altherma by DAIKIN

OPERATION MANUAL

Indoor unit for air to water heat pump and sanitary warm water tank for air to water heat pump system

EKHBH007A
EKHBX007A

CONTENTS

READ THIS MANUAL ATTENTIVELY BEFORE STARTING UP THE UNIT. DO NOT THROW IT AWAY. KEEP IT IN YOUR FILES FOR FUTURE REFERENCE.

Before operating the unit, make sure the installation has been carried out correctly by a professional Daikin dealer.

If you feel unsure about operation, contact your Daikin Dealer for advice and information.

INTRODUCTION

Thank you for purchasing this altherma by DAIKIN indoor unit.

This manual

This manual describes how to startup and switch off the unit, set parameters and configure the schedule timer by means of the controller, maintain the unit and solve operational problems.

For “Checks before initial start-up” and “Initial start-up” procedures refer to the “Installation manual” of this unit.

This unit

The altherma by DAIKIN indoor unit is the indoor part of the reversible air to water Daikin ERYQ heat pumps. These units are designed for wall mounted indoor installation and used for both heating and cooling applications. The units can be combined with Daikin fan coil units, floor heating, low temperature radiotors and the Daikin EKSWW sanitary water tanks.

The altherma by DAIKIN indoor unit range consists of two main versions: a heating/cooling (EKHBX) version and a heating only (EKHBH) version.

Both versions are delivered with an integrated backup heater for additional heating capacity during cold outdoor temperatures. The backup heater also serves as a backup in case of malfunctioning of the outdoor unit. The backup heaters are available in different capacities.

Options

Sanitary water tank option

An optional EKSWW sanitary water tank with integrated 3 kW electrical booster heater can be connected to the indoor unit. The sanitary water tank is available in different sizes.

OPERATING THE UNIT

INTRODUCTION

Operating the EKHB* unit comes down to operating the digital controller.

Never let the digital controller get wet. This may cause an electric shock or fire.

Never press the buttons of the digital controller with a hard, pointed object. This may damage the digital controller.

Never inspect or service the digital controller yourself, ask a qualified service person to do this.

OPERATING THE DIGITAL CONTROLLER

Features and functions

The digital controller is a state of the art controller that offers full control over your installation. It can control a cooling/heating and a heating only installation.

Both installations are available in multiple versions which vary in capacity, electrical supply and installed equipment (backup heater in the indoor unit or a sanitary water tank with a booster heater).

NOTE

- Descriptions in this manual that apply to a specific installation or that depend on the installed equipment, are marked with an asterisk (*).
- Some functions described in this manual may not be available or should not be available. Ask your installer or your local Daikin dealer for more information on permission levels.

Basic controller functions

The basic controller functions are:

- Turning the unit ON/OFF.
- Operation mode change-over:
  - space heating (refer to page 4),
  - space cooling (refer to page 4) (*),
  - sanitary heating (refer to page 4) (*).
- Selection of features:
  - silent mode (refer to page 4),
  - weather dependent control (refer to page 5).
- Temperature set point adjustment (refer to page 5).

NOTE

(*) The functions “space cooling” and “sanitary heating” can only be selected when the corresponding equipment is installed.

Clock function

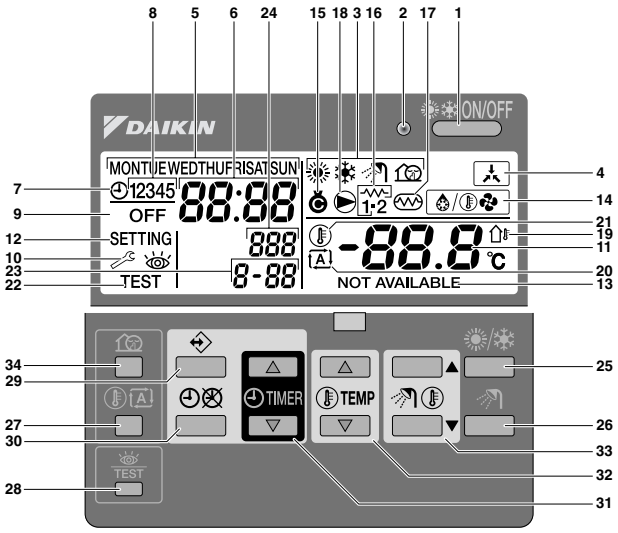
The clock functions are:

- 24 hour real time clock.
- Day of the week indicator.

Schedule timer function

The schedule timer function allows the user to schedule the operation of the installation according to a daily or a weekly program.

Name and function of buttons and icons



1 COOLING/HEATING ON/OFF BUTTON ON/OFF

The ON/OFF button starts or stops the heating or cooling function of the unit.

When the unit is connected with an external room thermostat, this button is not operable and the icon is shown.

Pressing the ON/OFF button consecutively too many times may cause malfunction of the system (maximum 20 times per hour).

