oventrop

ClimaCon F 316

Operating instructions DE

ClimaCon F 316

Contents

Contents

1. General information

The original operating instructions are written in German.

The operating instructions in other languages have been translated from German.

1.1 Validity of the instructions

These instructions are valid for the Oventrop ClimaCon F 316 room thermostats.

1.2 Type plate

The type plate is located on the inside of the control unit.

1.3 Scope of delivery

- ClimaCon F 316 room thermostat
- Safety and installation advice

1.4 Contact

OVENTROP GmbH & Co. KG
Paul-Oventrop-Straße 1
59939 Olsberg
GERMANY
www.oventrop.com

Technical service
Phone: +49 (0) 29 62 82-234

1.5 Declaration of conformity

All Oventrop ClimaCon F room thermostats are manufactured in compliance with the relevant provisions of the relevant EU directives.

Oventrop GmbH & Co. KG hereby declares that the ClimaCon F 316 wireless installation types comply with the directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

www.oventrop.com.

1.6 Symbols used

	Highlights important information and further additions.
▶	Action required
•	List
1 2	Fixed order. Steps 1 to X.
▷	Result of action

2. Safety-related information

2.1 Correct use

Operational safety is only guaranteed if the product is used as intended.

The ClimaCon F 316 room thermostats are electronically controlled operating devices for controlling heating and cooling ceilings as well as ceiling sails and radiant ceiling panels.

Any use beyond and/or different from this is considered unintended use.

Claims of any kind against the manufacturer and/or his authorised representatives for damage resulting from unintended use cannot be recognised.

Intended use also includes correct compliance with these instructions.

2.2 Warnings

Each warning contains the following elements:

Warning symbol SIGNAL WORD

Type and source of danger!
Possible consequences if the danger occurs or the warning is ignored.

- ! Ways to avoid the danger.

Signal words define the severity of the danger posed by a situation.

WARNING

Indicates a possible danger with moderate risk. If the situation is not avoided, death or serious bodily injuries may result.

CAUTION

Indicates a possible danger with lower risk. If the situation is not avoided, minor and reversible bodily injuries will result.

NOTICE

Indicates a situation that can potentially result in damage to property if not avoided.

2.3 Safety instructions

We have developed this product in accordance with current safety requirements.

Observe the following instructions for safe use.

2.3.1 Danger due to electric current

- ! Make sure that the product can be disconnected from the power supply at any time.
- ! Do not operate the product if there is visible damage.
- ! Work on the power supply may only be carried out by a qualified electrician.
- ! Disconnect the product from the power supply at all poles for installation work, secure it against being switched on again and check that no voltage is present.
- ! Only install the product in dry indoor areas.
- ! Use a SELV voltage source galvanically isolated from the earth potential.

2.3.2 Danger due to insufficient personnel qualification

Work on this product may only be carried out by suitably qualified specialist tradespeople.

Due to their professional training and experience as well as knowledge of the relevant legal regulations, qualified specialist tradespeople are able to carry out work on the described product in a professional manner.

Operator
The operator must be instructed in the operation by specialist tradespeople.

2.3.3 Availability of the operating instructions

Every person who works with this product must have read and apply this manual and all applicable instructions.

The instructions must be available at the place of use of the product.

- ! Pass on these instructions and all applicable instructions to the operator.

3. Technical description

3.1 Installation scheme (examples)

3.1.1 Application 1

Optibal W6 six-way ball valve with modulating actuator

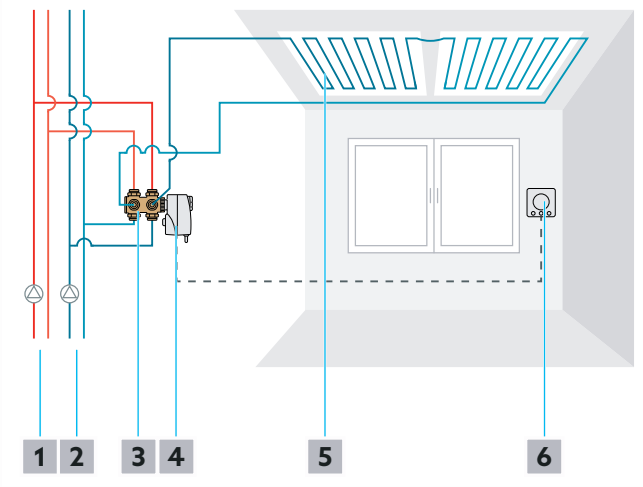

Fig. 1: Installation scheme

1 Heating cirucit
2 Cooling circuit
3 Optibal W6 six-way ball valve
4 Aktor R ST L rotary actuator
5 Heating and cooling ceiling
6 ClimaCon F 316 room thermostat

