Original

SIGURA 9 Break Tank

GB

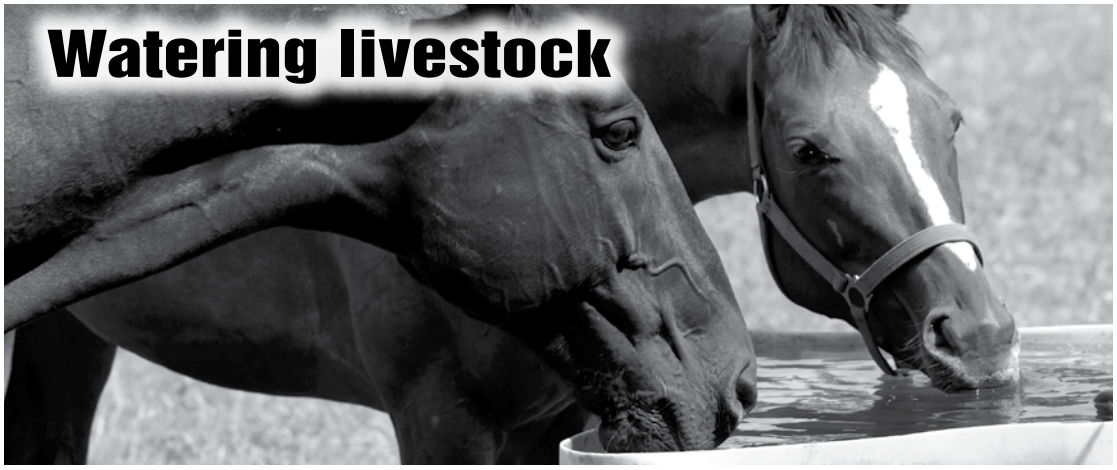
OPERATING INSTRUCTIONS

- Operating instructions for the SIGURA 9 break tank
- Please read through these instructions carefully before you attempt to install and use the break tank!
- 4-stage non-self-priming centrifugal pump in wall unit
- Operates fully automatically to supply appliances with process water on demand
- Automatic process water supplywith integral 9-litre top-up tank
- Energy-efficient technology, standby consumption less than 0.2 W

made in Germany

WISY Rainwater Harvesting

Potential applications for the new SIGURA 9 break tank:



... and many others!

SIGURA 9 break tank

Please read through these instructions carefully before you attempt to install and use the break tank!

Contents

These installation instructions include information relating to the following:

- Applications
- Scope of delivery
- Components diagram
- Preparations for installation, assembly
- Commissioning
- Design and operating principle
- Maintenance, safety instructions, repairs
- Troubleshooting guide
- Technical data and materials
- Environmental guidance
- Guarantee conditions, device number
- Declaration of conformity

Read the operating instructions carefully before commencing assembly and installation work and store them in a safe place for later reference. Follow the safety instructions on page 7!

Failure to heed the information indicated by this symbol could result in serious or fatal injury.	*Failure to heed the information indicated by this symbol could result in death by electric shock.*	*Failure to heed the information indicated by this symbol could result in damage to the equipment, or damage caused by the equipment.*

Applications

Proper use

The SIGURA 9 break tank separates the process water circuit from the mains water supply. It is designed to protect the public supply of potable water against contamination.

The SIGURA 9 break tank is installed in a frost-free utility room, draws mains water out of the mains water circuit and feeds it under pressure into the process water circuit.

The break tank maintains a water pressure of up to 4.5 bar in the process water circuit and is suitable for boosting the pressure in detached/semi-detached houses with up to three storeys. It is also designed for use in irrigation systems or for other processes that may not be directly connected to the mains water supply system.

Improper use

SIGURA 9 cannot be installed outdoors or in any area that is not protected against frost. SIGURA 9 is not suitable for appliances with a flow rate of less than 1 litre/minute. The process water circuit must be leak-tight.

Delivery / shipment of the unit

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The SIGURA 9 break tank is normally shipped as a parcel. As soon as the package is received, it must be checked for any signs of damage.

The package or its unpacked contents must be stored in a safe, dry, and frost-free location.

