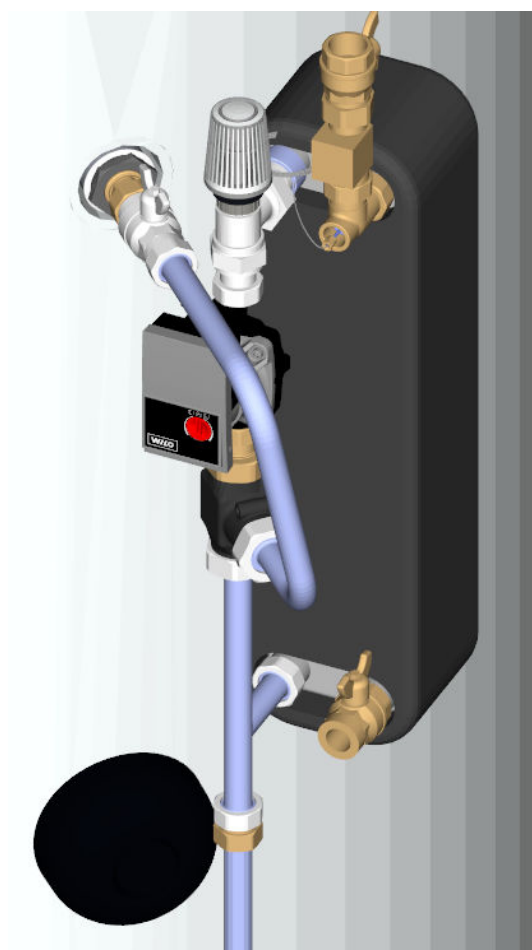


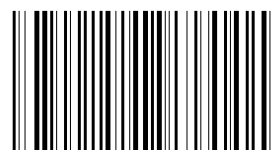
Manual

Fresh water module 80724



**INCL. CONNECTING KIT
80725**

ENGLISH



PE 537_EN

Title: Manual Fresh water module 80724
Article number: PE 537_EN 9.1
Version valid from: 06/2021
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Subject to modifications

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1 Dear Customer

Proficiency, innovation and quality combined. This is the tradition on which ÖkoFEN shapes the future. We are very pleased that you too have decided to purchase a product from ÖkoFEN.

- This manual is intended to help you operate the product safely, properly and economically.
- Please read this manual right through and take note of the safety warnings.
- Keep all documentation supplied with this unit in a safe place for future reference. Please pass on the documentation to the new user if you decide to part with the unit at a later date.
- Please contact your authorised dealer if you have any questions.

ÖkoFEN attaches great importance to the development of new products. Our R&D Department repeatedly challenges the effectiveness of tried-and-tested systems and works continuously on improvements. In this way, we secure our technological advantage. We have already received many national and international awards for our products.

All our products comply with European standards in respect of quality, efficiency and emissions.



2 Types of safety warning sign

The warning signs use the following symbols and texts.

Types of safety warning sign

1. Risk of injury
2. Consequences of risk
3. Avoiding risk

DANGER

Danger - indicates a situation that could lead to death or lifethreatening injury.

WARNING

Warning - indicates a situation that could lead life-threatening or serious injury.

