

Installation Manual — Heating Element 3/6 kW

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1. Introduction

1.1. Legal provisions

The information provided in these documents is property of FENECON GmbH. Publication, in whole or in part, requires the written consent of FENECON GmbH.

Subject to changes and printing errors!

1.2. Qualification of the installer

A qualified installer is a person who has the following experience and training:

- Setting up, switching on, switching off, disconnecting, earthing, short-circuiting and repairing circuits and devices
- Standard maintenance and use of protective devices in accordance with current safety standards
- First aid/emergency care
- Current knowledge of local regulations, standards and guidelines

1.3. Symbols used

Before reading the manual, you should familiarize yourself with the different types of safety warnings. You should also familiarize yourself with the importance of the safety warnings.

	Danger
	Attention
	Important information

2. Product description

2.1. Scope of delivery

After you have received the delivery, check that all components have been included. Inspect the scope of delivery for damage. If anything is missing or damaged, please contact the supplier immediately. The following components are included in the delivery:

- Heating element 3 kW / Heating element 6 kW
- Heckert Solar Installation Manual — Heating element
- Installation instructions (on paper) for the 3 kW heating element / 6 kW heating element from German



The installation instructions for heating elements are identical for the Heckert Solar Home and Commercial systems with 2.8 kWh battery modules.

2.2. Prerequisites

The integration of the heating element with 3 kW or 6 kW is required:

- Heckert Solar Home or Commercial system with **three** free relay contacts *or*
- EMS TCP 8-Channel Relay Board with **three** free relay contacts (note: not included in the scope of delivery)



The heating element is designed for a tank of at least 160 liters.



Follow the manufacturer’s instructions for assembling the heating element.



Heating elements with an output > 6 kW are available on request.

3. Heating element 3 kW / Heating element 6 kW

The heating element is designed for auxiliary heating of drinking water in closed or open enameled containers.

The following technical data are provided for reference only. Please refer to the manufacturer's original instructions (German).

Type series	HP — 3.0
Supply	3-phase ~ 230 V
Function	3-phase heating element, 0 or 1 kW per phase can be controlled.
Installation orientation	horizontal
Installation socket	1.5 inch; max. 100 mm (additional 150 mm space should be kept free for assembly in front of the bung)
Connection cable	at least 2.5 mm^2 (type H05VV-F)
Installation depth of heating element	39 cm

Table 1. Heating element — 3 kW

Type series	HP — 6.0
Supply	3-phase ~ 230 V
Function	3-phase heating element, 0 or 2 kW per phase can be controlled.
Installation orientation	horizontal
Installation socket	1.5 inch; max. 100 mm (additional 150 mm space should be kept free for assembly in front of the bung)
Connection cable	minimum 2.5 mm^2 (type H05VV-F)
Installation depth of heating element	56 cm

Table 2. Heating element — 6 kW

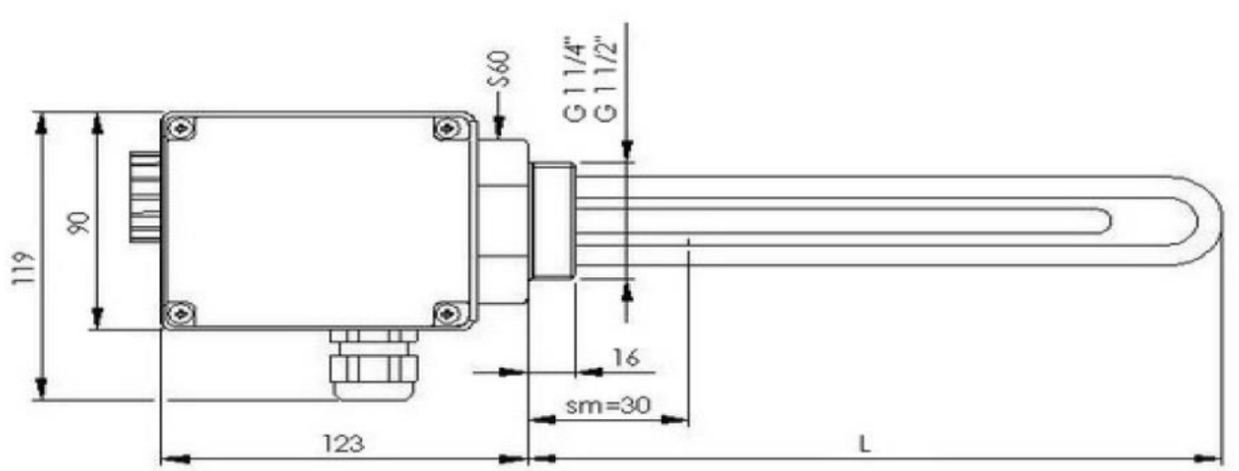


Image 1. Dimensions — Heating element — 6 kW

Information on wiring with the FEMS 8-channel TCP relay board or system with 2.2 kWh battery modules can be found in the corresponding instructions for the respective products.

4. Contact us

For support, please contact:

Symphon-E Service

Service phone: +49 (0) 371 45 85 68 - 100

E-mail service: symphon-e@heckert-solar.com

5. Directories

5.1. List of illustrations

Image 1. Dimensions — Heating element — 6 kW