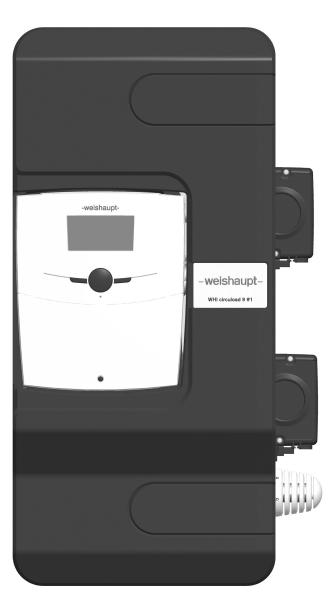
-weishaupt-

manual

Mounting and operating instructions



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1 Information for the user



1 Information for the user

These installation and operation instructions form part of the device and must be stored at the place of use.

Carefully read these instructions before installation and commissioning.

1.1 User guidance

1.1.1 Symbols

DANGER	Immediate danger of high risk. Non-observance will result in serious injuries or death.
WARNING	Danger of medium risk. Non-observance can lead to environmental damage, severe physical injuries or death.
CAUTION	Danger of low risk. Non-observance may result in property damage or slight to moderate injuries.
NOTICE	Important information.

1.1.2 Target group

This installation and operation manual is addressed to operators and qualified skilled personnel. It must be observed by anyone working on the machine.

Work on the machine may only be performed by persons that have received the required training or instruction.

Persons with restricted physical, sensory or mental abilities may work on the machine if supervised or instructed by an authorized person.

Children may not play with the machine.

1.2 Warranty and liability

Warranty and liability claims for personal and material damage are void if they are due to one or several of the following causes: Use of the machine contrary to its designated use, Non-observance of the installation and operation instructions,

Operation of the machine with non-operational safety or protective devices,

Continued use despite the presence of a defect,

Improper assembly, commissioning, operation and maintenance of the machine,

Unauthorised modification of the machine,

Installation of additional components that were not tested together with the machine,

Repairs carried out incorrectly,

Failure to use Weishaupt original parts,

Defects in the supply lines,

Force majeure.

2 Safety

2 Safety

2.1 Designated use

The circulation station must only be installed in heating stations between the buffer tank and the domestic water circuit. Due to its construction, it must only be installed and operated in a vertical position. The technical limit values specified in this instruction must be considered.

Use only original accessories in connection with the circulation station.

Using the station contrary to its designated use will invalidate all liability claims.

The wrapping materials are made of recyclable materials that can be recycled by standard recycling operations.

2.2 Safety instructions

The following must be observed during installation and commissioning:

- Relevant local and national regulations
- Accident prevention regulations of the employers' liability insurance association
- Instructions and safety instructions mentioned in these instructions

	Risk of burns!	
	The valves and fittings and the pumps can become heated up to more than 95 °C during operation.	
CAUTION	> The insulation shell must remain closed during operation.	
NOTICE	Material damage due to mineral oils!	
	Mineral oil products cause permanent damage in the material, resulting in its sealing characteristics getting lost. We cannot be held liable for damage caused by seals damaged in this way, and nor will we give warranty replacement for such parts.	
	 It is imperative to prevent the EPDM from making contact with substances containing mineral oils. 	
	 Use a silicone- or polyalkylene-based lubricant free of mineral oil such as Unisilikon L250L and Syntheso Glep 1 from Klüber or a silicone spray. 	
NOTICE	Malfunctions!	
	The circulation station must be integrated into the potential equalisation of the electrical installation. If this is not guaranteed by the connected pipework then establish a correct potential equalisation connection to the main potential connection.	

2 Safety

2.3 Safety measures

Immediately eliminate safety-relevant defects and replace safety-relevant components when they have reached the end of their service life due to their construction.

2.4 Electrical connection

When performing any work on live parts: Observe the accident prevention regulations BGV A3 and local regulations, Use tools according to EN 60900.

2.5 Structural modifications

Conversion measures are only allowed after prior approval in writing by the Max Weishaupt GmbH. Additional components may only be installed if they were not tested together with the machine. Use only Weishaupt original parts.

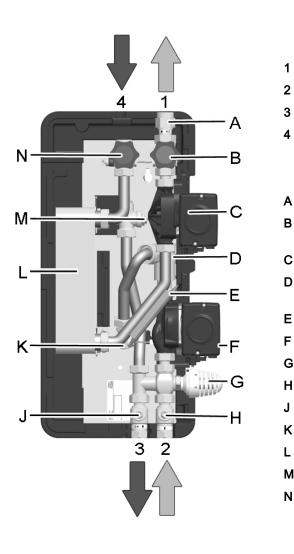
2.6 Disposal

Dispose of the materials used properly and in an environmentally compatible manner. In doing so, observe local regulations.

