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

EKHBH016AA
EKHBX016AA

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 start up 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 ERHQ 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 radiators 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 can optionally be 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.

NOTE An EKHBH/X016**AA** indoor unit can only be connected to an ERHQ0*__AA__-series outdoor unit.

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

The altherma by DAIKIN heat pump system is designed to provide you a comfortable indoor climate for many years at low energy consumption.

To get the most comfort with the lowest energy consumption out of your system, it is very important to observe the items listed below.

Defining possible schedule timer actions for each day and filling out the form at the very end of this manual can help you minimize the energy consumption. Ask your installer for support if required.

- Make sure the altherma by DAIKIN heat pump system works at the lowest possible hot water temperature required to heat your house.

  To optimize this, make sure the weather dependent set point is used and configured to match the installation environment. Refer to "Field settings" on page 10.
- Make sure the equilibrium temperature field setting is configured correctly.

  Refer to "Field settings" on page 10.

  This function applies to operation of the optional backup heater. Setting the equilibrium temperature correctly will avoid the backup heater to operate when the heat pump has sufficient capacity to heat up your house.
- It is advised to install a room thermostat connected to the indoor unit. This will prevent excessive space heating and will stop the outdoor unit and the indoor circulation pump when the room temperature is above the thermostat set point.
- Next recommendations only apply to installations with an optional sanitary water tank.
  - Make sure the sanitary water is only heated up to the sanitary water temperature you require.

    Start with a low sanitary water temperature set point (e.g. 45°C), and only increase if you feel that the sanitary water supply temperature is not sufficient.
  - Make sure both the sanitary water heating and booster heating only start 1 to 2 hours before you expect sanitary water usage.

    In case you only need a lot of sanitary water in the evening or in the morning, only allow sanitary water heating during early morning and early evening. Also keep hours with low electricity cost tariffs in mind.

    To do this, program both the sanitary water heating and booster heating schedule timer. Refer to Programming in chapter "Programming and consulting the schedule timer" on page 7.

Operating the digital controller

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.

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 5),
  - space cooling (refer to page 5) (*),
  - sanitary heating (refer to page 5) (*).
- Selection of features:
  - quiet mode (refer to page 5),
  - weather dependent control (refer to page 6).
- 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

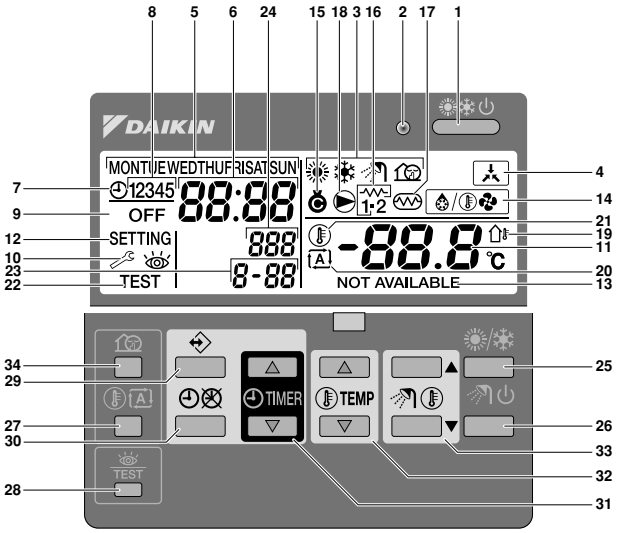
The clock functions are:

- 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

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 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 quiet 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 () or on high capacity (). 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 auxiliary 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 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 "Field settings" on page 10), the weather dependent set point button will not be operable.

28 INSPECTION/TEST OPERATION BUTTON

This button is used for installation purposes and changing field settings. Refer to "Field settings" on page 10.

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 "Field settings" on page 10), 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 setting 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 QUIET MODE BUTTON

This button enables or disables quiet mode.

If the controller is set in permission level 2 or 3 (refer to "Field settings" on page 10), the quiet 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 7.

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 6).

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 8 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 quiet mode, booster heating or sanitary heating" on page 9), the booster heater provides auxiliary 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.

Quiet mode operation (🏠)

Quiet 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 6).

