-style-type: none"> Used to lower the set temperature. The next items on the lower side will be highlighted.(The highlighted items will be scrolled continuously when the button is kept pressed.) Used to change the item selected. | | <ul style="list-style-type: none"> The backlight will be light for approximately 30 seconds by pressing any operation button. Operate buttons excluding the On/Off button while the backlight is lit. If two remote controls are used to control a single indoor unit, the backlight of the remote control operated earlier than the other one will be lit. |
| 6 | Right button ▶ (Be sure to press the part with the symbol ▶) | | |
| | <ul style="list-style-type: none"> Used to highlight the next items on the right-hand side. Each screen is scrolled in the right-hand direction. Home leave settings are enabled with this button kept pressed for at least four seconds. | | |

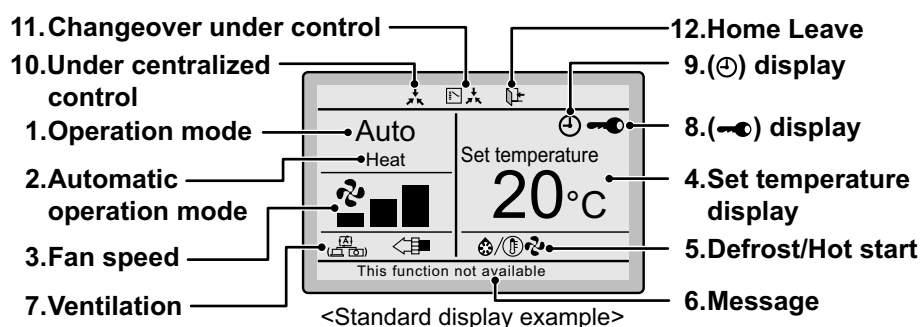
4 BRC1E51A - Wired remote control

4 - 4 Explanation of buttons and functions

Liquid Crystal Display

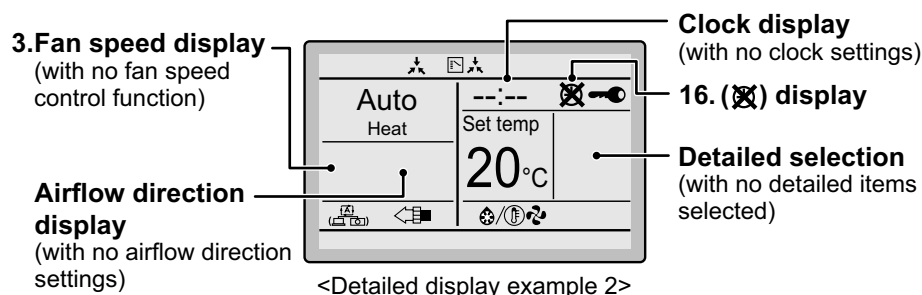
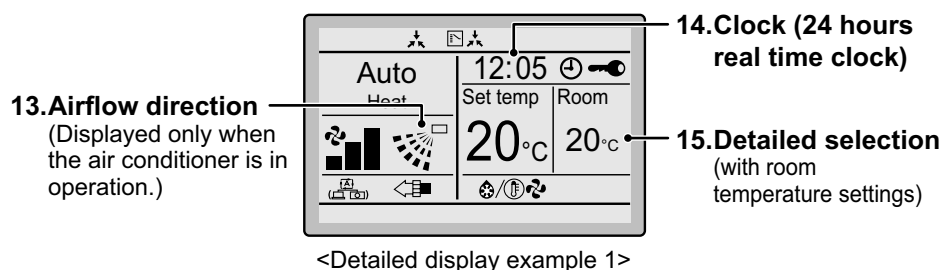
- Two types of liquid crystal display (LCD) are available. The standard display is by default set.
- To go to the detailed display, select the detailed display in the main menu.
- The displayed contents of the screen vary with the operation mode of the equipment interlocked. (The following display will appear when the air conditioner is in automatic heating operation.)

Standard display


















Detailed display

- The airflow direction, clock, and detailed selection items appear on the detailed display screen in addition to the items appearing on the standard display.



4 BRC1E51A - Wired remote control

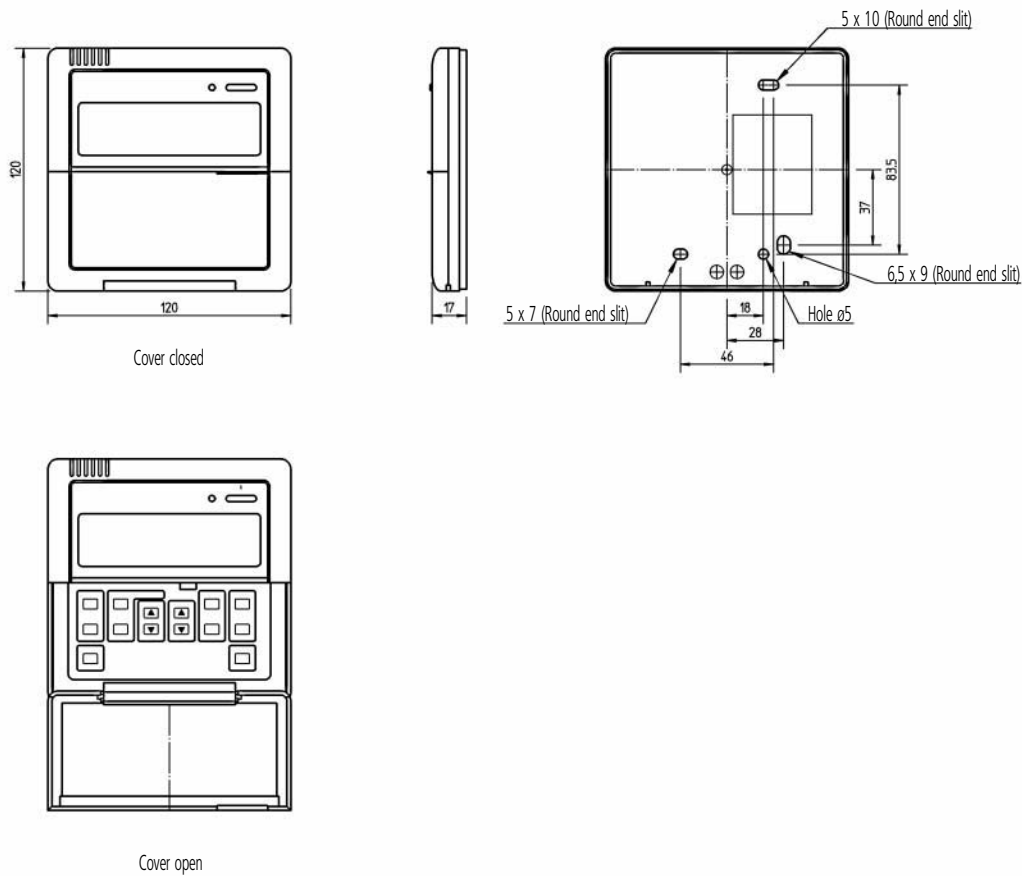
4 - 4 Explanation of buttons and functions

