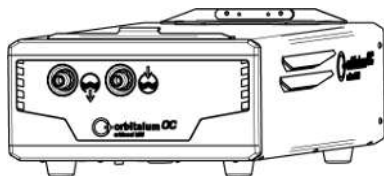


# ORBICOOL MW

## en Liquid cooling unit

Translation of original operating instructions and spare parts list



854 060 250 REV 00 | 2309



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# 1 About these instructions

## 1.1 Warning messages

The warnings used in these instructions warn you of injuries or damage to property.

Always read and observe these warnings!



This is a warning icon. It warns against dangers of injury. In order to avoid injuries or death observe the measures marked with a safety sign.

---

### WARNING LEVEL MEANING

	<b>DANGER</b>	Imminently hazardous situation that results in death or serious injuries if the safety measures are not observed.
	<b>WARNING</b>	Potentially hazardous situation that may result in death or serious injuries if the safety measures are not observed.
	<b>CAUTION</b>	Potentially hazardous situation that may result in slight injuries if the safety measures are not observed.
	<b>NOTE!</b>	Potentially hazardous situation that may result in material damage if the safety measures are not observed.

## 1.2 Further icons and displays

SYMBOL	MEANING
	Request for action in a sequence of actions: Action is required here.
1.	Request for action in a sequence of actions: Action is required here.
2.	
3.	
...	
	Single request for action: Action is required here.

## 1.3 Abbreviations

<b>ABBREVIATION</b>	<b>MEANING</b>
OC	ORBICOOL
MW	MOBILE WELDER

## 1.4 Further applicable documents

The following documents apply together with these operating instructions:

- MOBILE WELDER Instruction Manual with Parts List

## 2 Information and safety instructions for the owner

### 2.1 Using the machine

#### 2.1.1 Intended use

##### WARNING



##### Dangers result from improper use!

The device has been manufactured according to the state of the art and the recognized safety regulations and standards for use in industry and trade. It is intended only for the welding processes specified in these operating instructions. If the device is not used as intended, it may pose a risk to persons, animals and property. No liability is assumed for any resulting damage.

- ▶ Device should only be operated as intended and by instructed, competent personnel.
- ▶ Operate the device only with the MOBILE WELDER welding power supply by Orbitalum Tools GmbH.
- ▶ Use the device only to cool orbital weld heads and welding torches.
- ▶ Operate the device only with the OCL-30 coolant by Orbitalum Tools GmbH.

##### The cooling unit is intended solely for the following utilization:

Utilization in combination with an orbital welding power supply of type MOBILE WELDER and orbital weld heads and manual and machine welding torches by Orbitalum Tools GmbH or with a compatible third-party device in combination with a weld head adapter by Orbitalum Tools GmbH.

##### Proper use also includes the following points:

- Permanent supervision of the machine during operation. The operator must always be able to stop the process.
- Observing all safety and warning information in these operating instructions.
- Observing of the further applicable documents.
- Complying with all inspection and maintenance work.
- Use of the machine solely in its original state.
- Usage solely of original accessories as well as original spare parts and operating materials.
- Usage solely of coolant OCL-30 of the company Orbitalum Tools GmbH.

- Checking of all the safety-relevant items and functions before commissioning.
- Solely commercial usage.

## 2.1.2 Machine constraints

- The device may only be set up and operated on a stable, level and non-slip surface.
- A radial freedom of movement for people of approx. 2 m around the device must be ensured.
- Work lighting: min. 300 Lux.
- Climate conditions:
  - Ambient temperature in operation:  $-10\text{ °C}$  to  $40\text{ °C}$  ( $14\text{ °F}$  to  $104\text{ °F}$ )
  - Ambient temperature during storage and transportation:  $-20\text{ °C}$  to  $5\text{ °C}$  ( $-4\text{ °F}$  to  $131\text{ °F}$ )
- Relative humidity:
  - Up to 50% at  $40\text{ °C}$  ( $104\text{ °F}$ )
  - Up to 90% at  $20\text{ °C}$  ( $68\text{ °F}$ )
- The device may only be installed and operated in a dry environment according to IP 23 (not in fog, rain, thunderstorms, etc.). If appropriate, use a welding tent.
- Cooling is only ensured with a full coolant tank.
- High quantities of smoke, steam, oil vapors and grinding dust must be avoided.
- Avoid salty ambient air (sea air).

## 2.1.3 Device cooling

Insufficient ventilation leads to reduced performance and equipment damage.

- ▶ Observe the limits of the machine.
- ▶ Keep inlet and outlet openings of the cooling air unobstructed.
- ▶ Keep a minimum distance of 0.5 m from obstacles.

## 2.2 Environmental protection and disposal

### 2.2.1 REACh (Registration, Evaluation, Authorization and Restriction of Chemicals)


The regulation (EC) 1907/2006 of the European Parliaments and of the Council concerning the registration, evaluation, authorization and restriction of chemicals (REACh) regulates the production, placing on the market and use of chemical substances and the mixtures produced from these.

Our products are "products" in the sense of the REACh regulation. In accordance with Article 33 of the REACh regulation, suppliers of products must inform their customers if the supplied product contains a substance specified in the REACh SVHC candidate list exceeding 0.1 percent by mass of the object. On June 27, 2018 lead (CAS: 7439-92-1 / EINECS: 231-100-4) was included in the SVHC candidate list. This inclusion activates an obligation to inform along the chain of delivery.


We herewith inform you that individual partial components of our products contain lead in quantities exceeding 0.1 % by mass of the object as an alloy component in steel, aluminum and copper alloys as well as in solders and capacitors of electronic components. The lead content lies within the exceptions specified in the RoHS Directive.

Since lead as an alloy component is firmly bound and therefore no exposure is to be expected in the case of proper use, no additional specification of its safe use are required.

### 2.2.2 Coolant

 Dispose of coolant in accordance with the local statutory regulations.



  
(as per RL 2012/19/EU)



## 2.2.3 Electric tools and accessories

Used-up power tools and accessories contain a large amount of valuable raw materials and plastics which can be recycled:

- Used electronic devices marked with the adjacent icon may not be disposed of with household waste in accordance with EU directives.
- By actively using the offered return and collection systems, you are doing your part to reuse and recycle used electronic devices.
- Used electronic devices contain parts that must be handled selectively according to the EU directive. Separate collection and selective treatment are the basis for environmentally responsible disposal and protection of human health.
- We will properly dispose of devices and machines from Orbitalum Tools GmbH purchased after August 13th, 2005 if they are sent to us postage-paid.
- In the case of used electronic devices which may represent a risk to human health or safety due to contamination during use, we have the option of refusing return.
- **Important note for Germany:** Devices and machines of Orbitalum Tools GmbH may not be disposed of at communal dumps, as they are only used in the commercial sector.