3 Product description

The circulation station is a pre-assembled group of valves and fittings checked for leaks for transferring the heat between the buffer tank and domestic water circuit. It contains a preset controller as well as important fittings for operating the system:

- Ball valves in the primary circuit
- Piston valves in the secondary circuit
- Pre-assembled controller
- Temperature sensors at the circulation inlet, the circulation outlet and on the heating return
- FlowRotor with Hall sensor and temperature sensor on the heating supply (only WHI circuload 9 #2 and #4)
- Lockable primary pump
- Vent plug on the heat exchanger
- Thermal mixing valve for limiting the circulation temperature



Connections

Secondary side: circulation outlet

- Primary side: supply from buffer tank
- Primary side: return to buffer tank
- Secondary side: circulation inlet

Equipment

Check valve

Piston valve with temperature sensor (circulation outlet)

- Secondary pump
- FlowRotor with Hall sensor (only WHI circuload 9 #2 and #4)
- Strap-on sensor for thermostat controller
- Primary pump
- Thermostat controller
- Ball valve
- Ball valve with check valve
- Temperature sensor (only WHI circuload 9 #2 and #4)
- Heat exchanger
- Temperature sensor
- Piston valve with temperature sensor (circulation inlet)

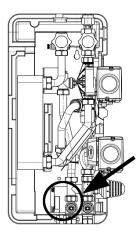
3.1 Function

The WHI circuload 9 circulation stations are used in domestic water networks in order to cover the loss of heat of the circulation line from a heat storage device using a heat exchanger.

WHI circuload modules are integrated into the domestic water system parallel to the WHI freshaqua or WHI load modules. The direct supply of the modules with hot water from the buffer tank guarantees an energy and cost-optimised operation of the circulation system.

The return line of the circuload modules can be integrated into the buffer tank / tanks independent of the return line of the WHI freshaqua or WHI load modules. A mixture of hot and cold water is therefore reduced to a minimum so that the degree of utilisation of the entire system improves compared with systems without separate circulation module.

The WHI circuload 9 #2 and #4 module is also equipped with a heat flow meter in the heating circuit in order to allow for a simple balancing of the energy required.



3.2 Serial number

The serial number on the type plate clearly identifies each product. The serial number is necessary for the Weishaupt after-sales service. In case of a complaint, please send us the serial number of the product concerned and the completed commissioning report (see page 26). The serial number is placed in the lower right corner of the support sheet of the station.

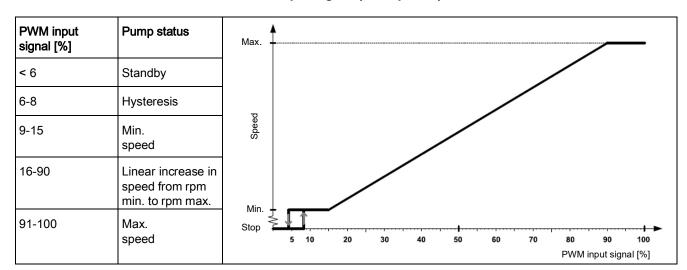
Serial number:

