

# Instruction Manual - PH Ultraslim



## Model

- PH Ultraslim



THESE INSTRUCTIONS SHOULD BE READ CAREFULLY  
AND RETAINED FOR FUTURE REFERENCE. BE SURE  
TO OBSERVE ALL LABELS AND WARNINGS ON THE  
APPLIANCE

Id.-Nr. 900 370 411

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## 1. PRESENTATION

First of all, we would like to thank you for having bought this product; we hope that it will give you years of reliable heating. Before installing the heater, please read the following instructions carefully. The company is not responsible for any damage or problems resulting from incorrect installation. Once your heater is up and running, please store this booklet in a safe place for future reference.

## RECYCLING

When you no longer need this heater, please follow the European Directive 2002/96/CE as regards its disposal. This heater cannot be discarded as normal rubbish. It must either be taken to a special tip or to a distributor offering to dispose for you. Recycling electrical appliances separately allows component parts to be re-used and limits the damage to the environment that would otherwise occur. Recycling saves power and resources. To encourage this, the heater bears a symbol showing it cannot be put into a normal bin. For further information, get in touch with your local council, or the supplier who you purchased this product.



## VERY IMPORTANT!!

It is possible that the radiator may make slight sounds during the first days of operation. This is quite normal in dry radiators and can occur when the aluminium elements expand and contract. Please note there is no danger to the user. Children under 3 years old should be kept out of the equipment unless they are constantly supervised. Children under 8 must only turn on / off the device provided in normal position and only if they have received instruction concerning use of the equipment in a safe way and understand the risks. All children under 8 years should not plug regulating, cleaning or maintenance operations.

Caution: some parts of this product may become very hot and cause burns. Special attention when children and vulnerable people are present. The device must not be covered and air circulation must be allowed at all times.

## 2. HOW TO USE YOUR ELECTRIC RADIATOR

Understanding the full programming potential of your radiator will help to reduce energy consumption.


- DISPLAY

The radiator has an electronic programmable thermostat with LCD screen specially designed to control different types of heating options.

1. Operating mode menu (all active modes are framed).
2. Program number or parameters number.
3. Installation parameter menu.
4. Type of time display (12H am/pm or 24H)
5. Key lock function indicator.
6. Current day of the week
7. Pictogram for program creation, status in normal mode.
8. Display zone for Time, Temperatures and parameters.
9. Override function in AUTO mode or ITCS function activated if blinking.
10. Room temperature indicator.
11. Pictogram for open windows indication
12. Heating demand.



- KEYBOARD

On/Off	
Minus Key	-
Plus Key	+
Validation Key	OK
Right Navigation key	>



### 3. FIRST INSTALLATION

This section will help guide you to starting your thermostat for the first time.

- POWER SUPPLY

Connect the electric radiator with the switch installed for this function.

When the thermostat is switched on for the first time, you will be asked to make some necessary selections (Clock, etc.). The batteries inside the thermostat will need to be charged for a minimum of 24 hours in order to have maximum time saving capacity.

Now your thermostat will require adjustment of the time and date.

- TIME AND DATE ADJUSTMENT

First move the square cursor on the clock mode, then press the key (-) or (+) to start the adjustment. Each time a value blinks, you can adjust it with the (-) and (+) keys.

Once the value is chosen, confirm it with the (OK) key. The thermostat will move automatically to the next value. List order of the time and date adjustments:

1. Time and day:

- Adjustment of the hours,
- Adjustment of the minutes
- Adjustment of the day (1 = Monday)

2. Date:

- Adjustment of the day number
- Adjustment of the Month (01=January, 12=December)
- Adjustment of the Year

- STARTING

The thermostat is now ready to work. The default working mode will be comfort☀️. At any time, when the light is off, press the OK, “-“, “+” or ▶️. Press OK and then press the second time to show the fixed temperature.

- ON/OFF

Press key to turn off or turn on the radiator,

If the period in which the radiant heater is not going to be working, place the main switch in the Off position.

### 4. MODES OF OPERATION

How to change the working mode?

Use the navigation key right (>) to display the working mode line.

Move the frame cursor on the desired working mode and press (OK) to enter in the operating mode you have chosen.




• **TIMER MODE**



The Timer mode allows you to adjust the temperature and the duration for a specific time.