3.1.2 Application 2

Optibal W6 six-way ball valve with on/off actuator and Cocon QTZ PICV

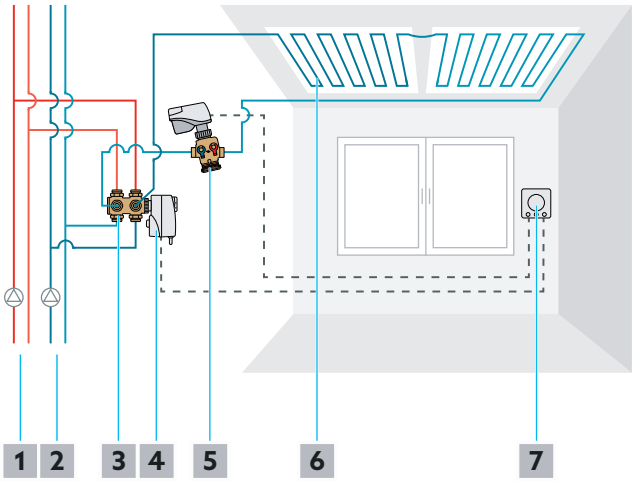

Fig. 2: Installation scheme

1 Heating cirucit
2 Cooling circuit
3 Optibal W6 six-way ball valve
4 Aktor R ST L rotary actuator
5 Cocon QTZ pressure independent control valve
6 Heating and cooling ceiling
7 ClimaCon F 316 room thermostat

3.2 Design

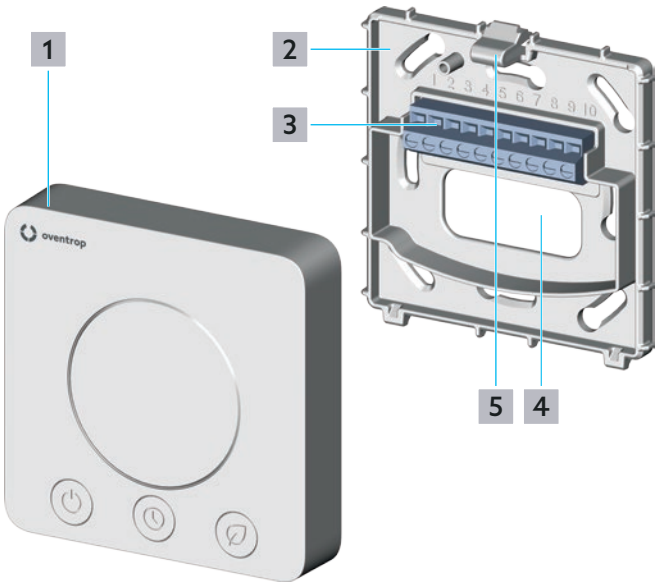

Fig. 3: Design

1 Control unit

2 Mounting plate

3 Terminal strip

4 Opening for the cable feed

5 Release clip

3.3 Functional description

The ClimaCon F 316 room thermostat controls electronic actuators via a cable connection. Areas of application are e.g. heating and cooling ceilings, radiant ceiling panels or ceiling sails.

Optibal W6 six-way ball valves and, if necessary, control valves are opened or closed via the actuators.

The setpoint temperature is set on the room thermostat or in the app connected to the room thermostat.

3.3.1 Applications

3.3.1.1 Application 1

Modulating control of the Optibal W6 six-way ball valve is carried out via a 0 – 10 V signal. The flow is limited via the Kvs orifices of the six-way ball valve.

3.3.1.2 Application 2

The Optibal W6 six-way ball valve switches between heating and cooling mode via an on/off control. The flow is controlled via the Cocon QTZ control valve, which is modulating-controlled via a 0 – 10 V signal.

3.3.2 App connection

The ClimaCon F 316 room thermostats can be programmed via smartphone app.

Three modes are available for temperature control.

3.3.2.1 **Auto mode**

In Auto mode, the temperature control follows a time profile (see section 7.1.3.2 on page 15).

3.3.2.2 **Eco mode**

In Eco mode, the temperature is constantly regulated to the "Eco temperature" (see section 7.1.3.1 on page 15).

ClimaCon F 316 devices are equipped with an **Eco output (leader)**. Whenever the Eco mode is active, a voltage is present at this output. The Eco output can be connected to the **Eco input (follower)** of a ClimaCon F 90, F 100 room thermostat. The voltage at the Eco input reduces the temperature at the follower room thermostat by 4 Kelvin compared to the temperature set at the scale (heating mode).

3.3.2.3 **Manual mode**

You always have the option to set the temperature manually (see section 8.1.3 on page 19).

3.3.3 Functions in detail

- Dot-Matrix display for visualisation of the setpoint temperature, the actual temperature, various error codes, the display "BLu" for the teach-in mode, as well as the OFF display when the device is switched off
- LED display heating or cooling
- LED display with touch surfaces for adjusting the setpoint temperature via the Plus and Minus keys and for switching between Auto and Eco mode
- Automatic switching between heating and cooling
- Control via app (Bluetooth)
- Possible modes: Auto (daily or weekly schedule), Eco/ Setback, Manual
- Frost protection (6 °C/ 43 °F) is activated when the room thermostat is switched off
- Temperature limitation and offset temperature adjustable
- Leader output for controlling the setback temperature of a follower room thermostat
- A dew point monitor and a safety temperature limiter can be connected (series connection).
  The dew point monitor interrupts the circuit of the safety sensors if dew has formed due to the flow temperature of the cooling circuit being too low.
  The safety temperature limiter interrupts the circuit of the safety sensors if the flow temperature of the heating circuits exceeds the set limit value.

