

Uponor Ecoflex heating blanket

EN Operation manual

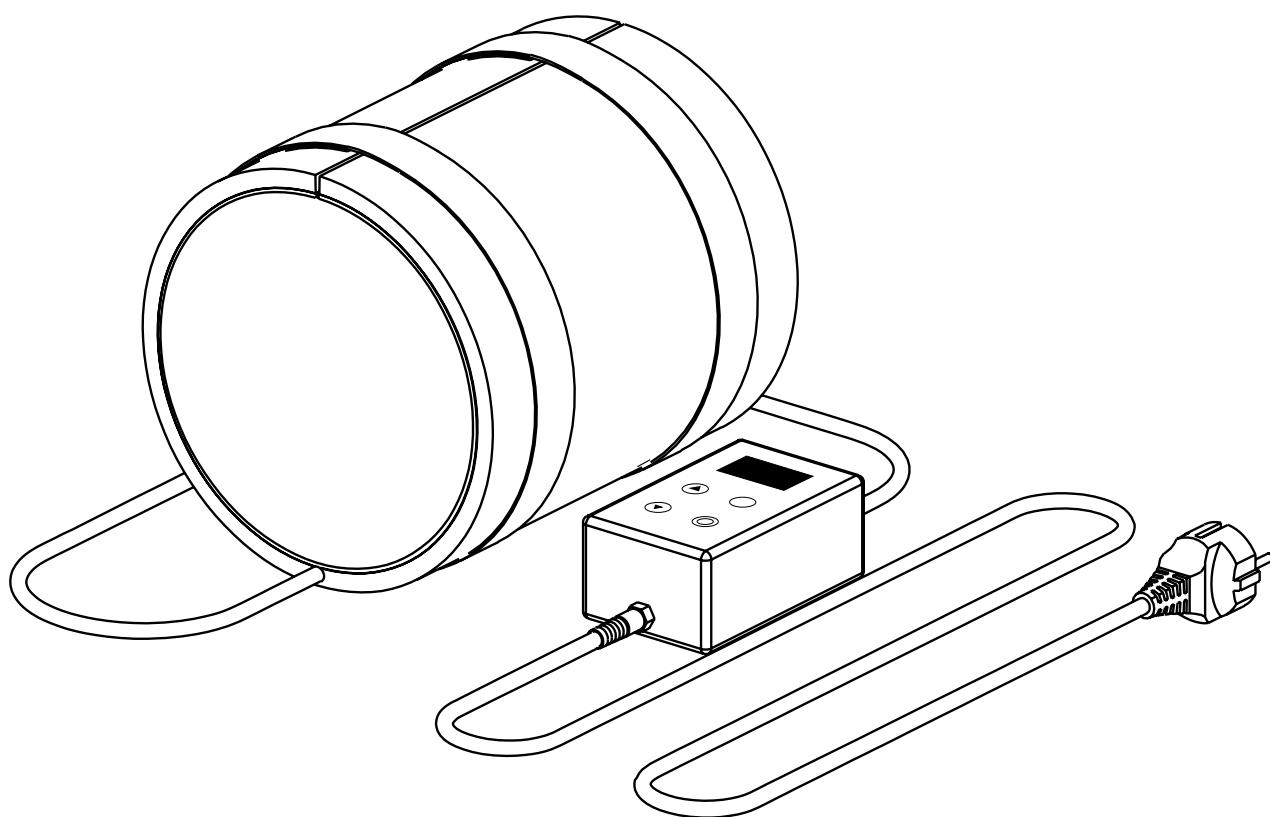





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1 Safety instructions and disclaimer


1.1 Safety instructions

Safety messages used in this document

	Warning! Risk of injury and damage. Ignoring warnings can cause personal injury and/or damage to products and other property.
	Caution! Risk of malfunctions. Ignoring cautions can cause the product to not operate as intended.
	Note Important information to the section in the manual.

Uponor uses safety messages in the document to indicate special precautions required for the installation and operation of any Uponor product.

Safety measures


	Note For safe and proper use, obey the instructions given in this document. Keep them for future reference.
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The installer and operator agree to comply with following measures regarding Uponor products:


- Read and obey the instructions and processes in the document.
- The installation must be performed by a qualified installer in accordance with local regulations.
- Uponor is not liable for modifications not specified in this document.
- Switch off all connected power supplies before starting any wiring work.
- Do not expose the Uponor components to flammable vapours or gases.
- Do not use water to clean electrical Uponor products/ components.

Uponor is not liable for damage caused by ignoring the instructions in this document or the applicable building code.