- This function can be used when you stay at home for several days, or if you want to override the program for some time.
- You can first adjust the duration in hours "H" if below 24H, then in days "d" with (-) or (+), press (OK) to confirm. (Adjustable from 1 hour up to 44 days)
- You can also adjust the desired setting temperature to start the function. (Default value 24°C).

The  logo shines. By pressing the button "OK" the number of hours /days remaining is displayed until the end of the period.

If you want to stop the timer function before the end, set the duration period to "no" with (-) key.

• **MANUAL MODE COMFORT**




Manual working mode, the comfort temperature setting will be followed 24 hours a day / 7 days a week. By pressing (-) or (+) keys, the temperature can be adjusted accordingly.

• **AUTOMATIC MODE**



With this mode the thermostat will follow the chosen program (Built-in or customised) according to the actual time and the Comfort and Reduced temperature settings.

You can easily override the current program temperature by changing the value with (-) or (+). The current setting temperature will blink. The small hand  logo will be displayed when the override function is active. The original temperature settings will return when the timer reaches the next change in the programme.

If hand logo blinks then ITCS is active (See the user menu for more explanation on this function).

• **MANUAL MODE REDUCED**



During manual working mode the reduced temperature setting will be followed 24 hours a day / 7 days a week. By pressing (-) or (+) keys, the temperature starts to blink and can be adjusted.

• **ANTIFREEZE MODE**



Use this mode if you want to protect your radiator against freezing when going on holiday...

The anti-freeze setting temperature is fixed and can be adjusted in the parameter menu number 05 'AF', see chapter 6 (default value 5°C).


• **TIME AND DATE ADJUSTMENT**



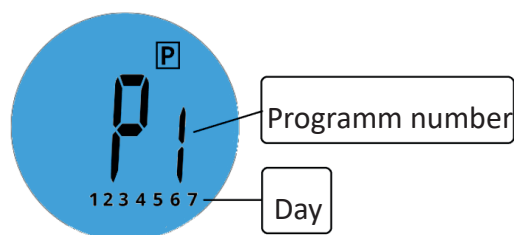
See the paragraph of "TIME AND DATE ADJUSTMENT" described above.

**5. PROGRAMMING WEEKLY**



Select the mode  with the keys of displacement

When you enter in the Program mode, the first operation is to choose the program number using the (-) or (+) keys you can choose between a built-in program P1 to P9 or a user program U1 to U4. Select a program and press (OK) to validate.



If you select a built-in program P1 to P9, you can view and select only one of the following pre-set program options.

- P1, Comfort mode in:  
Days working: from 07:00 to 09:00 h and from 17:00 to 11:00 h.  
Weekend: from 08:00 to 23:00 h.
- P2, Comfort mode in:  
Days working: from 07:00 to 9:00 h, from 12:00 to 14:00 h and from 17:00 to 23:00 h.  
Weekend: from 08:00 to 23:00 h.
- P3, Comfort mode in:  
Days working: from 06:00 to 23:00 h.  
Saturday: from 07:00 to 24:00 h.  
Sunday: from 00:00 to 00:01 h and from 07:00 to 23:00 h.
- P4, Comfort mode in:  
Days working: from 15:00 to 23:00 h.  
Saturday: from 07:00 to 24:00 h.  
Sunday: from 00:00 to 00:01 h and from 07:00 to 23:00 h.
- P5, Comfort mode in:  
Days working: from 06:00 to 08:00 h and from 21:00 to 23:00 h.  
Saturday: from 18:00 to 24:00 h.  
Sunday: from 18:00 to 23:00 h.
- P6, Comfort mode in:  
Days working: from 06:00 to 08:00 and from 14:00 to 20:30 h.  
Weekend: from 07:00 to 20:30 h.
- P7, Comfort mode in:  
Days working: from 07:00 to 19:00 h.  
Weekend: Inactive.
- P8, Comfort mode in:  
Days working: from 08:00 to 19:00 h.  
Saturday: from 08:00 to 18:00 h.  
Sunday: Inactive.
- P9, Comfort mode in:  
Monday: from 00:00 to 7:00 h.  
Tuesday – Friday: Inactive.  
Weekend: from 00:00 to 24:00 h.

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If you select a user program U1 to U4 as mentioned above you can choose the program, view it and also amend it.