3.4 Operating elements and displays

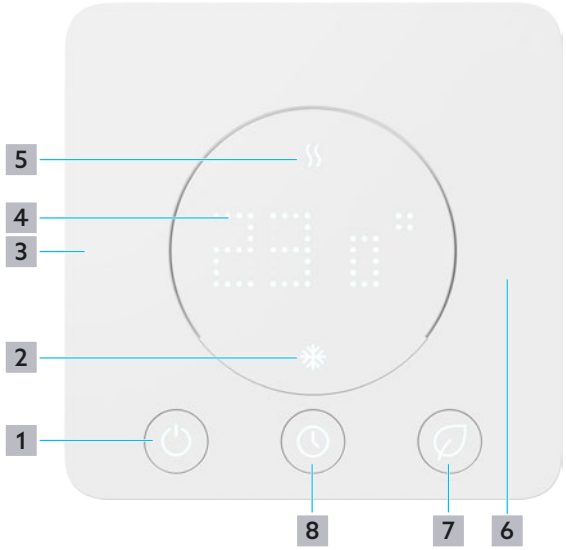

Fig. 4: Operating elements F 316

1. "ON/OFF" key
2. Display cooling
3. "-" sign, decrease of the desired temperature
4. Temperature display
5. Display heating
6. "+" sign, increase of the desired temperature
7. "Eco mode" key
8. "Auto mode" key

3.5 Technical data

Parameter	Value
Mode of operation	Type 1.Y
Contamination degree	2
Software class	A
Rated surge voltage	2500 V
Temperature for the ball pressure test	75 °C
Temperature adjustment range	12 °C to 28 °C, frost protection
Protection category	IP20
Switching current (short-time)	1 A
Switching capacity	Max. 5.5 W
Input	• Safety sensors
Outputs	• Eco output (leader, max. 10mA for up to 10 ClimaCon F 90, F 100) • On/off • Potential-free contact (max 24V, 90mA DC/AC) • 0-10V output (max. 10mA)
Accuracy at +25 °C	+/- 1 K
Required actuators	• **Application 1:** Rotary actuator for six-way ball valve • **Application 2**: Rotary actuator for six-way ball valve plus actuator for the control valve (e.g. Cocon QTZ)
Fuse	SMD (not exchangeable)
Colour	White
Operating voltage	24 V AC +/- 15 %
Protection class	III
Bluetooth	BLE 5.0
App	For smartphones in portrait format (Android:7.x; iOS:13.x)
App languages	DE/EN/FR/PL/BG/ES/HR/NL/UA/RU/CN/RO/HU/DK/IT
Dimensions (WxHxD) mm	88x88x20

4. Accessories and spare parts

You will find the current accessories and spare part list on our website.

▶ Call up the search on the website **www.oventrop.com** by clicking on the magnifying glass symbol and search for 1155536.

▶ Select your product.

▷ Here you can find all information on your product.

5. Transport and storage

Parameter	Value
Temperature range	0 °C to +50 °C
Relative air humidity	Max. 95%, non-condensing
Particles	Store in a dry and dust-protected place
Mechanical influences	Protected from mechanical shock
Weather influences	Do not store outdoors
	Protect from sunlight
Chemical influences	Do not store together with aggressive media

6. Mounting

WARNING

Danger to life due to electric current !
There is a danger to life if live components are touched.

! Check that not voltage is present.

! Secure the product against being switched on again.

NOTICE

Damage to the ClimaCon due to unsuitable power supply!

! Use a SELV voltage source galvanically isolated from the earth potential.

6.1 Tools required

- Pen for marking the drill holes
- Percussion drill with masonry drill bit
- Slotted screwdriver or current tester

6.2 Loosening of the mounting plate

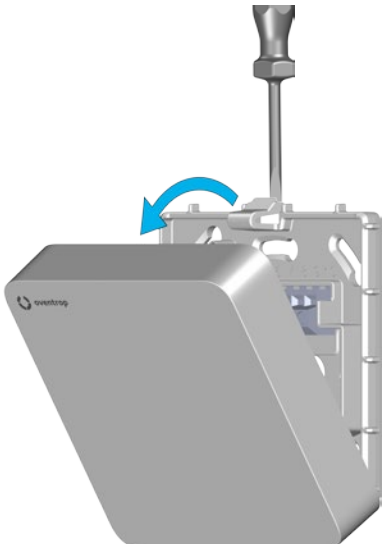

Fig. 5: Loosening of the mounting plate

1 Press the release clip (Position 5 in Fig. 3 on page 8) down slightly and detach the control unit from the mounting plate.

2 Put the control unit to one side.

6.3 Mounting of the mounting plate

The ClimaCon F room thermostat is designed for surface-mounted installation.

Operate the room thermostat at a location in the room where the room air is well distributed. Mount the room thermostat on an interior wall or on a pillar, at a height of 140 cm to 170 cm. Make sure that the room thermostat is not thermally influenced by extraneous heat (e.g. solar radiation or nearby heating devices).

The supply line is fed into the device through the opening for the cable feed (position 4 in Fig. 3 on page 8). The supply line must therefore already protrude from the wall at the designated location. The cross-section of the cores must be 0.5 – 2.5 mm^2 for flexible lines and 1 – 2.5 mm^2 for fixed wiring. The line type used must have a rated voltage of at least 300 V (e.g. NYM cable).