Scope of delivery

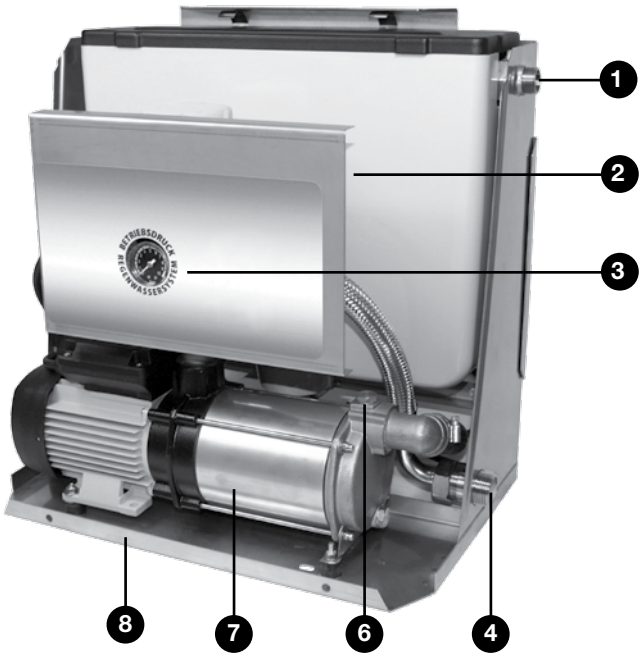
Wall unit

Wall unit equipped with

Wandgerät ausgestattet mit

- Open mains water outlet with float valve to EN 1717
- 9-litre top-up tank with emergency overflow DN 70
- Prisma non-self-priming, multi-stage centrifugal pump
- Zeta 02 pump controller
- Protective cover for the wall unit
- Wall mounting kit

Guide to components



1 Mains water connection

2 ZETA 02 pump controller
(covered, with display and operator panel)

3 Operating pressure indicator (pressure gauge)

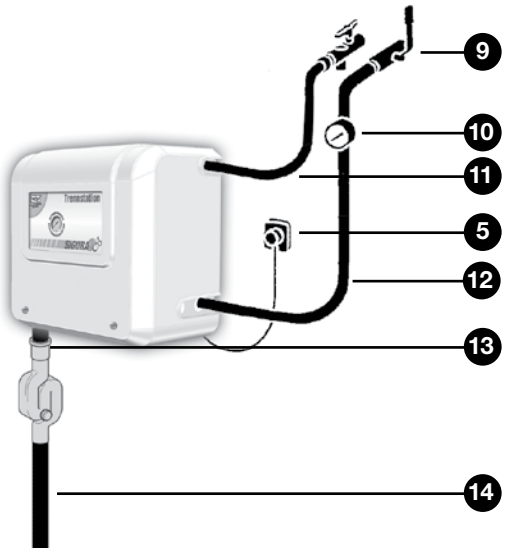
4 Domestic water supply outlet

5 Mains plug for complete system

6 Screw plug for venting/filling

7 Non-self-priming centrifugal pump

8 Base frame



Accessories not included in the scope of supply:

9 Isolating valves for mains water pipe and process water pipe

10 Water meter for process water

11 Flexible connecting hoses

12 Connecting hose for domestic water supply

13 Emergency overflow drain connection (DN 75)

14 Siphon odour trap

Preparations for installation

The SIGURA 9 break tank must be installed by a specialist installation company, i.e. by properly qualified, approved installation specialists and electricians. This is a basic requirement for maintaining the validity of the manufacturer's guarantee.

Note backflow level requirements and other installation conditions

Please note: The SIGURA 9 must be installed above the backflow level. Special protective measures must be implemented if the unit is installed and operated below the backflow level of the drain system!

The emergency overflow of the mains water top-up tank must be permanently and securely connected to a drain (DN 70). The room in which the unit is installed must have a floor drain.

The water column between the bottom edge of the wall unit and the highest operating point (valve at appliance) must not exceed 15.0 m.