Default setting:

- U1, U2, U3, U4 = x4 bespoke programme options (7 days a week)
- Press and hold the confirmation key (OK) to customise a user program

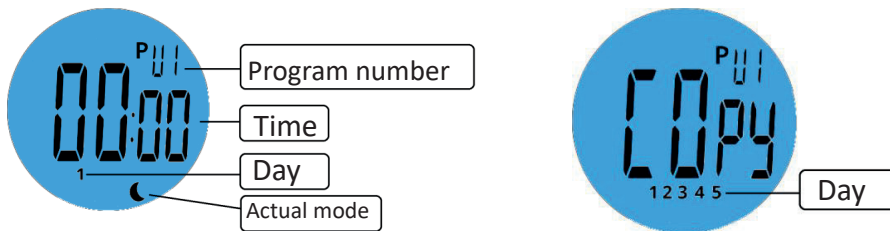
How to create a user program:

- The program creation will always start with day 1 (Monday).
- The (>) Button switches between the ECO temperature and the COMFORT temperature mode in the time displayed on the screen.

- The (+) key increased time in intervals of 30 minutes keeping the selected mode. Once you reach the time you want to change the temperature mode press the (>)key.
- Configure your programme using the instructions above until you reach midnight and the word 'COPY' will be displayed. Press the (+) button to select the days you want to copy the program. Press the (OK) key and using the (+) key select „YES“ if you wish them to copy or „NO“ if you do not wish to copy.
- If not is selected for any of the days then please configure using the instructions above until the last day of the week.


After validating the seventh day, the system automatically returns to AUTO mode and your programme mode will appear in the top right corner. For extra assistance, please contact the seller for a step by step guide.

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## 6. SPECIAL FUNCTIONS

- FUNCTION WINDOWS OPEN 

This function will stop the radiator automatically when it detects a window open if the radiator is running. When this feature is enabled, the  icon appears at the top left of the screen. If the system detects a fall of approximately 3 °C, it stops the heating for a period of 1 hour. The icon will blink and the temperature will be measured by the radiator. Pressing any button at this stage will stop the detection of open windows. The radiator will begin to function normally again and will restarts the detection of open windows.



- POWER CONSUMPTION 

Select the mode  with the keys of displacement

In this screen you will see the power consumption (KWh) by pressing the button (+) in the last 24 h (1 d), in the last 7 days (7 d) and in the last month (30).

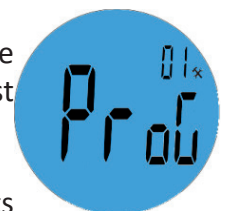
The control of the electric radiator, computes the time in which the team has State heating with the power of the radiator. The value of power of the radiator (default 900 W) must be correct to do so, if this value is not on your radiator you must replace it with the correct. You can see how this value is changed in „Menu parameters“, 10 (Pow) „Power setting“ menu.




- MENU PARAMETERS

Your thermostat has a parameter's menu. To enter this menu, press and maintain the validation key (OK) for 5 seconds. Then the parameter menu will appear and the first menu screen will be displayed.

Now you can select the parameters which must be adjusted with the navigation keys (▶). Press the (OK) key to edit the parameter that you wish to modify and change its value with (+) or (-), then confirm with (OK).





- Nº Default value & other possibilities
- 1 **ProG**: Display type: simple and complete  
No: Simple  
Yes: Complete, all functions are available
- 2 **dEG**: Type of degrees displayed  
°C Celsius  
°F Fahrenheit
- 3 **24h**: Selection of the clock  
24H (24:00)  
12H (12:00 AM /PM)
- 4 **dSt**: Daylight summer time.  
Yes the automatic change over time between Summer and Winter is activated according to date  
No no daylight summer time automatic change.
- 5 **AF**: Anti Freeze temperature:  
This Anti-freeze temperature used in Holiday mode.  
Adjustable 0.5 to 10.0°C with default value 5.0°C.
- 6 **\_ . \_**: Calibration of the internal probe  
The calibration must be done after 1 day working with the same setting temperature in accordance with the following description:  
Put a thermometer in the room at 1.5M distance from the floor (like the thermostat) and check the real temperature in the room after 1 hour.  
When you enter on the calibration parameter the actual value is displayed.  
To enter the value shown on the thermometer, use the (-) or (+) keys to enter the real value. Then, press (Ok) to confirm. The logo  should be displayed, to inform that a calibration is now made and saved in the memory. If you need to erase a calibration already made press on the navigation key left (◀). Then the logo must disappear.  
\* Pay attention: Only the heating element managed by the thermostat must be used during the complete step of the calibration.
- 7 **ITCS**: Intelligent Temperature Control System  
The Intelligent Temperature Control System will activate your installation in advance (2 hours maximum) to assure the desired temperature at the hour programmed following your weekly program. This automatic control system works in the following way:  
When you start your thermostat for the first time, it will measure the time taken by your installation to reach the set temperature. The thermostat will re-measure this time at each program change to compensate external temperature change & influence. You can now program your thermostat without the need to adjust the temperature in advance because your thermostat does it automatically for you.
- 8 **WIN**: Automatic detection of open windows.  
This feature allows detect automatically if you open a window.  
No: deactivation of the function.  
Yes: Activate the function
- 9 **Chil**: Adjustment % of the power of the radiator electric. 25, 50, 75 and 100% power
- 10 **POW**: Adjustment of the power of the radiator electric.  
In this menu you can choose the value of the power of your radiator electric to adjust the calculation of the consumption of your radiator. Default: 900 W
- 11 **Clr**: Factory setting  
Press and maintain (Ok) key during 10s to reset Set points temperatures and user parameters in this menu to factory default settings. User programs will also be resetted.