Alternatively, the mounting plate can also be mounted on a standard flush-mounted box.

For mounting and installing the actuators you use, observe the respective operating instructions.

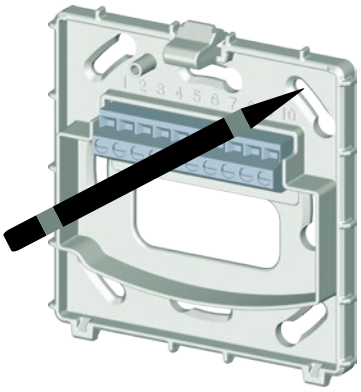

Fig. 6: Mounting of the mounting plate

1 Hold the mounting plate flat against the wall and align it perpendicularly.

2 Mark the drill holes with a pen.

WARNING

Danger to life due to electric current !
Damage to live lines can cause electric shocks or fires.

! Be careful not to drill into electrical lines.

3 Drill at least two holes (opposite each other) and insert dowels.

4 Screw on the mounting plate.

Only use device screws for switch boxes (countersunk screws).

If you use screws with thicker screw heads, you will not be able to mount the control unit.

6.4 Electrical connection of the room thermostat

6.4.1 Terminal assignment

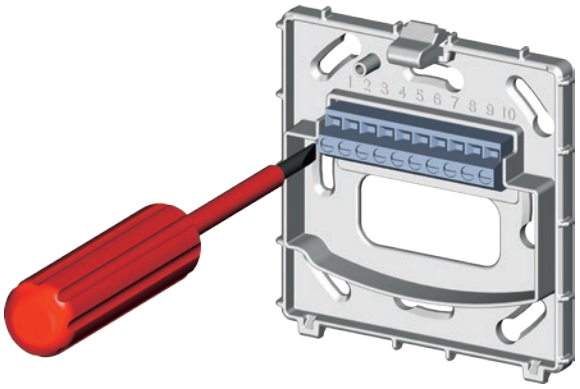

Fig. 7: ClimaCon F - Electrical connection

Terminal	Assignment
1	IN (L1 24 V AC) operating voltage
2	IN (L2 24 V AC) operating voltage
3	OUT (L1 24 V AC) on/off
4	OUT (L1 24 V AC) Eco output
5	Input, not assigned
6	IN (A) ext. safety sensors
7	IN (B) ext. safety sensors
8	OUT (Signal) 0-10 V (max. 10 mA)
9	OUT (NO) potential-free contact (max 24 V, 90 mA DC/AC)
10	OUT (COM) potential-free contact (max 24 V, 90 mA DC/AC)

6.4.2 Applications

6.4.2.1 Application 1

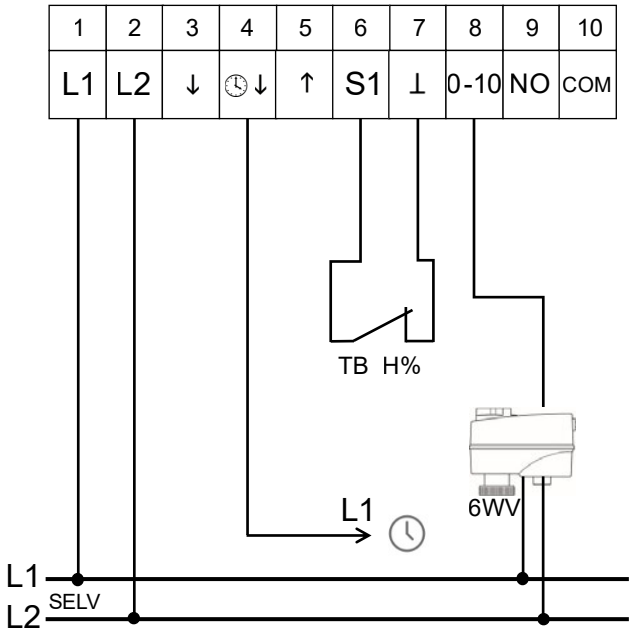

Fig. 8: Application 1 (Optibal W6 six-way ball valve with modulating actuator)

6.4.2.2 Application 2

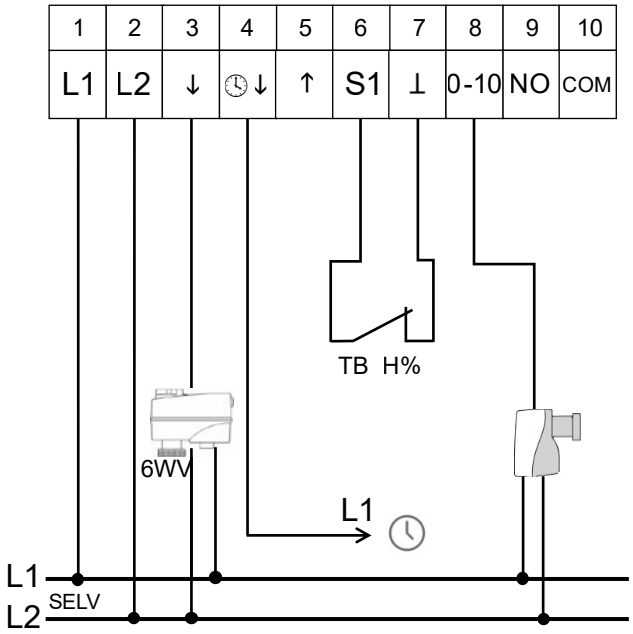

Fig. 9: Application 2 (Optibal W6 six-way ball valve with on/off actuator plus Cocon QTZ)

6.4.3 Connection of the room thermostat

NOTICE

Damage to the ClimaCon due to several outer conductors (phases) in the installation!