3.3 Technical data of the circulation stations

Dimensions	WHI circuload 9 #1 and #3	WHI circuload 9 #2 and #4
Total height	645 mm	
Total width	358	mm
Total depth	255	mm
Centre distance, top	81	nm
Centre distance, bottom	50 -	nm
Primary pipe connection (storage tank circuit)	G ¾" fem:	ale thread
Secondary pipe connection (WHI circuload)	G 1" male thre	ad, flat sealing
Operating data		
Max. admissible pressure	primary: 6 bars, s	econdary: 10 bars
Operating temperature	2 – 9	5 °C
Max. power Q _{max}	9 kW at Flow _{prim.}	65° / DHW _{sec.} 60°
Flow rate at Q _{max}	primary: 900 l/h, s	econdary: 1550 l/h
Operating temperature sensors	-25 °C to	+120 °C
Equipment		
Primary pump	High-efficiency pump with PWM control, 3-70 W	
Secondary pump	High-efficiency pump with PWM control, 3-70 W	
Heat exchanger	30 plates	
Flow rate sensor	/	Primary: FlowRotor, measuring range: 2-50 l/min, 55 pulses/litre
Temperature sensor	Prim.: 1 x NTC 5K, sec.: 2 x NTC 5K	primary / secondary: 2 x NTC 5K each
	primary: 1 x 200 mm wc, can be opened	
Check valve (in the ball valve)	secondary: 1 x 200 mm wc	
Material		
Valves and fittings	Bra	ass
Seals: O-ring EPDM		DM
Flat sealing	AFM 34/2, free of asbestos	
Check valves	Hostaform	
Pipes	1.4401 (AISI 316)	
Insulation	EPP, λ = 0.038 W/(m K), fire class B2	
Heat exchanger with copper soldering (WHI circuload 9 #1 and #2)	Plates + connecting pieces: 1.4401 (AISI 316) Solder: 99.99% pure copper	
Heat exchanger with nickel soldering (WHI circuload 9 #3 and #4)	Plates + connecting pieces: 1.4401 (AISI 316) Solder: 99.99% nickel	
Admissible medium (WHI circuload 9 #1 and #2)	primary: heating water according to VDI 2035 / Ö-Norm H 5195-1 secondary: domestic water with a max. chloride content: ≤ 80 ppm	
Admissible medium (WHI circuload 9 #3 and #4)	primary: heating water according to VDI 2035 / Ö-Norm H 5195-1 secondary: domestic water with a max. chloride content: ≤ 300 ppm	

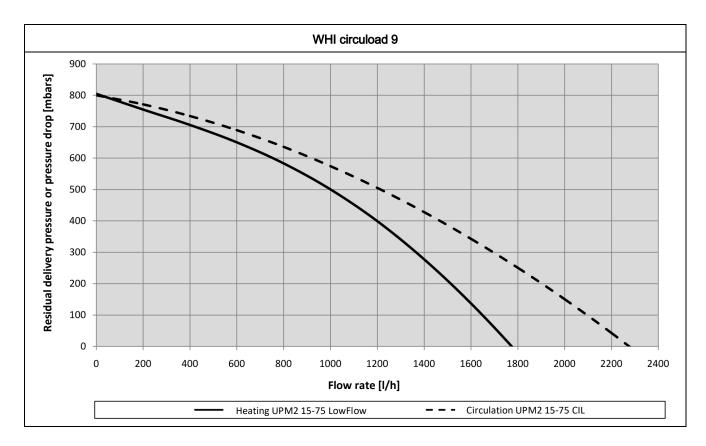
3.4 Technical Data Pumps

	Grundfos UPM2 15-75 LowFlow	Grundfos UPM2 15-75 CIL
Length	130 m	ım
Connections	1" male t	hread
Protection class	IP 44	4
Max. pressure	1.0 MPa (=	10 bars)
Max. temperature	95 °C T	F 95
l (1/1)	0.04-0.52 A	
P1	3-70 W	
Use in		
WHI circuload 9 #1 and #3	Prim	Sec
WHI circuload 9 #2 and #4	Prim	Sec



3.5 PWM input signal (solar profile)

3.6 Hydraulilc performance data



4 Dimensioning and Planning

4 Dimensioning and Planning

The WHI circuload is a circulation station that heats the domestic water according to the continuous flow heater principle.

For the perfect function of the circulation station, the system must fulfil certain requirements. Take a little time for the planning before the assembly.

The WHI circuload stations in the following table differ in the soldering material used for the plate heat exchangers.

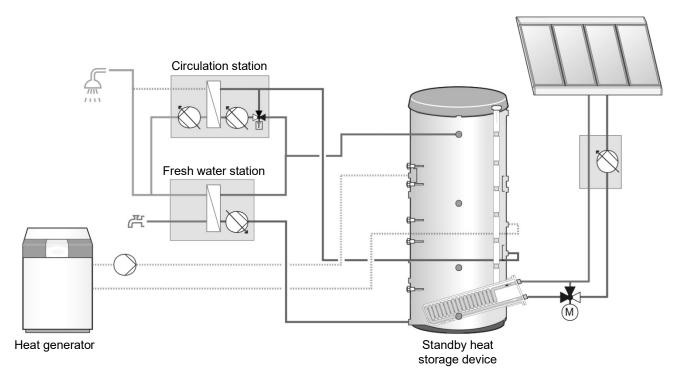
The choice of the heat exchanger depends on the requirements of the installation location. Depending on the chemical composition of the water on the installation location, an appropriate plate heat exchanger must be chosen. Please observe the following table:

