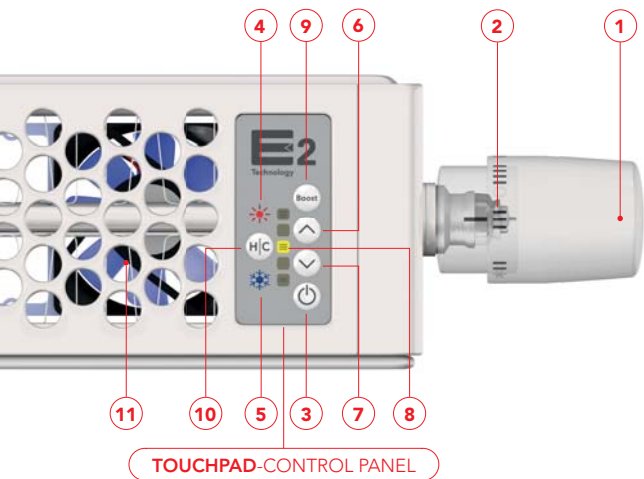


MANUAL
Low temperature radiator



reddot design award
winner 2013

Function and control elements



- | | | |
|--|-------------------------------------|--|
| 1 Thermostatic head | 5 Cooling symbol, BLUE | 9 Boost button |
| 2 Temperature scale THERMOSTATIC HEAD | 6 UP button | 10 Heating/cooling/air circulation button |
| 3 Main switch ON/OFF | 7 DOWN button | 11 Fans |
| 4 Heating symbol, RED | 8 Temperature scale TOUCHPAD | |

YOU'VE MADE A GREAT CHOICE.

The ULOW-E2 with E2 technology is a product of great quality and has been built to work perfectly with low water temperatures. In order to avoid malfunctions or damage, it is very important to read and follow these instructions carefully. If you have any questions, please consult your sales engineer or the manufacturer directly.

We hope you enjoy your new low temperature radiator.

Operating conditions



Max.
60°



Important information

- The appliance may only be installed by a qualified professional.
- The appliance may not be installed directly under a wall socket.
- In bathrooms or shower rooms, the appliance must be installed such that the switches and other operating controls cannot be touched by someone using the bath or shower.
- Any damage to the connecting pipe of the appliance may only be rectified by the manufacturer.
- Warning! To avoid overheating, the radiator must not be completely covered for safety reasons.




- Once the appliance has been installed, the plug must be accessible.
- For ULOW-E2, a fused (3A) electrical spur with a switch having 3mm separation on all poles must be provided in an easily accessible position adjacent to the unit
- The electrical installation must comply with local or national wiring regulations.
- Caution – Some parts of the radiator may become very hot and cause burns.
- Special caution must be taken if children and vulnerable persons are near the radiator.

- Keep children younger than 3 years old away from the appliance unless they are under constant supervision.
- Children between 3 and 8 years old may only switch the appliance on and off if they are supervised or have been instructed on the safe use of the appliance and understand the consequential dangers, provided that the appliance is placed or installed in its normal operating position.
- Children between 3 and 8 years old may not plug in the appliance, operate the appliance, clean the appliance and/or carry out user maintenance.

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- This appliance may be used by children from 8 years old, by persons with a limited physical, sensory or mental capacity, or by persons with a lack of experience or knowledge of the product, if they are supervised or have been instructed on the safe use of the appliance and any consequential dangers. Children may not play with the appliance. Children may not undertake any cleaning or maintenance operations unsupervised.
 - Number of fans = $\frac{\text{overall length [mm]}}{100} - 2$
 - Do not use any abrasive cleaning materials or paint thinners!

Commissioning the radiator controls

The E2 low temperature radiator control is started up by pressing the ON/OFF button .

Important when commissioning:





! When starting up the radiator for the first time, you must ensure that the radiator control is set to Heating mode with the target room temperature pre-set to 22 °C.

Varying the temperature when in Heating mode:

The desired room temperature can be set to between 18 °C and 26 °C in increments of 0.5 °C. As the thermostatic head acts as the main control when in Heating mode, the settings on the operation control touch pad are approximate values that should be increased or decreased slightly as desired depending on the installation position or operating conditions.

Boost mode:

To attain the desired room temperature in the shortest possible time, maximum radiator output can be triggered using “Boost mode” simply press the Boost button , – this lasts for 2 hours. As soon as the desired room temperature is reached, Comfort mode will automatically be activated again. Boost mode can be turned off at any time by pressing the Boost button  again.