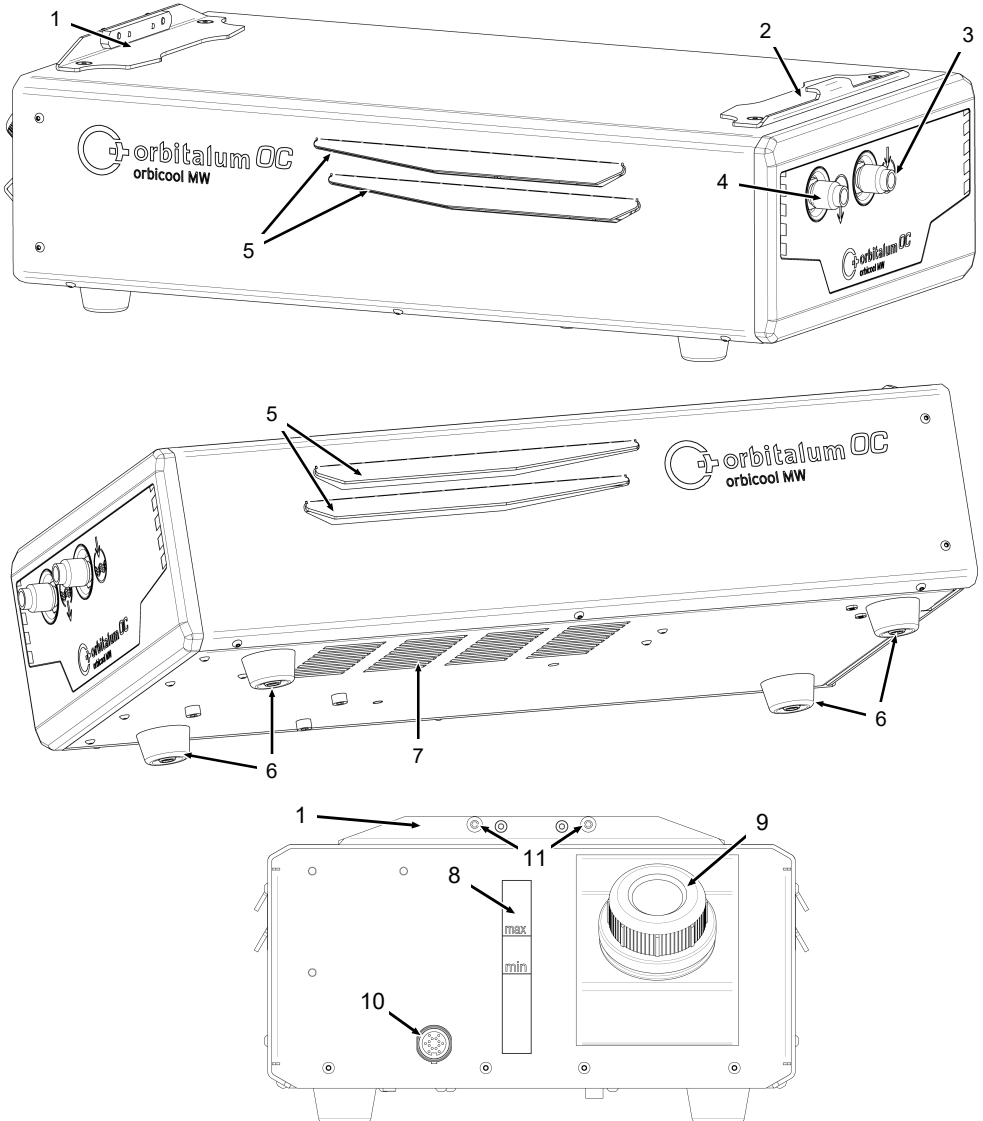
### 3 Technical specifications

COOLING UNIT ORBICOOL MW	UNIT	VALUE
Code		854 030 100
Supply voltage (via power supply)	[V (DC)]	24
Weight (without filled tank)	[kg]	5.5
	[lbs]	12.13
Dimensions L x W x H	[mm]	539 x 273 x 149
	[inch]	21.2 x 10.8 x 5.9
Power supplies compatibility		ORBITALUM Mobile Welder
Cooling type		Recirculation cooler
Cooling	[W @ 0.9 l/min]	400
Max. feed rate	[l/min]	0.9
Max. pressure	[bar]	7.5
Max. tank capacity	[l]	2.1
Degree of protection		IP23S
Max. noise emission	[dB(A)]	68



## 4 Description

### 4.1 Cooling unit




POS.	DESIGNATION	FUNCTION
1	Mounting base, rear	Cooling unit power supply connecting element
2	Mounting base, front	Cooling unit power supply connecting element
3	Coolant connection, red	Connection for coolant return line
4	Coolant connection, blue	Connection for coolant flow line
5	Air inlet	Inlet opening for cooling air
6	Device foot	Secure stand for cooling unit
7	Air outlet	Outlet opening for cooling air
8	Coolant level display	Indicates the fill level of the coolant in the tank.
9	Tank opening with lid	Filling opening for coolant, coolant tank closure.
10	"Signals" connection socket	Connection for cooling unit power supply connecting cable
11	Oval-head screws M4x10	Cooling unit power supply connecting element

## 4.1.1 Warning signs

The warning signs and safety signs located on the machine must be observed.

The warning signs are part of the machine. They must not be removed or modified. Missing or illegible warning signs must be replaced immediately.

IMAGE	POSITION ON MACHINE	MEANING	CODE
	Rear panel	Use original OR-BITALUM cooling liquid only!	854 060 052

## 4.2 Power supply

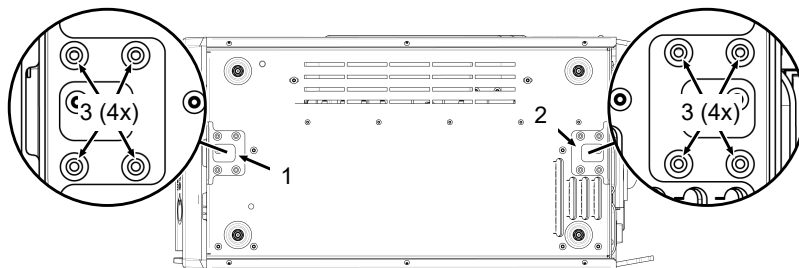


Illustration: Mobile Welder mounting plate underside

POS.	DESIGNATION	FUNCTION
1	Mounting plate	Cooling unit power supply connecting element
2	Countersunk screw M4x8	Cooling unit power supply connecting element

## 5 Transport and shipping

### WARNING



#### Improper transport

Permanent damage to the cooling unit.

- ▶ Transport the cooling unit only in a suitable, all-round protective and shockproof outer packaging.

### CAUTION



#### Risk of accidents from falling and tripping hazards

During transport, supply lines that are not disconnected can cause hazards, such as connected devices tipping over and causing injury to people.

- ▶ Climate conditions during storage and transportation, *see the chapter* Machine constraints [▶ 7]

## 5.1 Gross weight

ITEM	WEIGHT*	UNIT
ORBICOOL MW, incl. scope of delivery	14.00	kg
	30.86	lbs

\* incl. original ORBITALUM shipping cartons

## 5.2 Shipping

Transport the cooling unit only in a suitable, all-round protective and shockproof outer packaging, e.g. the original ORBITALUM shipping cartons.

For some types of transport, liquid-free shipping of equipment is required.

In this case, completely empty the coolant tank before transportation. *See the chapter* Pumping out coolant [▶ 23]

## 5.3 Transport

### WARNING



#### Danger of accident from loose fastening screws

The cooling unit can detach from the power supply and cause serious injury.

- ▶ Before installing, remove any dirt from the feet of the power supply and the connecting elements.
- ▶ Before transporting, check the fastening screws between the power supply and the cooling unit for secure fit; tighten if necessary.

---

**WARNING**



**Risk of accident from impermissible transport by crane**

The device may drop and injure people.