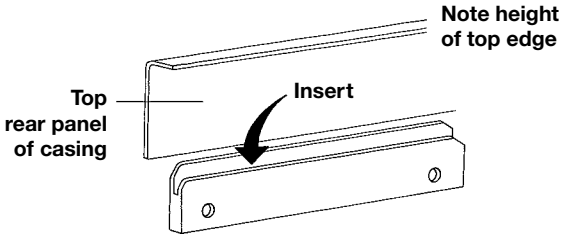
Piping or hoses must be cleaned or flushed through before they are used to remove any deposits of dirt/dust caused by building work!

Important: The protective plugs fitted over the connectors on the wall unit must be removed before hoses or pipes are connected to the unit!

Installation

Assembling the wall-mounting bracket

- Attach the wall mounting kit horizontally according to the dimensions given. The wall-mounting bracket can be used as a drilling template. The distance between the two holes is 280 mm. The break tank can then simply be inserted in the groove of the bracket.



Installing the wall unit

- We recommend that you use our hose connection kit (Item No.: RW 7800) to connect the wall unit. All connections at the wall unit must be acoustically isolated and flat-sealing.
- Connect the incoming mains water pipe to the mains inlet connector on the SIGURA 9 unit.

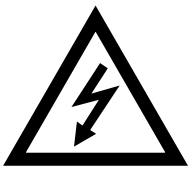
Important: The mains water flow rate into the unit must be equal to or greater than the flow rate of the pumped output so as to ensure that Sigura 9 can operate properly!

Use a ¾" connecting hose with stainless steel sheath (accessory) to connect the mains water pipe to the mains inlet connector on the SIGURA 9 wall unit. The top-up flow rate is approximately 95 l/min with a mains pressure rating of 3 bar (= 300 kPa).

Important: If the mains pressure rating at the installation site is less than 3 bar (= 300 kPa), it may be necessary to increase the cross section of the mains pipe (e.g. to "1"). If the mains pressure rating is higher than 5 bar (500 kPa), it must be reduced to 4 - 5 bar (400 - 500 kPa) by means of a pressure reducing valve. A ball valve with dirt trap must be installed between the mains water supply and the connecting hose to the wall unit.

- Connect the emergency overflow (DN 70) of the mains water top-up tank via an odour seal (siphon) to a domestic drainage.
- If the unit is installed below the backflow level, an additional backflow prevention device (multisiphon) must be provided.
- Connect the SIGURA 9 unit to the indoor process water circuit using a flexible connecting hose and an isolating ball valve with drain valve (accessory). In order to record water consumption, it is advisable to fit a water meter in the process water circuit.

Electrical connection



- The mains electrical connection of the SIGURA 9 unit (alternating current, single-phase, 50 Hz, 230 V) must be protected by an earth-leakage circuit-breaker (0.03 A) and a 16 A fuse. It is essential that all electrical installation work is carried out in compliance with the relevant safety regulations!
- If the mains cable or an electrical connecting cable of the wall unit becomes damaged, it must be replaced by the manufacturer, a service partner or an authorized specialist. In the event of cable damage, disconnect the SIGURA 9 from the mains supply immediately!

Commissioning

Important: The pump must not be put into operation, or even tested, unless the system is filled with water. Make sure that the 9-litre top-up tank is full of water and that the mains water pipe is connected.

1. Open the isolating valve of the mains water connection. The 9-litre top-up tank is then filled with water via the float valve.
2. Open the screw plug for venting/filling the pump in the wall unit and fill the pump with clear, clean water. Close the screw plug again making sure that you don‘t damage the O-ring.
3. Open the valves at the appliances.
4. Connect the SIGURA 9 to the electricity supply.
5. As soon as the system has been bled, close the valves at the appliances. The SIGURA 9 unit is ready to operate as soon as the maximum system pressure is reached.

Design and operating principle

Important:
It is essential that you observe the specifications delivery head H / flow rate Q and the performance chart / operating characteristic of the SIGURA 9 (for further information, see Technical data and Materials).