NOTE

Remark that pushing the ON/OFF button has no influence on the sanitary water heating. Sanitary water heating is only switched on or off by means of the button.

2 OPERATION LED ○

The operation LED is lit during space cooling or space heating operation. The LED blinks if a malfunction occurs. When the LED is OFF, space cooling or space heating are inactive while the other operation modes can still be active.

3 OPERATION MODE ICONS

These icons indicate the current operation mode(s): space heating, space cooling, sanitary heating or silent mode. Within limits, different modes can be combined, e.g. space heating and sanitary heating. The corresponding mode icons will be displayed simultaneously.

In a heating only installation, the icon will never be displayed.

If the sanitary water tank is not installed, the icon will never be displayed.

4 EXTERNAL CONTROL ICON

This icon indicates that an external room thermostat with higher priority is controlling your installation. This external room thermostat can start and stop the space heating/cooling operation and change the operation mode (cooling/heating).

When an external room thermostat with a higher priority is connected, the schedule timer for space cooling and space heating will not function.

5 DAY OF THE WEEK INDICATOR MONTUEWEDTHUFRISATSUN

This indicator shows the current weekday.

When reading or programming the schedule timer, the indicator shows the set day.

6 CLOCK DISPLAY *88:88*

The clock display shows the current time.

When reading or programming the schedule timer, the clock display shows the action time.

7 SCHEDULE TIMER ICON

This icon indicates that the schedule timer is enabled.

8 ACTION ICONS 12345

These icons indicate the programming actions for each day of the schedule timer.

9 OFF ICON **OFF**

This icon indicates that the OFF action is selected when programming the schedule timer.

10 INSPECTION REQUIRED and

These icons indicate that inspection is required on the installation. Consult your Daikin Dealer.

11 SET TEMPERATURE DISPLAY -88.8

The display shows the current set temperature of the installation.

12 SETTING SETTING

Not used. For installation purposes only.

13 NOT AVAILABLE NOT AVAILABLE

This icon is displayed whenever a non-installed option is addressed or a function is not available.

14 DEFROST/STARTUP MODE ICON

This icon indicates that the defrost/startup mode is active.

15 COMPRESSOR ICON

This icon indicates that the compressor in the outdoor unit of the installation is active.

16 BACKUP HEATER STEP ONE OR STEP TWO

These icons indicate that the backup heater is operating on low capacity (1) or on high capacity (1+2). The backup heater provides extra heating capacity in case of low ambient outdoor temperature (high heating load).

17 BOOSTER HEATER ICON

This icon indicates that the booster heater is active. The booster heater provides auxilliary heating for the sanitary water tank.

The booster heater is located in the sanitary water tank.

The icon is not used when the sanitary tank is not installed.

18 PUMP ICON

This icon indicates that the circulation pump is active.

19 OUTDOOR TEMPERATURE DISPLAY

When this icon is flashing, the outdoor ambient temperature is displayed.

20 WEATHER DEPENDENT SET POINT ICON

This icon indicates that the controller will adapt the temperature set point automatically, based on the outdoor ambient temperature.

21 TEMPERATURE ICON

This icon is displayed when the water outlet temperature of the indoor unit, the outdoor ambient temperature and the sanitary water tank temperature are shown.

The icon is also displayed when the temperature set point is set in schedule timer programming mode.

22 TEST OPERATION ICON TEST

This icon indicates that the unit runs in test mode. Refer to the installation manual.

23 FIELD SET CODE *8-88*

This code represents the code from the field set list. Refer to the installation manual.

24 ERROR CODE *888*

This code refers to the error code list and is for service purposes only. Refer to the installation manual.

25 SPACE HEATING/COOLING BUTTON /

This button allows manual switching between cooling or heating mode (provided the unit is not a “heating only” unit).

When the unit is connected with an external room thermostat, this button is not operable and the icon is shown.

26 SANITARY WATER HEATING BUTTON

This button enables or disables heating of the sanitary water.

This button is not used when the sanitary water tank is not installed.

NOTE Remark that pushing the ON/OFF button has no influence on the sanitary water heating. Sanitary water heating is only switched on or off by means of the button.

27 WEATHER DEPENDENT SET POINT BUTTON

This button enables or disables the weather dependent set point function which is available in space heating operation only.

If the controller is set in permission level 2 or 3 (refer to the installation manual), the weather dependent set point button will not be operable.

28 INSPECTION/TEST OPERATION BUTTON

This button is used for installation purposes only. Refer to the installation manual.

29 PROGRAMMING BUTTON

This multi-purpose button is used to program the controller. The function of the button depends on the actual status of the controller or on previous actions carried out by the operator.

30 SCHEDULE TIMER BUTTON /

The main function of this multi-purpose button is to enable/disable the schedule timer.

The button is also used to program the controller. The function of the button depends on the actual status of the controller or on previous actions carried out by the operator.