- ▶ Do **not** transport the device by crane.
  - ▶ Use handles, straps or holders for hand transport only.
-

## 6 Setup and commissioning

### 6.1 Unpack cooling unit


1. Take accessories and coolant from the cardboard packaging.
2. Take cardboard cover from the cardboard packaging.
3. Lift cooling unit out of the cardboard packaging and place upright on a stable, non-slip surface.
4. Check the cooling unit and accessories for transport damage.

#### NOTICE



► Report any damage to your power supply immediately.

### 6.2 Scope of delivery

ITEM	CODE	QUANTITY	UNIT
Cooling unit ORBICOOL MW		1	PCS.
Cooling liquid OCL-30 3.5 l/118.3 fl oz	850 030 010	1	PCS.
Hose bridge	875 030 016	1	PCS.
Hexagon screwdriver 2.5x60	823 020 031	1	PCS.
Connection line MW-OCMW	854 040 100	1	PCS.
Mounting plate, cooling unit	854 020 019	2	PCS.
Countersunk screw M4x8 ISO10642-A2	302 303 118	10	PCS.
Oval-head screw ISO7380-M4x10-A2	307 001 112	3	PCS.
Instruction Manual with ORBICOOL MW Parts List	<a href="https://www.orbitalum.com/de/download.html">https://www.orbitalum.com/de/download.html</a>	854 060 250	Unlimited (PDF)
Download link PDF:			
MOBILE WELDER QuickStart Guide	854 060 102	1	PCS.
General safety instructions welding power sources	854 060 101	1	PCS.



ITEM	CODE	QUANTITY	UNIT
"UPGRADE LICENSE" activation documentation	Depending on MOBILE WELDER starting equipment	1	PCS.

We reserve the right to make changes.

- ▶ Check the delivery for completeness and damage caused by transport.
- ▶ Report any missing parts or damage caused by transport to your supplier immediately.

## 6.3 Set up cooling unit

- ▶ Place cooling unit upright on a stable, level, non-slip and non-combustible surface.
- ▶ Operate the cooling unit only in an upright position!  
Operation in non-approved positions may cause damage.
- ▶ Set up only in a dry environment.
- ▶ Climate conditions, see *the chapter* Machine constraints [▶ 7]
- ▶ Work lighting: min. 300 Lux.

## 6.4 Activate cooling unit in software

- ✓ In order to be able to use the cooling unit, it must first be activated in the power supply software.
- ▶ For detailed information on software navigation, see the user manual of the power supply.

### NOTICE

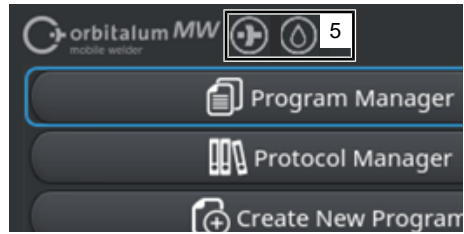


- ▶ The activation keys are coupled with a power supply serial number. Activation can therefore only take place on the associated power supply! You can find the activation key and the matching power supply serial number on the purchased activation document ("UPGRADE LICENSE").

### Procedure:

- ▶ From the main menu of the power supply, navigate to "System Settings" > "Activation".





1. Enter the activation key (2) in the text input field (3).
  2. Confirm the entry by pressing the "Activation" menu button (4).
- ⇒ Successful activation is indicated by a teardrop icon (5) in the menu header.

### NOTICE



#### If an error message is displayed:

- ▶ Check whether the activation key entered matches the activation key provided in the documentation.
- ▶ Check whether the serial number specified in the activation documentation matches the serial number of the power supply.

## 6.5 Mounting

### 6.5.1 Power supply preparation

1. Disconnect power supply from mains/pull power plug.
2. Place power supply on its side on a clean, non-abrasive base.

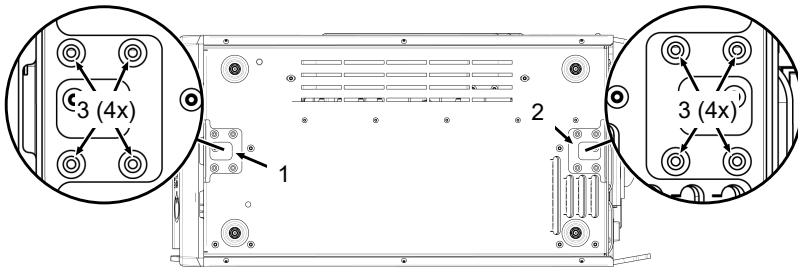


Illustration: MOBILE WELDER underside

3. Mount front (1) and rear (2) mounting plate to power supply underside, each with four M4x8 (3) countersunk bolts. Use bolt and hexagon screwdriver included in the scope of delivery.

## 6.5.2 Connect cooling unit to power supply

### WARNING

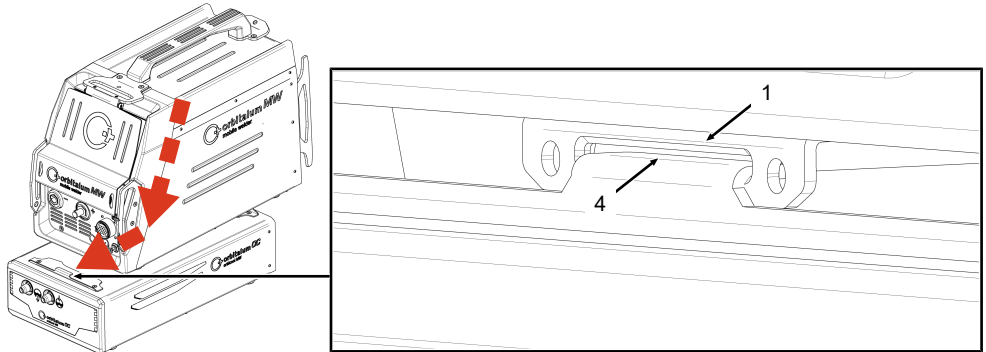


#### Danger of accident from loose fastening screws

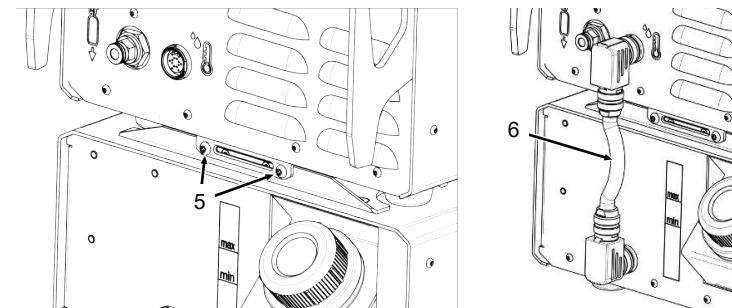
The cooling unit can detach from the power supply and cause serious injury.

- ▶ Before installing, remove any dirt from the feet of the power supply and the connecting elements.
- ▶ Before transporting, check the fastening screws between the power supply and the cooling unit for secure fit; tighten if necessary.

1. Place cooling unit upright on a stable, non-slip surface.
2. Carefully place power supply on the cooling unit diagonally from above, thereby leading the metal lip of the front mounting base (4) of the cooling unit into the slot of the front mounting plate (1) of the power supply.



- ▶ Bolt power supply and cooling unit to the rear of the device with two M4x10 oval-head screws (5). Use bolt and hexagon screwdriver included in the scope of delivery.



- ▶ Mount connecting cable (6) between power supply and cooling unit.