The SIGURA 9 system uses tried-and-tested, reliable components. Its Zeta02 pump controller is especially energy efficient, consuming less than 0.2 watts in standby mode. The operating principle of the system is extremely simple:

If a valve at one appliance (e.g. irrigation system) is opened, the pressure in the supply circuit drops. When the factory-set pump cut-in pressure (1.5 bar) on the pump controller is reached, the pump in the break tank starts up and supplies the connected appliances with water. When all valves at the appliances are closed again, the pump controller shuts down the pump when operating pressure is reached.

Drip irrigation

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Note: If a „drip irrigation“ system (often computer-controlled) is to be connected as an appliance to the SIGURA 9, a small expansion vessel (at least 15 l capacity) must be installed downstream of the wall unit in the process water pipe. The expansion vessel must be dimensioned appropriately to prevent the pump from exceeding its maximum starting frequency (20 starts per hour).

Protection of mains water by open outlet

The mains water top-up system is implemented as an open outlet in accordance with EN 1717 (formerly DIN 1988/4).

The tank can be topped up with approximately 95 litres of mains water per minute if required. The mains water top-up tank has a storage capacity of 9 litres and is also fitted with an emergency overflow (DN 70) as an additional precaution.

Operating pressure indicator

A pressure gauge in the sight glass of the SIGURA 9 indicates the current system pressure in the process water circuit.

Integrated dry run protection

When the system is completely empty of water, the dry run protection system integrated in the pump controller shuts down the pump in the SIGURA 9 tank.

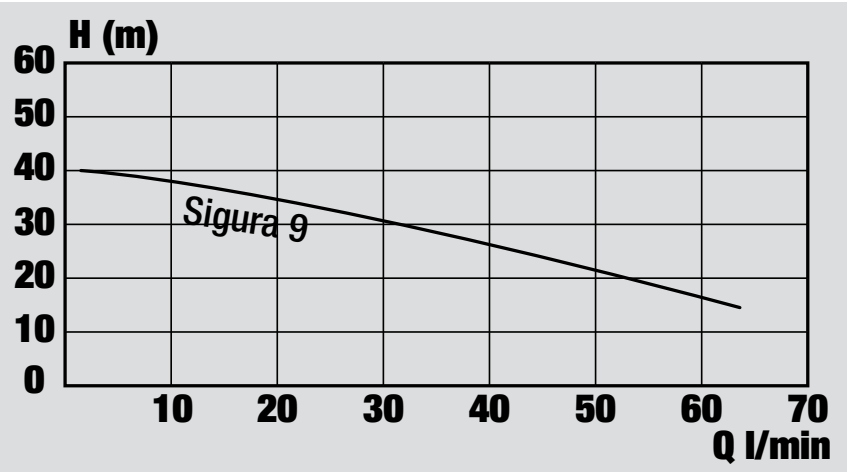
Flexible programming options

The SIGURA 9 can be programmed to meet individual requirements, i.e. the pump run-on time, the number of pump starts per hour and the period of continuous pump operation can all be set directly on the pump controller.

For more information, please refer to the enclosed operating instructions for the Zeta pump controller.

For higher elevations / longer cable lengths or applications which require a greater volumetric flow rate, we recommend use of the WISY Sigura 100 or Sigura 500 break tank

Operating characteristic at 2850 rpm



Please observe all the information contained in sections „General safety instructions“ and „Repairs“.

Maintenance and servicing

As a general rule, the following inspections/tests must be carried out at 6-monthly intervals

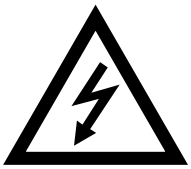
- Inspect the water circuit connections for leaks
- Perform a function test on the pump and check the system pressure indicator
- Test the pump cut-in and cut-out points set on the pump controller
- Perform function test on mains water top-up system
- Inspect the mains water inlet; if necessary, clean the dirt trap at the float valve inlet and the dirt trap at the isolating valve;

Ten years after the system has been commissioned, the float valve of the mains water top-up system and the diaphragms of the pump controller must be replaced (specialist installation company).