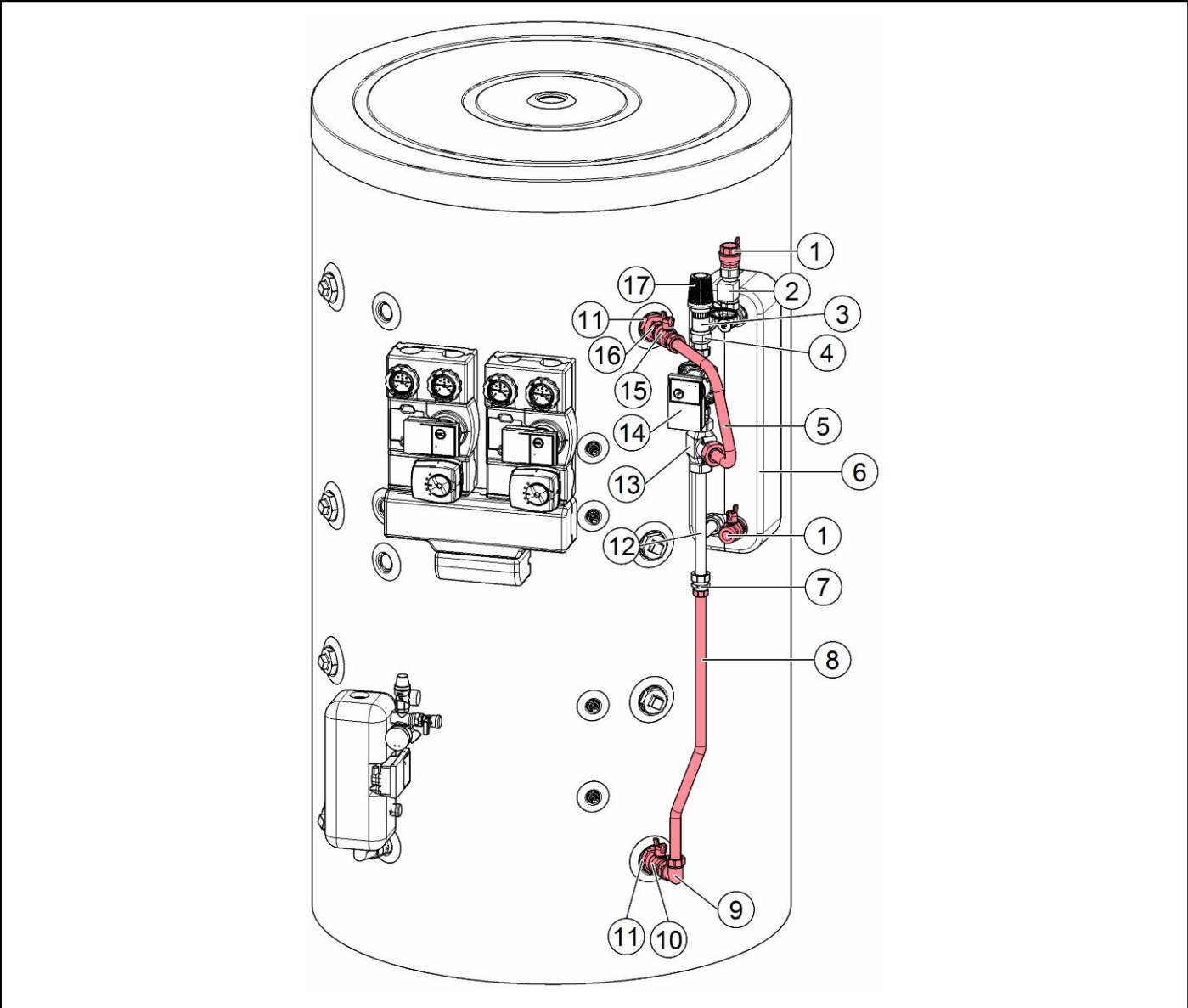
CAUTION

Caution - indicates a situation that could lead to injury.

NOTICE

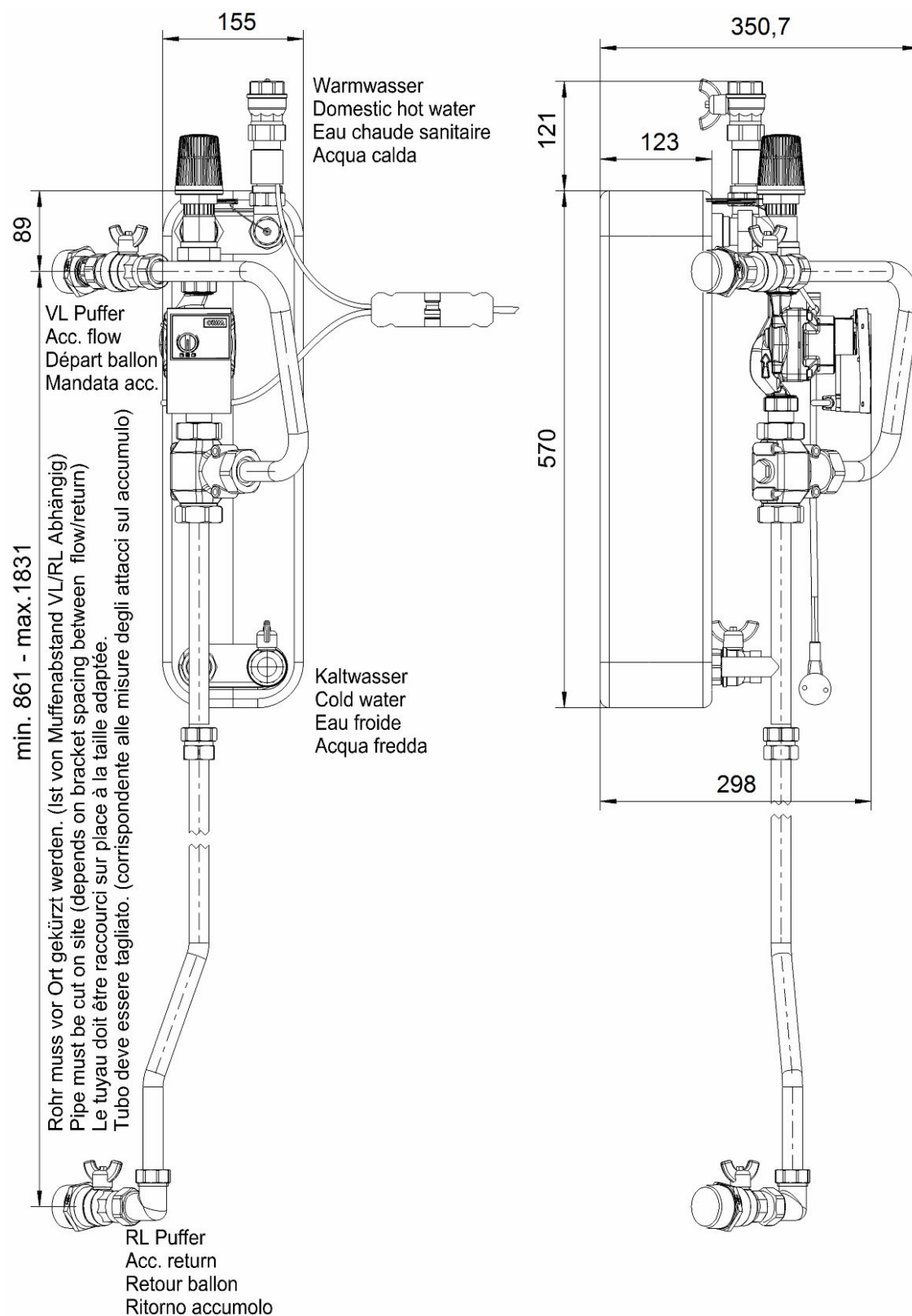
► indicates a situation that could lead to property damage.