| | | | | | | | | | |
|----------|---|----|--|----|-----------------------|----------|----------------------|-----|------------------------|
| 1 | Operation mode | 8 |  display | | | | | | |
| | <ul style="list-style-type: none">Used to display the present operation mode Cool, Heat, Vent, Fan, Dry or Auto mode. | | <ul style="list-style-type: none">Displayed when the key lock is set. | | | | | | |
| 2 | Automatic operation mode | 9 |  display | | | | | | |
| | <ul style="list-style-type: none">Used to display the present automatic operation mode (Cool or Heat). | | <ul style="list-style-type: none">Displayed if the schedule timer or OFF reminder timer is enabled. | | | | | | |
| 3 | Fan speed | 10 | Under Centralized control “  ” | | | | | | |
| | <ul style="list-style-type: none">Used to display the fan speed that is set for the air conditioner.The fan speed will not be displayed if the air conditioner does not have fan speed control function. | | <ul style="list-style-type: none">Displayed if the system is under the management of central control equipment (optional accessories) and the operation of the system through the remote control is prohibited. | | | | | | |
| 4 | Set temperature display | 11 | Changeover under control “   ” (VRV® only) | | | | | | |
| | <ul style="list-style-type: none">Used to display the temperature set for the air conditioner. | | <ul style="list-style-type: none">Displayed on the remote control if the remote control has no cooling/heating selection eligibility mode. | | | | | | |
| 5 | Defrost/Hot start “  /  ” | 12 | Home leave “  ” | | | | | | |
| | <p>If Ventilating operation “” is displayed:</p> <ul style="list-style-type: none">Displayed when a total heat exchanger unit (HRV) is connected. For details, refer to the Operation Manual of the HRV. | | <ul style="list-style-type: none">The home leave icon shows the status of the home leave function. <table border="1"><tr><td>ON</td><td>Home leave is enabled</td></tr><tr><td>FLASHING</td><td>Home Leave is active</td></tr><tr><td>OFF</td><td>Home Leave is disabled</td></tr></table> | ON | Home leave is enabled | FLASHING | Home Leave is active | OFF | Home Leave is disabled |
| ON | Home leave is enabled | | | | | | | | |
| FLASHING | Home Leave is active | | | | | | | | |
| OFF | Home Leave is disabled | | | | | | | | |
| 6 | Message | 13 | Airflow direction “  ” | | | | | | |
| | <p>The following messages are displayed. “This function not available.”</p> <ul style="list-style-type: none">Displayed for a few seconds when an operation button is pressed if the indoor unit is not provided with the corresponding function.If a number of indoor units are in operation, the message will appear only if none of the indoor units is provided with the corresponding function, i.e., the message will not appear if at least one of the indoor units is provided with the corresponding function. <p>“Error: Press Menu Button.”</p> <p>“Warning: Press Menu Button.”</p> <ul style="list-style-type: none">Displayed if the error or warning is detected <p>“Quick Cool/Heat” (SkyAir® only)</p> <ul style="list-style-type: none">Displayed if the quick cooling/heating function is turned ON <p>“Clean the filter.”</p> <p>“Clean the element.”</p> <p>“Clean the filter and element.”</p> <ul style="list-style-type: none">Displayed when the time to clean the filter or element has come | | <ul style="list-style-type: none">Displayed when the airflow direction and swing are set.This item is not displayed if the system is not provided with a function to set airflow directions. | | | | | | |
| | | 14 | Clock (24 hours real time clock) | | | | | | |
| | | | <ul style="list-style-type: none">Displayed if the clock is set.If the clock is not set, “-- : --” will be displayed. | | | | | | |
| | | 15 | Detailed selection | | | | | | |
| | | | <ul style="list-style-type: none">Displayed if the detailed display items are selected.No detailed items are by default selected. | | | | | | |
| | | 16 |  display | | | | | | |
| | | | <ul style="list-style-type: none">Displayed to inform that the clock needs setting again.The schedule timer function will not work unless the clock is set again. | | | | | | |
| 7 | Ventilation / Purifying | | | | | | | | |
| | <ul style="list-style-type: none">Displayed when a total heat exchanger unit (HRV) is connected.Ventilation mode icon. “  ” These icons indicate the current ventilation mode (HRV only) (AUTOMATIC, HEAT EXCHANGE, BYPASS).AIR Purifying ICON “” This icon indicates that the air cleaning unit (option) is operational. | | | | | | | | |

5 BRC1D52 - Wired remote control

5 - 1 Dimensional drawing

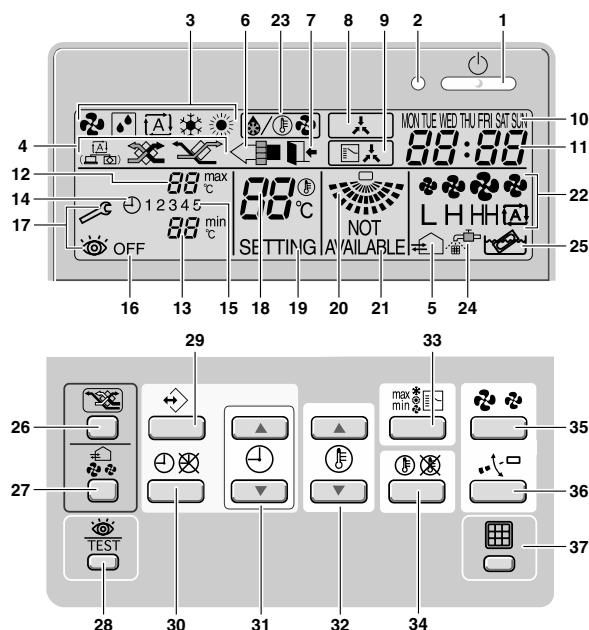
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



























3TW23651-2

5 BRC1D52 - Wired remote control

5 - 2 Explanation of buttons and functions

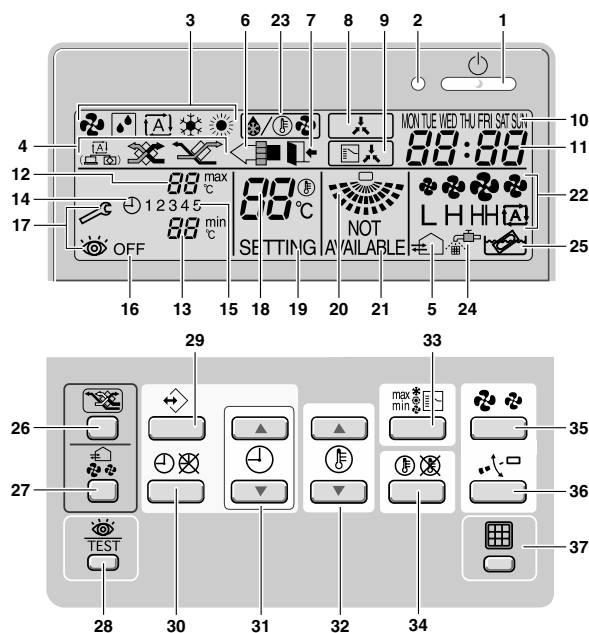


| | | | | | | | | | |
|----------|---|-----------------------|---|----------|----------------------|-----|------------------------|----|---|
| 1 | ON/OFF BUTTON ‘  ’ | 13 | MINIMUM SET TEMPERATURE ‘  ’ | | | | | | |
| | Press the ON/OFF button to start or stop the system. | | The minimum set temperature indicates the minimum set temperature when in limit operation. | | | | | | |
| 2 | OPERATION LAMP ‘  ’ | 14 | SCHEDULE TIMER ICON ‘  ’ | | | | | | |
| | The operation lamp lights up during operation or blinks if a malfunction occurs. | | This icon indicates that the schedule timer is enabled. | | | | | | |
| 3 | OPERATION MODE ICON ‘  ’ ‘  ’ ‘  ’ ‘  ’ ‘  ’ | 15 | ACTION ICONS ‘1 2 3 4 5’ | | | | | | |
| | These icons indicate the current operation mode (FAN, DRY, AUTOMATIC, COOLING, HEATING). | | These icons indicate the actions for each day of the schedule timer. | | | | | | |
| 4 | VENTILATION MODE ICON ‘  ’ ‘  ’ ‘  ’ | 16 | OFF ICON ‘OFF’ | | | | | | |
| | These icons indicate the current ventilation mode (HRV only) (AUTOMATIC, HEAT EXCHANGE, BYPASS). | | This icon indicates that the OFF action is selected when programming the schedule timer. | | | | | | |
| 5 | VENTILATION ICON ‘  ’ | 17 | INSPECTION REQUIRED ‘  ’ and ‘  ’ | | | | | | |
| | The ventilation icon appears when the ventilation is adjusted with the ventilation amount button (HRV only). Simultaneously, the ventilation amount is indicated by the fan speed icon (see 22). | | These icons indicate that inspection is required. Consult your installer. | | | | | | |
| 6 | AIR CLEANING ICON ‘  ’ | 18 | SET TEMPERATURE DISPLAY ‘  ’ | | | | | | |
| | This icon indicates that the air cleaning unit (option) is operational. | | This indicates the current set temperature of the installation (not shown in LIMIT operation or in FAN or DRY mode). | | | | | | |
| 7 | LEAVE HOME ICON ‘  ’ | 19 | SETTING ‘SETTING’ | | | | | | |
| | The leave home icon shows the status of the leave home function. | | Not used, for service purposes only. | | | | | | |
| | <table><tr><td>ON</td><td>Leave home is enabled</td></tr><tr><td>FLASHING</td><td>Leave home is active</td></tr><tr><td>OFF</td><td>Leave home is disabled</td></tr></table> | ON | Leave home is enabled | FLASHING | Leave home is active | OFF | Leave home is disabled | 20 | AIR FLOW DIRECTION ICON ‘  ’ |
| | ON | Leave home is enabled | | | | | | | |
| FLASHING | Leave home is active | | | | | | | | |
| OFF | Leave home is disabled | | | | | | | | |
| | This icon indicates the air flow direction (only for installations with motorised air flow flaps). | | | | | | | | |
| 8 | EXTERNAL CONTROL ICON ‘  ’ | 21 | NOT AVAILABLE ‘  ’ | | | | | | |
| | This icon indicates that another controller with higher priority is controlling or disabling your installation. | | This is displayed whenever a non-installed option is addressed or a function is not available. | | | | | | |
| 9 | CHANGE-OVER UNDER CENTRALISED CONTROL ICON ‘  ’ | 22 | FAN SPEED ICON ‘  ’ | | | | | | |
| | This icon indicates that the change-over of the installation is under centralised control assigned to another indoor unit or optional cool/heat selector connected to the outdoor unit (= master remote control). | | This icon indicates the set fan speed. | | | | | | |
| | | 23 | DEFROST/HOTSTART MODE ICON ‘  ’ | | | | | | |
| | | | This icon indicates that the defrost/hotstart mode is active. | | | | | | |