If the controller is set in permission level 3 (refer to the installation manual), the schedule timer button will not be operable.

31 TIME ADJUST BUTTON and

These multi-purpose buttons are used to adjust the clock, to toggle between temperatures (water outlet temperature of the indoor unit, outdoor ambient temperature and sanitary water temperature) and in schedule timer programming mode.

32 TEMPERATURE ADJUST BUTTONS and

These multi-purpose buttons are used to adjust the current set point in normal operation mode or in schedule timer programming mode. In weather dependent set point mode the buttons are used to adjust the shift value. Finally, the buttons are also used to select the weekday while configuring the clock.

33 SANITARY TEMPERATURE ADJUST BUTTONS and

These buttons are used to adjust the current set point of the sanitary water temperature.

The buttons are not used when the sanitary water tank is not installed.

34 SILENT MODE BUTTON

This button enables or disables silent mode.

If the controller is set in permission level 2 or 3 (refer to the installation manual), the silent mode button will not be operable.

Setting up the controller

After initial installation, the user can set the clock and day of the week.

The controller is equipped with a schedule timer that enables the user to schedule operations. Setting the clock and day of the week is required to be able to use the schedule timer.

Setting the Clock

1 Hold down the ⏲⊗ button for 5 seconds.

The clock read-out and the day of week indicator start flashing.

2 Use the ⏲▲ and ⏲▼ buttons to adjust the clock.

Each time the ⏲▲ or ⏲▼ button is pressed, the time will increase/decrease by 1 minute. Keeping the ⏲▲ or ⏲▼ button pressed will increase/decrease the time by 10 minutes.

3 Use the ▲ or ▼ button to adjust the day of the week.

Each time the ▲ or ▼ button is pressed the next or previous day is displayed.

4 Press the ◈ button to confirm the current set time and day of the week.

To leave this procedure without saving, press the ⏲⊗ button.

If no button is pressed for 5 minutes the clock and day of the week will return to their previous setting.

NOTE The clock needs to be set manually. Adjust the setting when switching from summertime to wintertime and vice versa.

Setting the schedule timer

To set the schedule timer, refer to chapter "Programming and consulting the schedule timer" on page 6.

Description of the operation modes

Space heating operation (☼)

In this mode, heating will be activated as required by the water temperature set point. The set point can be set manually (refer to "Manual operation" on page 5) or weather dependent (refer to "Selecting weather dependent set point operation (only in heating mode)" on page 5).

Startup (♨/◍/❄)

At the start of a heating operation, the pump is not started until a certain refrigerant heat exchanger temperature is reached. This guarantees correct startup of the heat pump. During startup, icon ♨/◍/❄ is displayed.

Defrost (♨/◍/❄)

In space heating operation or sanitary heating operation, freezing of the outdoor heat exchanger may occur due to low outdoor temperature. If this risk occurs, the system goes into defrost operation. It reverses the cycle and takes heat from the indoor system to prevent freezing of the outdoor system. After a maximum of 10 minutes of defrost operation, the system returns to space heating operation.

Space cooling operation (❄)

In this mode, cooling will be activated as required by the water temperature set point.

NOTE

- The space cooling temperature set point can only be set manually (refer to "Manual operation" on page 5).
- Switching between space heating and space cooling operation can only be done by pressing the ☼/❄ button or by an external room thermostat.
- Space cooling operation is not possible if the installation is a "heating only" installation.

Sanitary heating operation (🚿)

In this mode, the indoor unit will deliver hot water to the sanitary tank when the space heating or space cooling operation has reached its temperature set point. When necessary and when allowed by the booster heater schedule timer (refer to "Programming silent mode, booster heating or sanitary heating" on page 8), the booster heater provides auxilliary heating for the sanitary water tank.

NOTE

- As to provide sanitary water throughout the day, it is advised to keep the sanitary heating operation on continuously.
- The sanitary heating temperature set point can only be set manually (refer to "Manual operation" on page 5).
- Any sanitary heating operation is impossible when the sanitary tank is not installed.

Powerful sanitary heating operation

In the case of urgent need of sanitary water, the sanitary water temperature set point can be reached quickly by using the booster heater. Powerful sanitary heating operation is forcing the booster heater to operate until the sanitary water temperature set point is reached.

Silent mode operation (🏠)

Silent mode operation means that the outdoor unit works at reduced capacity so that the noise produced by the outdoor unit drops. This implies that the indoor heating and cooling capacity will also drop. Beware of this when a certain level of heating is required indoors.

Controller operations

Manual operation

In manual operation, the user manually controls the settings of the installation. The last setting remains active until the user changes it or until the schedule timer forces another setting (refer to "Schedule timer operation" on page 5).

As the controller can be used for a wide variety of installations, it is possible to select a function which is not available on your installation. In that case the message NOT AVAILABLE will appear.