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: 25°C to 55°C
  The temperature for heating can be set as low as 15°C (see "Field settings" on page 10). However, the temperature for heating should only be set lower than 25°C during commissioning of the installation. When set lower than 25°C, only the backup heater will operate.
  In order to avoid overheating, space heating is not operable when the outdoor ambient temperature rises above a certain temperature (as set through field setting [4-02], refer to "Field settings" on page 10).
- Temperature range for cooling: 5°C to 22°C

NOTE

In heating mode (☼), the water temperature set point can also be weather dependent (icon 🅰 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 ❄/☼/⏻ button.
The operation LED ○ lights up.

NOTE

When the unit is connected to an external room thermostat, buttons ☼/❄ and ❄/☼/⏻ 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 correct 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 ❄/☼/⏻ 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 🚿⏻ 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 quiet mode operation (🤫)

1 Use the 🤫 button to activate quiet mode operation (🤫).
Icon 🤫 appears on the display.
If the controller is set in permission level 2 or 3 (refer to "Field settings" on page 10), the 🤫 button will not be operable.

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

1 Press the 🌡🅰 button to select weather dependent set point operation.
Icon 🅰 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 🌡🅰 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 ❄⏻ button. The ❄⏻ 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 therefore 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 7.

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 8)
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 Quiet mode (refer to "Programming quiet mode, booster heating or sanitary heating" on page 9)
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 quiet mode, booster heating or sanitary heating" on page 9)
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 quiet mode, booster heating or sanitary heating" on page 9)
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 9.

NOTE

During schedule timer operation, someone may have altered the actual settings manually (in other words, the "last" command 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 3.
- 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 quiet 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.

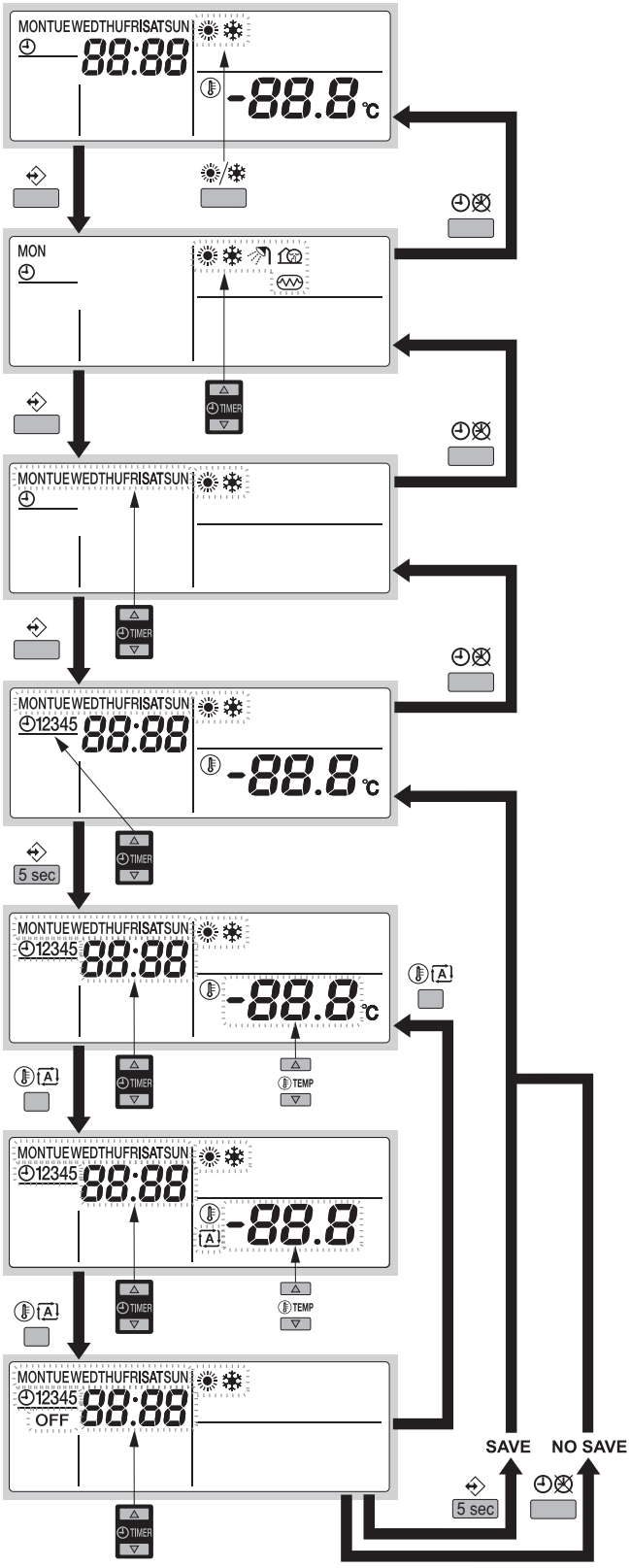
Due to the fact that the schedule timer cannot switch between operation modes (cooling or heating) and the fact that each programmed action implies a cooling setpoint and a heating setpoint, the following situations may occur:

- 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 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.