## 6.6 Disassembly

For disassembly follow the steps of the chapter Connect cooling unit to power supply [► 19] in reverse order.

## 6.7 Coolant

### NOTICE



- ▶ Operate the device only with the OCL-30 coolant by Orbitalum Tools GmbH.
- ▶ Mixing with other liquids or use of other coolants can lead to damage.
- ▶ Regularly check coolant level.
- ▶ Always completely replace coolant.
- ▶ Do not allow coolant to escape into the sewage system or waters.
- ▶ The coolant must be disposed according to local regulations and taking into account the coolant safety data sheet.
- ▶ Immediately clear up any spilled coolant and dispose correctly.

## 6.8 Fill coolant tank

### NOTICE



**Check and, if necessary, refill the coolant level before welding.**

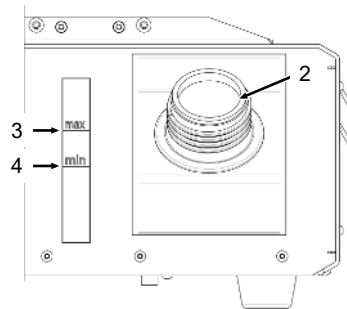
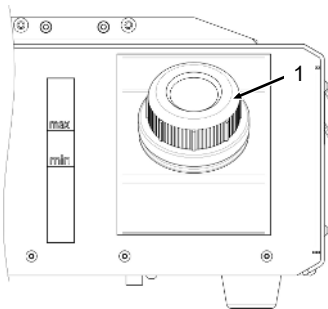
- ▶ Ensure that the power supply is not connected to the mains network during refilling.

### NOTICE



**Cooling is only ensured with a full coolant tank.**

- ▶ Please adhere to the following steps, otherwise the pump could be damaged by running dry.



POS.	DESIGNATION	FUNCTION
1	Cover, coolant tank	Coolant tank closure
2	Filler neck, coolant tank	Filler opening for coolant
3	Max. coolant level marking	Maximum coolant level
4	Min. coolant level marking	Minimum coolant level

**Procedure:**

1. Disconnect power supply from mains network
2. Unscrew cover (1) of the coolant tank from the filler neck (2).
3. Fill OCL-30 coolant.

**NOTICE**

- Fill coolant level with OCL-30 coolant at least up to the “min.” (4) marking.

4. Screw cover (1) of the coolant tank onto the filler neck (2).

## 7 Maintenance and care

### 7.1 Cleaning

- ▶ Use a damp cloth for surface cleaning.
- ▶ Use only residue-free cleaning agent.
- ▶ Carefully blow out air inlets and air outlet with water and oil-free compressed air.

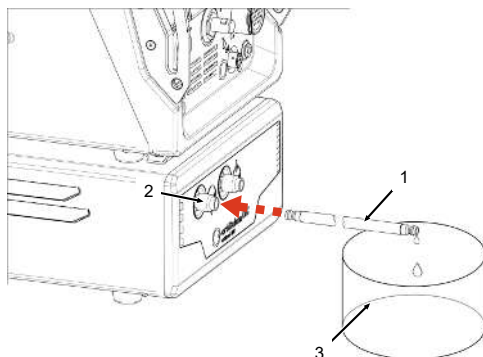
### 7.2 Maintenance schedule

INTERVAL	ACTIVITY
<b>Daily</b>	▶ Check the coolant in the tank and, if necessary, top up.
	▶ Check cooling unit power supply fastening elements for a secure fit.
<b>Monthly</b>	▶ Clean the machine fully from the outside.
	▶ Check the housing for damage.
	▶ Check connecting cable for mechanical damage.
	▶ Check connecting cable for faults.
	▶ Check coolant for impurities and, if necessary, replace.
	▶ Check coolant connections for functionality and impurities.
<b>Every six months</b>	▶ Completely replace coolant.

## 7.3 Pumping out coolant

Procedure when changing the coolant and emptying the tank in case of longer machine standstill.

1. Connect hose bridge (1) (included in scope of delivery) to the blue coolant connection (2).
2. Hold the open end of the hose into a collecting vessel (3) (min. 3 liters).



### Procedure

Carry out the following steps in the menu of the welding power supply:

- In the main menu press the “System Settings” button (2).



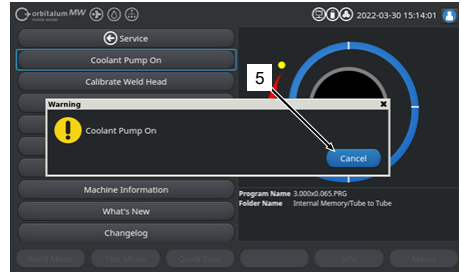
- Press the “Service” button (3).



- ▶ Press the “Coolant Pump On” button (4).
- ⇒ Pump out process begins and message “Coolant is being pumped out” appears.



- ▶ Check level indicator and end pump out process via the “Cancel” (5) message button when the tank is empty.

**NOTICE**

**Pump out process is limited to about 30 seconds.**

**The pump speed audibly increases when the pump is idling.**

- ▶ Immediate stop pump out process.
- ▶ If no coolant discharges for more than 5 seconds of pumping, stop pump out process in order to avoid pump damage.
- ▶ To empty completely, slightly raise the rear of the power supply/ cooling unit.
- ▶ Repeat the process until the coolant tank is completely empty.
- ▶ In order to disconnect the drain hose from the coolant connection, slightly push back the blue ring of the connection.



## 7.4 Troubleshooting

FAULT MESSAGE	REMEDY
Cooling unit is not recognized by the power supply.	<ul style="list-style-type: none"> <li>▶ Check connection of power supply connecting cable and cooling unit, if necessary, correct.</li> <li>▶ Check activation of the "ORBICOOL MW" upgrade license software, if necessary, activate ( -&gt; teardrop symbol in menu header), <i>see chapter Activate cooling unit in software</i> [▶ 17]</li> </ul>
Check "coolant shortage" (in power supply software),	<ul style="list-style-type: none"> <li>▶ if necessary, refill coolant.               <ol style="list-style-type: none"> <li>1. Check weld head/burner connection, if necessary, correct</li> <li>2. Refill coolant.</li> </ol> </li> <li>▶ Check hose assembly for kinks, if necessary, lay out without kinks.</li> <li>▶ Repeatedly start and stop the cooling flow in order to displace any possible air pockets from the hose assembly/cooling circuit.</li> </ul>

## 8 Storage and decommissioning

- ▶ Empty coolant tank before storage and decommissioning.

See *the chapter* Pumping out coolant [▶ 23]

The following storage conditions must be observed:

- Storage only in enclosed spaces
- Do not store near materials that may cause corrosion.
- Temperature range and relative humidity, *see the chapter* Machine constraints [▶ 7]

The operator obligations for proper disposal in the *chapter* Environmental protection and disposal [▶ 8] and the following safety note must be observed:

---

**CAUTION****Risk of injury from improper disassembly**

- ▶ The device may only be opened by a qualified electrician
-

## 9 Service and customer support

### 9.1 Customer support

Our products are extremely robust and reliable. To ensure the performance in the long run, the recommended service and maintenance intervals should be performed regularly.

We offer competent service via branches as well as our worldwide network of authorized partners. These are carefully selected and are regularly trained by our experts to always be up-to-date with regard to products and technologies.

All service and maintenance work is performed with great care by qualified and motivated employees. They analyze your situation to find the best long-term solution.