3 Product Description



1*	Drinking water ball valve 1"	7*	Compression fitting Ø 22mm	13	Charging valve 60°C
2	Flow switch	8*	Return pipe	14	Boiler controlled pump
3	Angle valve	9*	Elbow	15*	Flow ball valve
4	Adapter coupling	10*	Return ball valve	16*	Transition piece
5*	Flow pipe	11*	Reduction R6/4" external thread — R1" internal thread	17	Thermostatic head with spiral immersion sensor
6	Plate heat exchanger – stainless steel with insulation	12	Return pipe T piece		

* Parts market with * are components of the connecting kit (Article no.: 80725), which must be ordered separately.

Dimensions:

4 Installing the Fresh water module

General mounting notes:

- Use a dirt trap or filter in the cool water supply and clean it regularly!
- The fresh water module must be mounted in such a way, that a subsequent exchange of components of the fresh water module is possible.

NOTICE

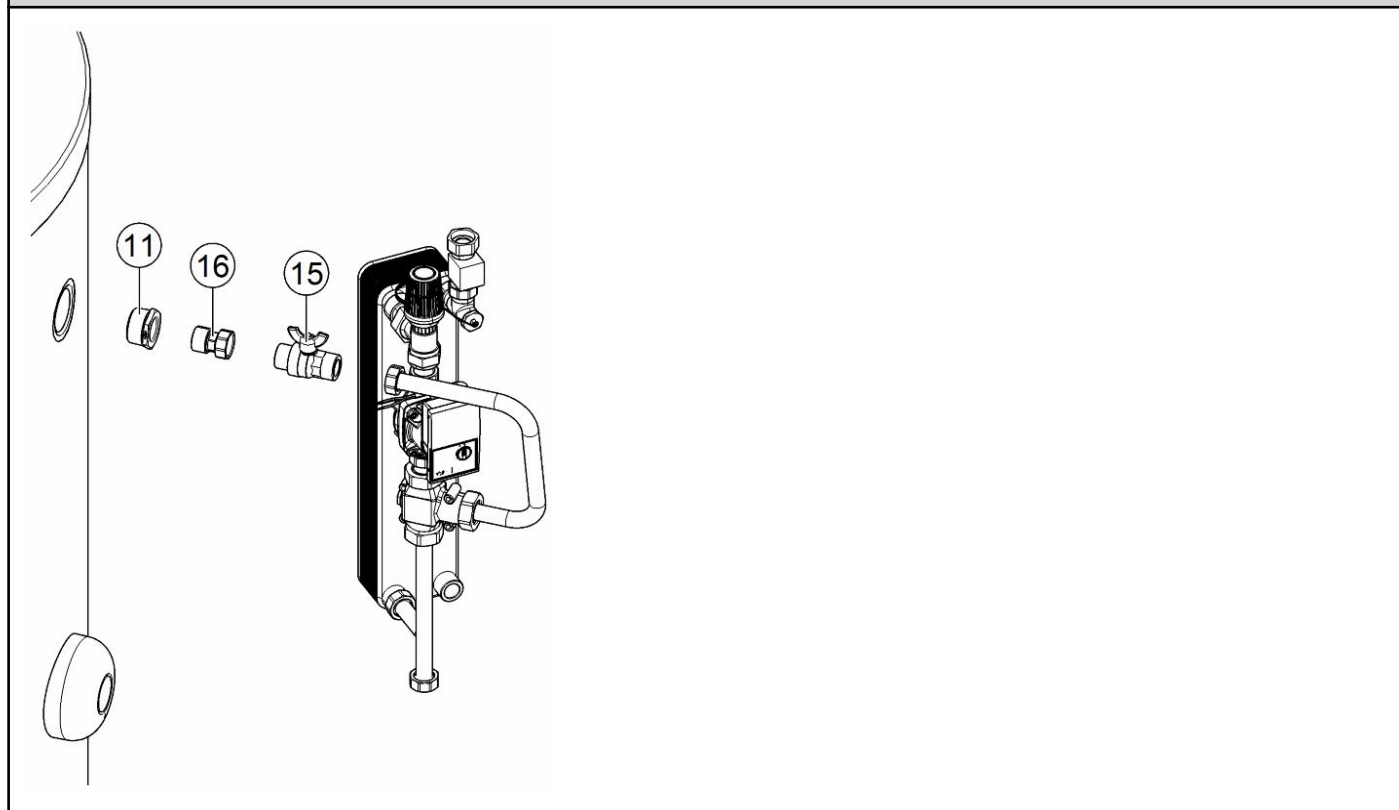
Don't forget the provided gaskets and use hemp!

