

EB-Therm 500



EB-Therm 500 is a completely new WiFi-ready thermostat. The thermostat is part of [Cable Kit 500](#) and provides you, as a fitter, with a unique opportunity to offer flexible solutions to your customers. Our new [WiFi concept](#) gives you the freedom to choose. One thermostat – many possibilities. With and without wifi. Our name for it is [WiFi READY](#).

WiFi-ready thermostat

Our [WiFi READY](#) concept allows you as a fitter, to offer your customer a complete and extremely flexible underfloor heating solution with freedom of choice in focus. The concept is simple: the EB-Therm 500 underfloor heating thermostat is a very common thermostat, ready for WiFi. Together with the [EB-Connect WiFi](#) accessory, the underfloor heating system can easily be controlled with the Ebeco Connect app. As EB-Therm 500 has an open API, it is also possible to allow the installation to be part of your smart home. The thermostat is included in the new [Cable Kit 500](#).

Download the app for free here:



Simplifies for the fitter

EB-Therm 500 is developed with the fitter's well-being in focus. The thermostat is therefore easy to handle and install. The shallow installation depth means the cable easily fits in the box. There is also a clear and easy-to-understand start-up guide to make it easy. Everything to make it easier for the fitter. The thermostat has room and floor sensors plus a built-in countdown timer feature that shows when the underfloor heating can be started after securing with filler.

More benefits of EB-Therm 500

Our new thermostat has a whole range of advantages to help the fitter in their choice of thermostat:

- reinforced insulation (according to EN 60730) and thereby more durable for voltage peaks
- supports eight different sensor types, making the thermostat the ultimate solution for home improvements
- fit the most common frame systems on the market.

Clear and easy to navigate

The thermostat is easy to navigate and has self-instructional menus with clear icons, making EB-Therm 500 the obvious choice for both fitters and users. The colour display is clear and the capacitive touch zones are outside the display area in order to make the thermostat's various functions even more transparent and user friendly.

Save energy with EB-Therm 500

Energy saving programs in EB-Therm 500 are adjustable and times and temperatures can both be set individually. In this way, the thermostat will be versatile and adaptable to many different environments and conditions. EB-Therm 500 helps you save energy so you can get warm, comfortable floors where needed and when needed..

EB-Therm 500 has a weekly calendar which allows you to set up schedules for how your underfloor heating should be turned on or off. EB-Therm 500 also makes it easy to keep track of energy consumption. The thermostat clearly displays energy consumption per year, month or day.

TECHNICAL INFORMATION:

The pack includes: front and frame suitable for Schneider Exxact, front for ELKO Plus/RS and floor sensor 3 m.

| | |
|---------------------------------|--|
| Connection voltage | 230 VAC $\pm 10\%$ ~50–60 Hz |
| Air temperature range | +5 °C till +35 °C |
| Floor temperature range | +5 °C till +35 °C |
| Temperature limiter | +5 °C till +35 °C |
| Circuit-breaking capacity | 3680 W / 16 A / 230 VAC |
| Connection cable | max 2.5 mm ² |
| Load | Cos φ = 1 |
| Connection difference | ± 0.3 °C |
| Back-up* | 36 h |
| Sensor cable | 3 m, NTC 10 k Ω |
| Max extension sensor cable | 50 m, 2 x 1,5 mm ² |
| Display dimensions | 36 x 29 mm |
| Thermostat dimensions | 87 x 87 x 39 mm |
| Suitable for frame systems | Schneider Exxact, ELKO Plus/RS |
| Also suitable for frame systems | Eljo Trend, ABB Jussi, ABB Impressivo, Berker (S.1, B.3, B.7). See accessories |
| Colour | White |
| Enclosure class | IP21 |
| Approval | CE |

* The time the programming remains in the thermostat in the event of power failure.

Sensors

Can be calibrated if needed.

Sensor

NTC 2 k Ω

NTC 10 k Ω (preset)

NTC 12 k Ω

NTC 15 k Ω

NTC 22 k Ω

NTC 33 k Ω

NTC 47 k Ω

NTC 100 k Ω

ARTICLETABLE:

| Item number | Name | Dimensions |
|-------------|--------------|-----------------|
| 8581603 | EB-Therm 500 | 87 x 87 x 39 mm |

GARANTI:



Ebeco AB provides a 5-year product warranty covering material faults for our control units.
[All terms and conditions is found here.](#)

ACCESSORY:

EB-Connect WiFi

EB-Connect WiFi is the accessory that turns the EB-Therm 500 into a WiFi thermostat. Enables control of underfloor heating via the Ebeco Connect app or open API.



| Item number | Name |
|-------------|-----------------|
| 8581604 | EB-Connect WiFi |

Front Cover for EB-Therm 500

The EB-Therm 500 has interchangeable cover fronts as an accessory. Fits the Schneider Exxact (anthracite, metallic), ELKO Plus/RS (alu, black) and ABB Impressivo frame systems. Frame is not included.



| Item number | Name | Dimensions |
|-------------|--|-------------|
| 8581901 | Front Cover EB-Therm 500 Black for Elko Plus/RS | 55x55x16 mm |
| 8581902 | Front Cover EB-Therm 500 Alu for Elko Plus/RS | 55x55x16 mm |
| 8581905 | Front Cover EB-Therm 500 Metallic for Schneider Exxact | 55x55x18 mm |
| 8581906 | Front Cover EB-Therm 500 Antracit for Schneider Exxact | 55x55x18 mm |
| 8581909 | Front Cover EB-Therm 500 Vit for ABB Impressivo (with adapter) | 64x64x18 mm |

Heightening frame

Ebeco's EB-Therm thermostats are designed for recessed or surface fitting. A heightening frame is used for surface fitting. The heightening frame is suitable for all EB-Therm models.



| Item number | name | Dimensions | Colour |
|-------------|-------------------------|-------------|------------------|
| 8581686 | Heightening frame Ebeco | 87x87x29 mm | White (RAL 9003) |

Backplate

If the existing frame does not cover the hole, the thermostat is fitted in a back plate; Backplate. Backplate is suited to the Eljo Trend frame system.



| Item number | Name | Dimension | Colour |
|-------------|-----------------------|--------------|------------------|
| 8581697 | Backplate ELJO trend | 86x86x6 mm | White (RAL 9010) |
| 8581687 | Backplate Ebeco frame | 88x88x4.4 mm | White (RAL 9003) |

Sensor cable

Sensor cable for thermostat. Included in thermostat pack.

| Item number | Name | Length |
|-------------|--------------|--------|
| 8581671 | Sensor cable | 3.0 m |
| 8581684 | Sensor cable | 6.0 m |



Spiral tube

Spiral tube for thermostat sensor cable. End connection ensures that fixing and sealing compounds cannot enter. Ebeco Adapter (E 89 605 51), which makes it easier to handle the transition between box and spiral tube when installing a thermostat, is not included.



| Item number | Name | Length | DI | DY |
|-------------|-----------------------------------|--------|-------|--------|
| 8960541 | Spiral tube for thermostat sensor | 2.5 m | 7.5mm | 10.0mm |