! Use the same outer conductor (phase) for the terminals 1 (operating voltage) and 4 (Eco input or Eco output).
If this is not possible on site, ensure the separation of the phases by means of a coupling relay.

WARNING

Danger to life due to excessive voltages at the terminals for potential-free contacts!

! Only apply extra-low voltages (SELV) to terminals 9 and 10.

▶ Connect the cores to the terminal strip according to the terminal assignment (stripping length 6 mm).

6.4.4 Fitting of the control unit

NOTICE

Damage to the device due to incorrect operating voltage!
Mounting plates and operating elements of the different product variants are not compatible with each other.

! Only combine components of the same product variant with each other.

▶ Connect the control unit to the mounting plate by first placing the control unit on the lower edge of the mounting plate and then pressing it on with a slight twisting motion.

▷ The room thermostat is completely mounted when the release clip is audibly engaged.

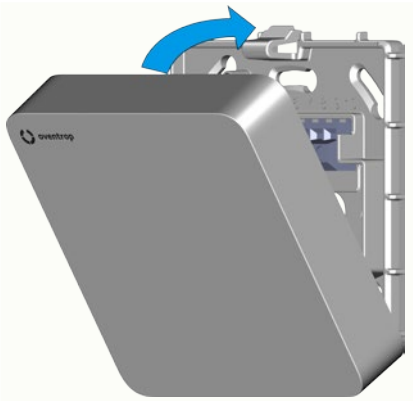

Fig. 10: Fitting of the control unit

6.5 App installation

The ClimaCon F app is available for both Android and iOS.

Note the minimum requirements regarding the version of the operating system and the Bluetooth version (see section 3.5 on page 9).

1 Go to the Appstore for your operating system.

GET IT ON Google Play

Download on the App Store

2 Search for the Oventrop App "ClimaCon" and install it.

7. Commissioning

7.1 Establishment of the power supply

▶ Establish the power supply.

▷ The room thermostat is now ready for operation.

▷ The display shows the currently measured temperature. After approx. 5 seconds, the display switches off.

7.1.1 ClimaCon F 316 - Teach-in

A ClimaCon F room thermostat corresponds to a room in the ClimaCon app.

1 Switch on the room thermostat (position 1 in Fig. 4 on page 9).

2 Press the "Eco mode" and "Auto mode" keys simultaneously for approx. 3 seconds (positions 7 and 8 in Fig. 4 on page 9).

Fig. 11: ClimaCon F - Activation of the teach-in mode

▷ The "Eco mode" and "Auto mode" key flash alternately. The display shows "BLu".
The teach-in mode is active.

The teach-in mode remains active for approx. 1 minute. Without teach-in mode, the device switches off and retains the previous settings.

3 Start the ClimaCon F app on your smartphone.

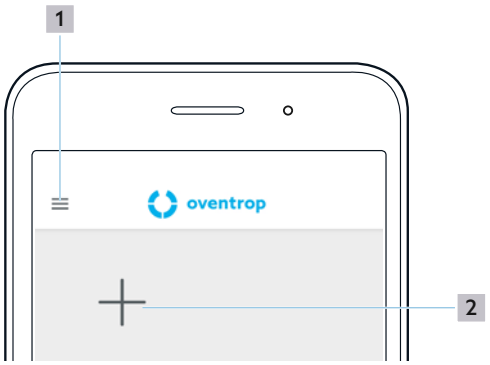

Fig. 12: ClimaCon F app - Start screen

1 General information

2 "+" sign (teach-in of the room thermostat)

4 Tap the "+" sign to teach in a (further) room thermostat.

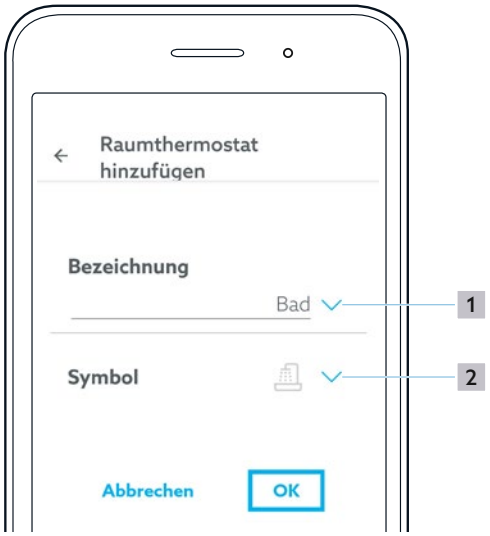

Fig. 13: ClimaCon F app - Start screen

1 Room

2 Symbol

5 Name the room in which the room thermostat is operated.

By tapping the arrow (position 1 in Fig. 13 on page 14), you have the possibility to make the appropriate selection from a given list.