| | | | |
|----|---|----|---|
| 10 | DAY OF THE WEEK INDICATOR 'MON TUE WED THU FRI SAT SUN' | 24 | AIR FILTER CLEANING TIME ICON '  ' |
| | The day of the week indicator shows the current week day (or the set day when reading or programming the schedule timer). | | This icon indicates the air filter must be cleaned. Refer to the manual of the indoor unit. |
| 11 | CLOCK DISPLAY '88:88' | 25 | ELEMENT CLEANING TIME ICON '  ' |
| | The clock display indicates the current time (or the action time when reading or programming the schedule timer). | | This icon indicates the element must be cleaned (HRV only). |
| 12 | MAXIMUM SET TEMPERATURE '88 ^{TEMP} ' | 26 | VENTILATION MODE BUTTON '  ' |
| | The maximum set temperature indicates the maximum set temperature when in limit operation. | | The ventilation mode button operates the HRV; refer to the HRV manual for more details. |
| | | | |

5 BRC1D52 - Wired remote control

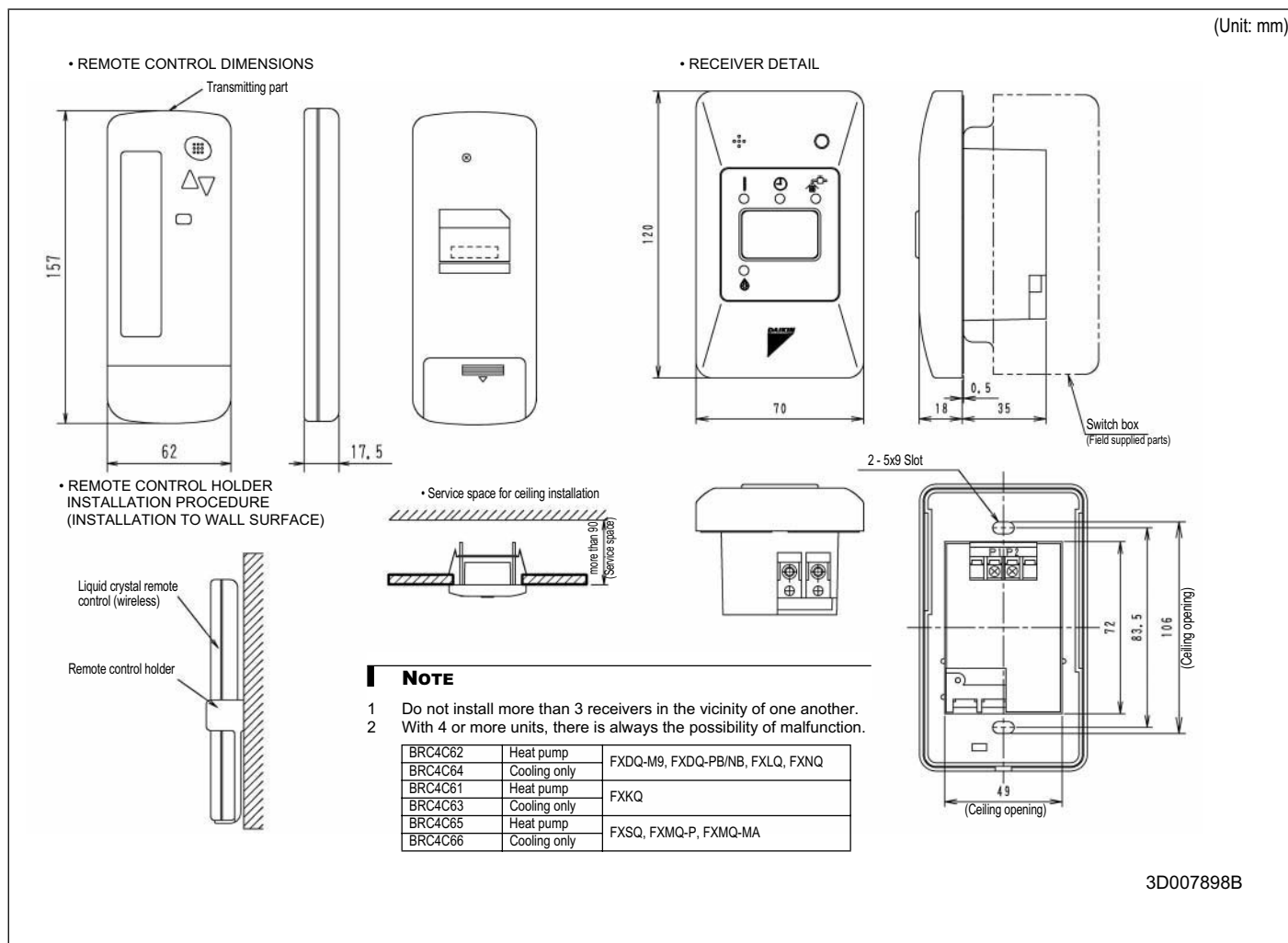
5 - 2 Explanation of buttons and functions



| | | | |
|----|---|----|--|
| 27 | VENTILATION AMOUNT BUTTON ' ' | | OPERATION CHANGE/MIN-MAX BUTTON ' ' |
| | This button sets the ventilation amount; refer to the HRV manual for more details. | | This button is a multi-purpose button. Depending on the previous manipulations of the user, it can have following functions: |
| 28 | INSPECTION/TEST OPERATION BUTTON ' TEST ' | 33 | 1 select the operation mode of the installation (FAN, DRY, AUTOMATIC, COOLING, HEATING) |
| | Not used, for service purposes only. | | 2 toggle between minimum temperature and maximum temperature when in limit operation |
| | PROGRAMMING BUTTON ' ' | | SETPOINT/LIMIT BUTTON ' ' |
| 29 | This button is a multi-purpose button. Depending on the previous manipulations of the user, the programming button can have various functions. | 34 | This button toggles between setpoint, limit operation or 'OFF' (programming mode only). |
| 30 | SCHEDULE TIMER BUTTON ' ' | 35 | FAN SPEED BUTTON ' ' |
| | This button enables or disables the schedule timer. | | This button toggles between L (Low), H (High), HH (very High), (Automatic). |
| 31 | TIME ADJUST BUTTON ' ' | 36 | AIR FLOW DIRECTION ADJUST BUTTON ' ' |
| | These buttons are used to adjust the clock or, when in programming mode, to adjust the programmed action time. Both buttons have an auto-repeat function. | | This button enables to adjust the air flow direction. |
| 32 | TEMPERATURE ADJUST BUTTON ' ' | 37 | AIR FILTER CLEANING TIME ICON RESET BUTTON ' ' |
| | These buttons are used to adjust the current setpoint or, when in programming mode, to adjust the programmed setpoint temperature (step = 1°C). Both buttons are also used to adjust the day of the week. | | This button is used to reset the air filter cleaning time icon. |

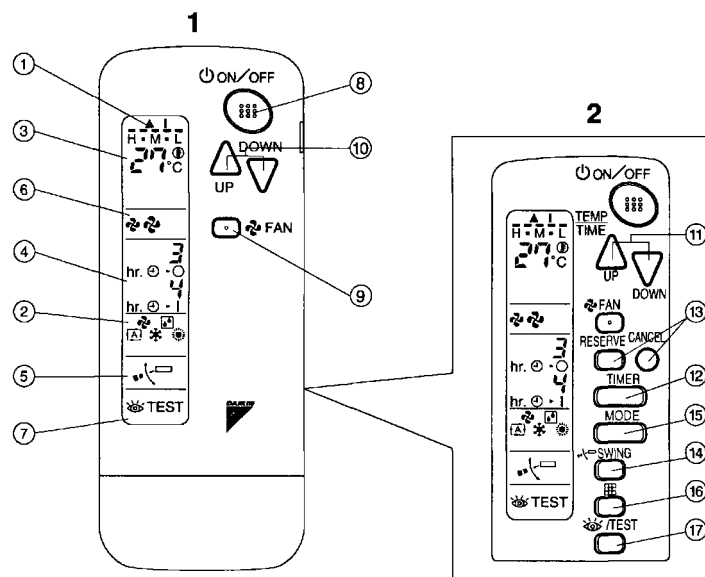
6 BRC4C61,62,63,64,65,66 - Infrared remote control