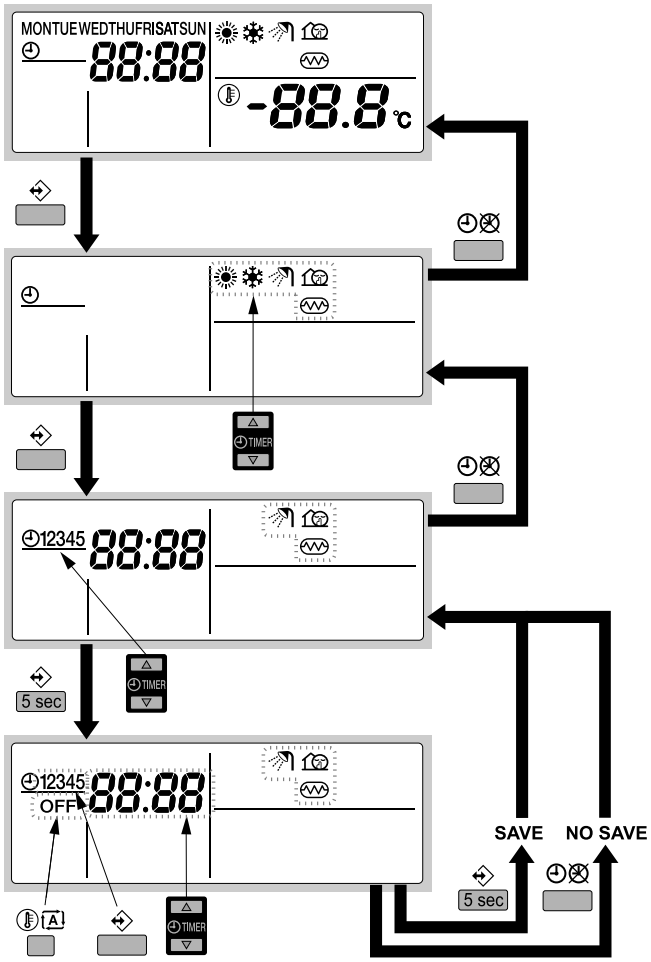
12 Press the ⏎ button for 5 seconds to store the programmed actions.

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 quiet mode, booster heating or sanitary heating



Programming sanitary heating, booster heater or quiet 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 (quiet 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 🌡A 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 quiet mode

Consulting sanitary heating, booster heater or quiet 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 (quiet 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 ⏲▲ and ⏲▼ 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 (quiet mode, booster heating or sanitary heating).
The selected mode is blinking.

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

FIELD SETTINGS

The indoor unit should be configured by the installer to match the installation environment (outdoor climate, installed options, etc.) and user demand. Thereto, a number of so called field settings are available. These field settings are accessible and programmable through the user interface on the indoor unit.

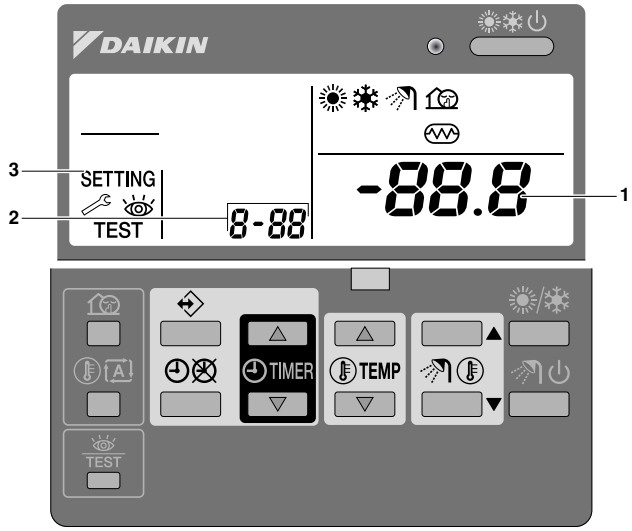
Each field setting is assigned a 3-digit number or code, for example [5-03], which is indicated on the user interface display. The first digit [5] indicates the 'first code' or field setting group. The second and third digit [03] together indicate the 'second code'.

