

User manual

heat pump

Version: EN v. 042016



Heat pump operations

Use the control knob (push-and-roll) to operate both QAA74 room unit and AVS74 operator unit.

The display is organized into a navigation bar, status bar, and work area.



The overview page with navigation bar is displayed when you activate the device. The navigation bar provides for direct access to the main functions.

If you want to query information on heating, ventilation, and hot water, turn the control knob and select the desired topic from navigation.

To adjust values, press the knob after selecting the desired main function. Then select the value you want to adjust in the work area.

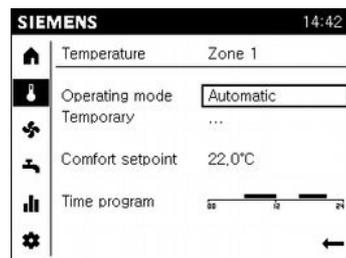
Operating objects may have three display states:

	Not selected: The operating object is displayed normally, black on white background.
	Preselected: The operating object is framed.
	Selected: The operating object is inverted, white on black background.

The most important features at a glance

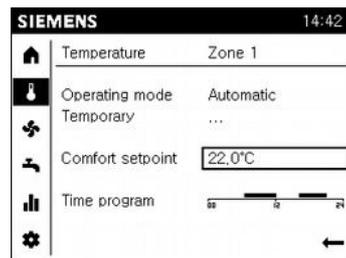
Saving energy

- Use Automatic mode.
- Set Comfort setpoint.
- Use time program.

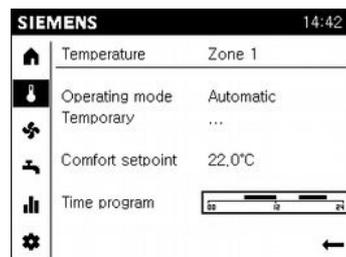


As a rule, the **operating mode** is set to Automatic: In this mode, the controller works correctly and uses all available energy saving options (e.g. summer/winter mode).

Or you operate the building or individual living zones without time program continuously in **operating modes** Comfort, Reduced, or Protection.



Set the **Comfort setpoint** to a comfortable temperature for the times when you actively use the building or living zones.



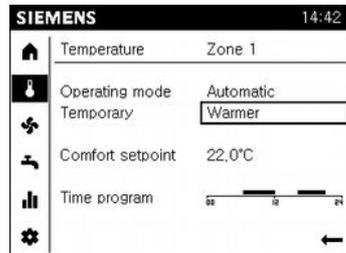
Use the **time program** to operate the building or living zones at a reduced temperature during daily vacancies or at night. The time program is used only in operating mode Automatic.

Domestic hot water treatment...

Use the **operating mode**, **nominal setpoint**, and the **time program** for your domestic hot water treatment in the same manner as you do for heating.

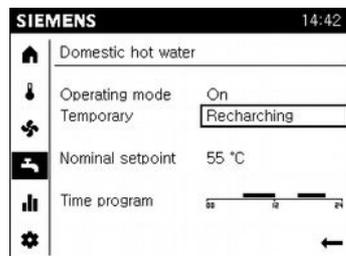
Handling special events and situations

- Adapt temperature temporarily.
- Boost ventilation and hot water 'recharging'.
- Shut down building during extended absence.



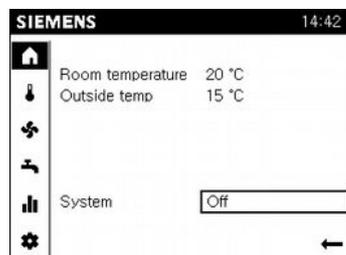
Use **temporary** "Warmer" or "Cooler" to adapt the temperature to special circumstances.

Advantage: No settings are changed. The noticeable modification is made on a temporary basis. The controller returns to operation using the defaults.



Use **temporary** "Recharging" to quickly reheat hot water to the nominal setpoint in special circumstances.

Advantage: No settings are changed. The controller returns to operation using the defaults as soon as the hot water is recharged.

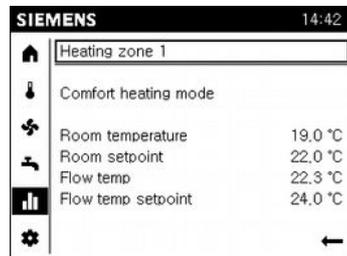


Use **plant/zone switch** "Off" if you leave your house or apartment for an extended period of time. The building is protected. Energy consumption is reduced to a minimum.

Set upon return to "Automatic", and the entire plant returns to operation.