6 - 1 Dimensional drawing



6 BRC4C61,62,63,64,65,66 - Infrared remote control

6 - 2 Explanation of buttons and functions



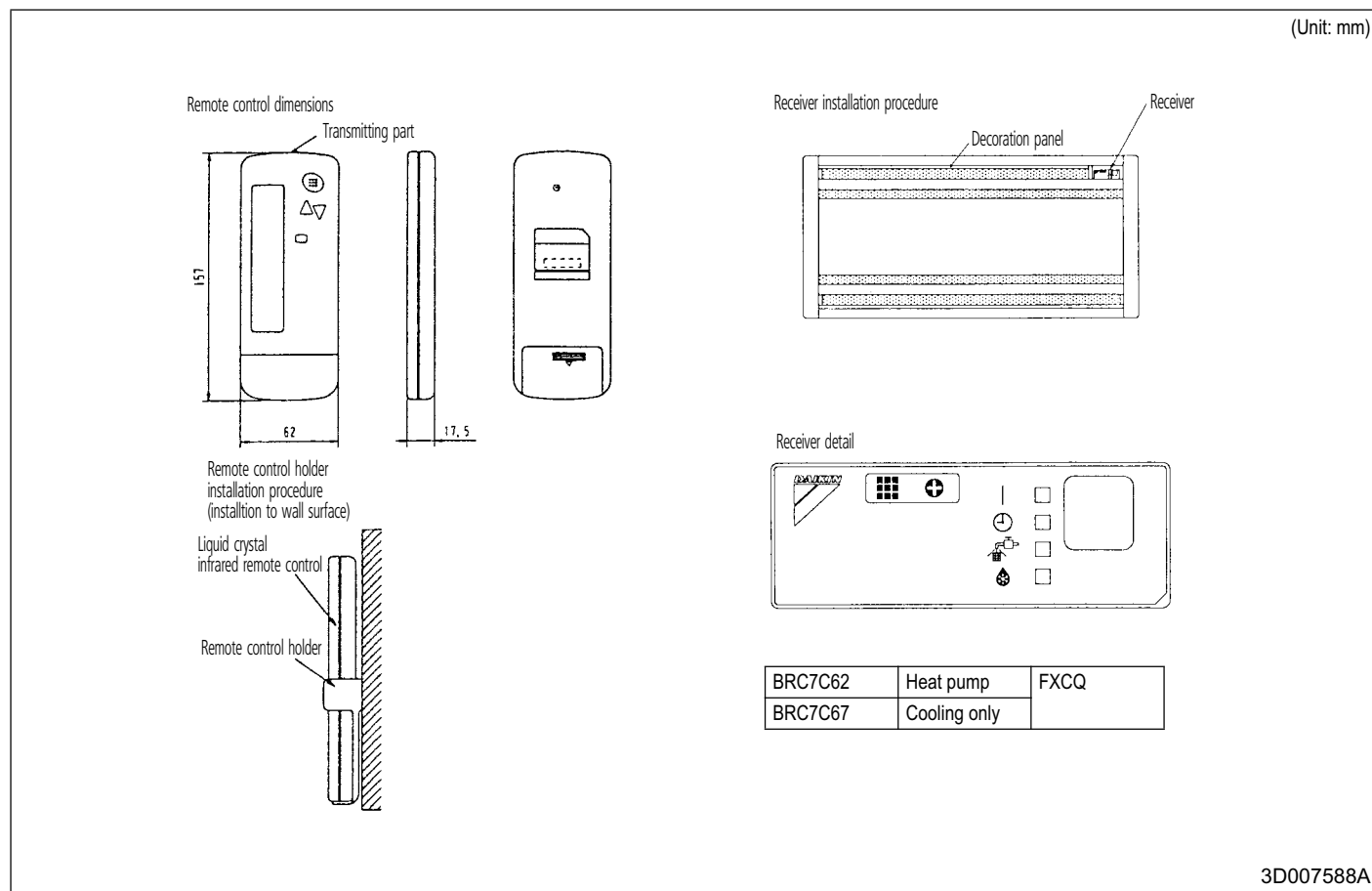
| | | | |
|----|---|----|---|
| 1 | DISPLAY  (SIGNAL TRANSMISSION) | 13 | TIMER RESERVE/CANCEL BUTTON |
| | This lights up when a signal is being transmitted. | 14 | AIR FLOW DIRECTION ADJUST BUTTON (BRC4C61,63 only) |
| 2 | DISPLAY  (OPERATION MODE) | 15 | OPERATION MODE SELECTOR BUTTON |
| | This display shows the current OPERATION MODE. For cooling only type, '  ' (Auto) and '  ' (Heating) are not installed. | 16 | FILTER SIGN RESET BUTTON |
| 3 | DISPLAY  (SET TEMPERATURE) | 17 | INSPECTION/TEST OPERATION BUTTON |
| | This display shows the set temperature. | | This button is used only by qualified service persons for maintenance purposes. |
| 4 | DISPLAY  (PROGRAMMED TIME) | 18 | EMERGENCY OPERATION SWITCH |
| | This display shows PROGRAMMED TIME of the system start or stop. | | This switch is readily used if the remote control does not work. |
| 5 | DISPLAY  (AIR FLOW FLAP) (BRC4C61,63 only) | 19 | RECEIVER |
| 6 | DISPLAY  (FAN SPEED) | | This receives the signals from the remote control. |
| 7 | DISPLAY  (INSPECTION/TEST OPERATION) | 20 | OPERATING INDICATOR LAMP (RED) |
| | When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in. | | This lamp stays lit while the air conditioner runs. It flashes when the unit is in trouble. |
| 8 | ON/OFF BUTTON | 21 | TIMER INDICATOR LAMP (GREEN) |
| | Press the button and the system will start. Press the button again and the system will stop. | | This lamp stays lit while the timer is set. |
| 9 | FAN SPEED CONTROL BUTTON | 22 | AIR FILTER CLEANING TIME INDICATOR LAMP (RED) |
| | Press this button to select the fan speed, HIGH or LOW, of your choice. | | Lights up when it is time to clean the air filter. |
| 10 | TEMPERATURE SETTING BUTTON | 23 | DEFROST LAMP (ORANGE) |
| | Use this button for SETTING TEMPERATURE. (Operates with the front cover of the remote control closed.) | | Lights up when the defrosting operation has started. (For straight cooling type this lamp does not turn on.) |
| 11 | PROGRAMMING TIME BUTTON | 24 | FAN/AIR CONDITIONING SELECTOR SWITCH |
| | Use this button for programming "START and/or STOP" time. (Operates with the front cover of the remote control closed.) | | Set the switch to "  " (FAN) for FAN and "  " (A/C) for HEAT or COOL. |
| 12 | TIMER MODE START/STOP BUTTON | 25 | COOL/HEAT CHANGEOVER SWITCH |
| | | | Set the switch to "  " (COOL) for COOL and "  " (HEAT) for HEAT. |

NOTES

- Please note that the display shows all indications for the purpose of explanation only. This is contrary to actual running situations.
- Figure 2 shows the remote control with the front cover opened.