NOTICE

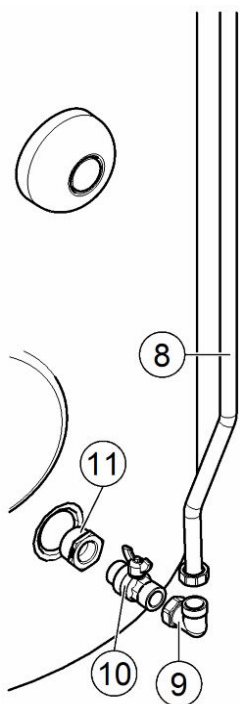
We recommend to install a hot water safety valve on the domestic hot water side!

Mounting steps:

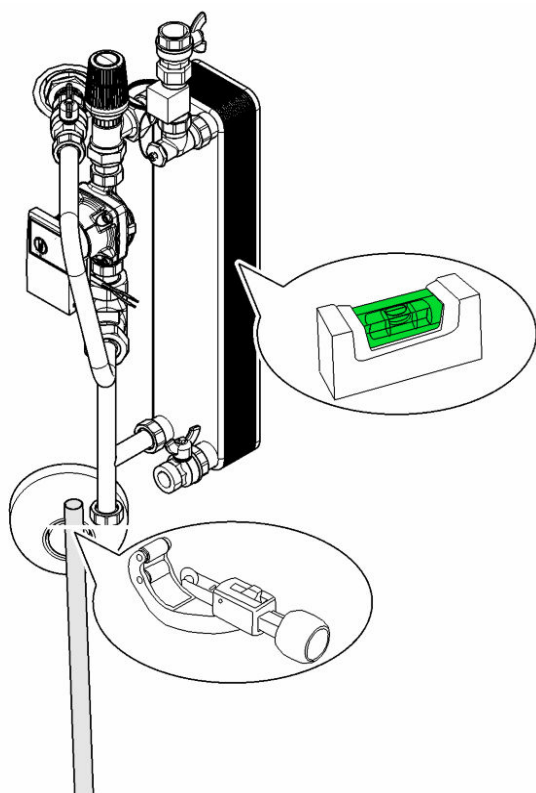
1. Assemble accumulator flow



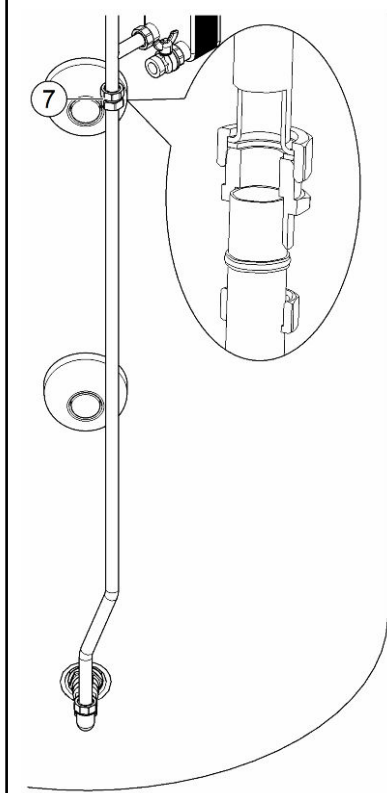
2. Assemble accumulator return



3. Cut return pipe



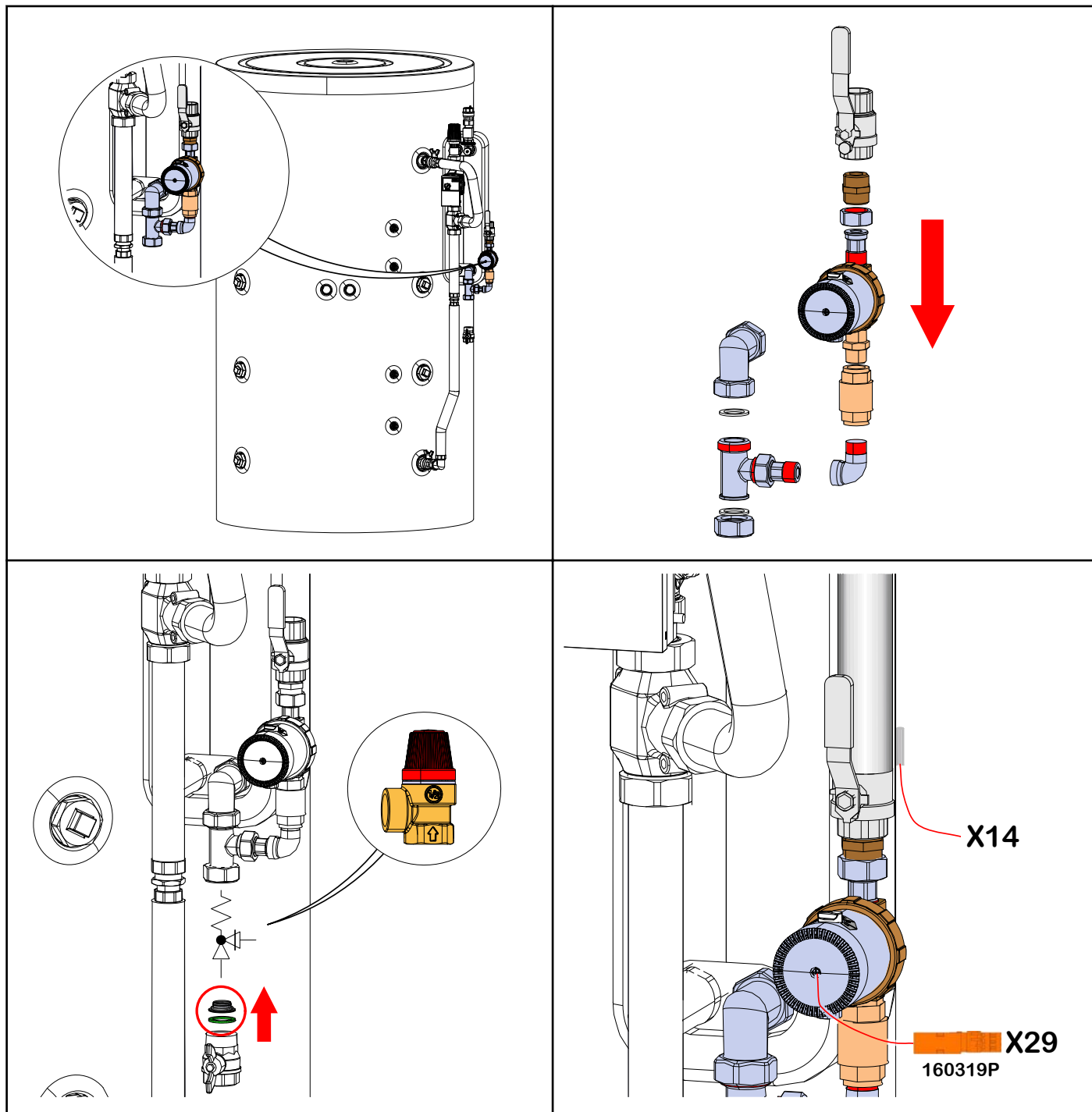
4. Assemble return pipe with compression fitting

