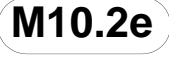
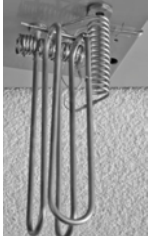


FÖRSTER TECHNIK® 	Service info	Heat element	
	Re:	Boiler and Heat exchanger	
	Date	July 2016	
Page 1 out of 8	Replacing		

Replacing the heating element

1 Introduction

These installation instructions put you in the position to replace the heat element safely as intended.

- > Please read these installation instructions carefully before replace the heat element.
- > Keep these installation instructions ready and available at all times.
- > Comply with all safety instructions in these installation instructions at all times.
- > Please also observe the original operating manual for the automatic feeder.



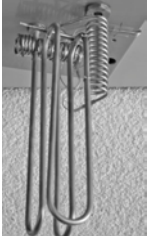
2 For your safety

2.1 Target group

2.1.1 Necessary qualifications of the service technician

Only trained service technicians are authorized to replace the heat element.


Service technicians are electricians with appropriate qualifications, i.e. they are able to assess the work assigned to them and detect potential risks on the basis of their technical training as well as their knowledge of the relevant standards. This also includes knowledge of relevant accident prevention


 	Service info	heat element	
	Re:	Boiler and Heat exchanger	
	Date	July 2016	
Page 2 out of 8	Replacing		


regulations, generally accepted safety regulations, EC guidelines and country-specific standards and provisions.

2.2 Indication of hazards

Hazards are indicated by a key word and a corresponding symbol, depending on the severity and probability:

	<p>Danger!</p> <p>For an imminent danger, resulting in serious injuries or death.</p>
---	--

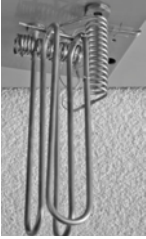
	<p>Warning!</p> <p>For a potentially dangerous situation which may cause serious injuries or even death.</p>
---	---

	<p>Caution!</p> <p>For a potentially dangerous situation which may cause minor injuries or material damage.</p>
---	--

Attention	For a potentially harmful situation in which the product or an item can become damaged within its environment.
------------------	--

Note	For application notes and other useful information.
-------------	---

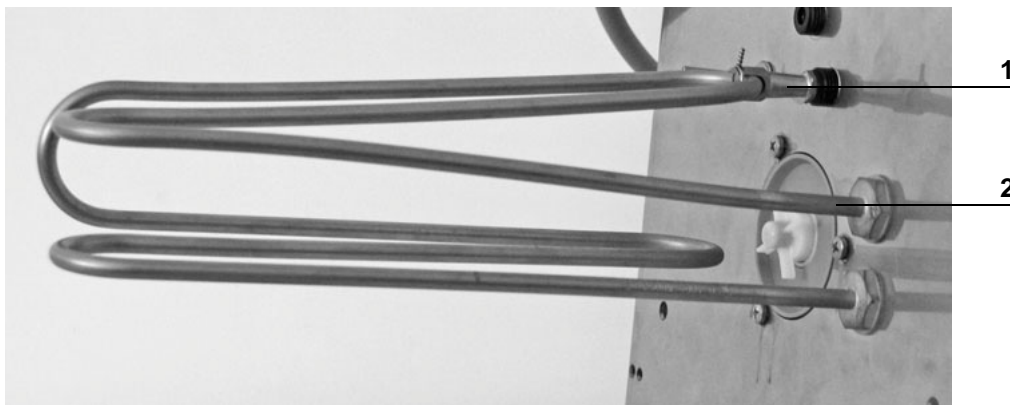
However, it is just as important to comply with any other notes and information which are not highlighted, so as to avoid failures which in turn may cause direct or indirect injuries or material damage.