Switching on and setting space cooling (❄) and heating (☀)

1 Use the ☀/❄ button to select space cooling (❄) or space heating (☀).

Icon ❄ or ☀ appears on the display as well as the corresponding water temperature set point.

2 Use the ▲ and ▼ buttons to set the desired water temperature.

- Temperature range for heating: 30°C to 55°C
- Temperature range for cooling: 7°C to 20°C

NOTE

In heating mode (☀), the water temperature set point can also be weather dependent (icon A is shown).

This means that the controller calculates the water temperature set point based on the outdoor temperature.

In this case, instead of showing the water temperature set point, the controller shows the "shift value" which can be set by the user. This shift value is the temperature difference between the temperature set point calculated by the controller and the real set point. E.g. a positive shift value means that the real temperature set point will be higher than the calculated set point.

3 Switch on the unit by pushing the ON/OFF button.

The operation LED ○ lights up.

NOTE

When the unit is connected to an external room thermostat, buttons ☀/❄ and ON/OFF are not operable and the icon is shown. In this case, the external room thermostat switches the unit on or off and determines the operation mode (space cooling or space heating).

Selection and setting of sanitary heating

1 Use the button to activate sanitary heating ( ).

Icon appears on the display.

2 Use the ▲ or ▼ button to display the actual temperature set point and subsequently, to set the corect temperature.

The actual temperature set point only appears on the display after pressing one of the buttons ▲ or ▼. If no button is pressed for 5 seconds, the temperature set point will automatically disappear from the display again.

Temperature range for sanitary heating: 30°C to 80°C

3 Press the button to deactivate sanitary heating ( ).

Icon disappears from the display.

NOTE

Remark that pushing the ON/OFF button has no influence on the sanitary water heating. Sanitary water heating is only switched on or off by means of the button.

Selecting powerful sanitary heating operation

1 Press and ☀/❄ simultaneously for 5 seconds to activate powerful sanitary heating operation.

Icons and start flashing.

Powerful sanitary heating is deactivated automatically when the set point for the sanitary water is reached.

Selecting silent mode operation ( )

1 Use the button to activate silent mode operation ( ).

Icon appears on the display.

If the controller is set in permission level 2 or 3 (refer to the installation manual), the button will not be operable.

Selecting weather dependent set point operation (only in heating mode)

1 Press the A button to select weather dependent set point operation.

Icon A appears on the display as well as the shift value. The shift value is not shown in case it is 0.

2 Use the ▲ and ▼ buttons to set the shift value.

Range for the shift value: –5°C to +5°C

Displaying actual temperatures

1 Push the A button for 5 seconds.

The icon and the outgoing water temperature are displayed. The icons and ☀/❄ are flashing.

2 Use the ▲ and ▼ buttons to display:

- The outdoor temperature (icon is flashing).
- The sanitary water tank temperature (icon is flashing).
- The outgoing water temperature (☀/❄ are flashing).

If no button is pressed for 5 seconds, the controller leaves the display mode.

Schedule timer operation

In schedule timer operation, the installation is controlled by the schedule timer. The actions programmed in the schedule timer will be executed automatically.

The schedule timer always follows the last command until a new command is given. This means that the user can temporarily overrule the last executed programmed command by manual operation (Refer to "Manual operation" on page 5). The schedule timer will regain control over the installation as soon as the next programmed command of the schedule timer occurs.

The schedule timer is enabled (icon displayed) or disabled (icon not displayed), by pressing the button.

NOTE

- Only use the button to enable or disable the schedule timer. The schedule timer overrules the ON/OFF button. The ON/OFF button only overrules the schedule timer until the next programmed action.
- If the auto restart function is disabled, the schedule timer will not be activated when power returns to the unit after a power supply failure. Press the button to enable the schedule timer again.
- When power returns after a power supply failure, the auto restart function reapplies the user interface settings at the time of the power supply failure.

  It is therefor recommended to leave the auto restart function enabled.

- The programmed schedule is time driven. Therefore, it is essential to set the clock and the day of the week correctly. Refer to "Setting the Clock" on page 4.
- Manually adjust the clock for summertime and wintertime. Refer to "Setting the Clock" on page 4.
- A power failure exceeding 1 hour will reset the clock and the day of the week. The schedule timer will continue operation, but with a disordered clock. Refer to "Setting the Clock" on page 4 to adjust the clock and the day of the week.
- The actions programmed in the schedule timer will not be lost after a power failure so that reprogramming the schedule timer is not required.

To set up the SCHEDULE TIMER refer to chapter "Programming and consulting the schedule timer" on page 6.

What can the schedule timer do?

The schedule timer allows the programming of:

1 Space heating and space cooling (refer to "Programming space cooling or space heating" on page 7)

Switch on the desired mode at a scheduled time, in combination with a set point (weather dependent or manually set). Five actions per weekday can be programmed, totalling 35 actions.

NOTE When the unit is connected to an external room thermostat, the schedule timer for space cooling and space heating is overruled by the external room thermostat.