Alternatively, you can enter a desired text manually.

6 Select a suitable symbol from the list (position 2 in Fig. 13 on page 14).

7 Confirm the entry with "OK".

▷ The overview page for this room thermostat appears.

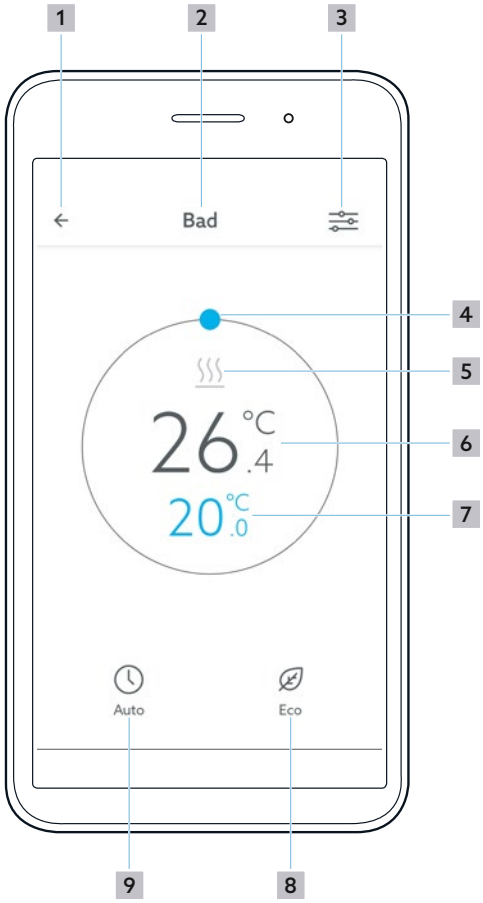

Fig. 14: ClimaCon F app - Room thermostat overview

1 Back to the room thermostat selection

2 Room

3 Call-up of the Settings menu

4 Manual temperature selection

5 Heating or cooling display

6 Measured temperature

7 Setpoint temperature

8 "Eco mode"

9 "Auto mode"

If the "heating" or the "cooling" symbol lights up blue, "heating" or "cooling" is active. When the room has reached the setpoint temperature, the symbol turns grey.

7.1.2 Removal of a room thermostat

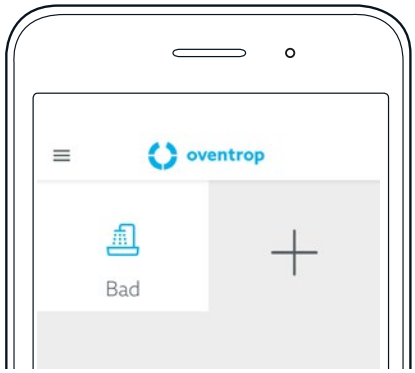

Fig. 15: ClimaCon F app - Removal of a room thermostat

▶ Tap and hold the room thermostat that you want to remove.

▷ A selection menu opens in which you can remove the room thermostat.

7.1.3 Setting of the heating profile

You can regulate the room temperature in three ways.

- **Auto mode**
  In Auto mode, the temperature control follows a time profile.
- **Eco mode**
  In Eco mode, the temperature is constantly regulated to the "Eco temperature".
- **Manual mode**
  In addition, you always have the option to set the temperature manually.

7.1.3.1 Setting of the "Eco temperature"

1 Tap the key "Call-up of the Settings menu" on the overview screen of the room thermostat for which you want to make the settings (position 3 in Fig. 14 on page 14).

▷ The "Time profile" submenu opens in the "Settings" menu for the selected room thermostat.

Fig. 16: ClimaCon F app - Setting of the "Eco temperature"

2 Set the "Eco temperature" separately for heating and cooling mode.

7.1.3.2 Setting of a time profile

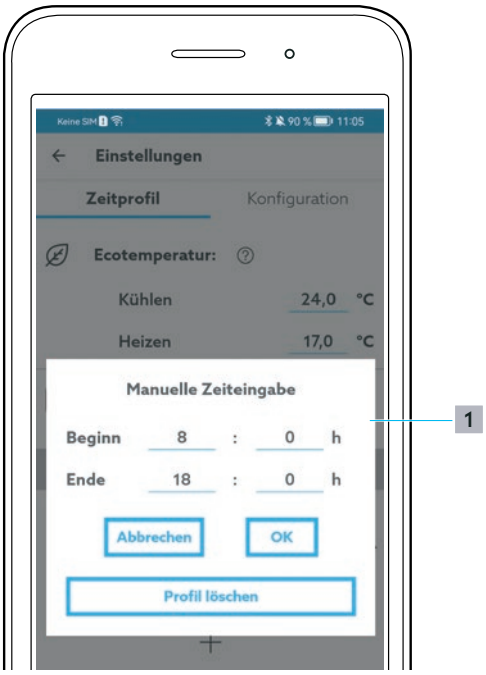

Fig. 17: ClimaCon F app - Setting of the weekly profile

1 Selection of the weekly profile

1 Select the weekly profile.

You can choose from three weekly profiles.

- "Mo - Su": With this weekly profile, you configure identical temperature curves for each day of the week.
- "Mo - Fr, Sa, Su": With this weekly profile, you configure uniform values for the working days and individual different values for Saturday and Sunday.
- "Mo, Tu, We, Thu, Fr, Sa, Su": With this weekly profile, you configure individual values for each day of the week.

