

## Installation and Operating Instructions

### VPN with DSM or TDI/plus thermostat for wall mounting



### Types:

- VPN DSM 750
- VPN DSM 1000
- VPN DSM 1200
- VPN DSM 1500
- VPN DSM 2000
- VPN H DSM 1200
- VPN plus 750
- VPN plus 1000
- VPN plus 1200
- VPN plus 1500
- VPN plus 2000
- VPN H plus 1200



Please read attentively and keep in a safe place!

Subject to alterations!

Id\_no. 911 361 915

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## 1. General information about our heaters

With our variety of electric heaters, you can find the right solution for your needs in any spatial situation. The TECHNOTHERM heaters are available as additional or transitional heating for all rooms in the living area, with the exception of the special cases stated in the safety instructions. They are designed for continuous operation. Prior to dispatch, all our products undergo an extensive function, safety and quality test. We guarantee a constructive design complying with all currently applicable international, European and German safety standards and rules. You can see this in the labelling of our products with the well-known certification marks: “TÜV-GS”, “SLG-GS”, “Key-mark” and “CE”. Our heaters are evaluated in accordance with the internationally applicable IEC-regulations. The manufacture of our heaters is constantly supervised by a state-accredited test centre.

This heater can be used by children aged from 8 years and above and by physically, sensory or mentally restricted persons if they are supervised or given instructions on safe use and understand the hazards involved as it does not require any experience or knowledge. This device is not a toy for children to play with! Cleaning and user maintenance shall not be carried out by children without supervision. The use of heat radiators is to be given a particular duty of care by supervisors. Children under the age of 3 are to be kept away unless they are continually supervised. Children between the age of 3 and 8 are only allowed to switch the heater on or off if they are supervised or given instructions on safe use and understand the hazards involved, provided that it has been placed or installed in its intended normal operating position. Children between the age of 3 and 8 shall not plug in, regulate and clean the heater or perform user maintenance.

Caution: Some parts of the product can become very hot and cause burns. Pay particular attention when children and vulnerable people are present.

### **Warning! this device has to be grounded**

This device may only be operated using alternating current and the operating voltage indicated on the power rating plate

- Nominal Voltage 230V AC, 50 Hz
- Protection Class I
- Degree of Protection IP 20
- Room Thermostat 7°C till 30°C

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## **2. User manual for the VPN DSM**

Please see additional manual at



<https://www.technotherm.de/manuals.html>

## **Plus/TDI thermostat**

The instruction will be enclosed separately if required

## **3. Maintenance**

Before cleaning the device be sure to turn it off. To clean use a damp towel and a mild detergent. This device is used only for wall mounting!

## 4. Assembly instruction

This Manual is very important and has to be kept at a safe place at all times. Be sure to hand this manual to any other succeeding owner of the device. The device comes with a power plug that has to be plugged into an outlet.

The device is designed to be connected to 230V (nominal) alternating current (AC).

## 5. Wall Installation

When installing the device, the safety distance must be strictly adhered to, so that flammable materials can not ignite. Install the device to a wall which is heat resistant up to 90 ° C.

- Due to possible fire hazard the safety distances are observed during assembly:

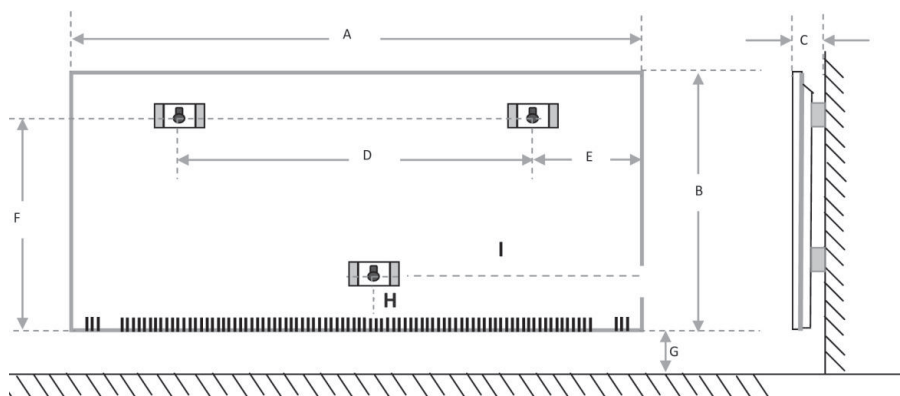
Side walls of the heater to any masonry:	5 cm
Side walls of the heater to combustible materials:	10 cm
Distance radiator to the floor:	10 cm
arranged spaced upper radiator limit to about components or covers (. Eg window):	
flammable	15 cm
nonflammable	10 cm

The safety distance to the floor should be 10 cm, and at least 10 cm to all other devices. Furthermore there has to be safety distance of approximately 50 cm between the ventilation grille, windowsills, roof slopes and ceilings.