Setting to Cooling mode:



Press the Cooling button (H/C) once and the blue frost symbol will light up.

Turn the thermostatic head (1) anti-clockwise to the highest possible setting. With some products or extremely high room temperatures, it may be necessary under some circumstances to completely detach the thermostatic head in order to fill the radiator with cooling water.

To provide maximum cooling output from the radiator, the fans (11) run at their highest level. For rooms with very low noise requirements, the speed of the fans can be reduced by pressing button (Boost) once. In this operating mode, the Temperature symbol (8) will flash.

Important information: In this operating mode, appropriate adjustments must be made in the boiler house.



In any case, however, specific measures must be taken to ensure that the coolant temperature is above the dewpoint of the ambient air in order to prevent condensation from forming on the radiator surfaces.

With this „dry cooling“, you can reduce very high room temperatures by a few degrees Celsius. However, it is not possible to provide climate control to 22 °C, for example.

Setting to pure Air Circulation mode “Summerbreeze Effect”:



Press button  again and the blue frost symbol will flash.

In this operating mode, the fans will switch on regardless of the temperature and provide a pleasant air circulation in the room on warm summer days. As a factory setting in this operating mode, the fans are programmed to operate at their highest level, but this can be adjusted using buttons  and .

LED  lowest level


LED  middle level

LED  highest level

Press button  again and the radiator will revert back to Heating mode.

Sleep mode

If the operation control touch pad is not pressed for a period of 60 seconds, it goes into Sleep mode. In this state of standby, the display light is not lit. Sleep mode can be ended at any time by pressing any button.

Outside of the various operating periods, the radiator control unit can be switched off at any time by pressing button .

Temperature setting - touchpad

18 °C 1 st LED is dimly lit	18,5 °C 1 st LED is brightly lit	19 °C 1 st and 2 nd LEDs are dimly lit	19,5 °C 1 st and 2 nd LEDs are brightly lit	20 °C 2 nd LED is dimly lit	20,5 °C 2 nd LED is brightly lit	21 °C 2 nd and 3 rd LEDs are dimly lit	21,5 °C 2 nd and 3 rd LEDs are brightly lit	22 °C 3 rd LED is dimly lit
22,5 °C 3 rd LED is brightly lit	23 °C 3 rd and 4 th LED is dimly lit	23,5 °C 3 rd and 4 th LED is brightly lit	24 °C 4 th LED is dimly lit	24,5 °C 4 th LED is brightly lit	25 °C 4 th and 5 th LED is dimly lit	25,5 °C 4 th and 5 th LED is brightly lit	26 °C 5 th LED is dimly lit	

External cleaning and maintenance

To clean the external parts of the radiator, use a mild, non-abrasive cleaning agent. To ensure that the fan unit operates efficiently, it is recommended that the fans and radiator are serviced regularly by a skilled professional.

Temperature setting - thermostatic heads

When operating the following thermostatic heads, the temperature can be set using the operation control touch pad as follow:

Thermostatic head manufacturer	Setting value		Operating control touch pad
DANFOSS RAX	II	approx. 18 °C	1 st LED
	II-III	approx. 20 °C	2 nd LED
	III	approx. 22 °C	3 rd LED
	III-III	approx. 24 °C	4 th LED
	IIII	approx. 26 °C	5 th LED
COSMO DANFOSS RA 2000 DANFOSS RAW Heimeier VK Honeywell Thera 3 Oventrop UNI LD Oventrop UNI XD Rossweiner Startec Simplex StarTec	2-3	approx. 18 °C	1 st LED
	3	approx. 20 °C	2 nd LED
	3-4	approx. 22 °C	3 rd LED
	4	approx. 24 °C	4 th LED
	4-5	approx. 26 °C	5 th LED
UK market only Myson Petite & Oventrop valve			
Herz 7230	3	approx. 18 °C	1 st LED
Herz 7260	Herz Sym.	approx. 20 °C	2 nd LED
Herz 9260	4	approx. 22 °C	3 rd LED
	5	approx. 25 °C	4 th & 5 th LED

This information may vary slightly depending on the installation position and operating conditions and must be increased or decreased as desired. The setting values for other thermostatic head manufacturers are available on request.

For alternative market contact details, please refer to your installation instructions.