General safety instructions

This equipment must not be used or operated by anyone who suffers from any kind of physical, mental or sensory disability unless they are under the supervision of a competent person who is responsible for their safety, or unless they have received instructions from the supervising person on safe use of the equipment. They must be aware of and understand the potential hazards. Children must not be allowed to play with or operate the equipment, nor to carry out any maintenance on it.

The electric plug of the SIGURA 9 must be removed from the socket to disconnect the unit from the mains supply before any inspection, repair or maintenance work is carried out. If the earth-leakage circuit-breaker or fuse trips, the trip cause must be identified and rectified by the manufacturer / by a contractor appointed by the manufacturer. If the power cable to the SIGURA 9 unit is found to be damaged, it must be replaced by the manufacturer / by a contractor appointed by the manufacturer.



Installation work which involves particular hazards (e.g. risk to mains water supply or the electrical installation) must always be carried out by a properly qualified, approved plumber or electrician who has expert knowledge in the following areas:

- Selection of appropriate tools and suitable electrical and installation materials
- IP degrees of protection
- Correct methods of installing electrical and other materials
- TN-C system, TN-S system and appropriate additional measures where necessary
- Potable water protection in accordance with EN 1717, DIN 1989
  Failure to install the equipment properly can endanger your own life and the life of anyone who uses the equipment.

Repairs

All repair work must be carried out by the manufacturer or by expressly authorized companies.

Repairs, modifications to components or modifications to the installation in the SIGURA 9 unit carried out by unauthorized persons shall invalidate the guarantee!

Environmental guidance

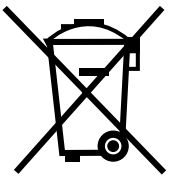
Disposal / recycling of transport packaging

The SIGURA 9 is shipped in recyclable cardboard packaging. Please recycle it as waste paper! Please also take the Styropor cushioning pieces to your local recycling centre for recycling.

Disposal / recycling of old units

Waste electrical and electronic equipment often contains valuable materials which can be reused / recycled. However, they also contain harmful substances which are essential to the proper, safe operation of the equipment. These substances pose a risk to human health and to the environment if the products are disposed of as general (non-recyclable) household waste or are incorrectly handled. For this reason, you must never dispose of an old unit as general (non-recyclable) household waste.

Use the recycling centres / facilities provided in your area to return defective electrical or electronic equipment so that it can be recycled!



Troubleshooting guide

Type of fault	Cause	Remedy
SIGURA 9 is not supplying water to appliances	a) Isolating valve at mains water connection is closed (air suction, dry run protection system active)	a) Open the isolating valve at the mains water connection to the SIGURA 9. Remove the cover and refill the integral pump by opening the screw plug. Close the screw plug. Press the RESET button on the pump controller. Pump starts up and switches off again when max. pressure is reached. SIGURA 9 is ready to operate
	b) Pump controller is not switching the pump on.	b) Pull out the mains plug of the SIGURA 9 and push it back in again. If this does not rectify the fault, please contact customer service.
	c) Pump is blocked.	c) Contact customer service.
	d) Power supply to SIGURA 9 is interrupted.	d) Check the electrical connection (the earth-leakage circuit-breaker might have tripped)!
SIGURA 9 is not producing enough pressure	SIGURA 9 pump has not been fully vented.	Vent the pump again.
Pump is running continuously	a) Water loss of more than 0.7 l/min from the circuit.	a) Check the entire installation and valves at the appliances, and seal or repair as required.
	b) Printed circuit board in the pump controller is defective.	b) Contact the installation specialist or customer service.
The pump integrated in the tank is switching on and off continuously	Leak in the system.	Inspect the process water circuit for minor leaks and repair as necessary.
Mains water is continuously running out through the emergency overflow of the mains water top-up tank (audible!)	Float valve in the mains water top-up tank is not closing, valve is clogged	Close the isolating valve to the mains water connection. Clean or replace the valve, contact the installation specialist.
Dry run protection system is active even though the top-up tank is full of water	1. Mains water connection is not supplying enough water, pump is emptying the top-up tank	1. Make sure that the supply of mains water is sufficient; open the isolating valve wide; it might be necessary to increase the pipe cross section (installation specialist!)
	2. Top-up system float valve is dirty	2. Clean the dirt trap at the float valve of the top-up system (contact installation specialist if necessary)
The pressure gauge (pressure indicator) is displaying excess pressure.	An external heat source (e.g. radiator) is causing pressure increase in the SIGURA 9 circuit.	Contact customer service of your installation company (it might be necessary to install a pressure relief valve)

Technical data

The SIGURA 9 complies with the following technical standards: EN 1717 (formerly DIN 1988/4 Mains water top-up via an „open outlet“).