A list of all field settings and default values is given under "Field settings table" on page 15. In this same list, we provided for 2 columns to register the date and value of altered field settings at variance with the default value.

A detailed description of each field setting is given under "Detailed description" on page 11.

Procedure

To change one or more field settings, proceed as follows.



1 Press the TEST button for a minimum of 5 seconds to enter FIELD SET MODE.
The SETTING icon (3) will be displayed. The current selected field setting code is indicated *8-88* (2), with the set value displayed to the right *-88.8* (1).

2 Press the 🌡TEMP ▲ button to select the appropriate field setting first code.

3 Press the 🌡TEMP ▼ button to select the appropriate field setting second code.

4 Press the ⏲TIMER▲ button and ⏲TIMER▼ button to change the set value of the select field setting.

5 Save the new value by pressing the ⏲⊗ button.

6 Repeat step 2 through 4 to change other field settings as required.

7 When finished, press the TEST button to exit FIELD SET MODE.

NOTE Changes made to a specific field setting are only stored when the ⏲⊗ button is pressed. Navigating to a new field setting code or pressing the TEST button will discard the change made.

NOTE

- Before shipping, the set values have been set as shown under "Field settings table" on page 15.
- When exiting FIELD SET MODE, "88" may be displayed on the user interface LCD while the unit initialises itself.

Detailed description

[0] User permission level

If required, certain user interface buttons can be made unavailable for the user.

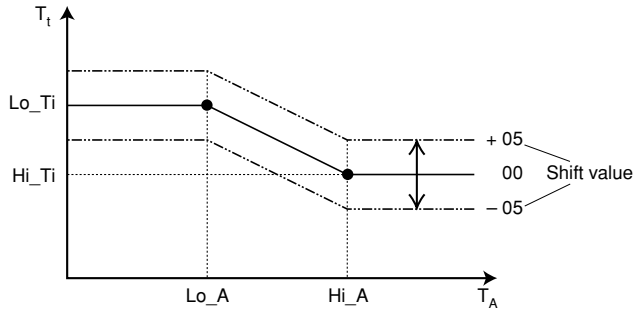
Three permission levels are defined (see the table below). Switching between level 1 and level 2/3 is done by simultaneously pressing buttons TIMER ▲ and TIMER ▼ immediately followed by simultaneously pressing buttons and , and keeping all 4 buttons pressed for at least 5 seconds (in normal mode). Note that no indication on the user interface is given. When level 2/3 is selected, the actual permission level — either level 2 or level 3 — is determined by the field setting [0-00].

Button		Permission level 1	2	3
Quiet mode button		operable	—	—
Weather dependent set point button		operable	—	—
Schedule timer enable/ disable button		operable	operable	—
Programming button		operable	—	—
Time adjust buttons	TIMER ▲ TIMER ▼	operable	—	—
Inspection/test operation button	TEST	operable	—	—

[1] Weather dependent set point (heating operation only)

The weather dependent set point field settings define the parameters for the weather dependent operation of the unit. When weather dependent operation is active the water temperature is determined automatically depending on the outdoor temperature: colder outdoor temperatures will result in warmer water and vice versa. During weather dependent operation, the user has the possibility to shift up or down the target water temperature by a maximum of 5°C. See "Selecting weather dependent set point operation (only in heating mode)" on page 6 more details on weather dependent operation.

- [1-00] Low ambient temperature (Lo_A): low outdoor temperature.
- [1-01] High ambient temperature (Hi_A): high outdoor temperature.
- [1-02] Set point at low ambient temperature (Lo_Ti): the target outgoing water temperature when the outdoor temperature equals or drops below the low ambient temperature (Lo_A).
  Note that the Lo_Ti value should be *higher* than Hi_Ti, as for colder outdoor temperatures (i.e. Lo_A) warmer water is required.
- [1-03] Set point at high ambient temperature (Hi_Ti): the target outgoing water temperature when the outdoor temperature equals or rises above the high ambient temperature (Hi_A).
  Note that the Hi_Ti value should be *lower* than Lo_Ti, as for warmer outdoor temperatures (i.e. Hi_A) less warm water suffices.