	Heat exchanger with copper soldering	Heat exchanger with nickel soldering
Maximum chloride content in the potable water	≤ 80 ppm	≤ 300 ppm
pH value	7.0 - 9.0	No limitation
Conductivity	≤ 500 µS/cm	No limitation
Zinc-galvanised piping	Unsuitable	Suitable
Maximum pressure at 95 °C	17 bars	12 bars
Plate material	1.4401 (/	AISI 316)

Overview of the WHI circuload stations and the integrated heat exchangers:

Circulation station	-w- Part number	Soldering material of the heat exchanger
WHI circuload 9 #1	40900015152	Copper
WHI circuload 9 #2	40900015162	Copper
WHI circuload 9 #3	40900019062	Nickel
WHI circuload 9 #4	40900019072	Nickel

4 Dimensioning and Planning



Assembly example 1: circulation station from standby buffer

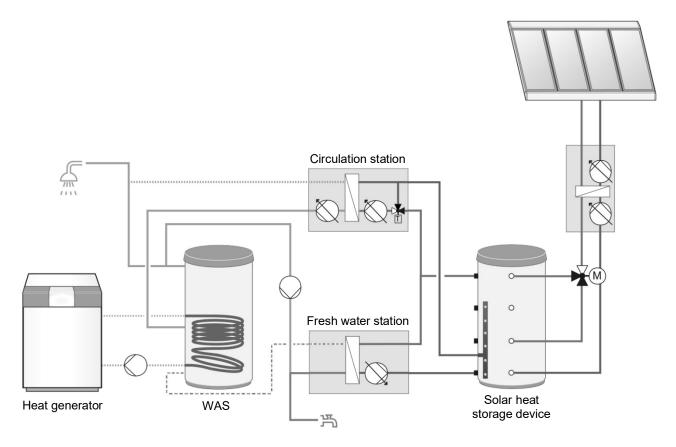
When using the WHI circuload in combination with a standby buffer, hydraulic version 38 must be set in the controller.

Please note:

Due to their construction, the WHI circuload modules reduce the precipitation of scale in the heat exchanger. For systems with a high total domestic water hardness and/or high temperatures, a water treatment is recommended, in order to prevent scale formation.

4 Dimensioning and Planning

Assembly example 2: circulation station from pre-heat buffer



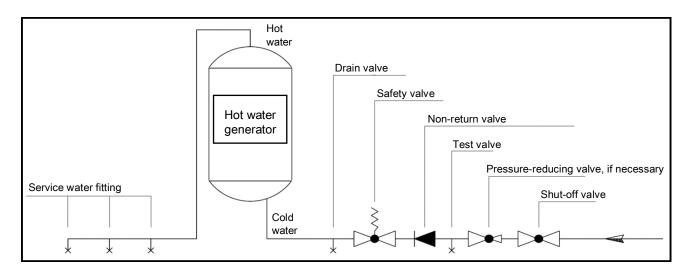
The circulation stations are preset in the factory for using the pre-heat buffer (hydraulic version 39 on the controller).

You can obtain further information on this in the enclosed controller manual or the planning documents for large solar systems.

5 Installation

5 Installation

The domestic water connection must be carried out according to the relevant standards (e.g., DIN 1988)!

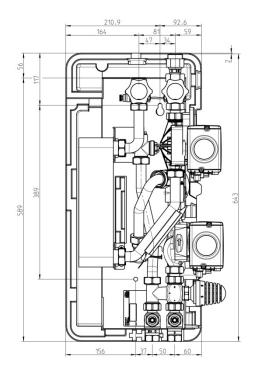


NOTICE	Material damage!	
	The safety valve integrated into the station does not replace the safety equipment of the domestic water connection according to DIN 1988.	
	The safety valve merely protects the station from excess pressures when maintenance is required.	

5.1 Assembly

	-	
\mathbf{A}	Risk to life and limb due to electric shock!	
<u>/!</u>	 Prior to performing electrical work on the controller, de-energise the system. 	
WARNING	For more information, see enclosed installation and operation instructions of the station controller.	
	Connect the circulation station to the power supply sys- tem (230 V, 50 Hz) only after completing all installation tasks, filling and flushing. This avoids an unintentional start of the motors.	
NOTICE	Material damage!	
	In order to avoid damaging the system, the installation site must be dry, structurally safe and frost-free.	
	Furthermore, access to the closed-loop control and safety equipment must be guaranteed at all times during operation!	
	If tapping points are connected to the same network as the circulation station, in which pressure surges are possible (e.g., flushing valves, washing machines or dishwashers), we recommend the installation of water hammer dampers near the device causing the pressure surges.	