Power

	Warning! Uponor system power supply: 230 V AC, 50 Hz In case of emergency, immediately disconnect the power.
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Technical constraints

	Caution! To avoid interference, keep data cables away from components bearing power of more than 50 V.
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1.2 Correct disposal of this product (Waste Electrical and Electronic Equipment)

	Note Applicable in the European Union and other European countries with waste separation systems.
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This icon on the product, or in the related documents indicates that it should not be disposed with household waste. Please, recycle responsibly to support the sustainable use of resources and prevent possible harm to human health and/or the environment.

Household users should contact the retailer where they purchased this product, or their local government office, for details on where and how they can take it for recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. Do not dispose this product with other commercial waste.

1.3 Copyright and disclaimer

This is a generic, European-wide document version. The document may show products that are not available in your location for technical, legal, commercial, or other reasons.

For any questions or queries, please visit the local Uponor website or speak to your Uponor representative.

“Uponor” is a registered trademark of Uponor Corporation.

Uponor has prepared this document solely for information purposes, images are only representations of the products. The content (text and images) of the document is protected by worldwide copyright laws and treaty provisions. You agree to comply with these when using the document. Modification or use of any of the content for any other purpose is a violation of Uponor’s copyright, trademark, and other proprietary rights.

This disclaimer applies to, but is not limited to, the accuracy, reliability, or correctness of the document.

The presumption for the document is that the product related safety instructions are fully obeyed. The following requirements apply to the Uponor product (including any components) as covered by the document.

- The system (combination of products) is selected and designed by a competent planner. It is installed and put into operation by a licensed and/or competent installer in compliance with the instructions provided by Uponor. Locally applicable building and plumbing codes/regulations have been obeyed.
- Temperatures, pressure and/or voltage limits according to product and design information have not been exceeded.
- The product remains in its originally installed location and is not repaired, replaced, or interfered with, without prior written consent of Uponor.
- The product is connected to potable water supplies or compatible plumbing, heating and/or cooling systems approved or specified by Uponor.

- The product is not connected to or used with third-party products, parts, or components except for those approved or specified by Uponor.
- The product does not show evidence of tampering, mishandling, insufficient maintenance, improper storage, neglect, or accidental damage before installation and being put into operation.

While Uponor has made all effort to ensure that the document is accurate, the company does not guarantee or warrant the accuracy of the information. Uponor reserves the right to change the product portfolio and the related documentation without prior notification, in line with its policy of continuous improvement and development.

Always make sure that the system or product complies with current local standards and regulations. Uponor cannot guarantee the full compliance of the product portfolio and related documents with all local regulations, standards, or working methods.

Uponor disclaims all warranties related to the content of this document, expressed or implied, to the fullest extent permissible unless otherwise agreed or statutory.

Uponor is under no circumstances liable for any indirect, special, incidental, or consequential damage/loss that results from the use or inability to use the product portfolio and related documents.

This disclaimer and any provisions in the document do not limit any statutory rights of consumers.

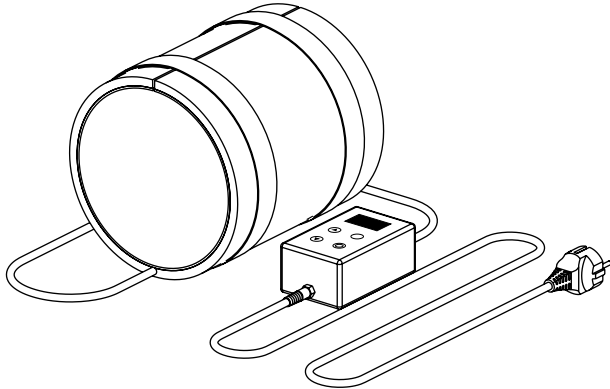
2 System description



Warning!

Always use the specified combination of heating blanket and pipe dimension.

Never use a heating blanket (i.e. 160 mm) for a smaller pipe dimension (i.e. $d=125$ mm). It will overheat the pipe and damage the pipe surface.



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The Uponor Ecoflex heating blanket can heat up the Uponor Ecoflex pipe ends to soften them for the fitting installation.

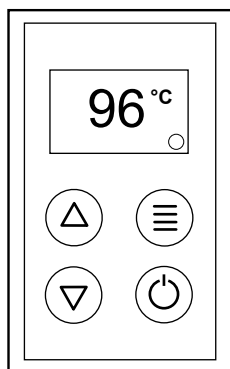
The Uponor Ecoflex heating blanket set contains:

- a controller with a large LCD display
- a flexible heating blanket, available for the pipe dimensions 125 mm, 140 mm or 160 mm

Uponor supplies one set per dimension. The heating blankets are hard-wired to the controller.