[Service contact at Orbitalum GmbH Singen:](#)

E-mail: [customerservice@orbitalum.com](mailto:customerservice@orbitalum.com)

Phone: +49 (0) 77 31 792-786

If you require service, please download our "Service Form" from the Orbitalum home page at Service & Repairs and enclose the completed form with the shipment of the affected goods.

### 9.2 Technical support & application engineering

Do you have questions about the operation of your Orbitalum system or do you have a technical problem?

Our experienced and qualified product and application specialists will support you in the correct selection and application of products.

In order to process your request as efficiently as possible, please provide us with the serial number of the equipment concerned when contacting us. This way we will have an initial overview.

- Handling of technical inquiries and problems
- Systematic fault diagnosis and correction
- Support in the selection of the right spare parts
- Support during operation, commissioning and test runs
- Support by telephone, by e-mail and on request also at your facility

E-mail: [tech.support@orbitalum.com](mailto:tech.support@orbitalum.com)

Phone: +49 (0) 77 31 792-764

## 9.3 Operator and service training

Our specialist knowledge is imparted by our own experts in small groups in our modern training rooms in Singen. This makes it possible to respond to each individual participant and address specific questions. We will gladly conduct training at your facility upon request.

At the end of each training you will receive a certificate of attendance and a certificate confirming that you have acquired the required knowledge.

Operators from the plant, container and pipeline construction industries are particularly suitable as target groups for the various training courses.

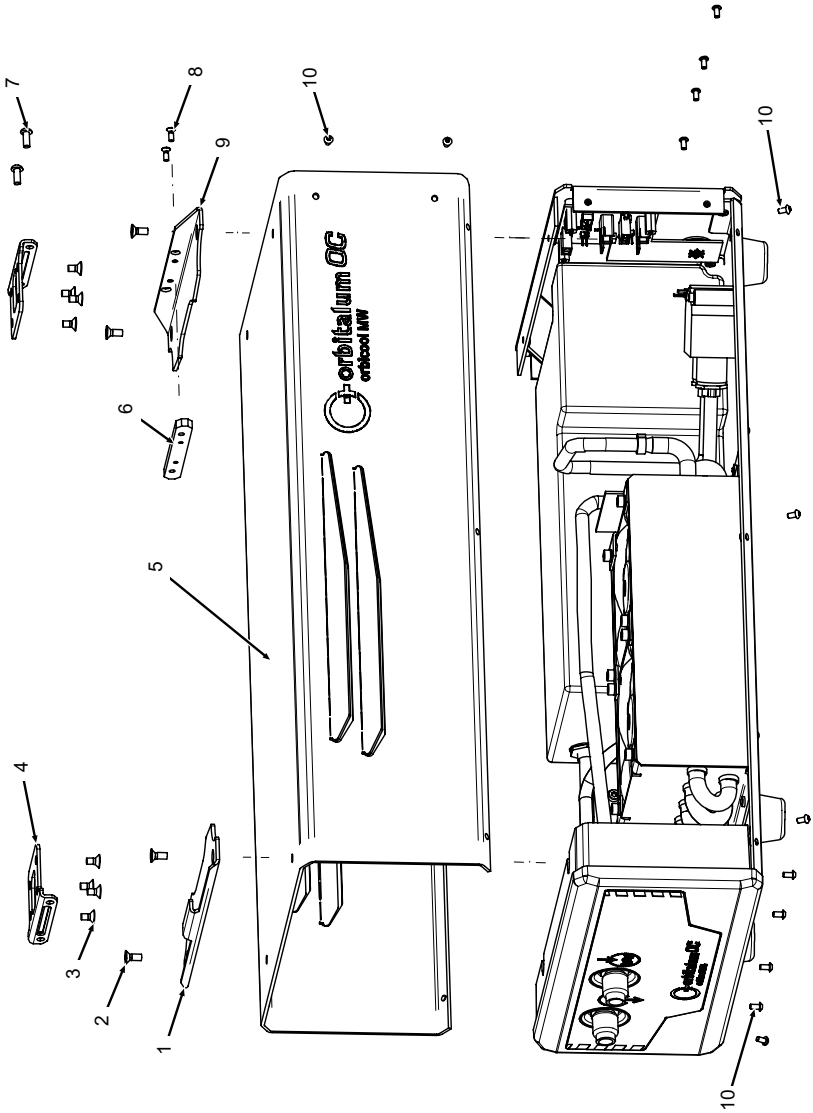
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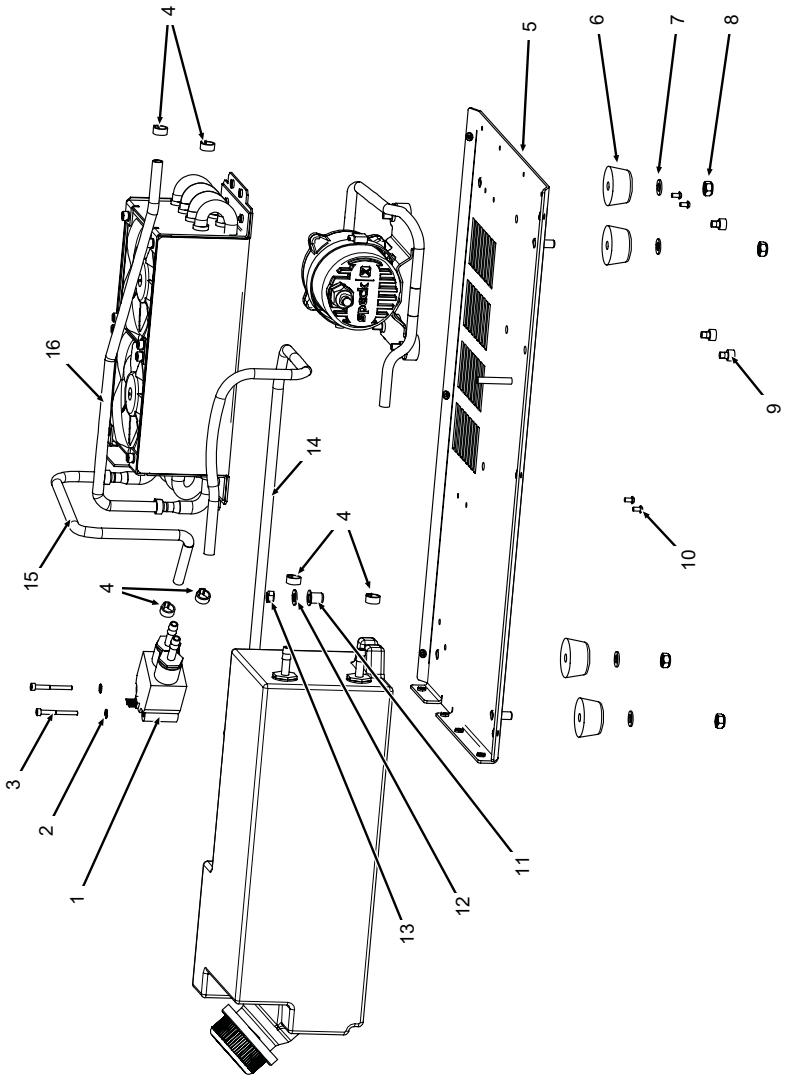
# 10 Ersatzteilliste / Spare parts list