2 Tap the "+" sign below the day of the week.

▷ A time profile with default values is created for this entry.

Up to three time periods per day can be configured.

You can set the desired start and end of the respective time period as well as the setpoint temperature by moving the blue dots to the corresponding values.

Time periods in the daily routine that you do not configure here are interpreted by the system as times during which the "Eco temperature" should apply.

3 Set the desired time periods and the desired temperatures.

Numerical time entry

Alternatively, you can enter the times numerically. You can call up the input menu by tapping on the pen symbol (position 1 in Fig. 18 on page 16). Here you can also delete the respective time profile (Fig. 19 on page 16).

Fig. 18: ClimaCon F app - Time profile

1 Manual time entry

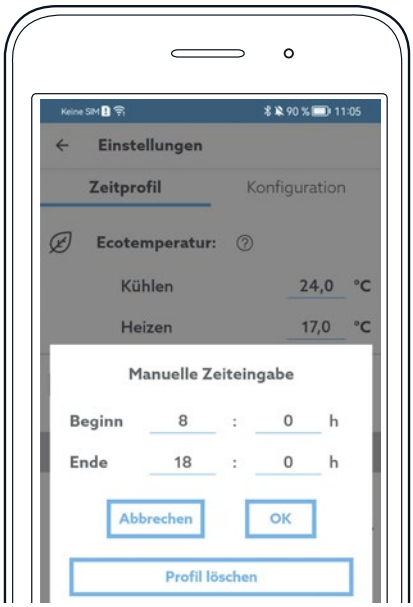

Fig. 19: ClimaCon F app - Manual time entry

7.1.4 Configuration

▶ Tap "Configuration" in the "Settings" menu.

7.1.4.1 Temperature limitation

The maximum adjustable temperature range is between 12 °C and 28 °C.

The adjustable temperature range can be limited here.

Example:

If the room temperature is to be at least 18 °C and at most 25 °C, set the values here accordingly. With this basic setting, the room temperature can then only be controlled in the range between 18 °C and 25 °C in the app and on the room thermostat.

7.1.4.2 Operating mode

The currently set operating mode "Heating" or "Cooling" is displayed here.

The corresponding setting can be changed in the "Extended settings" menu (Fig. 21 on page 17).

7.1.4.3 Correction offset

In unfavourable installation conditions, the temperature measured on the room thermostat can deviate greatly from the actual room temperature.

In these cases, you can define a correction offset to compensate for the deviation.

1 Determine the temperature deviation.

2 Set the correction offset accordingly.

7.1.4.4 Designation

Here you can change the name of the currently selected room thermostat.

7.1.4.5 Symbol

Here you can change the symbol for the currently selected room thermostat.

7.1.4.6 Automatic summer time

▶ Select whether the app should automatically switch between standard time and summer time.

7.1.4.7 Removal of a room thermostat

Here you can remove the currently selected room thermostat.

▷ After the room thermostat has been removed, the app switches to the start screen (Fig. 12 on page 14).

7.1.4.8 Firmware room thermostat

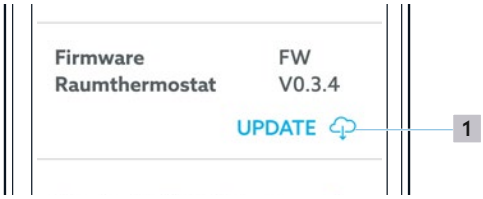

Fig. 20: ClimaCon F app - Firmware update

1 Call-up of the firmware update

7.1.4.9 Extended settings

Fig. 21: ClimaCon F app - Call-up of the extended settings

1 Call-up of the extended settings

Fig. 22: ClimaCon F App - Entering the installer code

▶ To call up the extended settings, enter the installer code 2962 and confirm the entry with "OK".

7.1.5 Extended settings

NOTICE

Malfunctions due to improper configuration!
Improperly configured extended settings can cause unexpected room temperatures and damage parts of the system.

! Extended settings may only be carried out by specialist tradespeople who are sufficiently qualified.

7.1.5.1 Unit

Here you can choose between the units °Celsius and °Fahrenheit.

This setting affects all temperature settings in the app and at the room thermostat.

7.1.5.2 Operating mode

Here you can switch between the operating modes Heating / Cooling / Heating and Cooling .

7.1.5.3 Applications

- Application 1:
  Optibal W6 six-way ball valve with modulating actuator
- Application 2:
  Optibal W6 six-way ball valve with on/off actuator plus control valve with modulating actuator, e.g. Cocon QTZ

7.1.5.4 Limit voltage 0-10V (only application 1)

In application 1, the rotary actuator is controlled with a continuous voltage of 0 to 10 Volt.

The values set here at the factory are matched to the Optibal W6 six-way ball valve. If you use a different six-way ball valve, you must adjust the values accordingly.

- Cooling
  Modulating control of the six-way ball valve in cooling mode
- Dead zone
  In this zone, the six-way ball valve is in the middle position (neither cooling nor heating)
- Heating
  Modulating control of the six-way ball valve in heating mode

7.1.5.5 Configuration 0-10 V (only application 2)

Depending on the actuator used, e.g. for Cocon QTZ valve, the appropriate voltage values can be entered here.