5 Installation



- 1. Determine the installation location of the circulation station near to the buffer tank. With longer connecting lines, the transfer capacity is reduced due to higher pressure losses.
- Transfer the dimensions for the drill holes onto the wall. 2.
- 3. Drill holes and insert the enclosed wall plugs. Make sure that the ground has sufficient load-carrying capacity.
- Screw in the top screw into the plug until about 40 mm protrudes 4. from the wall.
- 5. Pull off the front shell.
- 6. Hang the circulation station on the screws and insert the screws at the bottom. Tighten the screws so that the insulation on the sides rest against the wall.

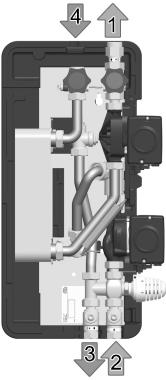
5.2 Connection

2

3

4

Pipe the circulation station with the system according to the diagram below.



Pipe gap from the wall (secondary) = 107 mm

Pipe gap from the wall (primary) = 67 mm

1 Secondary side: circulation outlet connection 1" male thread, flat sealing

- Primary side: supply from buffer tank, ³/₄" female thread, piping minimum DN 20, 22 x 1 mm, recommended DN 25, 28 x 1.5 mm
- Primary side: return to buffer tank, ³/₄" female thread, piping minimum DN 20, 22 x 1 mm, recommended DN 25, 28 x 1.5 mm
- Secondary side: circulation inlet connection 1" male thread, flat sealing

5.3 Controller connection

Â	Risk to	life and limb due to electric shock!
/!\	>	Prior to performing electrical work on the controller, de-energise the system.
WARNING		For more information, see enclosed installation and operation instructions of the station controller.
	4	Connect the circulation station to the power supply system (230 V, 50 Hz) only after completing all installation work, filling and flushing. This avoids an unintentional start of the motors.

The circulation station is pre-wired in the factory.

Terminal	Acronym	Description	Execution
L/N	230V	Mains connection 230 V	on site
1/N	PZWP	Primary circuit pump	prewired
2/N	PZW	Secondary circuit pump	prewired
11/ ^上	TZW	Secondary circuit return sensor	prewired
12/ ^上	TZWA	Secondary circuit flow sensor	prewired
16/ [⊥] *	TO1	Heat source temperature	on site
17/ ^上	PWM2	PWM control signal for secondary pump	prewired
18/ ^上	PWM1	PWM control signal for primary pump	prewired
19/ ^上	TPR	Primary circuit return sensor	prewired
20/ [⊥] **	TPV	Primary circuit flow sensor	prewired
21/25/ ^上 **	V1	Volume pulse input collector loop	prewired

5.4 Electrical connection of the solar controller WRSol2.1

* required when using the WHI circuload in combination with a pre-heat buffer (hydraulic version 39).

** only with WHI circuload 9 #2 and #4

6 Operation

A detailed description of the operation of the controller can be found in the enclosed controller manual.

Solar controller WRSol 2.1 pre-settings

- Hydraulic version 39
- eBUS address 3
- Heat flow meter option (with WHI circuload 9 #2 and #4)
- Pulse rate 55 pulses/litre (with WHI circuload 9 #2 and #4)

7 Commissioning

Observe the following safety instructions regarding the commissioning of the station:

Note!	
Open the valves in the lines and in the module slowly in order to avoid pressure surges.	

Check valve operation

The primary circuit is equipped with a check valve in ball valve (J) in order to prevent undesired gravity circulation.

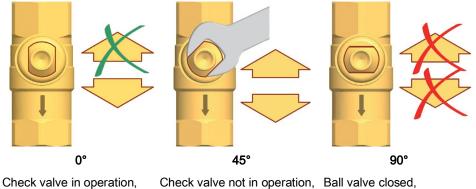
The check valve must be opened for venting and flushing the system. For this purpose turn ball valve (J) to position **45°**. The check valve is not in operation.

All ball valves and valves must be opened **completely** for operating the system (position **0**°).

Ball valve with integrated check valve

flow in flow direction only.

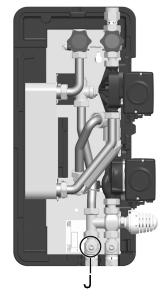
(Normal direction of flow in the picture: downstream)



no flow.

flow in both directions.

To actuate the ball valve, a handle is included in the delivery.



7.1 Filling the primary circuit



Risk of scalding from hot water!