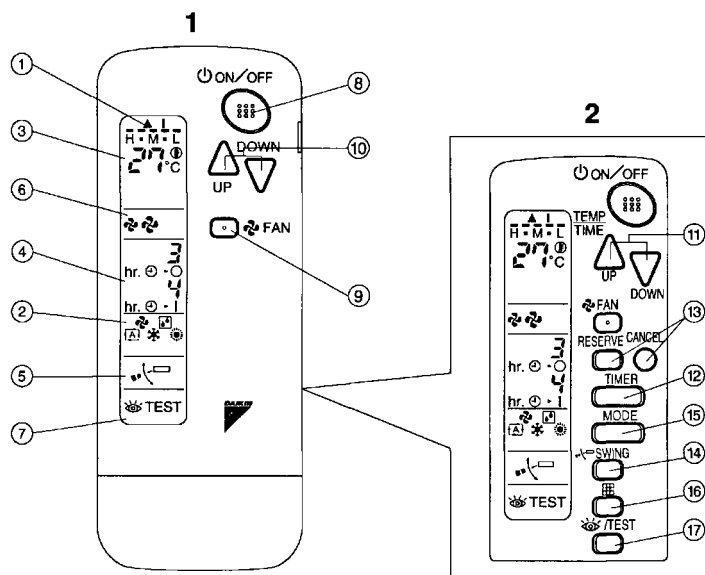
7 BRC7C62,67 - Infrared remote control

7 - 1 Dimensional drawing



7 BRC7C62,67 - Infrared remote control

7 - 2 Explanation of buttons and functions



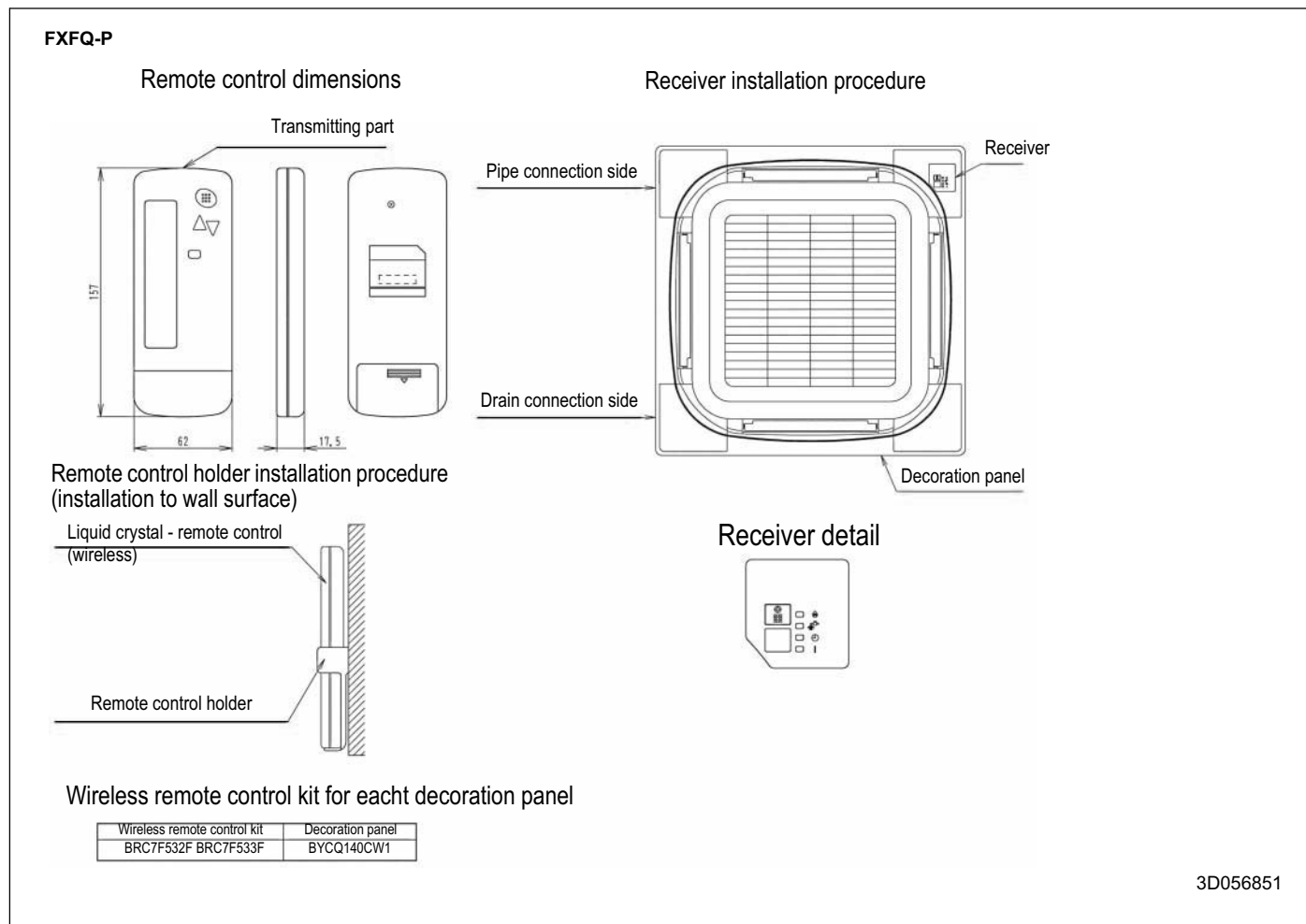
| | | | |
|----|---|----|--|
| 1 | DISPLAY '7' (SIGNAL TRANSMISSION) | 13 | TIMER RESERVE/CANCEL BUTTON |
| | This lights up when a signal is being transmitted. | 14 | AIR FLOW DIRECTION ADJUST BUTTON |
| 2 | DISPLAY 'A' 'A' 'A' 'A' 'A' (OPERATION MODE) | 15 | OPERATION MODE SELECTOR BUTTON |
| | This display shows the current OPERATION MODE. For cooling only type, 'A' (Auto) and 'A' (Heating) are not installed. | 16 | FILTER SIGN RESET BUTTON |
| 3 | DISPLAY '27.0' (SET TEMPERATURE) | 17 | INSPECTION/TEST OPERATION BUTTON |
| | This display shows the set temperature. | 17 | This button is used only by qualified service persons for maintenance purposes. |
| 4 | DISPLAY '2:00' (PROGRAMMED TIME) | 18 | EMERGENCY OPERATION SWITCH |
| | This display shows PROGRAMMED TIME of the system start or stop. | 18 | This switch is readily used if the remote control does not work. |
| 5 | DISPLAY 'A' (AIR FLOW FLAP) | 19 | RECEIVER |
| 6 | DISPLAY 'A' 'A' (FAN SPEED) | 19 | This receives the signals from the remote control. |
| | The display shows the set fan speed. | 20 | OPERATING INDICATOR LAMP (RED) |
| 7 | DISPLAY 'A' (INSPECTION/TEST OPERATION) | 20 | This lamp stays lit while the air conditioner runs. It flashes when the unit is in trouble. |
| | When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in. | 21 | TIMER INDICATOR LAMP (GREEN) |
| 8 | ON/OFF BUTTON | 21 | This lamp stays lit while the timer is set. |
| | Press the button and the system will start. Press the button again and the system will stop. | 22 | AIR FILTER CLEANING TIME INDICATOR LAMP (RED) |
| 9 | FAN SPEED CONTROL BUTTON | 22 | Lights up when it is time to clean the air filter. |
| | Press this button to select the fan speed, HIGH or LOW, of your choice. | 23 | DEFROST LAMP (ORANGE) |
| 10 | TEMPERATURE SETTING BUTTON | 23 | Lights up when the defrosting operation has started. (For straight cooling type this lamp does not turn on.) |
| | Use this button for SETTING TEMPERATURE. (Operates with the front cover of the remote control closed.) | 24 | FAN/AIR CONDITIONING SELECTOR SWITCH |
| 11 | PROGRAMMING TIMER BUTTON | 24 | Set the switch to 'A' (FAN) for FAN and 'A' (A/C) for HEAT or COOL. |
| | Use this button for programming "START and/or STOP" time. (Operates with the front cover of the remote control closed.) | 25 | COOL/HEAT CHANGEOVER SWITCH |
| 12 | TIMER MODE START/STOP BUTTON | 25 | Set the switch to 'A' (COOL) for COOL and 'A' (HEAT) for HEAT. |

NOTES

- Please note that the display shows all indications for the purpose of explanation only. This is contrary to actual running situations.
- Figure 2 shows the remote control with the front cover opened.