**Before the start up of the fresh water module:**

- Fill and exhaust your accumulator.
- Test all connections for leaks.
- Heat the accumulator to the operating temperature to check the proper operation of the Fresh Water Module.

5 Hydraulic connection circulator

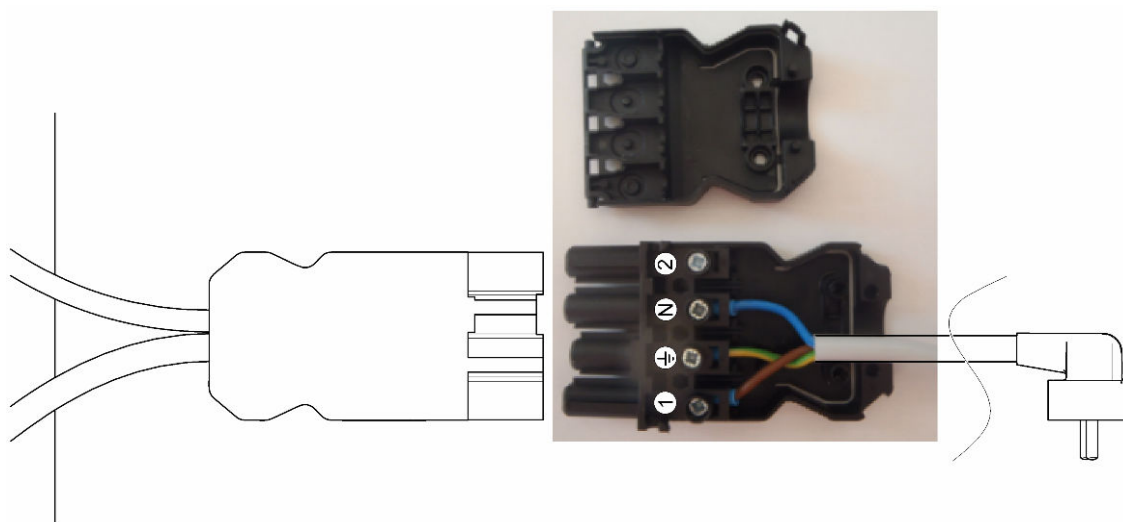
This unit must be installed on site in the piping. (see diagram)



NOTICE

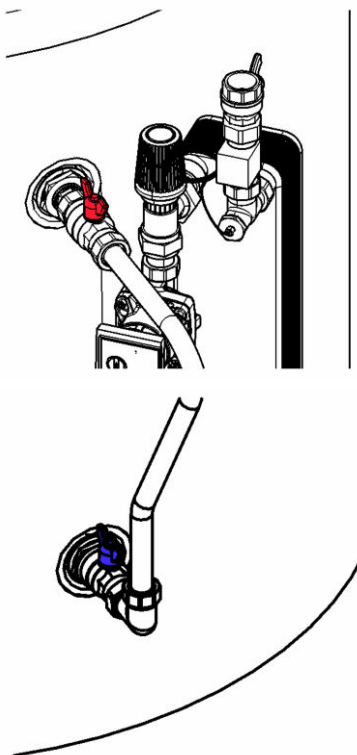
Safety valve and check valve are not included in the delivery and must be provided by the customer.