## 10.1 Grundaufbau OCMW | basic structure OCMW



POS. NO.	CODE PART NO.	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	854 020 103	1	Socketblech Vorne Wärmetauscher OCMW Socket plate heat exchanger OCMW
2	302 301 115	4	Senkschraube DIN7991-M4x12-A2 Countersunk screw DIN7991-M4x12-A2
3	302 303 118	8	Senkschraube M4x8 ISO10642-A2 Countersunk screw M4x8 ISO10642-A2
4	854 020 019	2	Montageblech, Kühleinheit Mounting plate, cooling unit
5	854 020 102	1	Haube OCMW Cover OCMW
6	854 020 109	1	Gewindeblech OCMW Threaded plate OCMW
7	307 001 112	2	Linsenschraube ISO7380-M4x10-A2 Oval-head screw ISO7380-M4x10-A2
8	305 501 010	2	Senkschraube ISO14581-M3x10-TX Countersunk screw ISO14581-M3x10-A2-TX
9	854 020 110	1	Socketblech Hinten Wärmetauscher OCMW Mounting plate OCMW
10	307 001 104	18	Linsenschraube ISO7380-M3x6-A2-TX Oval-head screw ISO7380-M3x6-A2-TX

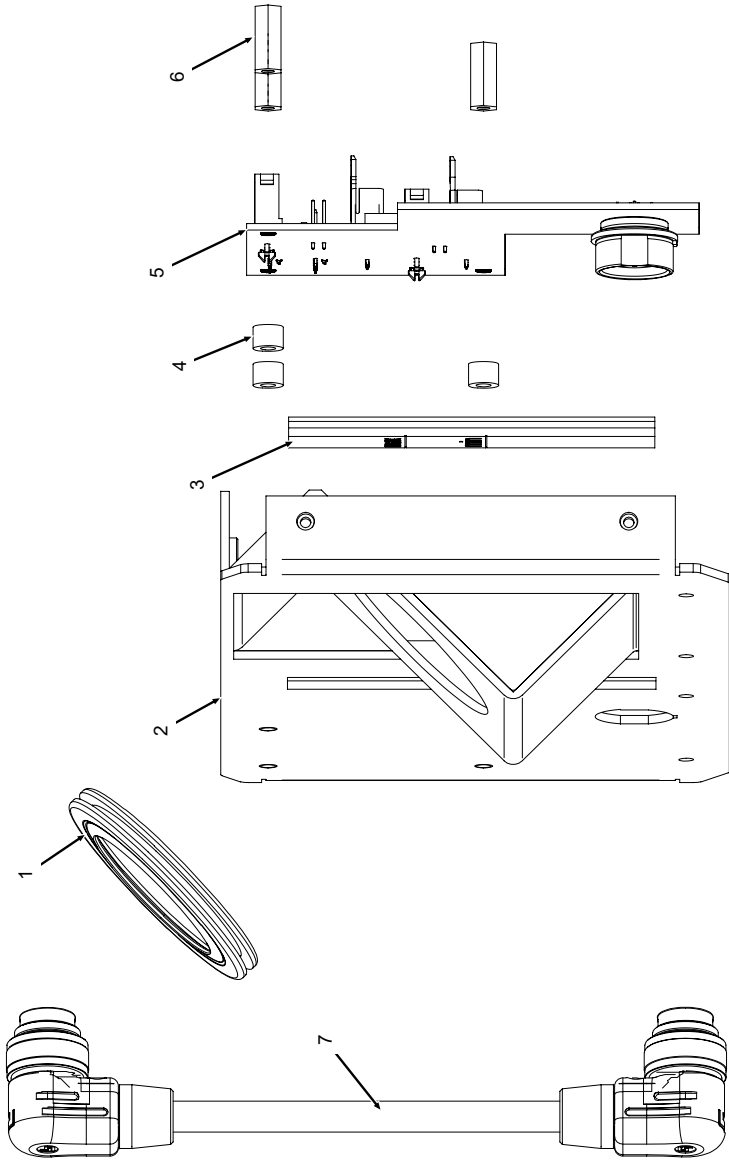
# 10.2 Bodenplatte OCMW | Base plate OCMW





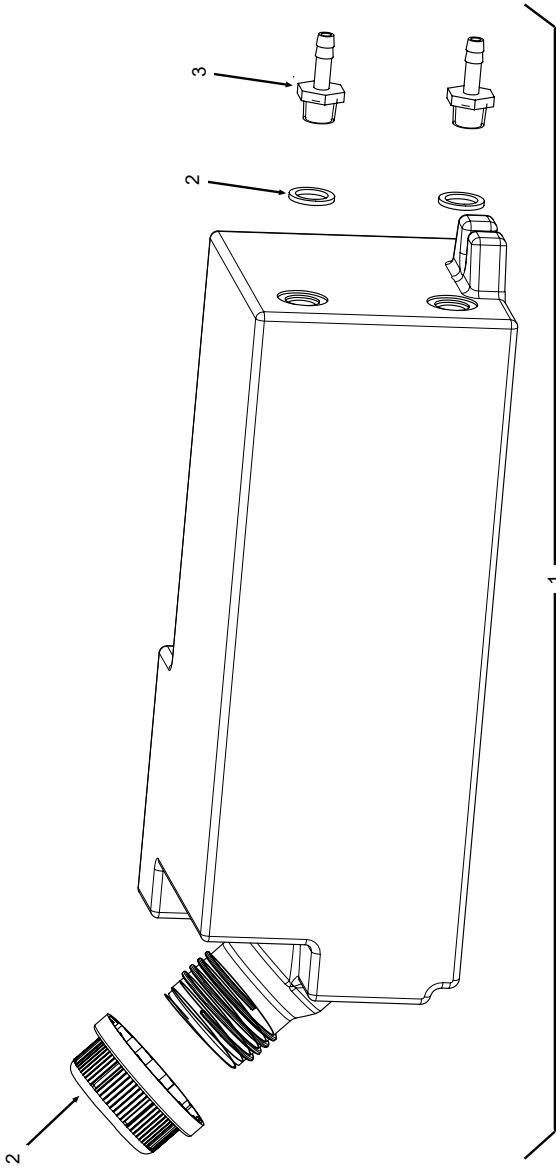
POS. NO.	CODE	STK. QTY.	BEZEICHNUNG DESCRIPTION	POS. NO.	CODE	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	850 050 005	1	Wasserflusssensor ORBIMAT SW/MW Water flow sensor ORBIMAT SW/MW	11	500 602 310	3	Sechskantmutter ISO4032-M5-A2 Hexagon nut ISO4032-M5-A2
2	854 200 325	2	Scheibe DIN125-ISO7089-d3,2-A2 Washer DIN125-ISO7089-d3,2-A2	12	542 500 320	4	Scheibe DIN125-ISO7089-d6,4-A2 Washer DIN125-ISO7089- d6,4-A2
3	305 501 056	2	Zylinderschraube ISO4762-M3x30-A2 Cylinder screw ISO4762-M3x30-A2	13	850 020 121	1	Bundbuchse Flange bushing
4	860 020 004	6	1-Ohr-Klemme Einl.ring 9.8-11.8 mm 12.3 1-ear clamp insert 9.8-11.8 mm 12.3	14	875 020 028	1 M	Wasserschlauch, schwarz Water hose, black
5	854 012 105	1	Bodenplatte OCMW Base plateOCMW	15	850 070 001	1 M	Kühlfüssigkeitsschlauch ORBITALUM, bl. Coolant hose ORBITALUM, bl.
6	854 020 054	4	Gerätefuß Device foot	16	850 070 004	1 M	Kühlfüssigkeitsschlauch ORBITALUM, rt. Coolant hose ORBITALUM, rd.
7	542 500 316	3	Scheibe DIN125-ISO7089-d5,3-A2 Washer DIN125-ISO7089-d5.3-A2				
8	501 607 311	4	Sechskantmutter ISO10511-M6-05-ZN Hexagonnut ISO10511-M6-05-ZN				
9	305 501 011	3	Senkschraube ISO14581-TX10/M3x6-A2 Countersunk screw ISO14581-M3x6-A2-TX				
10	307 001 104	4	Linsenschraube ISO7380-M3x6-A2-TX Oval head screw ISO7380-M3x6-A2-TX				