2 Silent mode (refer to "Programming silent mode, booster heating or sanitary heating" on page 8)

Switch the mode on or off at a scheduled time. Five actions can be programmed per mode. These actions are repeated daily.

3 Booster heating (refer to "Programming silent mode, booster heating or sanitary heating" on page 8)

Allow or disallow booster heating at a scheduled time. Five actions can be programmed per mode. These actions are repeated daily.

4 Sanitary heating (refer to "Programming silent mode, booster heating or sanitary heating" on page 8)

Switch the mode on or off at a scheduled time. Five actions can be programmed per mode. These actions are repeated daily.

- The programmed actions are not stored according to their timing but according to the time of programming. This means that the action that was programmed first gets action number 1, even though it is executed after other programmed action numbers.
- When the schedule timer switches space heating or space cooling **OFF**, the controller will also be switched off. Note that this has no influence on sanitary water heating.

What can the schedule timer NOT do?

The schedule timer can not change the operation mode from space cooling to space heating or vice versa.

How to interpret the programmed actions

To be able to understand the behaviour of your installation when the schedule timer is enabled, it is important to keep in mind that the "last" programmed command overruled the "preceding" programmed command and will remain active until the "next" programmed command occurs.

Example: imagine the actual time is 17:30 and actions are programmed at 13:00, 16:00 and 19:00. The "last" programmed command (16:00) overruled the "previous" programmed command (13:00) and will remain active until the "next" programmed command (19:00) occurs.

So in order to know the actual setting, one should consult the last programmed command. It is clear that the "last" programmed command may date from the day before. Refer to "Consulting programmed actions" on page 8.

NOTE During schedule timer operation, someone may have altered the actual settings manually (in other words, the "last" comand was overruled manually). The icon ⏲, indicating the schedule timer operation, may still be displayed, giving the impression that the "last" command settings are still active. The "next" programmed command will overrule the altered settings and return to the original program.

Programming and consulting the schedule timer

Getting started

Programming the schedule timer is flexible (you can add, remove or alter programmed actions whenever required) and straightforward (programming steps are limited to a minimum). However, before programming the schedule timer, remind:

- Familiarise yourself with the icons and the buttons. You will need them when programming. Refer to "Name and function of buttons and icons" on page 2.
- Fill out the form at the very end of this manual. This form can help you define the required actions for each day. Keep in mind that:
  - In the space cooling/heating program, 5 actions can be programmed per weekday. The same actions are repeated on a weekly basis.
  - In the sanitary heating, booster heater and silent mode program, 5 actions can be programmed per mode. The same actions are repeated on a daily basis.
- Take your time to enter all data accurately.
- Try to program the actions in a chronological way: start with action 1 for the first action and end with the highest number for the last action. This is not a requirement but will simplify the interpretation of the program later.
- If 2 or more actions are programmed for the same day and at the same time, only the action with the highest action number will be executed.
- You can always alter, add or remove the programmed actions later.
- When programming heating actions (time and set point), cooling actions are added automatically at the same time but with the predefined default cooling set point. Conversely, when programming cooling actions (time and setpoint), heating actions are added automatically at the same time but with the default heating set point.

  The set points of these automatically added actions can be adjusted by programming the corresponding mode. This means that after programming heating, you should also program the corresponding cooling set points and vice versa.