6 Electrical connection

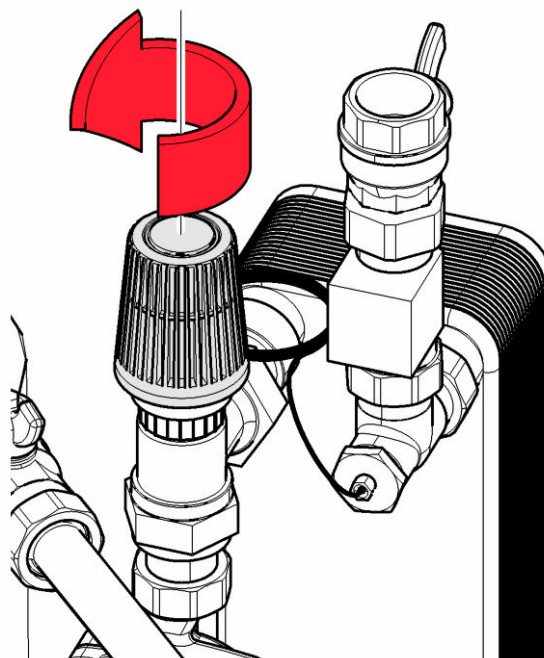


7 Starting up for the first time

1. Slowly open the stop-cock accumulator flow and accumulator return



2. Open the temperature regulating unit completely. (Turn to maximum number, e.g. 70)



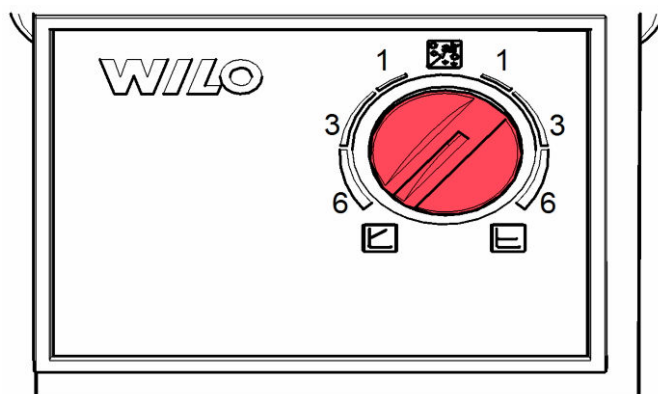
3. Adjustment circulation pump

Set to "Variable differential pressure"

Test for leaks!

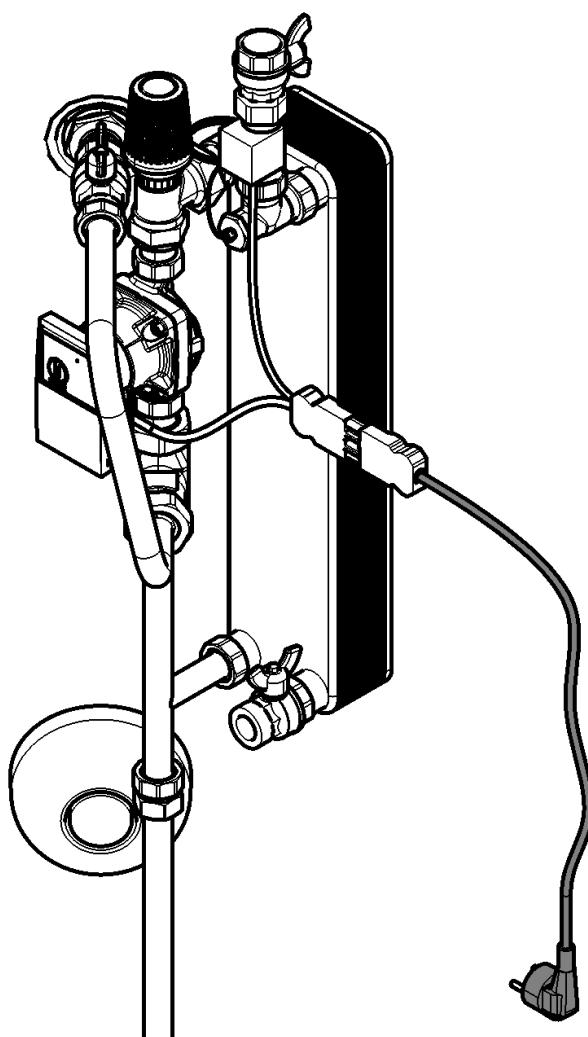
Damage of property

The pump must not run dry!