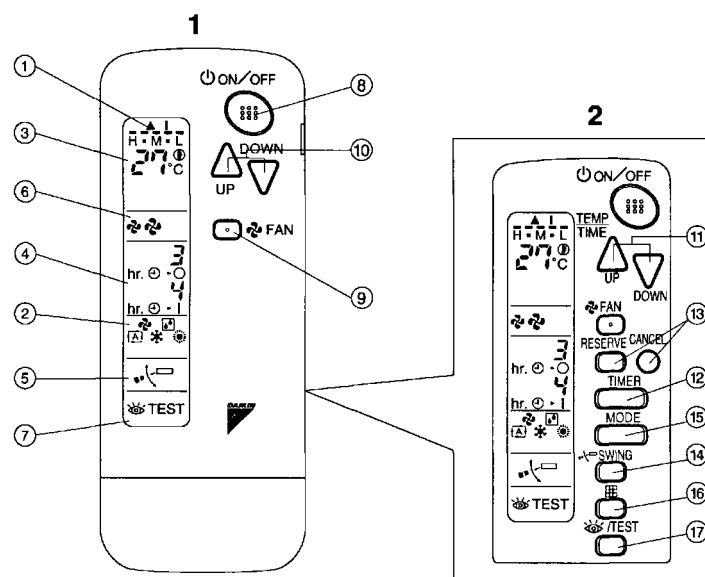
8 BRC7F533F,532F - Infrared remote control














8 - 1 Dimensional drawing



8 BRC7F533F,532F - Infrared remote control

8 - 2 Explanation of buttons and functions



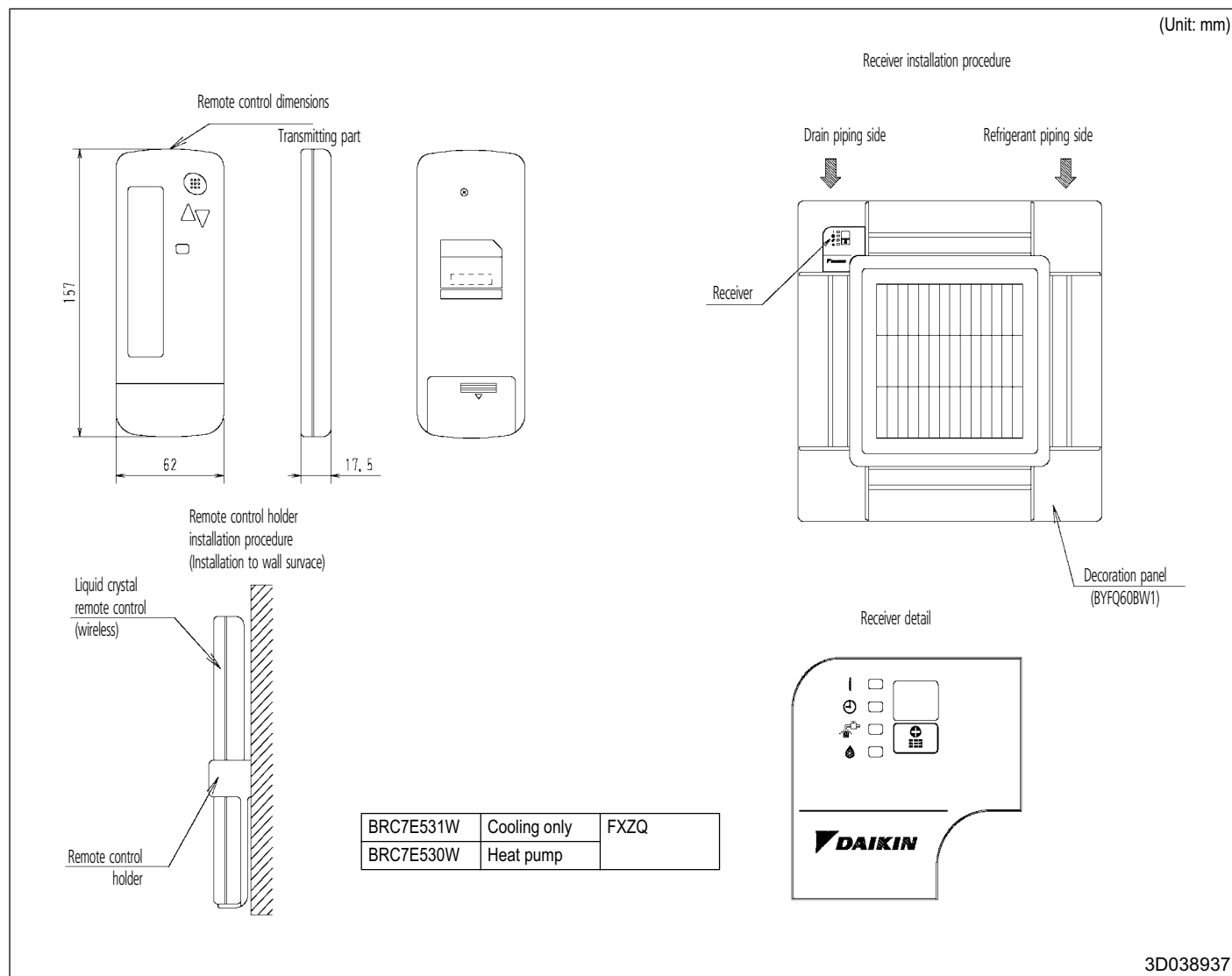
| | | | |
|----|---|----|---|
| 1 | DISPLAY  (SIGNAL TRANSMISSION) | 13 | TIMER RESERVE/CANCEL BUTTON |
| | This lights up when a signal is being transmitted. | 14 | AIR FLOW DIRECTION ADJUST BUTTON |
| 2 | DISPLAY  (OPERATION MODE) | 15 | OPERATION MODE SELECTOR BUTTON |
| | This display shows the current OPERATION MODE. For cooling only type, '  ' (Auto) and '  ' (Heating) are not installed. | 16 | FILTER SIGN RESET BUTTON |
| 3 | DISPLAY  (SET TEMPERATURE) | 17 | INSPECTION/TEST OPERATION BUTTON |
| | This display shows the set temperature. | | This button is used only by qualified service persons for maintenance purposes. |
| 4 | DISPLAY  (PROGRAMMED TIME) | 18 | EMERGENCY OPERATION SWITCH |
| | This display shows PROGRAMMED TIME of the system start or stop. | | This switch is readily used if the remote control does not work. |
| 5 | DISPLAY  (AIR FLOW FLAP) | 19 | RECEIVER |
| 6 | DISPLAY  (FAN SPEED) | | This receives the signals from the remote control. |
| 7 | DISPLAY  (INSPECTION/TEST OPERATION) | 20 | OPERATING INDICATOR LAMP (RED) |
| | When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in. | | This lamp stays lit while the air conditioner runs. It flashes when the unit is in trouble. |
| 8 | ON/OFF BUTTON | 21 | TIMER INDICATOR LAMP (GREEN) |
| | Press the button and the system will start. Press the button again and the system will stop. | | This lamp stays lit while the timer is set. |
| 9 | FAN SPEED CONTROL BUTTON | 22 | AIR FILTER CLEANING TIME INDICATOR LAMP (RED) |
| | Press this button to select the fan speed, HIGH or LOW, of your choice. | | Lights up when it is time to clean the air filter. |
| 10 | TEMPERATURE SETTING BUTTON | 23 | DEFROST LAMP (ORANGE) |
| | Use this button for SETTING TEMPERATURE. (Operates with the front cover of the remote control closed.) | | Lights up when the defrosting operation has started. (For straight cooling type this lamp does not turn on.) |
| 11 | PROGRAMMING TIME BUTTON | 24 | FAN/AIR CONDITIONING SELECTOR SWITCH |
| | Use this button for programming "START and/or STOP" time. (Operates with the front cover of the remote control closed.) | | Set the switch to "  " (FAN) for FAN and "  " (A/C) for HEAT or COOL. |
| 12 | TIMER MODE START/STOP BUTTON | 25 | COOL/HEAT CHANGEOVER SWITCH |
| | | | Set the switch to "  " (COOL) for COOL and "  " (HEAT) for HEAT. |

NOTES

- Please note that the display shows all indications for the purpose of explanation only. This is contrary to actual running situations.
- Figure 2 shows the remote control with the front cover opened.