FÖRSTER TECHNIK® M10.2e	Service info	Heat element	
	Re:	Boiler and Heat exchanger	
	Date	July 2016	
Page 3 out of 8	Replacing		

3 Components

Note	Depending on the automatic feeder model, the position of components may differ from the positions shown in the images below.
-------------	--

3.1 Heat exchanger/boiler with electronic control



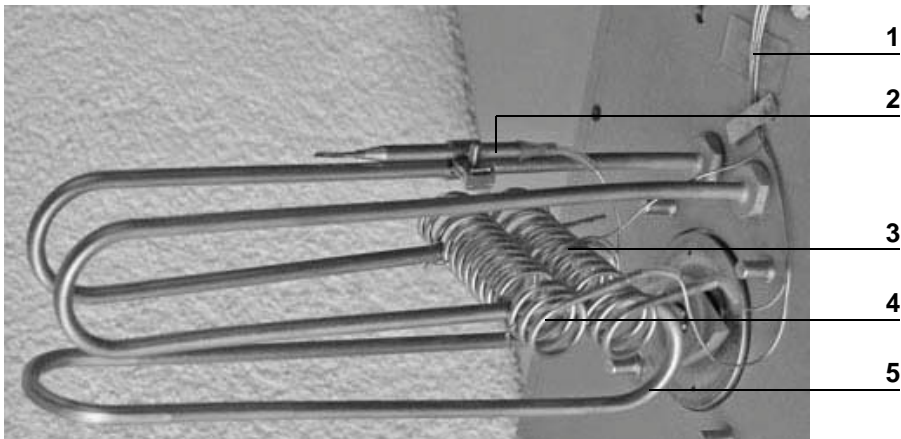
1	Mount for safety temperature limiter with V2A wire
2	Heating element

Service info	heat element
Re:	Boiler and Heat exchanger
Date	July 2016
Replacing	

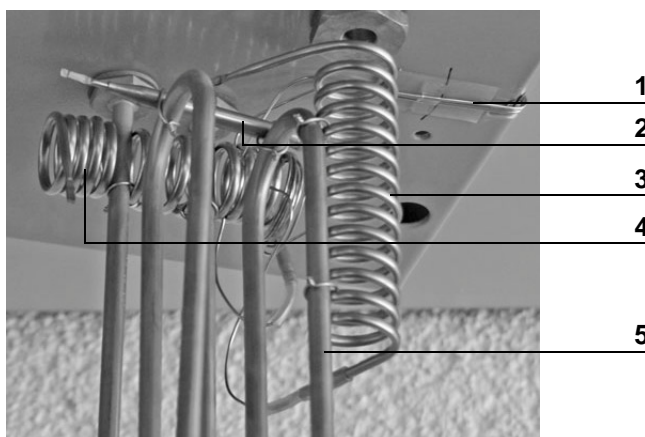


3.2 Heat exchanger/boiler with capillary tube control




Heat exchanger



Boiler

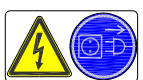


1 Capillary tubes	4 Sensor for minimum operating temperature thermostat
2 Sensor for safety temperature limiter	5 Heating element
3 Sensor for regulator thermostat	

 	Service info Heat element	
	Re: Boiler and Heat exchanger	
	Date July 2016	
Page 5 out of 8	Replacing	

4 Replacing the heating element

Proceed as follows to replace the heating element on the heat exchange or boiler of your automatic feeder:

	<p>Danger due to live electrical components.</p> <p>Risk of fatal injury from electric shock.</p> <ul style="list-style-type: none"> • Always disconnect the power plug of the automatic feeder before replacing the heating element. For feeders with permanent connections, switch the main switch off and ensure there is no voltage present before approaching electrical parts.
---	--



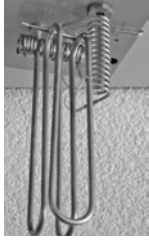
1. Drain the heat exchanger/boiler by disconnecting the water hose between the water solenoid valve and the heat exchanger/boiler.
2. Disconnect the power plug of the heat exchanger/boiler.
3. Remove the heat exchanger/boiler.
4. Undo the four screws on the heat exchanger/boiler tank and carefully remove it.

Attention	Make sure that the capillary tubes of the thermostats (if present) are not damaged. The capillary tubes are filled with fluid and connect the sensor to the switching element.
------------------	--

5. **For heat exchanger/boiler with electronic control:** Remove the V2A wire on mount of the safety temperature limiter.