4. Scavenge the heat exchanger

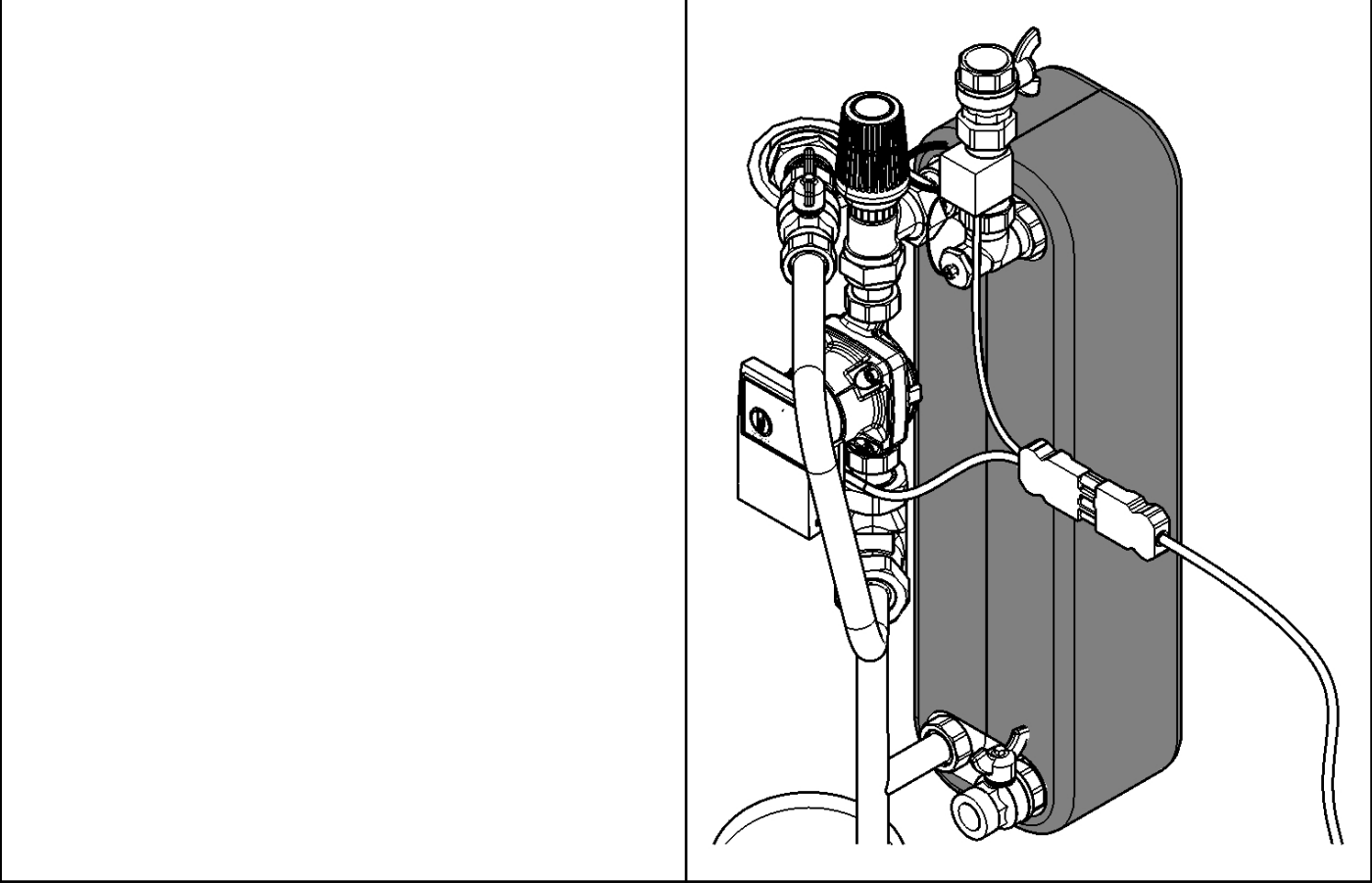
- Slowly open the cold water intake
- Connect the plug with the wall socket
- Tap water at least 1 minute. Open a hot water tap (e.g. in bathroom or kitchen)
- Don't tap water for 1 minute
- Tap water for 1 minute again



5. Adjust the temperature regulating unit to the desired temperature

- We recommend a temperature of about 50 °C

6. After completing points 1 - 5 and testing all compression couplings for leaks you can now assemble the cover hood.



7. Checklist:	
Are both circuits properly bled and purged?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Are all stop valves in the cold water line open?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Is there a pressure of 1.5 bar on the primary side?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Is there a pressure of min. 2,5 bar on the secondary side?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Is the primary pump set at level 6?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Your fresh water module is ready for use.	

8 Maintenance

Scavenge the plate heat exchanger 2-3 times a year.

- Therefore disconnect the freshwater module with the electric power supply
- Open the warm water tapping
- Let the water run several minutes

9 Malfunctions

Description:	Possible causes:		Fault correction (for technicians only):
Hot water temperature too low	Freshwater module is currentless	→	Check the power supply
	Too low set temperature on thermostatic head	→	Set the desired hot water temperature on thermostatic head.
	Accumulator temperature too low	→	Flow temperature has to be at least 60°C
	Too little pressure in the heating system	→	Exhaust the heating system
	Flow switch doesn't work	→	Check the electrical continuity of the flow switch contacts, while fresh water modul is unplugged. When hot water is withdrawn, the contact must be closed. When no hot water is withdrawn, the contact must be open. Replace the flow switch.
	Ball valve is closed (primary side)	→	Make sure the ball valves of the fresh water module are open.
	Circulation pump doesn't work	→	Check if pump is activated when warm water is withdrawn.
	Charging valve / angle valve defect	→	Let service your freshwater module by the manufacturer.
Hot water temperature too high	Too hight set temperature on thermostatic head	→	Set the desired hot water temperature on thermostatic head.
	Sensor / thermostatic head defect	→	Check if thermostatic head is screwed properly. Replace the thermostatic head.
Water pressure is too low	Ball valve is closed (secondary side)	→	Make sure the ball valves of the fresh water module are open.
	Heat exchanger is full of scale	→	Let service your freshwater module by the manufacturer
Permanent operation of the circulation pump	Flow switch is dirty or scale	→	Clean or change the flow switch.
	Mounting positon of flow swith isn't correct	→	Check if flow switch is mounted vertically.