\* Pay attention:

Ensure that you have all necessary elements to re-setup your installation before to use this function.

12 Software version


13 **End:** Exit the parameter's menu

Press (OK) key to exit installation parameter menu and return to normal operation.

## 7. TECHNICAL CHARACTERISTIC

Measured temperature precision	0.1°C
Environmental: <ul style="list-style-type: none"> <li>Operating temperature</li> <li>Shipping and storage temperature</li> </ul>	0°C - 35°C -10°C to +50°C
Setting temperature range <ul style="list-style-type: none"> <li>Comfort, Reduced</li> <li>Timer</li> </ul>	5°C to 30°C by 0,5°C step 5°C to 19°C by 0,5°C step
Regulation characteristics	Proportional band (PWM)
Power Supply	230Vac +/- 10% 50Hz
Output <ul style="list-style-type: none"> <li>Maximum Load (Resistive only)</li> </ul>	TRIAC 230Vac 10 Amps (2000W)
Software Version	Displayed in the user menu.
Norms and directives:  Your thermostat was designed in accordance with the following Europeans norms and directives:	EN 60730-1 : 2003 EN 61000-6-1 : 2002 EN 61000-6-3 : 2004 EN 61000-4-2 : 2001 Low voltage 2006/95/EC EMC 2004/108/EC

## 8. TROUBLESHOOTING & SOLUTION

<b>My Thermostat doesn't work</b>	
<b>Power supply</b>	- Check the power supply
My Thermostat show an Error message "Err" blink on the display	
"Error" on sensor Note: For safety if there is a problem on the regulation sensor the regulation will be replaced by a rate of 5 % functioning.	 The logo and the text "Err" blinks. Error detected on the internal sensor - Contact your installer or seller.
My <b>Thermostat</b> seems work correctly but the heating doesn't work correctly	
<b>Output</b>	- Check the connections. - Check the power supply of the heating element. - Contact your installer.
My <b>Thermostat</b> seems work correctly but the temperature in the room was never in accordance with the program.	
<b>Program</b>	- Check the Clock. -The difference between Comfort & Reduced temperature is too high? - The step in the program is too short? - Check the pilot wire function.



## 9. INSTALLATION

### • BEFORE INSTALLING

Whilst the installation of this heater is straightforward, please ensure you read the following carefully as the manufacturer will not be liable for any damage or problems arising from incorrect installation.

Unwrap your heater and clear the packaging away. The packaging has been specifically chosen to allow you to recycle it. If on unpacking, you discover any damage whatsoever, please get in touch with your supplier within 24 hours and prior to installation.

For assembly and installation, please follow the instructions as set out in this booklet. For safety reasons, this heater should never be installed in close proximity to a bath or shower i.e. that you could touch the controls whilst in the bath or shower. The radiator should not be placed below a socket. If the cable has been damaged, it can only be replaced by the manufacturer, through its aftersales team, or by a qualified person. This ensures the user will not be in any danger. At the end of the manual, you will find a Guarantee, please check that this has been completed correctly, dated and stamped

Very important:

- Read installation manual prior to installation of this unit!
  - Read user manual before putting this unit in operation!
  - Observe the warnings in the manuals!
  - The installation room must fulfil the ventilation requirements!
  - Installation by an authorised person only!
- CONNECTING ELECTRICITY SUPPLY
- If the Thermal Emitter that you have acquired does not have a plug on the supply cord, installation should be carried out by a qualified electrician.
  - Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules of the country where it is to be installed.
  - Before connecting, check the supply is switched off.
  - Before connecting the appliance to the fixed wiring check that the voltage of supply is inside the rated values indicated in the marking plate 220 - 240V.
  - The appliance must be connected to the fused system of fixed wiring.
  - Any problem arising from not following the instructions above will invalidate your guarantee
  - When wiring up, please follow the colours of wires.