Materials

Horizontal, multi-stage centrifugal pump
- Dezincing-resistant brass (suction and discharge casing)
- Stainless steel AISI 304 (outer casing, impellers)
- Stainless steel AISI 420 (shaft)
- Noryl® (diffuser vanes)
- Aluminium L-2521 (motor casing)

Mains water top-up tank
- Polystyrene (tank)
- KTW-approved plastic (float valve)

Pump controller
- Polyamide, polypropylene (casing)

Screw connections, pump connections, valve
- Brass, stainless steel

Connecting hoses
- Natural rubber with stainless steel braiding

SIGURA 9 housing
- Stainless steel (base frame)
- Polystyrene (cover)

Guarantee

Period and commencement of the guarantee

This guarantee is valid for a period of 24 months and becomes effective on the date of purchase by the customer. Replacement of the product under guarantee will not extend the term of the original guarantee.

WISY shall meet its guarantee obligations for the SIGURA 9 break tank if it can be demonstrated that the following conditions are fulfilled:

Terms and conditions of the guarantee

1. The product has been purchased from a specialist WISY retailer in the Federal Republic of Germany.
2. The product has been commissioned by the WISY customer service or by a specialist company.

WISY receives notification in writing of any defect within 14 days of discovery of the defect.

Content and scope of the guarantee

WISY shall rectify any functional defects during the guarantee period by repairing or replacing defective components free of charge. Additional claims for damages shall be excluded to the extent permitted by law.

Limitation of the guarantee

Faults or defects which arise as a result of the following factors are not covered by the guarantee:

- Faulty assembly or installation, e.g. failure to comply with the valid VDE regulations or the installation instructions.
- Failure to connect the emergency overflow of the top-up tank to a drain or failure to provide a floor drain.
- Inappropriate use or exposure to excessive mechanical strain.
- External influences, e.g. shipping damage, damage caused by shock impacts, damage caused by exposure to weather or by other natural phenomena.
- Repairs or modifications undertaken by unauthorized third parties.

Device no.

The registered manufacturer device number of your product is as follows:

Declaration of Conformity

We hereby declare that the machinery specified below conforms to all requirements of the EU Machinery Regulation (EU) 2023/1230.

Product name

Multimat rainwater units, type 205, type 407
Optima 4, Optima 5, Optima Plus rainwater units
Maxima rainwater units, type 205, type 407
Sigma 3, Sigma 4 rainwater units
Break tank Sigura 9 and Sigura 350

Applicable EU Directives

EU Machinery Regulation (EU) 2023/1230

Electromagnetic Compatibility Directive 2014/30/EU.

Angewandte harmonisierte Normen

EN ISO 13849-1:2008 Safety of machinery –Safety-related parts of control systems - Part 1: General principles for design (ISO 13849-1:2006)

EN 809:1998+A1:2009 Pumps and pump units for liquids. Common safety requirements.

EN ISO 12100:2010 Safety of machinery: General principles for design – Risk assessment and risk reduction (ISO 12100:2010)

EN 60204-1:2006 Safety of machinery – Electrical equipment of machines – Part 1: General requirements

EN 60529 (VDE 0470-1) Degrees of protection provided by enclosures

Other applied national standards and specifications

DIN 1989 Rainwater harvesting systems, Parts 1+4
DIN EN 1717 and DIN 1988-100 Protection against pollution of potable water installations

Manufacturer

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Authorised person with responsibility for technical documentation

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Kefenrod, July 2026

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made in Germany

WISY
Rainwater Harvesting

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