10 Technical data

Max. Performance at the operating point A	25 l/min
Operating point A	10–45/65°C (domestic cold water - domestic hot water / flow)

Dimensions	
Width / Height / Depth	155 / 570 / 123 mm
Weight	17 kg
Cover	EPP - insulation jacket - 2 parts

Connections	with connection set	without connection set
Heating flow	R 6/4" AG	G 5/4" AG
Heating return	R 6/4" AG	G 1" IG
Cold water	1" IG	G 1" AG
Warm water	1" IG	G 1" IG
Max. sleeve distance acc. flow/acc. return	1840 mm (vertical))	
max. Operating pressure DHW side	6 bar	
max. Operating pressure Heating water side	3 bar	
max. Accumulator Temp.	90°C	
min. Accumulator Temp.	60°C at adjusted DHW- temperature 50°C	
Water temperature regulator	adjustable from 20°C - 60°C	

Pump data	
Charge Pump	230V, 50Hz, Wilo Yonos Para RS 25/6
Power	3 - 45 Watt
Current	0,028 – 0,44 A

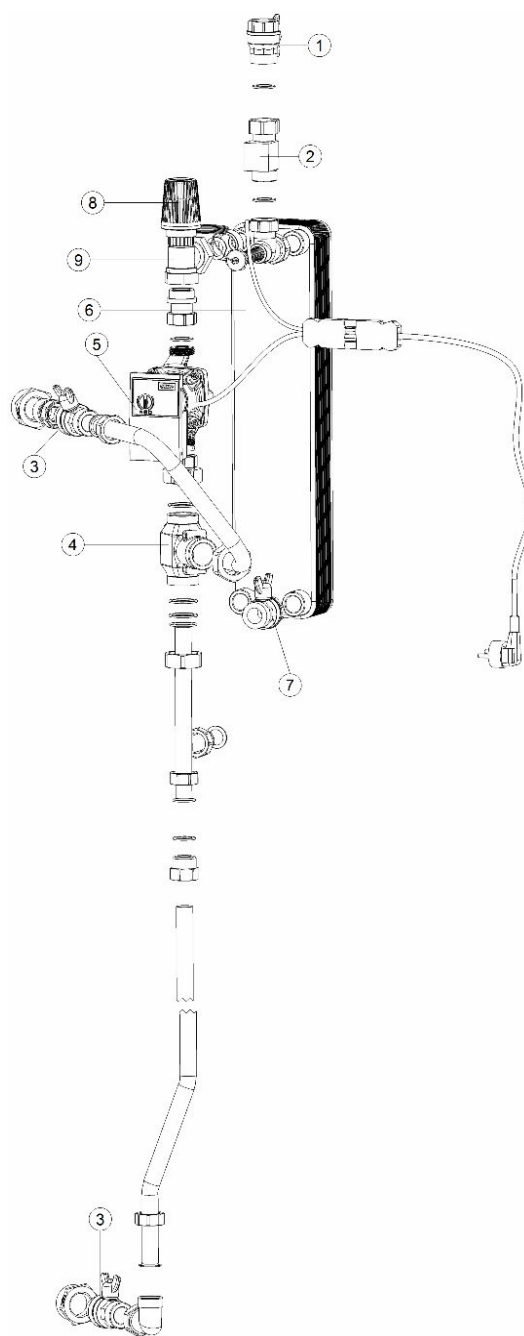


Information regarding the corrosive effect of water on soldered plate heat exchangers
 The soldered plate heat exchanger is made from stainless steel 316 or 304 and copper solder. In this case, the resistance of both stainless steel and copper must be considered. Particular attention must be paid to compliance with the values in the following table. In addition, mixed installations (**especially with galvanised pipes**) must be avoided.

pH	7 - 9	free chlorine	< 0,5 ppm
SO ₄	< 100 ppm	Fe ⁺⁺⁺	< 0,5 ppm
HC ₃ / SO ₄	> 1	Mn ⁺⁺⁺	< 0,5 ppm
Cl	< 50 ppm	CO ₂	< 10 ppm
PO ₄	< 2 ppm	H ₂ S	< 50 ppb
NH ₃	< 0,5 ppm	conductivity	> 50 µS/cm, < 600 µS/cm
Wall temperature	< 65 °C	oxygen	< 0,1 ppm
Total hardness	4,0 - 8,5 °dH		

All specified details are for information only and cannot be used as a basis for warranty claims. To prevent pitting below coverings, all types of incrustation and contamination must be avoided in the heat exchanger. Furthermore, the water flow rate and contamination with SO₂ and iron are relevant. The redox potential of the solution (a function of the oxidising compounds, such as oxygen, hypochlorous acid and sodium carbonate) must also be observed. In practice, the fresh water module shows up to a value of 15 ° d hardness high resistance to calcification. At higher values, a decalcification plant can reduce the maintenance interval significantly!

11 Spare parts



1	Drinking water ball valve 1"	80708	6	Plate heat exchanger	80713
2	Flow switch	80119-1	7	Angle valve	80702
3	Return/flow ball valve	80707	8	Thermostatic head with spiral immersion sensor	80715
4	Charging valve	80714	9	Drinking water ball valve 1"	80706
5	Boiler controlled pump Wilo Yonos Para RS15/6	80444-1	10	Insulation plate heat exchanger	80713-1