7.1.5.6 Hysteresis

By setting a hysteresis, you define the value by which the measured temperature may deviate from the setpoint temperature before the actuator is opened for heating or cooling.

The optimum value depends on the design of the system.

7.1.5.7 Safety sensors

If this function is activated, you can use sensors for temperature (safety temperature limiter) or dew point (dew point monitor) on terminals 6 and 7. If the electrical connection between terminals 6 and 7 is interrupted by triggering a sensor, the room thermostat interrupts heating or cooling mode.

7.1.5.8 Output signal 0 - 10 V

The reaction of the 0-10 V output is influenced by the P and I components.

P component

Setting of the height of the proportional band of the PI controller.

The value for the P component must always be higher than the value for the hysteresis.

I component

Setting of the height of the integral component of the PI controller.

7.1.5.9 Valve protection

Once a week, the actuator is fully opened and closed. This ensures that the valve cannot get stuck during a longer standstill.

The point in time within the week can be set here.

8. Operation

8.1.1 Auto mode

Auto mode is active when the "Auto mode" display lights up.

Temperature control is time-controlled according to the set values (see section 7.1.3 on page 15).

▶ To activate or deactivate the Auto mode, tap "Auto mode" on the room thermostat (position 8 in Fig. 4 on page 9) or in the app (position 9 in Fig. 14 on page 14).

8.1.2 Eco mode

- When Eco mode is activated, the room thermostat constantly maintains the set Eco temperature (see section 7.1.3.1 on page 15).
- Observe the notes on the function of the Eco output (leader) in section 3.3.2.2 on page 8.

▶ To activate or deactivate the Eco mode, tap "Eco mode" on the room thermostat (position 7 in Fig. 4 on page 9) or in the app (position 8 in Fig. 14 on page 14).

8.1.3 Manual mode

Manual mode is always active when neither Auto mode nor Eco mode are activated.

8.1.3.1 Manual mode on the room thermostat

▶ To manually select a lower room temperature, press the "-" sign on the room thermostat (position 3 in Fig. 4 on page 9).

▶ To manually select a higher room temperature, press the "+" sign on the room thermostat (position 6 in Fig. 4 on page 9).

8.1.3.2 Manual mode in the app

▶ To manually select a room temperature, move the blue dot on the overview page for the room thermostat in question to the desired value (position 4 in Fig. 14 on page 14).

8.1.4 Switching off

▶ Press and hold the "On/Off" key (position 1 in Fig. 4 on page 9) for more than three seconds.

▷ The device switches off (OFF mode). Bluetooth and control functions are switched off.
The frost protection function remains active.

9. Troubleshooting

MALFUNCTION	CAUSE	REMEDY
The app does not find the room thermostat during teach-in.	Other devices equipped with Bluetooth interfere with the connection between the room thermostat and smartphone.	▶ During the teach-in process, temporarily switch off all Bluetooth-equipped devices that are not needed.
The display shows the message "F" pulsating every 10 seconds for 1 second.	The temperature measured at the internal temperature sensor has dropped below 6 °C (43 °F). The frost protection function is activated (on/off / PWM) is switched on).	▶ If the temperature measured at the internal temperature sensor rises above 6 °C (43 °F), the frost protection function is automatically deactivated.
The message "F1" appears in the display.	The device has measured implausible temperature values or the temperature measurement has failed.	▶ Contact the technical service.
• The message "F2" appears in the display. • The room thermostat has interrupted the function (heating or cooling).	• Dew point monitor: The dew point monitor interrupts the circuit of the safety sensors if dew has formed due to the flow temperature of the cooling circuit being too low. • Safety temperature limiter: The safety temperature limiter interrupts the circuit of the safety sensors if the flow temperature of the heating circuit exceeds the set limit value.	▶ Check the temperatures of the heating circuit and the cooling circuit. ▶ Correct flow temperatures that are too high or too low.
The message "F3" appears in the display.	Auto mode cannot be activated because no correct time and date information is stored in the ClimaCon.	▶ Connect your ClimaCon to your smartphone via Bluetooth. Valid time and date information is transferred from the smartphone to the ClimaCon.

10. Maintenance

WARNING

Danger to life due to electric current !
Penetrating liquids can cause electric shocks and fires.

! If necessary, clean the surfaces with a soft cloth.

11. Disposal

Directive 2012/19/UE WEEE:

- The "crossed-out wheeled bin" symbolises that your are legally obliged to dispose of old appliances separately from unsorted municipal waste. Incorrect disposal can lead to environmental damage.
- Remove used batteries and accumulators not enclosed in the old appliance as well as lamps from the old appliance without destroying them and dispose of them separately.
- You can hand in your old appliance free of charge within the framework of the possibilities provided by the public waste disposal authorities.
- Distributors with a sales area for electrical and electronic equipment of at least 400 square meters are obliged to take back your old appliance free of charge when you buy a similar new appliance (1:1 take-back). You can also return all old appliances to distributors free of charge if the external dimensions do not exceed 25 centimetres and the return is limited to three old appliances per type of appliance.
- Delete your personal data stored on the old device to be disposed of, if any, on your own responsibility.

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