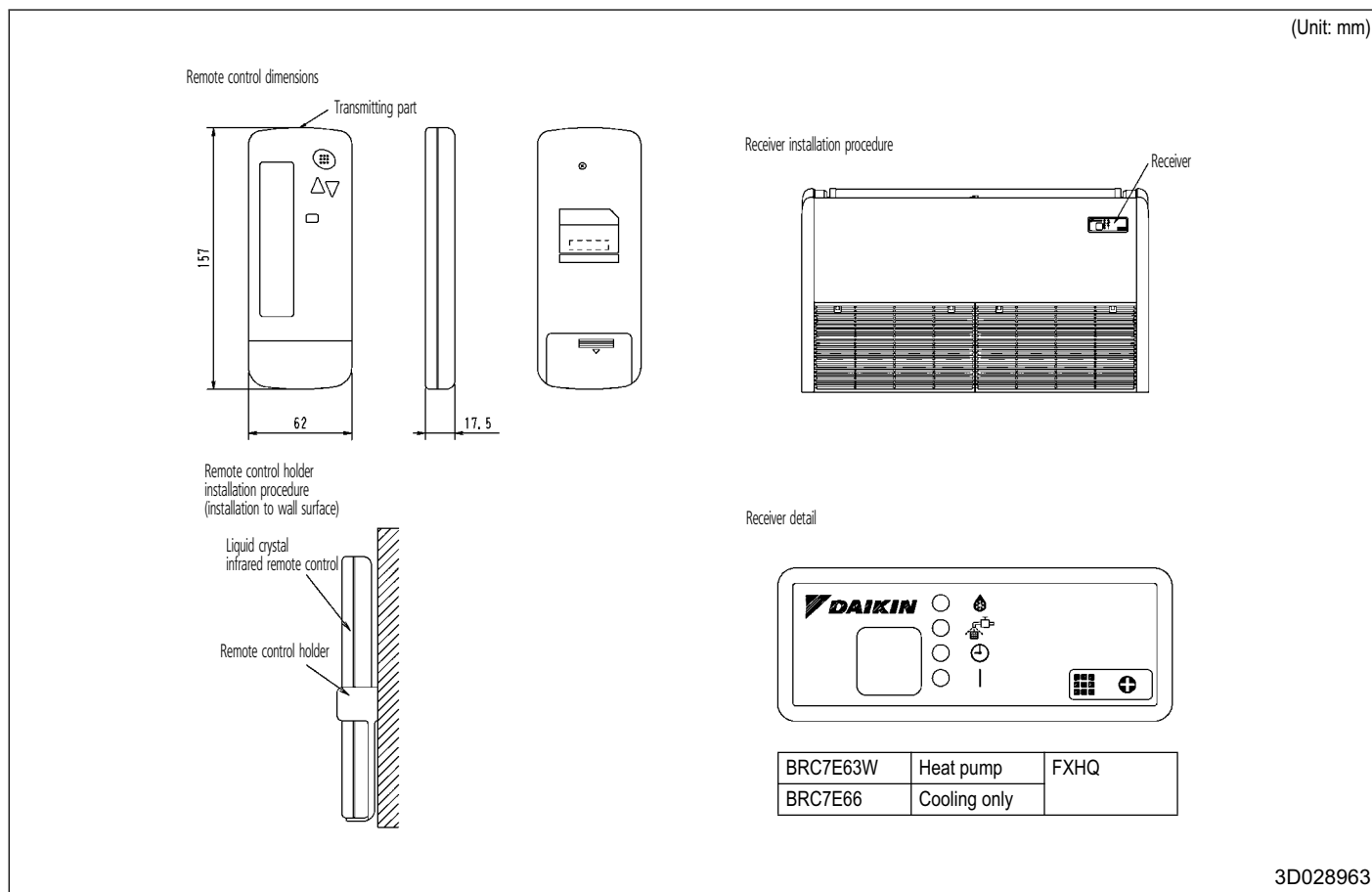
9 BRC7E531W,530W - Infrared remote control

9 - 1 Dimensional drawing



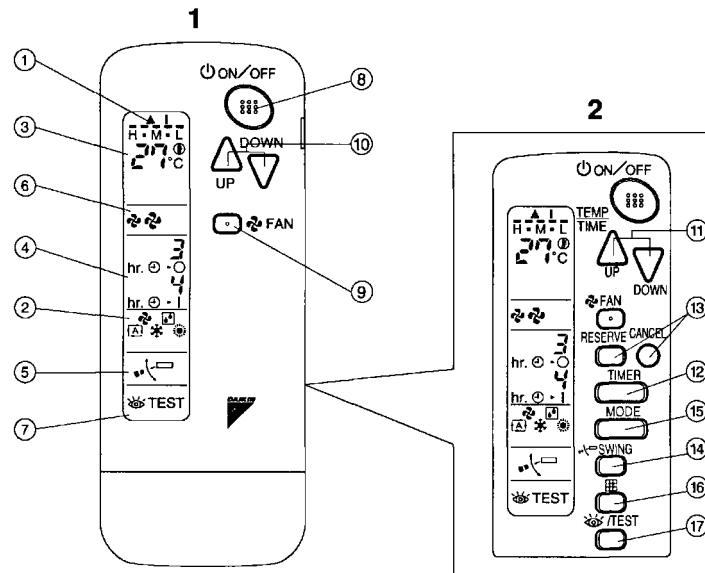
10 BRC7E63W,66 - Infrared remote control














10 - 1 Dimensional drawing



10 BRC7E63W,66 - Infrared remote control

10 - 2 Explanation of buttons and functions



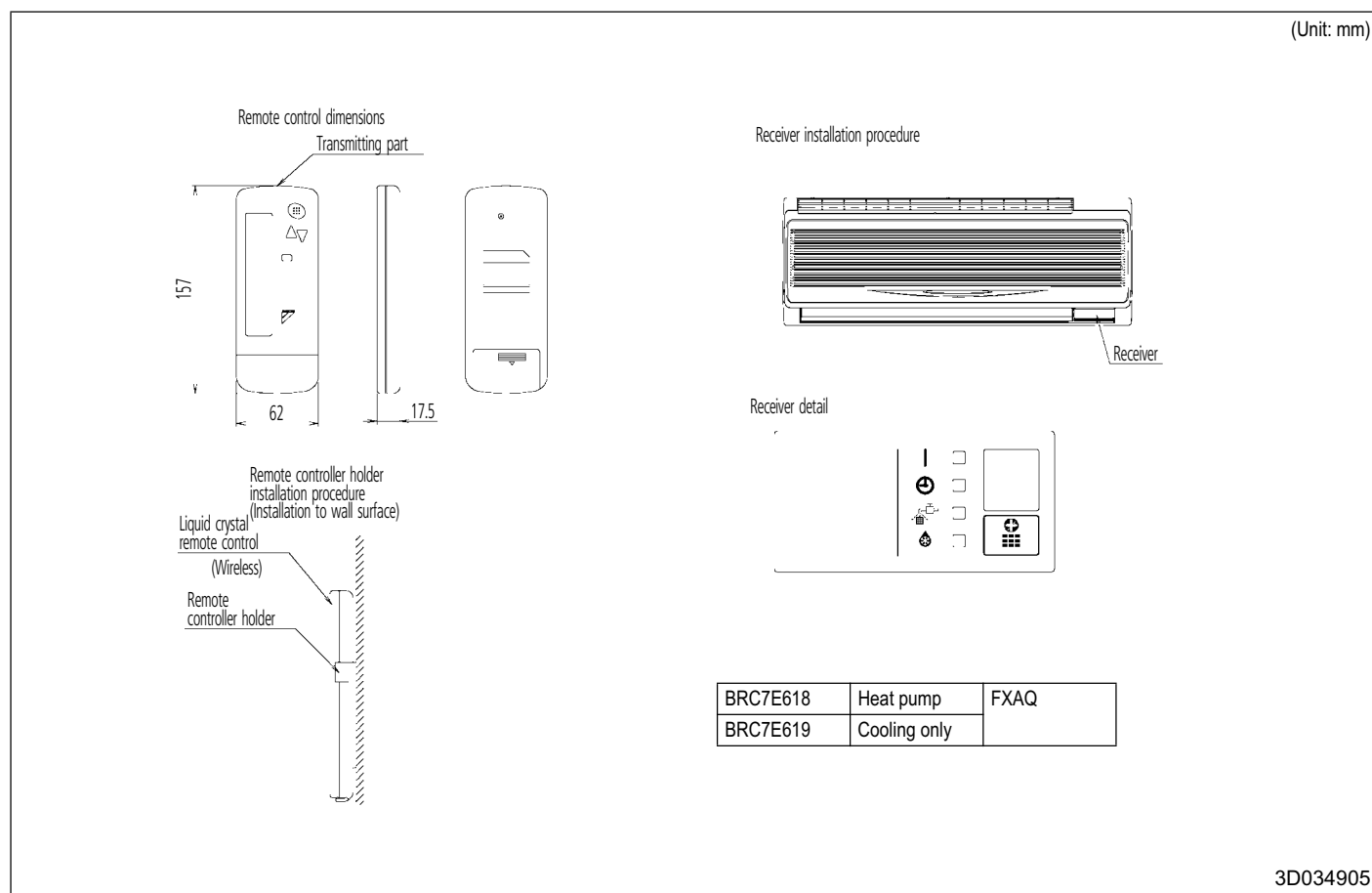
| | | | |
|----|---|----|---|
| 1 | DISPLAY  (SIGNAL TRANSMISSION) | 13 | TIMER RESERVE/CANCEL BUTTON |
| | This lights up when a signal is being transmitted. | 14 | AIR FLOW DIRECTION ADJUST BUTTON |
| 2 | DISPLAY  (OPERATION MODE) | 15 | OPERATION MODE SELECTOR BUTTON |
| | This display shows the current OPERATION MODE. For cooling only type, '  ' (Auto) and '  ' (Heating) are not installed. | 16 | FILTER SIGN RESET BUTTON |
| 3 | DISPLAY  (SET TEMPERATURE) | 17 | INSPECTION/TEST OPERATION BUTTON |
| | This display shows the set temperature. | | This button is used only by qualified service persons for maintenance purposes. |
| 4 | DISPLAY  (PROGRAMMED TIME) | 18 | EMERGENCY OPERATION SWITCH |
| | This display shows PROGRAMMED TIME of the system start or stop. | | This switch is readily used if the remote control does not work. |
| 5 | DISPLAY  (AIR FLOW FLAP) | 19 | RECEIVER |
| 6 | DISPLAY  (FAN SPEED) | | This receives the signals from the remote control. |
| 7 | DISPLAY  (INSPECTION/TEST OPERATION) | 20 | OPERATING INDICATOR LAMP (RED) |
| | When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in. | | This lamp stays lit while the air conditioner runs. It flashes when the unit is in trouble. |
| 8 | ON/OFF BUTTON | 21 | TIMER INDICATOR LAMP (GREEN) |
| | Press the button and the system will start. Press the button again and the system will stop. | | This lamp stays lit while the timer is set. |
| 9 | FAN SPEED CONTROL BUTTON | 22 | AIR FILTER CLEANING TIME INDICATOR LAMP (RED) |
| | Press this button to select the fan speed, HIGH or LOW, of your choice. | | Lights up when it is time to clean the air filter. |
| 10 | TEMPERATURE SETTING BUTTON | 23 | DEFROST LAMP (ORANGE) |
| | Use this button for SETTING TEMPERATURE. (Operates with the front cover of the remote control closed.) | | Lights up when the defrosting operation has started. (For straight cooling type this lamp does not turn on.) |
| 11 | PROGRAMMING TIME BUTTON | 24 | FAN/AIR CONDITIONING SELECTOR SWITCH |
| | Use this button for programming "START and/or STOP" time. (Operates with the front cover of the remote control opened.) | | Set the switch to "  " (FAN) for FAN and "  " (A/C) for HEAT or COOL. |
| 12 | TIMER MODE START/STOP BUTTON | 25 | COOL/HEAT CHANGEOVER SWITCH |
| | | | Set the switch to "  " (COOL) for COOL and "  " (HEAT) for HEAT. |