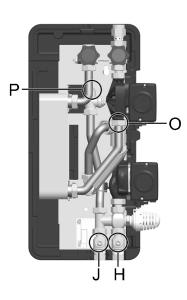
The system is under pressure. When opening the manual air vent, water up to 90 °C may escape at the manual air vent that could lead to personal injury.

> Open the manual air vent slowly and at a safe distance.

With (partially) filled tank

During the filling and flushing of the circulation station, air can be vented using the manual air vents (O) and (P).

- 1. Open ball valves (H) and (J) slowly by turning them to the **45°** position.
- 2. Carefully open the manual air vents (O) and (P) using a square key and allow the air to escape.
- 3. Close manual air vents (O) and (P).
- 4. After venting, check the operating pressure of the primary circuit and, where necessary, increase the pressure.
- 5. Open ball valves (H) and (J) completely by turning them to the **0°** position.



7.2 Commissioning the controller

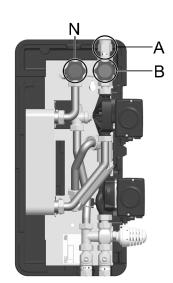
\mathbf{A}	Risk to life and limb due to electric shock!		
WARNING	 Check whether the sensors and pumps have been connected to the controller and the controller housing is closed. Do not apply voltage to the controller before that. 		

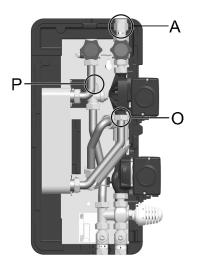
A detailed description of the commissioning of the controller can be found in the enclosed controller manual.

- 1. Makes sure that the circulation station is integrated correctly into the potential equalisation of the system.
- 2. Slowly open the piston valves on the secondary side (B) and (N).
- Connect the circulation station to the power supply system (230 V, 50 Hz). The circulation station is pre-set in the factory for operation in combination with a pre-heat buffer (hydraulic version 39). The pre-setting must be adapted according to the system depending on the application.
- 4. Carefully open and close the venting device on the check valve (A).
- Select the manual mode for the secondary pump in the selection menu of the controller (see controller manual).
 Switch on the PWM signal of the secondary pump ("100 %").
- 6. Allow the secondary pump to run for 3 minutes.
- 7. During this time, vent the circulation station several times on the vent plug of the check valve (A).
- 8. When you no longer hear any air noises, switch off the secondary pump.

7.3 Venting the circulation station

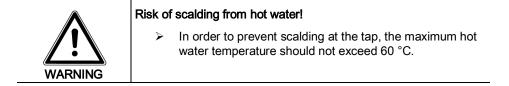
- 1. Allow the primary and secondary pumps to run for several minutes in manual mode.
- 2. Vent the primary side carefully via the manual air vents (O) ans (P).
- 3. Vent the secondary side carefully via the vent valve on the check valve (A).
- 4. After venting, check the operating pressure of the tank and, where necessary, increase the pressure.
- 5. Set the controller to automatic mode.
- 6. Check the station for leaks and set the desired temperature on the controller (see following chapter).
- 7. The circulation station is now ready for operation.





7.4 Setting the temperature

The desired (maximum) circulation temperature can be set on the thermostat controller.



The thermostat controller is infinitely variable. When delivered, a flow temperature of approx. 60 °C is pre-set. If, for example, the temperature at the circulation outlet is too high, the supply temperature can be regulated down on the thermostat controller.

The following table gives an overview of the thermostat controller setting range:

Setting range on the thermostat controller	Circulation temperature	
5	~50 °C	
6	~60 °C	
7	~70 °C	

7.5 Setting the pump revolution speed

In order to increase the energy efficiency of the circulation station, the revolution speed of the pumps must be adapted to the system-specific conditions (pressure drop in the pipework). See the controller manual as to how the revolution speed is adapted in the controller.

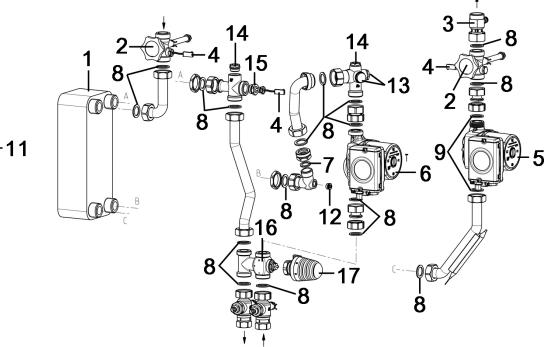
8 Maintenance

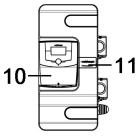
The WHI circuload modules are low in maintenance. However, as part of the annual inspection of the domestic water system, the following items should be checked/observed:

- Check all connections for leaks
- Check the safety equipment
- Perform a functional check and check the setting parameters
- Plausibility check of the control parameters and nominal values
- Check the heat exchanger for dirt and functioning

We recommend concluding a maintenance agreement.