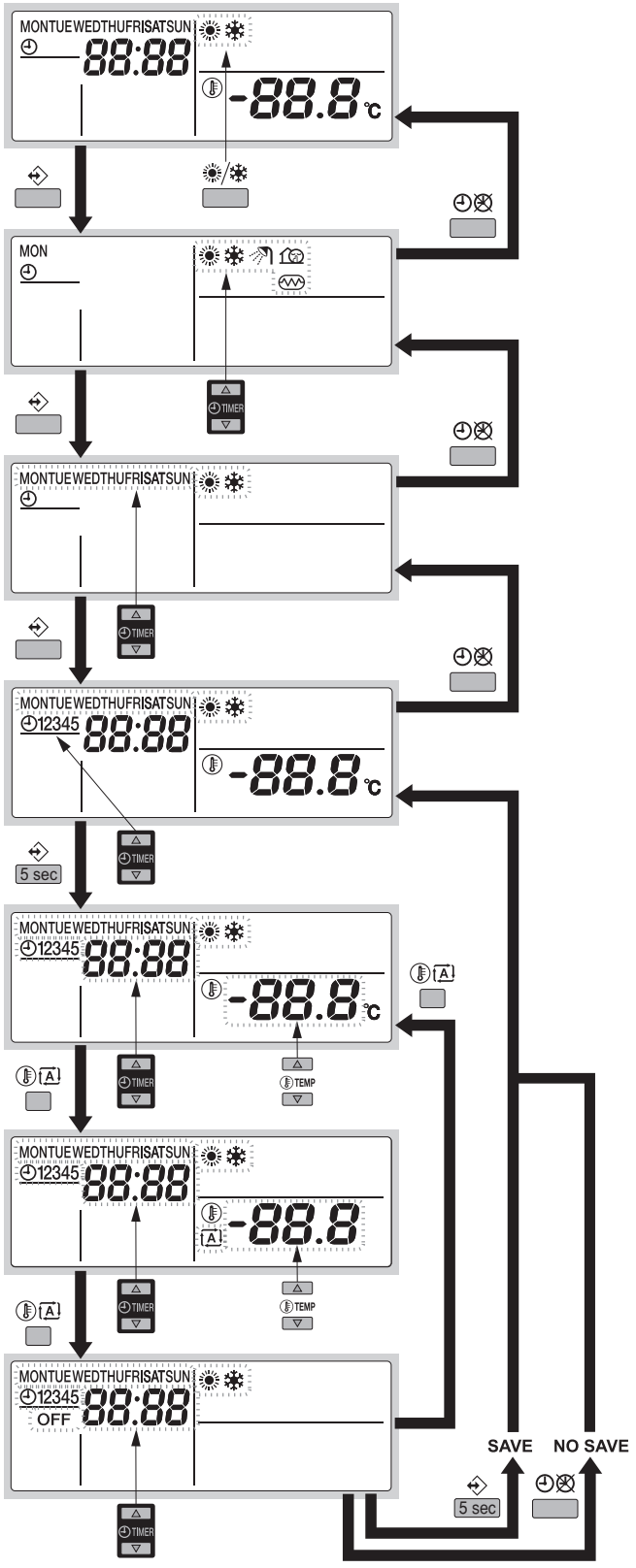
Due to the fact that the schedule timer cannot switch between operation modes (cooling or heating) and the fact that each programmed action implies a cooling setpoint and a heating setpoint, the following situations may occur:

- when the schedule timer is active in heating mode, and the mode is changed manually to cooling (by means of the ☀/❄ button), the operation mode will from then on remain cooling and program actions will follow the corresponding cooling setpoints. Returning to heating mode needs to be carried out manually (by means of the ☀/❄ button).
- when the schedule timer is active in cooling mode, and the mode is changed manually to heating (by means of the ☀/❄ button), the operation mode will from then on remain heating and program actions will follow the corresponding heating setpoints. Returning to cooling mode needs to be carried out manually (by means of the ☀/❄ button).

The above proves the importance of programming both cooling and heating setpoints for each action. If you do not program these setpoints, the predefined default values will be used.

Programming

Programming space cooling or space heating



NOTE Programming space cooling or space heating are both done in the same way. At the start of the programming procedure space cooling or space heating is selected. After that, you have to return to the start of the programming procedure to program the other operation mode.

Programming space cooling or space heating is carried out as follows:

NOTE Returning to previous steps in the programming procedure without saving modified settings is done by pressing the ⏲⊗ button.

1 Use the ☀/❄ button to select the operation mode (cooling or heating) you want to program.

2 Press the ⏎ button.

The actual mode is blinking.

3 Press the ⏎ button to confirm the selected mode.

The actual day is blinking.

4 Select the day you would like to consult or to program by means of the ⏲▲ and ⏲▼ buttons.

The selected day is blinking.

5 Press the ⏎ button to confirm the selected day.

The first programmed action of the selected day appears.

6 Use the ⏲▲ and ⏲▼ buttons to consult the other programmed actions of that day.

This is called the readout mode. Empty program actions (e.g. 4 and 5) are not displayed.

7 Press the ⏎ button for 5 seconds to enter the programming mode.

8 Use the ⏎ button to select the action number you would like to program or to modify.

9 Use the 🌡Ⓐ button to select:

- **OFF**: to switch the switch the cooling or heating and the controller off.
- *-88.8*℃: set the temperature by means of the 🌡▲ and 🌡▼ buttons.
- Ⓐ: to select automatic temperature calculation (only in heating mode).

10 Use the ⏲▲ and ⏲▼ buttons to set the correct action time.

11 Repeat steps 8 to 10 to program the other actions of the selected day.

When all actions have been programmed, make sure that the display shows the highest action number you would like to save.