NOTES

- Please note that the display shows all indications for the purpose of explanation only. This is contrary to actual running situations.
- Figure 2 shows the remote control with the front cover opened.



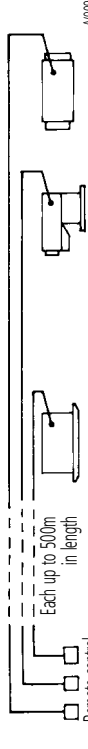


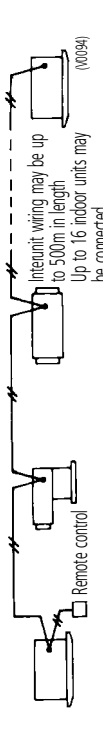
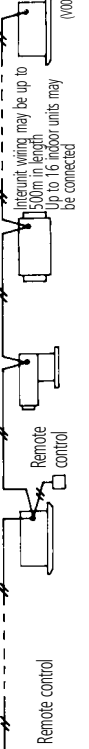


11 BRC7E618,619 - Infrared remote control

11 - 1 Dimensional drawing



12 Survey of various control systems

For more effective localized environmental control Daikin offers various control systems such as single or double remote control or centralized control. This enables the construction of a variety of operational control systems which can be adapted for various uses from remote control to building automation (BA).

| Control method | Objective / Use | Unit name and model | Outline of system | Function | Standard number of units |
|--|---|---|---|--|---|
| Local operation of remote control | |  |  | <ul style="list-style-type: none"> Operational functions <ul style="list-style-type: none"> Start/Stop (ON/OFF) Temperature setting Timer setting (Settings in units of 1 hour up to a maximum of 72 hours) Air flow setting Air flow direction adjustment (Swing flap) BRC1E51A / BRC1D52 only Indication function <ul style="list-style-type: none"> Operating display Program dry function display Defrost/Hot start display Filter sign Temperature setting display Timer display Air flow display Abnormal operation display | 1 remote control controls 1 indoor unit |
| Remote operation of remote control | For control from a distant place | BRC1E51A / BRC1D52 |  | | |
| 2 remote controls | For control from 2 places (remote or local) |  |  | | 2 remote controls control 1 indoor unit |
| Group control (1) | Control of several indoor units on a floor at the same time | ★2 BRC2C51 |  | <ul style="list-style-type: none"> In case of group control all the indoor units in the system are set to the same value and each unit is controlled individually by its internal thermostat. (Not by the thermostat equipped in remote control) | 1 remote control controls up to 16 indoor units simultaneously |
| Group control by 2 remote controls (1) | For above control from distant place | |  | <ul style="list-style-type: none"> In common case of double remote control the most recent takes priority. (Selection between master and slave control is essential) | 2 remote controls control up to 16 indoor units places simultaneously |
| Forced OFF command from outside | If forgotten to turn equipment off, or in case of emergency | |  <ul style="list-style-type: none"> For local operation of remote control Forced ON/OFF input Remote control | <ul style="list-style-type: none"> Forcibly stops indoor unit operation by command from outside. During remote control group control, input a command from outside to any one of the indoor | Same as the number of units controlled by remote control |
| Combining control by remote control | Operation of other equipment combined with the operation of indoor unit | |  <ul style="list-style-type: none"> For HRV system | <ul style="list-style-type: none"> Operates HRV in accordance with indoor unit operation. In case of group control, the thermostat equipped in remote control is not available. | Same as the number of units controlled by remote control |

NOTES

- ★1 In case of group control, the remote control used as master control must be selected with auto-swing function (BRC1E51A / BRC1D52). When the group has cassette or ceiling suspended or cassette corner or wall mounted models.
- ★2 In case of using BRC2C51 (S-REMOCON) to heat recovery series, be sure not to use this independently. Use with other remote controls (BRC1E51A / BRC1D52, KRC19-26 or DCS302A51).

12 Survey of various control systems

12 - 1 Restrictions for the BRC1E51A - Wired remote control

1. In case of two remote control system

| | | Main | | |
|-----|------------------------------|----------|------------------|------------------------------|
| | | BRC1E51A | Wired BRC1D52 | Infrared BRC4** BRC7** |
| Sub | BRC1E51A | ○ | × | × |
| | Wired BRC1D52 | ○ | ○ | × |
| | Infrared BRC4** BRC7** | × | ○ | × |

○: Connectable ×: Not connectable

- Due to the limited power supply capacity, there are some restrictions when controlling 2 remote controls.

<Common restriction for SkyAir® and VRV®>

- When controlling one indoor unit with 2 remote controls, the remote control operated first turns the backlight on.
- When controlling 2 remote controls, schedule, limit operation, off reminder timer and home leave functions cannot be set with the sub remote control.
- Restriction of operation from the sub remote control
 - When the On/Off button is pressed in the sub remote control during Home Leave operation in the main remote control, Home Leave is stopped to return to the normal operation.
 - When the Operation mode selector button, the Up button or the Down button is pressed during Limit Operation in the main remote control, Limit Operation is stopped to return to the normal operation.

<Restriction for VRV® only>

Adapter for wiring (KRP 1*) or power supply adapter for indoor unit PCB (X18A or X35A) cannot be used for 2 remote control system.

2. In the case of Centralised remote control connection.

When connecting a centralised related device(*1), Schedule, Limit Operation and Home Leave functions cannot be set.

(*1) this means All Centralised remote control.

Intelligent Touch Controller [DCS601C51]

Intelligent Manager [DAM602B51,52]

Parallel interface [DPF201A51,52,53]

Central remote control [DCS302C51]

Unified ON/OFF controller [DCS301B51]

Schedule timer [DST301B51]

Wiring adapter for electrical appendices KRP2A5*/6*]

3. Quick Cooling/Heating <restriction for SkyAir® only>

Under the following conditions, Quick Cooling/Heating operation stops to return to the normal operation.

- When the room temperature reaches to the set temperature, the thermostat turns OFF and the unit returns to the normal operation.
- After 30 minutes past from the operation start, the unit returns to the normal operation.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



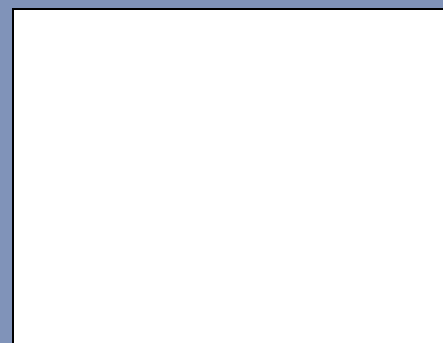
ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin units comply with the European regulations that guarantee the safety of the product.

VRV® products are not within the scope of the Eurovent certification programme.

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