10.3 Rückwand OCMW | Rear panel OCMW



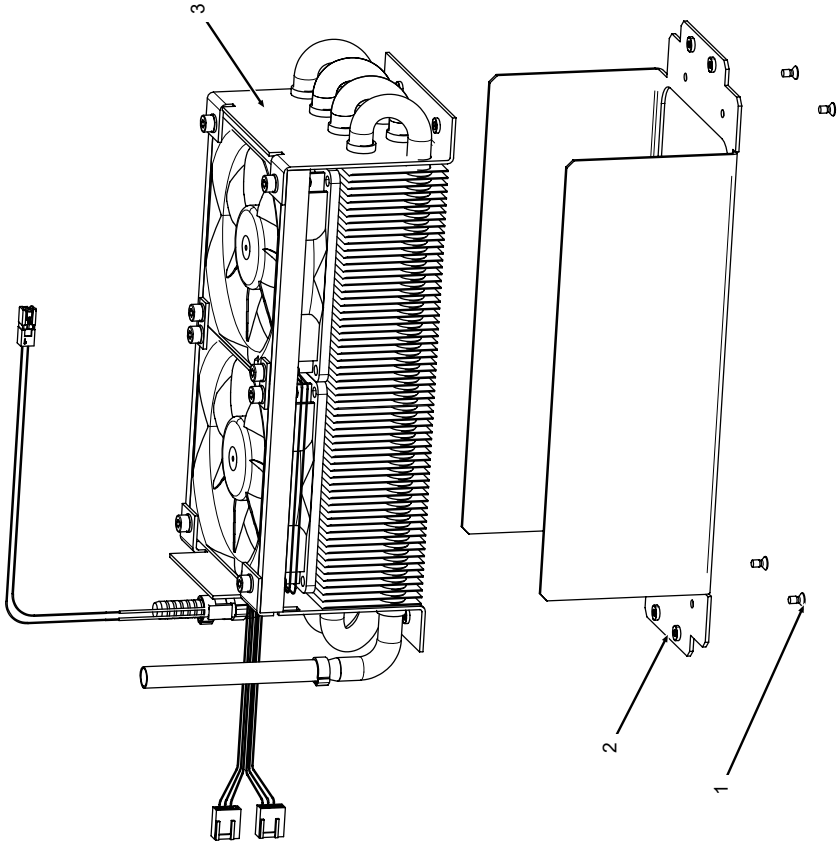
POS. NO.	CODE PART NO.	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	850 020 004	1	Tankdichtung SW/MW Tank seal SW/MW
2	854 020 106	1	Rückwand OCMW Assembly group, rear panel OCMW
3	850 020 005	1	Tankfenster SW/MW Tank window SW/MW
4	871 020 032	3	Distanzrolle ohne Gewinde, L 5 mm Spacing roller w/o thread, L 5 mm
5	854 010 048	1	Platine, Kühleinheitssignale MW/OC V2 Board, cooling unit signals MW/OC V2
6	860 020 090	3	Abstandsboizen, Kunststoff 15 mm, M3 Distance bolt, plastic 15 mm, M3
7	854 040 100	1	Verbindungsleitung MW-OCMW Connection cable MW-OCMW

10.4 Kühlmitteltank OCMW | Coolant tank OCMW OCMW



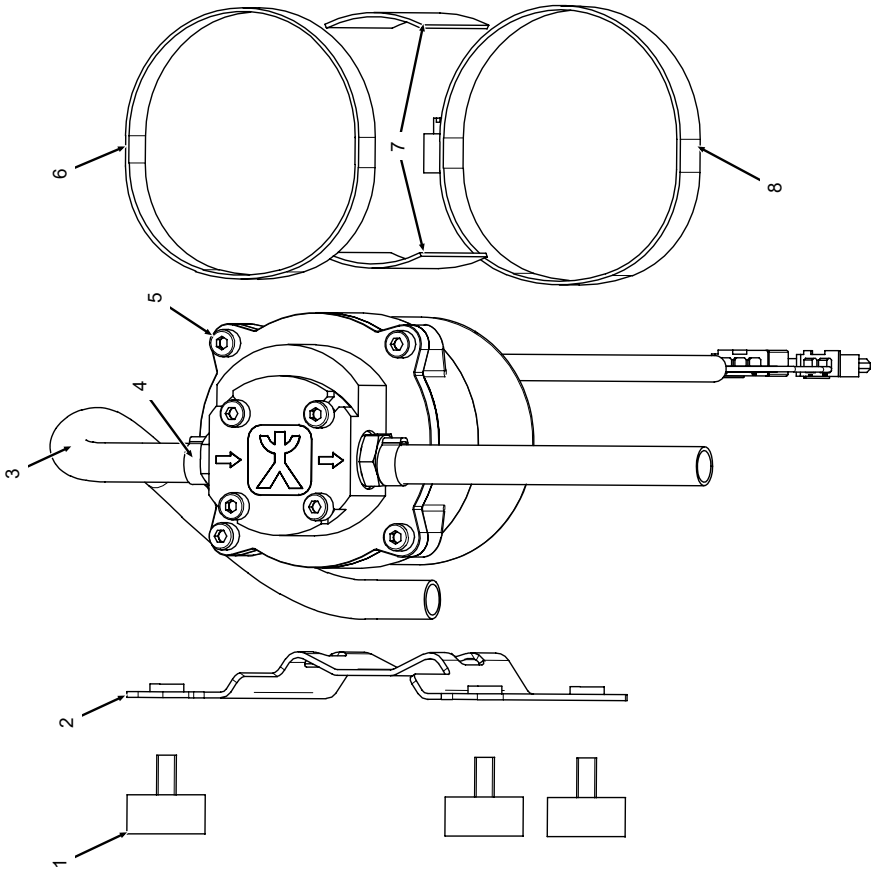
POS. NO.	CODE PART NO.	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	854 050 106	1	Kühlmitteltank OCMW Coolant tank OCMW
2	850 020 002	1	Tankdeckel SW/MW Tank cap SW/MW
3	850 020 006	2	Dichtung 18x13 Seal 18x13
4	885 020 002	2	Gewindetülle 1/4"/6 Rechtsgewinde Thread.nozzle 1/4"/6 mm righthand thread

# 10.5 Wärmetauscher OCMW | Heat exchanger OCMW



POS. NO.	CODE PART NO.	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	305 501 011	4	Senkschraube ISO14581-M3x6-A2-TX Countersunk screw ISO14581-M3x6-A2-TX
2	854 020 104	1	Wärmetauschergehäuse OCMW Heat exchanger housing OCMW
3	850 050 002	1	Wärmetauscher SW/MW Heat exchanger SW/MW