For heat exchanger/boiler with capillary tube control:

Note the position of the sensors on the heating element or

 	Service info heat element	
	Re: Boiler and Heat exchanger	
	Date July 2016	
Page 6 out of 8	Replacing	

take a photo of it. The temperature sensor will not work properly unless you position the thermostats in the same exact location on the new heating element where they were originally located on the defective part.

5.1 Remove all sensors from the safety temperature limiter.

6. Remove the defective heating element.

Note	Before installing the new heating element, ensure that the embossed label indicates the same heat output and voltage as the original heating element.
-------------	---

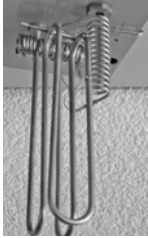
7. Install the new heating element with the supplied seals and fasten it using the fitting. However, hold the fitting with a spanner on the opposite side to prevent the heating element from rotating.

8. **For heat exchanger/boiler with electronic control:** Attach the heating element to the mount of the safety temperature limiter using the supplied V2A wire.

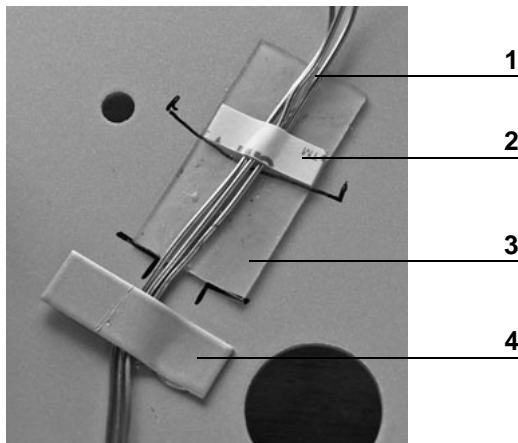
For heat exchanger/boiler with capillary tube control: Attach all sensors to the same side of the heating element as before using the supplied V2A wires.

Attention	Make sure not to crush or deform the sensor enclosures of the thermostats and the capillary tube connection. The capillary tube connection may not touch the heat exchanger coil.
------------------	---

9. **For heat exchanger/boiler with capillary tube control:** Replace the large adhesive tape on the heat exchanger

FÖRSTER TECHNIK® M10.2e	Service info	Heat element	
	Re:	Boiler and Heat exchanger	
	Date	July 2016	
Page 7 out of 8	Replacing		

plate/boiler plate with the large adhesive tape supplied.
 Lead the capillary tubes back over the large adhesive tape
 and adhere the supplied small adhesive tape over the ca-
 pillary tubes (see image).

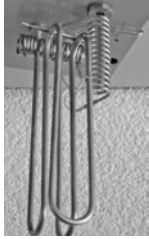


1 Capillary tubes	3 Large adhesive tape
2 Small adhesive tape	4 Guide

10.Reinstall the heat exchanger tank/boiler tank on the heat
 exchanger/boiler.

For heat exchanger/boiler with capillary tube control:
 Make sure that the existing slot is located over the capillary
 tubes (see illustration).



FÖRSTER TECHNIK® M10.2e	Service info	heat element	
	Re:	Boiler and Heat exchanger	
	Date	July 2016	
Page 8 out of 8	Replacing		

For heat exchanger/boiler with electronic control: Re-attach the heat exchanger tank/boiler tank in its original location.

11. Install the heat exchanger/boiler in the automatic feeder and connect the power plug.

12. For heat exchanger/boiler with capillary tube control:

Set the control knobs of the thermostats to position 0 (all the way to the left) to switch off the heating unit.

Attention	The thermostats must always be switched off before switching on the automatic feeder to avoid damaging the heating unit and thermostats.
------------------	--

13. Switch the automatic feeder on again and fill up the heat exchanger/boiler with water. For instructions, see the original operating manual of your automatic feeder.

14. Once you have completely filled the heat exchanger/boiler with water, set the required temperature and minimum temperature of the water. To do this, follow the instructions in the original operating manual of your automatic feeder.

15. Finally, check whether the heat exchanger/boiler is sealed (visual inspection).