## 6. Wall Mounting

Type	Power [Watt]	With A	High B	Deep C	[mm] D	[mm] E	[mm] F	[mm] G	[mm] H	[mm] I	Weight [kg]
VPN 750	750	750	450	85	442	140	375	100	115	375	11,5
VPN 1000	1000	750	450	85	442	140	375	100	115	375	11,5
VPN 1200	1200	750	450	85	442	140	375	100	115	375	11,5
VPN 1500	1500	1050	450	85	740	140	375	100	115	525	15,0
VPN 2000	2000	1050	450	85	740	140	375	100	115	525	15,0
VPN H 1200	1200	450	1050	85	252	99	809	100	100	275	15,0

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## 7. Installation of Electricity

The device was developed for an electrical voltage of 230 V(nominal) and an alternating current of (AC) 50 Hz. The electrical installation may only be performed according to the user manual and only by a qualified Electrician. The device was designed to be used with termination and the connection cable has to be plugged into an appropriate socket at all times. (Notice Permanent cables may not be used) The distance between the receptacle and the device has to be at least 10cm. The connection line may not touch the device at any time.

## 8. Regulation

From 01.01.2018, the EU conformity of these devices is additionally linked to the fulfillment of the Ecodesign requirements 2015/1188.

The installation and commissioning of the devices is only permitted in conjunction with external room temperature controllers that fulfill the following functions:

- electronic room temperature control

and has at least one of the following properties:

- room temperature control, with presence detection
- room temperature control, with open window detection
- with distance control option
- with adaptive start control

### The following room temperature controller systems

- DSM-Thermostat with the DSM-Interface (Art.No.:911 950 101)
- TDI- Thermostat / plus-Thermostat

**from Technotherm meet the following requirements and therefore the ErP Directive:**

- electronic room temperature control plus week timer (DSM/plus/TDI)
- room temperature control, with open window detection (DSM/plus/TDI)
- with distance control option (DSM)
- with adaptive start control (DSM/plus/TDI)

Failure to comply with these requirements will result in the loss of the CE mark.

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### 10. Information requirements for electrical local space heaters

Type: VPN plus/TDI								
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	$P_{nom}$	1000	1200	1500	2000	Watt	manual heat charge control, with integrated thermostat	NO
Minimum heat output (indicative)	$P_{min}$	1000	1200	1500	2000	Watt	manual heat charge control with room and/or outdoor temperature feedback	NO
Maximum continuous heat output	$P_{max,c}$	1000	1200	1500	2000	Watt	electronic heat charge control with room and/or outdoor temperature feedback	NO
<b>Auxiliary electricity consumption</b>							fan assisted heat output	
At nominal heat output	$el_{max}$	1000	1200	1500	2000	Watt	<b>Type of heat output/room temperature control (select one)</b>	
At minimum heat output	$el_{min}$	2.0	2.0	2.0	2.0	Watt	single stage heat output and no room temperature control	NO
In standby mode	$el_{sb}$	<0,5	<0,5	<0,5	<0,5	Watt	Two or more manual stages, no room temperature control	NO
							with mechanic thermostat room temperature control	NO
							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	YES
							with adaptive start control	YES
							with working time limitation	NO
							with black bulb sensor	NO
Contact	Lucht LHZ Elektroheizung GmbH & Co.KG - Reinhard-Schmidt-Str. 1 - 09217 Burgstädt - Germany							



VPN devices

Type: VPN DSM (additional DSM interface optionally necessary)

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	$P_{nom}$	1000	1200	1500	2000	Watt	manual heat charge control, with integrated thermostat	NO	
Minimum heat output (indicative)	$P_{min}$	1000	1200	1500	2000	Watt	manual heat charge control with room and/or outdoor temperature feedback	NO	
Maximum continuous heat output	$P_{max,c}$	1000	1200	1500	2000	Watt	electronic heat charge control with room and/or outdoor temperature feedback	NO	
<b>Auxiliary electricity consumption</b>							fan assisted heat output		
							<b>Type of heat output/room temperature control (select one)</b>		
At nominal heat output	$e_{l,max}$	1000	1200	1500	2000	Watt	single stage heat output and no room temperature control	NO	
At minimum heat output	$e_{l,min}$	0,8	0,8	0,8	0,8	Watt	Two or more manual stages, no room temperature control	NO	
In standby mode	$e_{l,SB}$	0,8	0,8	0,8	0,8	Watt	with mechanic thermostat room temperature control	NO	
							with electronic room temperature control		
							electronic room temperature control plus day timer		
							electronic room temperature control plus week timer		
							<b>Other control options (multiple selections possible)</b>		
							room temperature control, with presence detection		
							room temperature control, with open window detection		
							with distance control option		
							with adaptive start control		
							with working time limitation		
							with black bulb sensor		
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Technical alternations, errors, omissions and errata reserved. Dimensions are stated without warranty!

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