### • HANGING THE HEATER

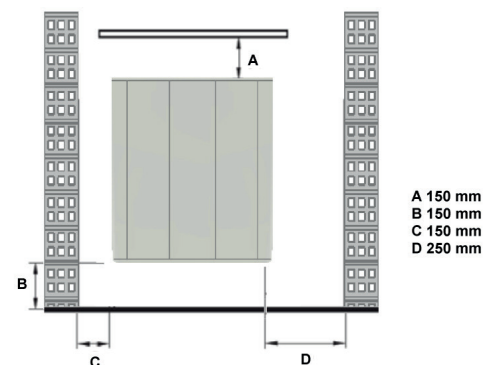
The radiator comes complete with an installation kit, comprising the following:

- Screws
- Brackets

Cardboard guide, (remove from the top of the box the radiator comes in).

Please follow the illustrated steps below to hang and install your radiator:

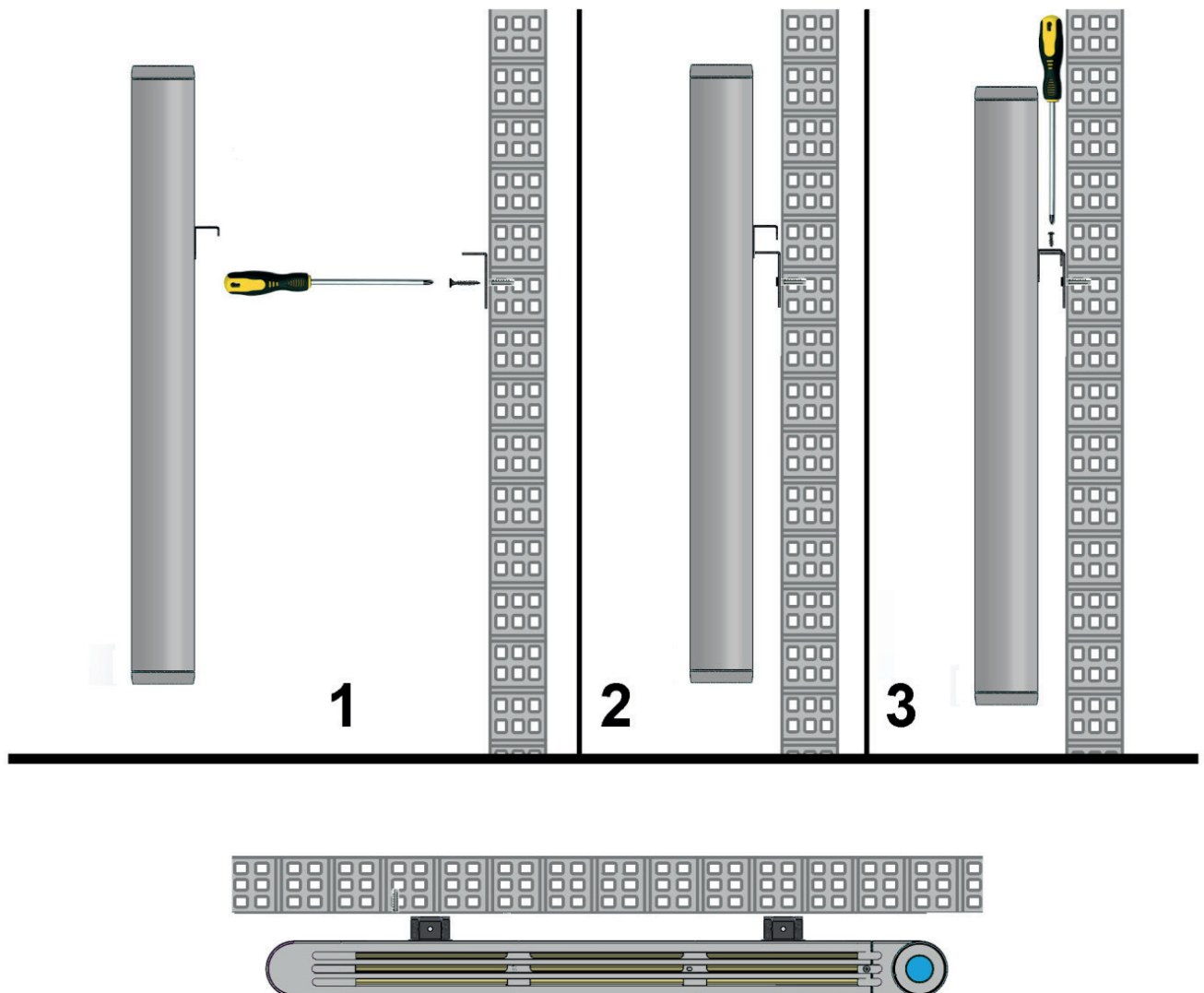
1. Take the radiator out of its packaging and choose where to hang it.  
Please note the minimum distances required around the heater.
2. Remove the cardboard guide from the lid of the box and place it at the right height. We suggest you use a level to ensure the radiator is hung square. Using the holes as your guide, mark where the brackets need to go.
3. Drill and plug the holes.
4. Screw the brackets to hold the radiator into place, using the screws and washers provided.
5. Hang the radiator using the brackets.
6. Mark the position of the hooks drill and plug holes and screw in place.