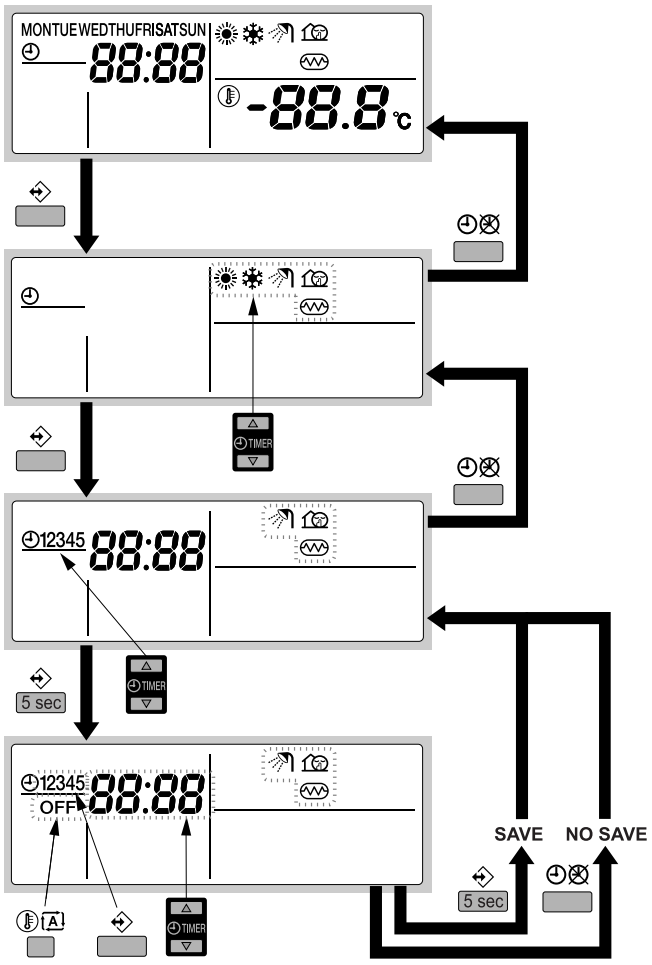
12 Press the ⏎ button for 5 seconds to store the programmed actions.

If the ⏎ button is pressed when action number 3 is displayed, actions 1, 2 and 3 are stored but 4 and 5 are deleted.

You automatically return to step 6.

By pressing the ⏲⊗ button several times, you return to previous steps in this procedure and finally return to normal operation.

Programming silent mode, booster heating or sanitary heating



Programming sanitary heating, booster heater or silent mode is carried out as follows:

NOTE Returning to previous steps in the programming procedure without saving modified settings is done by pressing the ⏲⊗ button.

1 Press the ⬖ button.

The actual mode is blinking.

2 Use the ⏲▲ and ⏲▼ buttons to select the mode you want to program (silent mode, booster heating or sanitary heating).

The selected mode is blinking.

3 Press the ⬖ button to confirm the selected mode.

The first programmed action is displayed.

4 Use the ⏲▲ and ⏲▼ buttons to consult the programmed actions.

This is called the readout mode. Empty program actions (e.g. 4 and 5) are not displayed.

5 Press the ⬖ button for 5 seconds to enter the programming mode.

6 Use the ⬖ button to select the action number you would like to program or to modify.

7 Use the ⏲▲ and ⏲▼ buttons to set the correct action time.

8 Use the Ⓐ button to select or deselect **OFF** as action.

9 Repeat steps 6 to 8 to program the other actions of the selected mode.

When all actions have been programmed, make sure that the display shows the highest action number you would like to save.

10 Press the ⬖ button for 5 seconds to store the programmed actions.

If the ⬖ button is pressed when action number 3 is displayed, actions 1, 2 and 3 are stored but 4 and 5 are deleted.

You automatically return to step 4. By pressing the ⏲⊗ button several times, you return to previous steps in this procedure and finally return to normal operation.

Consulting programmed actions

Consulting space cooling or space heating actions

NOTE Consulting space cooling or space heating is done in the same way. At the start of the consulting procedure space cooling or space heating is selected. After that, you have to return to the start of the consulting procedure to consult the other operation mode.

Consulting space cooling or space heating is carried out as follows.

NOTE Returning to previous steps in this procedure is done by pressing the ⏲⊗ button.

1 Use the ☀/❄ button to select the operation mode (cooling or heating) you want to consult.

2 Press the ⬖ button.

The actual mode is blinking.

3 Press the ⬖ button to confirm the selected mode.

The actual day is blinking.

4 Select the day you would like to consult by means of the ⏲▲ and ⏲▼ buttons.

The selected day is blinking.

5 Press the ⬖ button to confirm the selected day.

The first programmed action of the selected day appears.

6 Use the ⏲▲ and ⏲▼ buttons to consult the other programmed actions of that day.

This is called the readout mode. Empty program actions (e.g. 4 and 5) are not displayed.

By pressing the ⏲⊗ button several times, you return to previous steps in this procedure and finally return to normal operation.

Consulting sanitary heating, booster heater or silent mode

Consulting sanitary heating, booster heater or silent mode is carried out as follows.

NOTE Returning to previous steps in this procedure is done by pressing the ⏲⊗ button.

1 Press the ⬖ button.

The actual mode is blinking.

2 Use the ⏲▲ and ⏲▼ buttons to select the mode you want to consult (silent mode, booster heating or sanitary heating).

The selected mode is blinking.

3 Press the ⬖ button to confirm the selected mode.

The first programmed action is displayed.