T_t	Target water temperature
T_A	Ambient (outdoor) temperature
Shift value	= Shift value

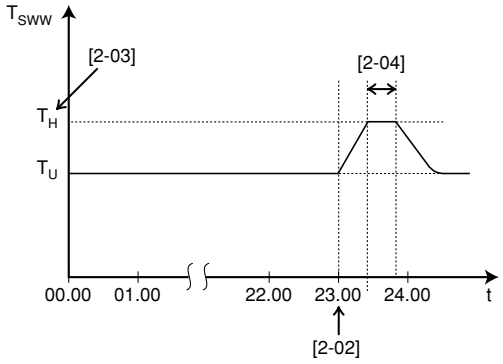
[2] Disinfection function

Applies only to installations with a sanitary water tank.

The disinfection function disinfects the sanitary water tank by periodically heating the sanitary water to a specific temperature.

The disinfection function field settings must be configured by the installer according to national and local regulations.

- [2-00] Operation interval: day(s) of the week at which the sanitary water should be heated.
- [2-01] Status: defines whether the disinfection function is turned on (1) or off (0).
- [2-02] Start time: time of the day at which the sanitary water should be heated.
- [2-03] Set point: high water temperature to be reached.
- [2-04] Interval: time period defining how long the set point temperature should be maintained.



T_{SWW}	Sanitary water temperature
T_U	User set point temperature (as set on the user interface)
T_H	High set point temperature [2-03]
t	Time

[3] Auto restart

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.

NOTE It is therefore recommended to leave the auto restart function enabled.

Note that with the function 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.

- [3-00] Status: defines whether the auto restart function is turned **ON (0)** or **OFF (1)**.

[4] Backup heater operation and space heating off temperature

Backup heater operation — Applies only to units with optional backup heater installed.
The operation of the backup heater can altogether be enabled or disabled, or it can be disabled depending on operation of the booster heater.

- [4-00] Status: defines whether backup heater operation is enabled (1) or disabled (0).
- [4-01] Priority: defines whether backup heater and booster heater can operate simultaneously (0), or if the booster heater operation has priority over the backup heater operation (1).

NOTE When the priority field setting is set to ON (1), space heating performance of the system might be decreased at low outdoor temperatures, since in case of sanitary water heating demand the backup heater will not be available for space heating (space heating will still be provided by the heat pump).

When the priority field setting is set to OFF (0), make sure that electrical power consumption does not exceed supply limits.

Space heating off temperature

- [4-02] Space heating off temperature: outdoor temperature above which space heating is turned off, to avoid overheating.

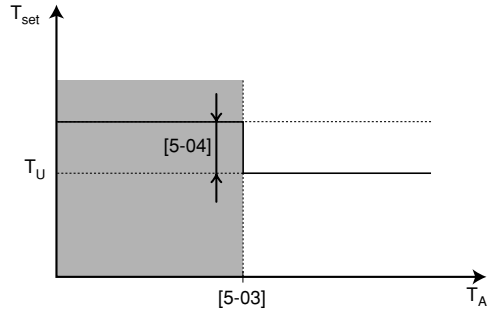
[5] Equilibrium temperature and space heating priority temperature

Equilibrium temperature — The 'equilibrium temperature' field settings apply to operation of the **optional backup heater**. When the equilibrium temperature function is enabled, operation of the backup heater is restricted to low outdoor temperatures, i.e. when the outdoor temperature equals or drops below the specified equilibrium temperature. When the function is disabled, operation of the backup heater is possible at all outdoor temperatures. Enabling this function reduces the working time of the backup heater.

- [5-00] Equilibrium temperature status: specifies whether the equilibrium temperature function is enabled (1) or disabled (0).
- [5-01] Equilibrium temperature: outdoor temperature below which operation of the backup heater is allowed.

Space heating priority temperature (applies only to installations with a sanitary water tank) — The 'space heating priority temperature' field settings apply to operation of the 3-way valve and the **booster heater** in the sanitary water tank.
When the space heating priority function is enabled, it is assured that the full capacity of the heat pump is used for space heating only when the outdoor temperature equals or drops below the specified space heating priority temperature, i.e. low outdoor temperature. In this case the sanitary water will only be heated by the booster heater.

- [5-02] Space heating priority status: specifies whether space heating priority is enabled (1) or disabled (0).
- [5-03] Space heating priority temperature: outdoor temperature below which the sanitary water will be heated by the booster heater only, i.e. low outdoor temperature.
- [5-04] Set point correction for sanitary water temperature: set point correction for the desired sanitary water temperature, to be applied at low outdoor temperature when space heating priority is enabled. The corrected (higher) set point will make sure that the *total* heat capacity of the water in the tank remains approximately unchanged, by compensating for the colder bottom water layer of the tank (because the heat exchanger coil is not operational) with a warmer top layer.