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7. Use a hole drill for holes with appropriate stoppers for the type of wall.
8. Place the radiator brackets in place using the supplied screws, stoppers and washers.
9. Approach the radiator to the brackets so that the grooves match with the ones on the bracket.
10. Hang the radiator and secure it with the screws.

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## 10. GUARANTEE.

The manufacturer produces high quality products for international markets. The company provides a technical guarantee for the period of 2 years maximum. For this warranty to be valid you must present the original invoice, delivery note or ticket.

Prerequisites:

- The guarantee only covers manufacturing defects and/or any problem occurring from such defects. All problems arising from installing and undersized heater (not enough heat, improper installation, etc) are not covered by this guarantee.
- This heater is for domestic & light commercial use only, installation in any other environment voids this guarantee
- Technotherm reserves the right to decide whether to repair or replace any defective part or to replace the entire heater.
- All costs arising from any damage caused by incorrect usage, transport, electrical supply are not covered by this guarantee, nor is any malicious damage.

This guarantee does not provide compensation for incidental or consequential damage or injuries.

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## Information requirements for electric local space heaters

Model: PH Ultraslim							
Item	Symbol	Value			Value	Item	Value
<b>Heat output</b>						<b>Type of heat input, for electric storage local space heaters only (select one)</b>	
Nominal heat output	$P_{nom}$	0,9	1,5	2,0	kW	manual heat charge control, with integrated thermostat	NO
Minimum heat output (indicative)	$P_{min}$	0,5	1,0	1,2	kW	manual heat charge control with room and/or outdoor temperature feedback	NO
Maximum continuous heat output	$P_{max,c}$	0,5	1,0	1,2	kW	electronic heat charge control with room and/or outdoor temperature feedback	NO
<b>Auxiliary electricity consumption</b>						fan assisted heat output	NO
At nominal heat output	$e_{l,max}$	0,9	1,5	2,0	kW	<b>Type of heat output/room temperature control (select one)</b>	
At minimum heat output	$e_{l,min}$	1,2	1,2	1,2	kW	single stage heat output and no room temperature control	No
		1,2	1,2	1,2		Two or more manual stages, no room temperature control	No
In standby mode	$e_{l,SB}$	1,2	1,2	1,2	kW	with mechanic thermostat room temperature control	NO
		1,2	1,2	1,2		with electronic room temperature control	No
						electronic room temperature control plus day timer	No
						electronic room temperature control plus week timer	Yes
						<b>Other control options (multiple selections possible)</b>	
						room temperature control, with presence detection	No
						room temperature control, with open window detection	Yes
						with distance control option	No
						with adaptive start control	Yes
						with working time limitation	No
						with black bulb sensor	No
Contact Information:	Lucht LHZ Elektroheizung GmbH & Co. KG   Reinhard-Schmidt-Str.1 D-09217 Burgstädt						

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