4 Use the ⏲▲ and ⏲▼ buttons to consult the programmed actions.

This is called the readout mode. Empty program actions (e.g. 4 and 5) are not displayed.

By pressing the ⏲⊗ button several times, you return to previous steps in this procedure and finally return to normal operation.

Tips and tricks

Programming the next day(s)

After confirming the programmed actions of a specific day (i.e. after pressing the ⇳ button for 5 seconds), press the ⏲⊗ button once. You can now select another day by using the ⏲▲ & ⏲▼ buttons and restart consulting and programming.

Copying programmed actions to next day

In heating/cooling program it is possible to copy all programmed actions of a specific day to the next day (e.g. copy all programmed actions from "MON" to "TUE").

To copy programmed actions to the next day, proceed as follows:

1 Press the ⇳ button.
The actual mode is blinking.

2 Use the ⏲▲ and ⏲▼ buttons to select the mode you want to program.
The selected mode is blinking.
You can leave programming by pressing the ⏲⊗ button.

3 Press the ⇳ button to confirm the selected mode.
The actual day is blinking.

4 Select the day you would like to copy to the next day by means of the ⏲▲ and ⏲▼ buttons.
The selected day is blinking.
You can return to step 2 by pressing the ⏲⊗ button.

5 Press the ⇳ and ⏲⊗ buttons simultaneously for 5 seconds.
After 5 seconds the display will show the next day (e.g. "TUE" if "MON" was selected first). This indicates that the day has been copied.
You can return to step 2 by pressing the ⏲⊗ button.

Deleting one or more programmed actions

Deleting one or more programmed actions is done at the same time as storing the programmed actions.

When all actions for one day have been programmed, make sure that the display shows the highest action number you would like to save. By pressing the ⇳ button for 5 seconds, you store all actions except those with a higher action number than the one that is displayed.

E.g. when the ⇳ button is pressed when action number 3 is displayed, actions 1, 2 and 3 are stored but 4 and 5 are deleted.

Deleting a mode

1 Press the ⇳ button.
The actual mode is blinking.

2 Use the ⏲▲ and ⏲▼ buttons to select the mode you want to delete (silent mode, booster heating or sanitary heating).
The selected mode is blinking.

3 Press the ⇳ and button simultaneously for 5 seconds to delete the selected mode.

Deleting a day of the week (cooling or heating mode)

1 Use the ☀/❄ button to select the operation mode (cooling or heating) you want to delete.

2 Press the ⇳ button.
The actual mode is blinking.

3 Press the ⇳ button to confirm the selected mode.
The actual day is blinking.

4 Select the day you would like to delete by means of the ⏲▲ and ⏲▼ buttons.
The selected day is blinking.

5 Press the ⇳ and button simultaneously for 5 seconds to delete the selected day.

MAINTENANCE

Maintenance activities

In order to ensure optimal availability of the unit, a number of checks and inspections on the unit and the field wiring have to be carried out at regular intervals, preferably yearly. This maintenance should be carried out by your local Daikin technician.

Besides keeping the remote controller clean by means of a soft damp cloth, no maintenance is required by the operator.

Standstill

During longer periods of standstill, e.g. during summer with a heating only application, it is very important NOT TO SWITCH OFF THE POWER SUPPLY towards the unit.

Switching off the power supply stops the automatic repetitive movement of the motor in order to prevent it from getting jammed.

TROUBLESHOOTING

The guidelines below might help to solve your problem. If you cannot solve the problem, consult your installer.

- No readings on the remote controller (blank display)
  Check if the mains power is still connected to your installation.
- One of the error codes appears
  Consult your local Daikin dealer.
- The schedule timer does work but the programmed actions are executed at the wrong time (e.g. 1 hour too late or too early)
  Check if the clock and the day of the week are set correctly, correct if necessary.

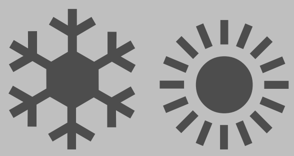
DISPOSAL REQUIREMENTS

Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

Your product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

Do not try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and other parts must be done by a qualified installer in accordance with relevant local and national legislation.

Units must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed off correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.



	🕘 [hh:mm]	❄ [°C]	☼ [°C]	OFF [☑]
MON				
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2	:			❑
3	:			❑
4	:			❑
5	:			❑
TUE				
1	:			❑
2	:			❑
3	:			❑
4	:			❑
5	:			❑
WED				
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4	:			❑
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THU				
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4	:			❑
5	:			❑
FRI				
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SAT				
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5	:			❑
SUN				
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4	:			❑
5	:			❑

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2	:	❑	❑
3	:	❑	❑
4	:	❑	❑
5	:	❑	❑

	🕘 [hh:mm]	ON [☑]	OFF [☑]
1	:	❑	❑
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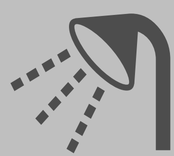

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4	:	❑	❑
5	:	❑	❑

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