T_{set}	Sanitary water set point temperature
T_U	User set point (as set on the user interface)
T_A	Ambient (outdoor) temperature
	Space heating priority

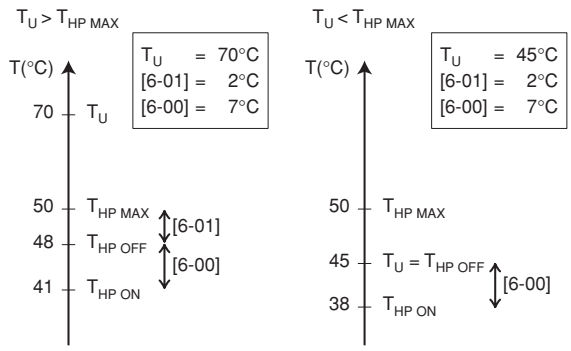
[6] DT for sanitary water heating

Applies only to installations with a sanitary water tank.

The 'DT (delta temperature) for sanitary water heating' field settings determine the temperatures at which heating of the sanitary water by the heat pump will be started (i.e., the heat pump ON temperature) and stopped (i.e., the heat pump OFF temperature).
When the sanitary water temperature drops below the heat pump ON temperature ($T_{HP\ ON}$), heating of the sanitary water by the heat pump will be started. As soon as the sanitary water temperature reaches the heat pump OFF temperature ($T_{HP\ OFF}$) or the user set point temperature (T_U), heating of the sanitary water by the heat pump will be stopped (by switching the 3-way valve).

The heat pump OFF temperature, and the heat pump ON temperature, and its relation with field settings [6-00] and [6-01] are explained in the illustration below.

- [6-00] Start: temperature difference determining the heat pump ON temperature ($T_{HP\ ON}$). See illustration.
- [6-01] Stop: temperature difference determining the heat pump OFF temperature ($T_{HP\ OFF}$). See illustration.



T_U	User set point temperature (as set on the user interface)
$T_{HP\ MAX}$	Maximum heat pump temperature at sensor in sanitary water tank (55°C)
$T_{HP\ OFF}$	Heat pump OFF temperature
$T_{HP\ ON}$	Heat pump ON temperature

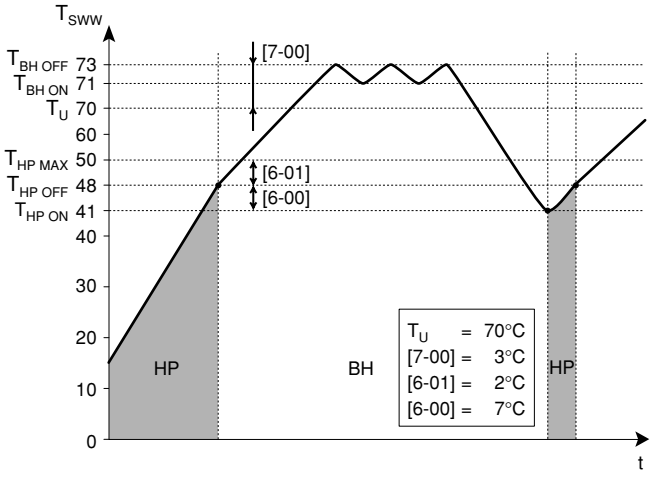
[7] Sanitary water step length

Applies only to installations with a sanitary water tank.

When the sanitary water is heated and the sanitary water set point temperate (as set by the user) has been reached, the booster heater will continue to heat the sanitary water to a temperature a few degrees above the set point temperature, i.e. the booster heater OFF temperature. These extra degrees are specified by the sanitary water step length field setting. Correct setting prevents the booster heater from repeatedly turning on and off (i.e. chattering) to maintain the sanitary water set point temperature. Note: the booster heater will turn back on when the sanitary water temperature drops 2°C (fixed value) below the booster heater OFF temperature.

NOTE If the schedule timer for booster heater (see the operation manual) is active, the booster heater will only operate if allowed by this schedule timer.

- [7-00] Sanitary water step length: temperature difference above the sanitary water set point temperature before the booster heater is turned off.