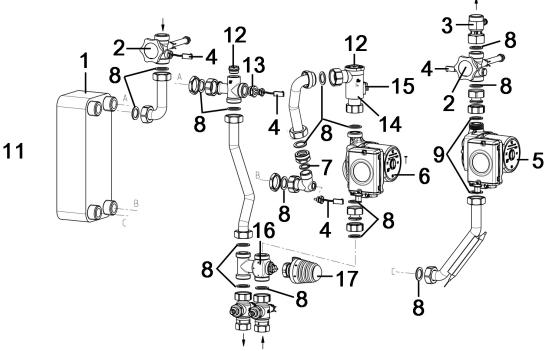
- 9 Spare parts
- 9.1 Spare parts list WHI circuload 9 #1 (40900015152) and WHI circuload 9 #3 (40900019062)

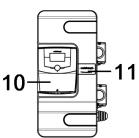




Position number	Spare part	-w-Part number
	Plate heat exchanger Swep IC10T/30 (for WHI circuload 9 #1)	40900015387
1	Plate heat exchanger Swep B10/30-1P Ni (for WHI circuload 9 #3)	40900019117
2	Piston valve DN 20 G1A with drain	40900015092
3	Non return valve DN 20 G1FI.xG1A	40900015227
4	Temperature sensor NTC 5K G¼A	40900015027
5	Circulation pump UPM2 15-75 CIL	40900019342
6	Circulation pump UPM2 15-75 LowFlow	40900019362
7	Seal 17 x 24 x 2 (¾") AFM34/2	40900021107
8	Seal 21 x 30 x 2 (1") AFM34/2	40900021117
9	Seal 21 x 30 x 2 (1") EPDM 90	40900015167
10	Solar controller WRSol 2.1 V2.0	660327
	Name plate WHI circuload 9 #1	40900015407
11	Name plate WHI circuload 9 #3	40900019067
12	Closing plug with O ring G1/4A	40900015107
13	Cover screw G1⁄2A	40900015257
14	Bleed plug G1⁄2A	40900015277
15	Reducing piece G½A x G¼I	40900015267
16	Three way valve DN 20 Kvs 5.0 G1A / PN16	40900015367
17	Thermostatic head for three way valve 40-70 °C, white, M30x1.5	40900015377
	Seal 38 x 50 x 2 (1¾") AFM34/2	40900021157
	Thermo handle -weishaupt-	48002003132
	Temperature sensor NTC 5K ZTF 222.2	660228
N I (1) - 1) - 1	Connection cable 2500 mm for Hall sensor	48002003127
Not shown in drawing	Connection cable PWM 2500 mm long	48002002617
	Pump cable 3 x 0.75 2500 mm long	48002002607
	Plug cable temperature sensor 2500 mm	40900015037
	Outlet valve with O ring G¼A	40900015097

9.2 Spare parts list WHI circuload 9 #2 (40900015162) and WHI circuload 9 #4 (40900019072)





Position number	Spare part	-w-Part number
	Plate heat exchanger Swep IC10T/30 (for WHI circuload 9 #2)	40900015387
1	Plate heat exchanger Swep B10/30-1P Ni (for WHI circuload 9 #4)	40900019117
2	Piston valve DN 20 G1A with drain	40900015092
3	Non return valve DN 20 G1FI.xG1A	40900015227
4	Temperature sensor NTC 5K G¼A	40900015027
5	Circulation pump UPM2 15-75 CIL	40900019342
6	Circulation pump UPM2 15-75 LowFlow	40900019362
7	Seal 17 x 24 x 2 (¾") AFM34/2	40900021107
8	Seal 21 x 30 x 2 (1") AFM34/2	40900021117
9	Seal 21 x 30 x 2 (1") EPDM 90	40900015167
10	Solar controller WRSol 2.1 V2.0	660327
	Name plate WHI circuload 9 #2	40900015417
11	Name plate WHI circuload 9 #4	40900019077
12	Bleed plug G1/2A	40900015277
13	Reducing piece G ¹ ⁄ ₂ A x G ¹ ⁄ ₄ I	40900015267
14	FlowRotor DN 25 90 degrees, impulse meter 2-50 l/min	40900015572
15	Hall sensor with LED connection cable	48002002867
16	Three way valve DN 20 Kvs 5.0 G1A / PN16	40900015367
17	Thermostatic head for three way valve 40-70 °C, white, M30x1.5	40900015377
	Seal 38 x 50 x 2 (1¾") AFM34/2	40900021157
	Thermo handle -weishaupt-	48002003132
	Closing plug with O ring G¼A	40900015107
	Temperature sensor NTC 5K ZTF 222.2	660228
Not shown in drawing	Connection cable 2500 mm for Hall sensor	48002003127
	Connection cable PWM 2500 mm long	48002002617
	Pump cable 3 x 0.75 2500 mm long	48002002607
	Plug cable temperature sensor 2500 mm	40900015037
	Outlet valve with O ring G¼A	40900015097