2.1 Components

Controller

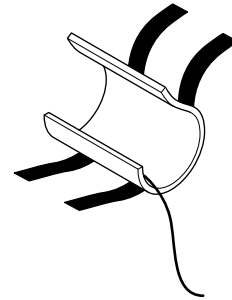


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Main characteristics:

- Large, illuminated LCD display
- Membrane keypad, easy to operate
- Cycle timer with user selectable, delayed start

Heating blanket



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Main characteristics:

- Flexible and lightweight
- Fixing straps with hook-and-loop-fastener
- Even heating
- Moisture and chemical resistant
- VDE approved

3 Operation

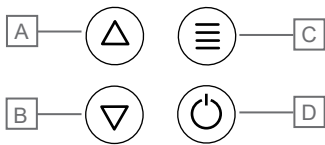
3.1 Power On/ Off

Note
The temperature controller does not have an On/ Off-switch.

Pressing the standby key will do following:

- put the controller into standby mode
- turn off the display backlight
- stop the temperature control function

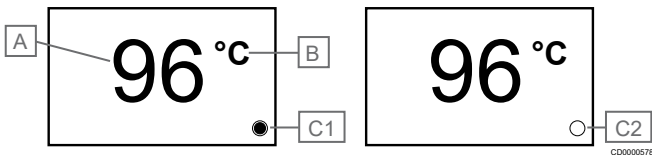
3.2 Controller settings



Item	Description
A	Up key
B	Down key
C	Menu key
D	Standby key

Adjust all controller settings with the membrane keypad on the front panel.

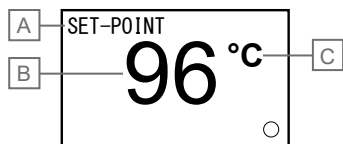
3.3 Main screen



Item	Description
A	Temperature sensor
B	Temperature display in °C
C1	Heating mode on
C2	Heating mode off

The main screen shows the actual temperature of the sensor inside the heating blanket.

3.4 Set-point temperature



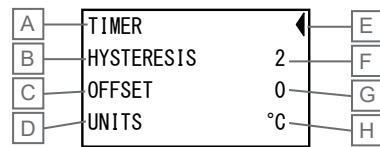
Item	Description
A	Indicator for set-point mode
B	Set-point temperature
C	Set-point temperature in °C

To adjust the set-point temperature, change to the set-point screen:

1. Press and hold the up/ down key for 2 seconds, while the display shows the main screen, until "SET-POINT" appears on it.
2. Use the up/ down key to adjust the required temperature.
3. Press and hold the up/ down key for approximately 5 seconds to return to the main screen and to see the current process temperature.

3.5 Settings menu

Note
If no key is pressed for at least 10 seconds while the controller is in one of the setting menus, the display will return to the main screen.

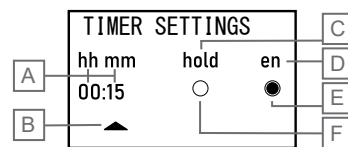


Item	Description
A	Timer settings
B	Hysteresis settings
C	Offset settings
D	Unit settings
E	Indicator for active setting
F	Hysteresis value (1 ... 9)
G	Offset value (-10 ... +10)
H	Temperature unit in °C

To move the setting indicator (little arrow) to each menu item in turn, press the menu key subsequently. If the menu key is pressed while the arrow points to the "Units" option, the controller will return to the main screen.

When the up/ down key is pressed while the settings menu is active, the item the arrow points to can be edited.

3.6 Timer settings



Item	Description
A	Timer hours (hh) and minutes (mm)
B	Indicator for active setting
C	"Timer hold"
D	"Timer en"
E	Setting enabled
F	Setting disabled

Timer hold

Note

If "hold" is selected the timer will not start until the temperature set point is reached. If "hold" is unselected the timer will begin as soon as the controller returns to run mode.

To use the "Timer hold" function obey the following steps:

1. Press the menu key to move the arrow to the "hold" box.
2. To activate or inactivate the "Timer hold" function use the up/ down keys.

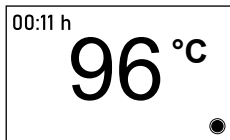
Timer enabled

Note

Always activate "Timer en" when you want to use the "Timer hold" function!

Note

If "Timer en" is selected while "Timer hold" is unselected the countdown will start even if the set point temperature is not reached yet.



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To use the "Timer en" function obey the following steps:

1. Press the menu key to move the arrow to the "en" box.
2. To activate or inactivate the "Timer en" function use the up/ down keys.

The timer period is displayed in the top left corner of the main screen while the timer is enabled. If "Timer hold" and "Timer en" are enabled at the same time the display will show a "h" next to the timer until the countdown starts.

After the timer countdown has ended the heating mode is turned off automatically and the controller is going back to standby mode.