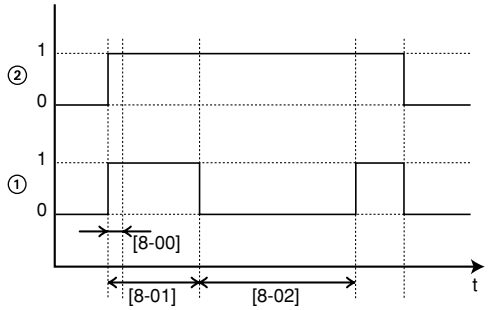
BH	Booster heater
HP	Heat pump. If heating up time by the heat pump takes too long, auxiliary heating by the booster heater can take place
$T_{BH\ OFF}$	Booster heater OFF temperature (T_U + [7-00])
$T_{BH\ ON}$	Booster heater ON temperature ($T_{BH\ OFF}$ – 2°C)
$T_{HP\ MAX}$	Maximum heat pump temperature at sensor in sanitary water tank
$T_{HP\ OFF}$	Heat pump OFF temperature ($T_{HP\ MAX}$ – [6-01])
$T_{HP\ ON}$	Heat pump ON temperature ($T_{HP\ OFF}$ – [6-00])
T_{SWW}	Sanitary water temperature
T_U	User set point temperature (as set on the user interface)
t	Time

[8] Sanitary water heating mode timer

Applies only to installations with a sanitary water tank.

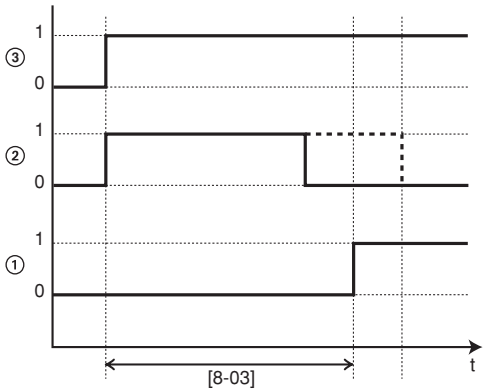
The 'sanitary water heating mode timer' field settings defines the minimum and maximum sanitary water heating times, and minimum time between two sanitary water heating cycli.

- [8-00] Minimum running time: specifies the minimum time period during which sanitary water heating should be activated, even when the target sanitary water temperature has already been reached.
- [8-01] Maximum running time: specifies the maximum time period during which sanitary water heating can be activated, even when the target sanitary water temperature has not yet been reached.
  Note that when the unit is configured to work with a room thermostat (refer to the installation manual), the maximum running timer will only be taken into account when there is a request for space cooling or space heating. When there is no request for room cooling or room heating, sanitary water heating by the heat pump will continue until the "heat pump OFF temperature" (see field settings [5]) is reached. When no room thermostat is installed, the timer is always taken into account.
- [8-02] Anti-recycling time: specifies the minimum required interval between two sanitary water heating cycli.



1	Sanitary water heating (1 = active, 0 = not active)
2	Hot water request (1 = request, 0 = no request)
t	Time

■ [8-03] Booster heater delay time: specifies the start-up time delay of the booster heater operation after start of the heat pump sanitary operation.



1 Booster heater operation (1 = active, 0 = not active)
2 Heat pump sanitary operation (1 = request, 0 = no request)
3 Hot water request (1 = request, 0 = no request)
t Time

NOTE

- Take care that [8-03] is always smaller than the maximum running time [8-01].
- By adapting the booster heater delay time versus the maximum running time, an optional balance can be found between the energy efficiency and the heat up time.
- However, if the booster heater delay time is set too high, it might take a long time before the sanitary water reaches its set temperature upon sanitary mode request.

Example

	energy saving settings	quick heating settings (default)
[8-01]	20~95 min	30 min
[8-03]	20~95 min	20 min

[9] Cooling and heating set points

The purpose of this field setting is to prevent the user from selecting a wrong (i.e., too hot or too cold) leaving water temperature. Thereto the heating temperature set point range and the cooling temperature set point range available to the user can be configured.

- In case of a floor heating application, it is important to limit the maximum leaving water temperature at heating operation according to the specifications of the floor heating installation.
- In case of a floor cooling application, it is important to limit the minimum leaving water temperature at cooling operation to 16°C to prevent condensation on the floor.

- [9-00] Heating set point upper limit: maximum leaving water temperature for heating operation.
- [9-01] Heating set point lower limit: minimum leaving water temperature for heating operation.
- [9-02] Cooling set point upper limit: maximum leaving water temperature for cooling operation.
- [9-03] Cooling set point lower limit: minimum leaving water temperature for cooling operation.