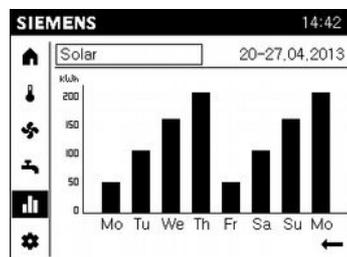
Controlling both plant and consumption

- Query info pages.
- Compare consumption values.



Use the **Info pages** to quickly gain an overview of relevant data on the building or living zones.

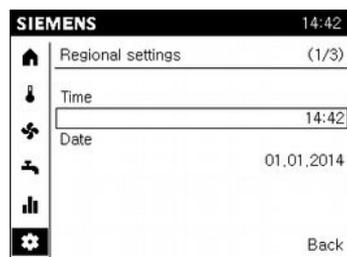
Pending controller messages (displayed by the symbols on the status bar) are displayed on these pages.



Use the **Energy pages** to compare energy consumption and energy gains (e.g. solar) on a time axis.

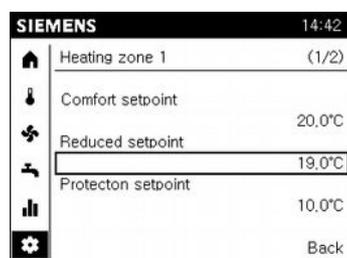
Set operator unit and plant

- The settings are made on the operator unit (e.g. set clock).
- Set important plant parameters.



The following can be set on your operator unit:

- Time and date
- Start of summertime and end of summertime
- Language



Is it always too warm or too cold in the building or individual living zones? The most important plant parameters for easily accessible:

- Comfort, reduced, and protection setpoint
- Heating or cooling characteristic curve
- Summer / winter heating limit

Note

Your heating installer can provide additional information on heating and cooling characteristic curve, as well as summer/winter heating limits.

Symbol meanings

The following symbols are located on the navigation bar (left, vertical):

Accessible for end user and experts:	
	Start page: Plant status. Access to plant switch (or zone switch).
	Temperature page. Access to heating and cooling.
	Ventilation page. Access to ventilation.
	Domestic hot water page. Access to hot water handling.
	Info pages: <ul style="list-style-type: none"> ● Messages (errors, events) ● Plant information ● Energy data and consumption on a time axis
	Service/setting pages: <ul style="list-style-type: none"> ● Setting options on device or plant ● Operate special operations (e.g. for maintenance work) ● Login in expert view (see note below)
Available in addition for experts:	
	Diagnostic pages: Analyze and test plant.
	Adjust and repair: <ul style="list-style-type: none"> ● Adapt parameters in 'Complete parameter list' ● Access to commissioning wizards

Note

Only properly trained technicians may make settings in the expert view.

The following symbols can be displayed on the status bar (top, horizontal):

	Symbol 'Alarm' indicates a plant error.
	Symbol 'Maintenance/Special mode' indicates the presence of a maintenance message or special mode feedback.
	Symbol 'Event' indicates an event message from the plant.
	'Hand' symbol The 'Hand' symbol is displayed if the plant/zone switch setting is changed by a change to the topic pages. Adjustments made on the topic pages can be reset at the plant/zone switch.
12:00	The device clock is synchronized with the clock from the connected controller.
	Symbol 'User' and the number to the right (access level 1 to 3) indicate which user level is currently active.
	Symbol 'Producer' indicates the main producer (e.g. oil/gas boiler, heat pump) that is currently switched on.

Navigate and set using the control knob

To go to the navigation bar:

	Turn control knob: Preselect the symbol on the navigation bar. The related topic page is displayed in the work area.
	Push control knob: Selects the topic page. The first adjustable operating object of the work area is preselected.
	Go back using the Back arrow on the navigation bar.

To set values in the work area:

	Turn control knob: Preselect operating object.
	Push control knob: Selects the operating object. The lower level is displayed if the operating object consists of multiple levels (e.g. time program).
	Set value.
	Confirm the set value. The set operating object is again framed (preselected).
	Continue navigation <ul style="list-style-type: none">● To go to other pages, on the selected page title● "Back" within the work area● Back arrow to return to navigation bar

Operating tips

Editing timeout	5 seconds	A changed setting reverts to the original state if no confirmed within this period.
Locking timeout	1 minute	Certain plant states are displayed in the foreground, e.g. special mode page. However, users are still able to go to any page and set values. The foreground page returns after this period without operator intervention.
Operating timeout	8 minutes	After this period without operation, display automatically returns to the start page.