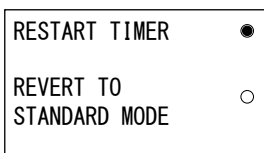
In both modes the colon between the hours and the minutes will flash to indicate that the timer is running.

Timer completed

After the countdown stops, following things will happen simultaneously:

- The temperature control function will stop.
- The display will start to flash and show "Timer Complete!".

Timer restart



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To restart the timer or to revert to standard mode, press the menu key from the "Timer Complete!" screen.

The "RESTART TIMER" option will start the heating cycle with the same settings as before.

The "REVERT TO STANDARD MODE" option will reset the settings from the cycle before and the controller will return to standard mode.

To change between both options, press the up/ down key. Enter each option by pressing the menu key.

3.7 Hysteresis

Note

Selecting a lower value for the hysteresis will give a better accuracy for the set-point temperature, but the heater will be turned on and off more often. This can reduce the life time of the relay. If accuracy is less important it is recommended to use a higher value.

TIMER	
HYSTERESIS	2 ◀
OFFSET	0
UNITS	°C

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The hysteresis is the difference (in degrees) between switch-on and switch-off temperature during the heating mode.

The heat up period will stop at the set-point temperature. It will be switched on again at the set-point temperature minus the hysteresis value. The hysteresis range is adjustable between 1 and 9. The default value is 5.

While the arrow on the display points to the Hysteresis option, use the up/ down keys to change the value.

3.8 Offset value

Note

In some situations the actual temperature of the product being heated may differ due to higher or lower heat losses.

The offset value is used to correct the difference between the temperature displayed and the actual temperature of the product being heated. This difference can occur because the sensor of the controller is attached directly to the heater.

The offset value can be adjusted between -10 and +10, but the value required can only be found by testing in the given situation.

While the arrow on the display points to the offset option, use the up/ down keys to change the value.

3.9 Unit settings

While the arrow on the display points to the units option, use the up/ down keys to change the setting between °C (Celsius) and °F (Fahrenheit).

Pressing the menu key at this point will return the controller to the main screen.

3.10 Standby

Pressing the standby key for 2 seconds will put the controller into standby mode. The display will show "STANDBY".

The temperature control function will stop and the display backlight goes dark.

Pressing the standby key while the controller is in standby mode will turn the backlight on again and the controller will return to the main screen.

3.11 Display contrast

While the controller is in standby mode the contrast of the display can be changed using the up/ down keys.

4 Technical data

4.1 Technical specifications

Controller

Description	Value
Product classification	Class 2
Power supply	90 - 230 V AC, 50 - 60 Hz supply
Supply current	100 mA
Relay current max.	100 Amps
Temperature control range	0 ... 300 °C
Temperature measurement range	-18 ... +350 °C
Temperature accuracy	±0,5 ... ±1°
IP (Ingress Protection) rate	IP 62

Heating blanket

Description	Value
Thickness	1,5 - 2,2 mm
Temperature range	-60 ... 250 °C
IP (Ingress Protection) rate	IP 64

4.2 Regulatory conformance

The Uponor Ecoflex heating blankets comply with the following directives.

- CE
- UKCA

Refer to the related Uponor product for the specified certification and compliance marks.

EU Declaration of conformity

Hereby, Uponor declares that the Uponor Ecoflex heating blankets¹⁾ are in compliance with the relevant Community harmonisation legislation.



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

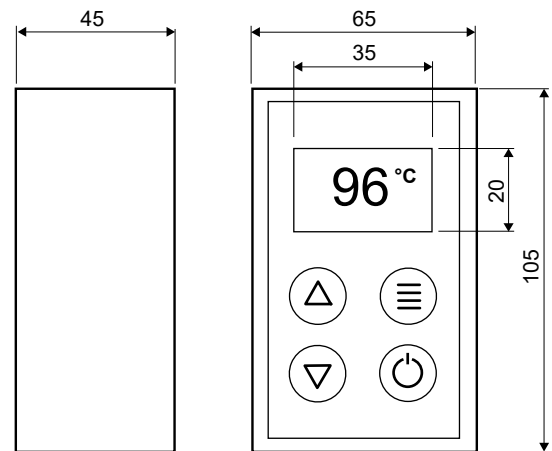
<https://www.uponor.com/doc/1135550>

1) Refer to the Regulatory conformance list of products.

Additional product information and instructions are delivered with the Uponor product. They are available at the website www.uponor.com/services/download-centre and at the national Uponor websites in local language.



4.3 Dimensions



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All measurements are given in mm.

Uponor

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1139862 v1_01_2023_EN
Production: Uponor/SDE

Uponor reserves the right to make changes, without prior notification,
to the specification of incorporated components in line with its policy of
continuous improvement and development.



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