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10 Commissioning log

10 Commissioning log

System operator				
System site				
Serial numbers:				
WHI circuload 9				
Controller				
Software version				
Primary pipeline	Ø =	mm	=	m
Secondary pipeline	Ø =	mm	=	m
Other installations	□			
Have both circuits been correctly flush (No air sounds in the pump)	ed and vented?			Vented
Are all shut-off fittings open in the cold	water and storag	ge lines?		Open
Is there a minimum pressure of 1.5 ba	rs available on th	e primary side?		Checked
Is there a minimum pressure of 2.5 bars available on the secondary side?				Checked
Is a fault message shown on the displa	ay?			No message
Setting of the thermal mixing valve:				

Installation company

Date, Signature

11 Notes

11 Notes

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Change of legal form from 22.11.2024: Max Weishaupt SE Max Weishaupt GmbH · 88475 Schwendi

Weishaupt close by? Addresses, telephone numbers etc. can be found at www.weishaupt.de

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The complete program: Reliable technology and prompt, professional service

W Burners up to 570 kW The compact burners, proven millions of times over, are economical and reliable. Available as gas, oil and dual fuel burners for domestic and commercial applications. The purflam® burner version with special mixing head gives almost soot-free combustion of oil with greatly reduced NOx emissions.	Wall-hung condensing boilers for gas up to 240 kW The wall-hung condensing boilers WTC-GW have been developed to meet the highest demands in ease of operation and efficiency. Modulating operation means these units operate quietly and economically.	
monarch [®] WM Burners and Industrial Burners up to 11,700 kW These legendary industrial burners are durable and versatile. Numerous variations of oil, gas and dual fuel burners meet a wide range of applications and capacity requirements.	Floor-standing condensing boilers for oil and gas up to 1,200 kW The floor-standing condensing boilers WTC-GB (up to 300 kW) and WTC-OB (up to 45 kW) are efficient, low in pollutants and versatile in use. Even the largest capacities can be covered by cascading up to four gas condensing boilers.	
WKmono 80 Burners up to 17,000 kW	Solar systems	
The WKmono 80 burners are the most powerful monoblock burners from Weishaupt. They are available as oil, gas or dual fuel burners and are designed for tough industrial application.	The stylish flat-plate collectors are the ideal complement for any Weishaupt heating system. They are suitable for solar water heating and for combined heating support. With versions for on-roof, in-roof and flat roof installations, solar energy can be utilised on almost any roof.	
WK Burners up to 32,000 kW	Water heaters/Energy storage	-
These industrial burners of modular construction are adaptable, robust and powerful. Even on the toughest industrial applications these oil, gas and dual fuel burners operate reliably.	The diverse program of potable water and energy storage for various heat sources includes storage volumes of 70 to 3,000 litres. In order to minimize storage losses, potable water cylinders from 140 to 500 litres are available with highly efficient insulation using vacuum insulation panels.	
MCR Technology / Building Automation	Heat pumps up to 180 kW	
from Neuberger From control panels to complete building man- agement systems - at Weishaupt you can find the entire spectrum of modern control technology. Future orientated, economical and flexible.	The heat pump range offers solutions for the utilisation of heat from the air, the soil or ground water. Some systems are also suitable for cooling buildings.	
Service	Goothormal probo drilling	
Service Weishaupt customers can be assured that specialist knowledge and tools are available whenever they are needed. Our service engineers are fully qualified and have extensive product knowledge, be it for burners, heat pumps, condensing boilers or solar collectors.	Geothermal probe drilling With its daughter company, BauGrund Süd, Weishaupt also offers geothermal probe and well drilling. With the experience of more than 10,000 systems and more than 2 million meters of drilling, BauGrund Süd offers a comprehensive service program.	