[A] Quiet mode

This field setting allows to select the desired quiet mode. Two quiet modes are available: quiet mode A and quiet mode B.

In quiet mode A, priority is given to the outdoor unit operating quietly under **all** circumstances. Fan and compressor speed (and thus performance) will be limited to a certain percentage of the speed at normal operation. In certain cases, this might result in reduced performance.

In quiet mode B, quiet operation might be overridden when higher performance is required. In certain cases, this might result in less quiet operation of the outdoor unit to meet the requested performance.

- [A-00] Quiet mode type: defines whether quiet mode A (0) or quiet mode B (2) is selected.
- [A-01] Parameter 01: do not change this setting. Leave it set to its default value.

Do not set other values than the ones mentioned.

Field settings table

First code	Second code	Setting name	Installer setting at variance with default value				Default value	Range	Step	Unit
			Date	Value	Date	Value				
0	**User permission level**									
	00	User permission level					3	2~3	1	—
1	**Weather dependent set point**									
	00	Low ambient temperature (Lo_A)					–10	–20~5	1	°C
	01	High ambient temperature (Hi_A)					15	10~20	1	°C
	02	Set point at low ambient temperature (Lo_TI)					40	25~55	1	°C
	03	Set point at high ambient temperature (Hi_TI)					25	25~55	1	°C
2	**Disinfection function**									
	00	Operation interval					Fri	Mon~Sun, All	—	—
	01	Status					1 (ON)	0/1	—	—
	02	Start time					23:00	0:00~23:00	1:00	hour
	03	Set point					70	40~80	5	°C
	04	Interval					10	5~60	5	min
3	**Auto restart**									
	00	Status					0 (ON)	0/1	—	—
4	**Backup heater operation and space heating off temperature**									
	00	Status					1 (ON)	0/1	—	—
	01	Priority					0 (OFF)	0/1	—	—
	02	Space heating off temperature					35	14~35	1	°C
5	**Equilibrium temperature and space heating priority temperature**									
	00	Equilibrium temperature status					1 (ON)	0/1	—	—
	01	Equilibrium temperature					0	–15~20	1	°C
	02	Space heating priority status					0 (OFF)	0/1	—	—
	03	Space heating priority temperatures					0	–15~20	1	°C
	04	Set point correction for sanitary water temperature					10	0~20	1	°C
6	**DT for sanitary water heating**									
	00	Start					5	1~20	1	°C
	01	Stop					2	2~10	1	°C
7	**Sanitary water step length**									
	00	Sanitary water step length					3	2~4	1	°C
8	**Sanitary water heating mode timer**									
	00	Minimum running time					5	0~20	1	min
	01	Maximum running time					30	5~95	5	min
	02	Anti-recycling time					3	0~10	0.5	hour
	03	Booster heater delay time					20	20~95	5	min
9	**Cooling and heating set point ranges**									
	00	Heating set point upper limit					55	37~55	1	°C
	01	Heating set point lower limit					15/25(*)	15~37	1	°C
	02	Cooling set point upper limit					20	18~22	1	°C
	03	Cooling set point lower limit					5	5~18	1	°C
A	**Quiet mode**									
	00	Quiet mode type					0	0/2	—	—
	01	Parameter 01					3	—	—	—

(*) With optional backup heater installed: 15°C. Without optional backup heater installed: 25°C

MAINTENANCE

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Refrigerant type: R410A

GWP(1) value: 1975

(1) GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

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

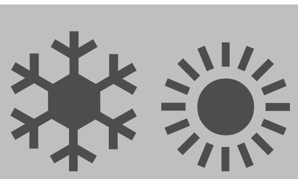
Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

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.

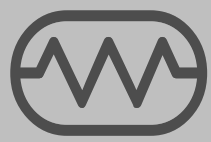
Units must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed off correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

NOTES



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

	[hh:mm]	ON [☑]	OFF [☑]
1	:	❑	❑
2	:	❑	❑
3	:	❑	❑
4	:	❑	❑
5	:	❑	❑



	[hh:mm]	ON [☑]	OFF [☑]
1	:	❑	❑
2	:	❑	❑
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4	:	❑	❑
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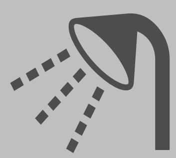

	[hh:mm]	ON [☑]	OFF [☑]
1	:	❑	❑
2	:	❑	❑
3	:	❑	❑
4	:	❑	❑
5	:	❑	❑

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