

# Heating Element without Thermostatic Head, with fixed wiring, in copper, with M48x2 thread



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# 1 - In General

## 1.1 - Use

This electric heating element is designed to heat heating water in an accumulation tank or electric boiler.

## 1.2 - Installation

Screw the heating element into the respective threaded sleeve (M48x2 F) with the cable gland heading downwards. Sealing cord, hemp, Teflon tape or a semi-permanent thread sealant should be used to avoid leaks.

Should the heating element be controlled by a temperature sensor, this sensor shall be placed in the tank, above the heating element.

## 1.3 - Maintenance

Clean the exterior of the heating element with a soft cloth and a suitable detergent. Never use abrasive cleaners or solvents.

Unplug the element before cleaning. Then drain water from the tank and dismount the heating element. Scratch the hard deposits on the heating rod with a plastic or wooden spatula and flush with water. Then reinstall the body according to this instruction manual, fill the tank with water, air-bleed and pressurize it. Check the threaded connection for leaks. Finally, re-connect the heating element to the mains.

## 1.4 - Disposal

### **IMPORTANT INFORMATION ON PROPER DISPOSAL OF E-WASTE AS REQUIRED BY THE EC DIRECTIVE 2002/96/EC (WEEE)**

Do not dispose of this product as unsorted municipal waste. Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

Respecting these rules will help to preserve, protect and improve the quality of the environment, protect human health and utilize natural resources prudently and rationally. The crossed out wheeled bin with marking bar, printed either in the Manual or on the product itself, identifies that the product must be disposed of at a recycling collection site.



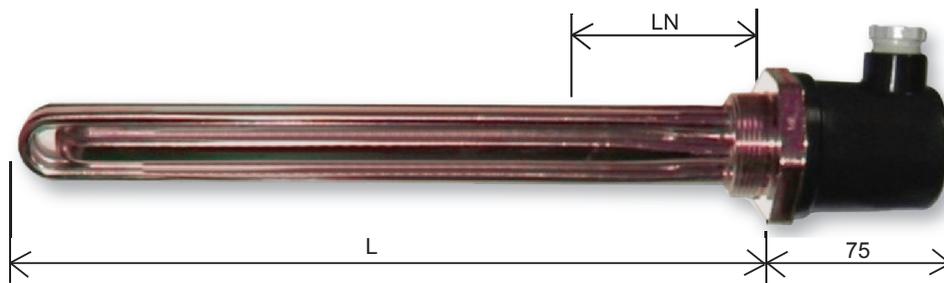
WEEE Registration  
Number: 02771/07-ECZ

# 2 - Heating Element without Thermostatic Head, fixed wiring, in copper, with M48x2 thread

## 2.1 - Technical Description

The electric heating element is designed to heat heating water in an accumulation tank or electric boiler. The electric heating element consists of a copper heating rod with M48x2M thread.

## 2.2 - Dimensions



	output [kW]	el. wiring	type no.	code	LN-non-heating end [mm]	L-heating rod length [mm]
1×230 V	2	1/N/PE AC 230V	1122/2020	4973	45	178
	3	1/N/PE AC 230V	1122/2040	4972	45	240
3×230 V	4.5	3/N/PE AC 400/230V	1122/2060	4971	45	333
	6	3/N/PE AC 400/230V	1122/2070	4970	45	428
3×400 V	7.5	3/N/PE AC 400/230V	1122/2080	4969	45	520

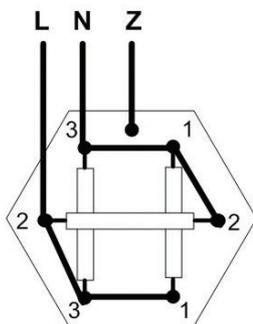
## 2.3 - Connection to the mains

Remove the cover of the heating rod, run the power supply cable through the cable gland, wire according to the wiring diagram for the respective model and replace the cover. The electric heating element shall be wired to 1/N/PE AC 230V or 3/N/PE AC 400/230V, fixed wiring, using a cable with leads of a cross-section respecting its load by the respective heating rod model.

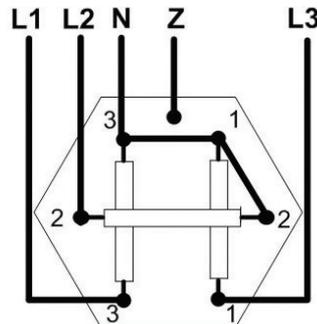
The installation shall meet valid rules and standards and shall be done by an authorized person only.

## 2.4 - Wiring diagram

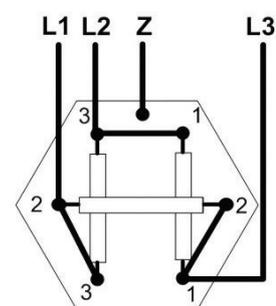
For 2 and 3 kW - 230 V



For 4.5 and 6 kW - 3×230 V



For 7.5 kW - 3×400 V



## 2.5 - Commissioning, operation and possible faults

### 2.5.1 - Heating water for space heating in an accumulation tank or an electric boiler

Fill the heating system with heat-carrying fluid, air-bleed it and pressurize to the working pressure. Plug in the heating element and set the desired water temperature using a thermostat or a heating system controller.

### 2.5.2 - Heating element state during operation

For safe operation, the heating element shall be controlled by a heating system controller or by a safety and an adjustable thermostat, wired in series on all phase lines of the power supply to the element. Temperature sensors of the controller, or temperature sensors of both the thermostats shall be placed inside the tank above the heating element.

Operation of the heating element is not signaled by any lamp.

### 2.5.3 - Possible faults

If the heating element shows signs of a defect, disconnect it from the mains immediately and call your service provider.

# WARRANTY CERTIFICATE

## *Heating Element without Thermostatic Head, fixed wiring, in copper, with M48x2 thread*

Type: .....

Serial number: .....

Shop: .....

Purchase date: .....

### WARRANTY CONDITIONS

1. The warranty period is 24 months from the date of purchase.
2. The product will be installed and commissioned by a competent company or a person trained by the manufacturer.
3. When claiming warranty, this Warranty Certificate must be submitted together with the purchase receipt.
4. The warranty is valid only when the technical conditions set by the Manufacturer, installation manual and instructions in the documentation and on the product itself are maintained.
5. The warranty does not cover defects caused by external conditions or improper operation conditions, defects caused by usual wear and tear, further when the product is not used in compliance with its purpose and when the defect was caused by mechanical damage, improper handling, tampering by a third person, improper installation, improper stocking, natural disaster etc.

### COMMISSIONING

Company: .....

Date: .....

Rubber stamp print and signature of the installer:

10/2010



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