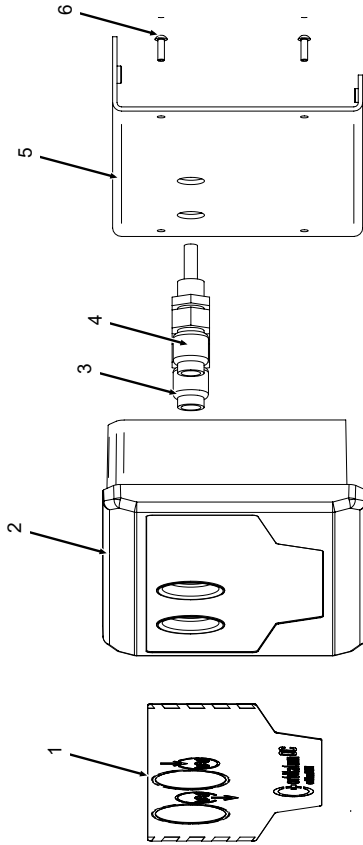
## 10.6 Kühlmittelpumpe OCMW | Coolant pump OCMW





POS. NO.	CODE PART NO.	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	860 020 089	3	Gummi-Metallpuffer, Typ B M5 Ø 20x10 mm Rubber metal buffer, type B M5 Ø 20x10mm
2	854 020 061	1	Montageblech Kühlmittelpumpe OCMW Mounting plate coolant pump OCMW
3	875 020 028	1 M	Wasserschlauch, schwarz Water hose, black
4	860 020 004	2	1-Ohr-Klemme Einl.ring 9.8-11.8 mm 12.3 1-ear clamp insert 9.8-11.8 mm 12.3
5	854 010 070	1	Kühlmittelpumpe MW Coolant pump
6	882 020 007	0,205 M	Moosgummiband, selbstklebend 2x20 mm Foam rubber tape, adhesive 2x20 mm
7	882 020 007	0,040 M	Moosgummiband, selbstklebend 2x20 mm Foam rubber tape, adhesive 2x20 mm
8	854 020 111	1	Gewindeschlauchschelle b12 50-70mm Threaded hose clamp b12 50-70mm

## 10.7 Frontblech OCMW | Front panel OCMW



POS. NO.	CODE PART NO.	STK. QTY.	BEZEICHNUNG DESCRIPTION
1	854 060 051	1	Frontfolie OCMW Front foil OCMW
2	854 020 101	1	Kunststofffront OCMW Plastic front OCMW
3	850 020 306	1	Einbaubuchse Kühlmittel OM/OT V2, blau Build-in socket coolant OM/OT V2, blue
4	850 020 307	1	Einbaubuchse Kühlmittel OM/OT V2, rot Build-in socket coolant OM/OT V2, red
5	854 020 108	1	Frontblech OCMW Front plate OCMW
6	854 020 113	4	Linsenschraube PT 3x10 TX A2 Panhead screw PT 3x10 TX A2

# 11 Konformitätserklärungen

## ORIGINAL

de EG-Konformitätserklärung  
 en EC Declaration of conformity  
 fr CE Déclaration de conformité  
 it CE Dichiarazione di conformità  
 es CE Declaración de conformidad  
 nl EG-conformiteitsverklaring  
 cz ES Prohlášení o shodě  
 sk EÚ Prehlásenie o zhode



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Maschine und Typ (inklusive optional erhältlichen Zubehörartikeln von Orbitalum): / Machinery and type (including optionally available accessories from Orbitalum): / Machine et type (y compris accessoires Orbitalum disponibles en option): / Macchina e tipo (inclusi gli articoli accessori acquistabili opzionalmente da Orbitalum): / Máquina y tipo (incluidos los artículos de accesorios de Orbitalum disponibles opcionalmente): / Machine en type (inclusief optioneel verkrijgbare accessoires van Orbitalum): / Stroji a typ stroje (včetně volitelného příslušenství firmy Orbitalum): / Stroji a typ (vrátane voliteľne dostupného príslušenstva od Orbitalum):

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Seriennummer: / Series number: / Nombre de série: / Numero di serie: / Número de serie: / Seriennummer: / Sériové číslo: / Sériové číslo:

Baujahr: / Year: / Année: / Anno: / Año: / Bouwjaar: / Rok výroby: / Rok výroby:

Hiermit bestätigen wir, dass die genannte Maschine entsprechend den nachfolgend aufgeführten Richtlinien gefertigt und geprüft worden ist: / Herewith our confirmation that the named machine has been manufactured and tested in accordance with the following standards: / Par la présente, nous déclarons que la machine citée ci-dessus a été fabriquée et testée en conformité aux directives: / Con la presente confermiamo che la macchina sopra specificata è stata costruita e controllata conformemente alle direttive qui di seguito elencate: / Por la presente confirmamos que la máquina mencionada ha sido fabricada y comprobada de acuerdo con las directivas especificadas a continuación: / Hiermee bevestigen wij, dat de vermeldde machine in overeenstemming met de hieronder vermeldde richtlijnen is gefabriceerd en gecontroleerd: / Týmto potvrdzujeme, že uvedený stroj bol zhotovený a odskúšaný podľa nižšie uvedených smerníc:

- Niederspannungsrichtlinie 2014/35/EU
- EMV-Richtlinie 2014/30/EU
- RoHS-Richtlinie 2011/65/EU
- Ökodesign-Verordnung (EU) 2019/1784

Schutzziele folgender Richtlinien werden eingehalten: / Protection goals of the following guidelines are observed: / Les objectifs de protection des directives suivantes sont respectés: / Gli obiettivi di protezione delle seguenti linee guida sono rispettati: / Se observan los objetivos de protección de las siguientes directrices: / De beschermingsdoelstellingen van de volgende richtlijnen worden in acht genomen: / Jsou splněny ochranné cíle těchto nařízení: / Sú splnené ochranné ciele týchto nariadení:

- Maschinen-Richtlinie 2006/42/EG

Folgende harmonisierte Normen sind angewandt: / The following harmonized norms have been applied: / Les normes suivantes harmonisées ou applicables: / Le seguenti norme armonizzate ove applicabili: / Las siguientes normas armonizadas han sido aplicadas: / Onderstaande geharmoniseerde normen zijn toegepast: / Jsou použity následující harmonizované normy: / Boli aplikované tieto harmonizované normy:

- DIN EN ISO 12100:2011-03
- DIN EN ISO 13849-2:2013-02
- DIN EN 60204-1:2019-06
- DIN EN IEC 60974-1:2018-12
- DIN EN IEC 60974-3:2020-05
- DIN EN 60974-10:2016-10

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Gerd Riegaf  
 Orbitalum Tools GmbH  
 D-78224 Singen

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 Confermato da: / Confirmando por: / Bevestigd door: / Potvrtil:  
 / Potvrtil:

Singen, 24.02.2022

Markus Tamm - Managing Director

Marcel Foh - Business Development Manager

**ORIGINAL**

de UKCA-Konformitätserklärung  
 en UKCA Declaration of conformity



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Seriennummer: / Series number:

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- EN ISO 13849-2:2013-02
- EN 60204-1:2019-06
- EN IEC 60974-1:2018-12
- EN IEC 60974-3:2020-05
- EN 60974-10:2016-10

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 D-78224 Singen

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Jürgen Jäckle - Manager Product Compliance





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