# Regusol Stations

Simple and safe control
of solar thermal energy.

oventrop

# Our Regusol stations

Regusol stations

# Invest in the sun?
It's easy with our modular solutions.

## SOLAR THERMAL ENERGY – CLEVER USE OF THE SUN

Solar thermal systems use the sun's thermal energy to heat potable water or to support the heating system. This makes them ***particularly environmentally friendly and energy efficient.*** In Central Europe, about 60 to 70 % of the annual hot potable water demand of a detached house can be heated by solar thermal systems. Solar systems for additional heating support cover about 10 to 30 %, in passive houses even up to 100 % of the total heat demand.

If the solar radiation is not sufficient to heat the potable or heating water, another heating system provides the necessary energy. For this purpose, solar thermal systems are combined, for example, with a modern condensing boiler, an efficient heat pump or a regenerative solid fuel boiler.

## THIS IS HOW IT WORKS

Solar thermal systems use the ***sun's thermal energy via collectors*** in which solar fluid is heated by solar radiation. The solar fluid is transported by a high-efficiency pump in the **Regusol** station to the heat exchanger, which transfers the thermal energy to the potable or heating water. The heat exchanger is already integrated in our **Regusol X** stations. Our **Regtronic** solar controllers control the pump particularly efficiently.

### YOUR BENEFITS

+ ***Environmentally friendly*** by saving resources and $CO_2$
+ ***Greater independence*** from fossil fuels and price increases
+ ***Crisis-proof*** and therefore value-enhancing for your property

Together we ***solve the challenges of tomorrow today.*** We support you as a partner at your side. With our modular and pioneering system solutions, you are flexible and well positioned for the future. Even if requirements change tomorrow. Our ***stations and storage cylinders*** are matched to our pioneering hydronic and indoor climate solutions. So that you can plan reliably and systematically.

# Regusol PH

## WITH THESE PUMP CIRCUITS YOU CONNECT A SOLAR CIRCUIT.

The **Regusol PH** pump circuits enable the solar circuit to be shut off on the return side and prevent self-circulation via an integrated check valve when the pump is switched off.

## THE PUMP CIRCUITS CONSIST OF:

+ a ***high-efficiency pump***
+ a ***ball valve*** with integrated check valve and thermometer in the return
+ a ***safety group*** with safety valve and pressure gauge
+ a ***fill and drain cock*** and ***connection possibility*** of an expansion tank
+ a ***flow measuring and regulating device*** with shutoff and fill and drain cock
+ a ***wall mounting device***
+ an ***insulation***

# Pump circuits

## REGUSOL PH-130 DN 25

| | |
|---|---|
| Pump length | **130 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1362063 | with Wilo PARA ST 25-130/7-50/iPWM |

## REGUSOL PH-180 DN 25

| | |
|---|---|
| Pump length | **180 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1368163 | with Grundfos UPM3 W3 Solar 25-75 PWM |

# Regusol SH

## WITH THESE STATIONS YOU CONNECT A SOLAR CIRCUIT.

The **Regusol SH** stations enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off.

## THE STATIONS CONSIST OF:

+ a ***high-efficiency pump***
+ ***ball valves*** with integrated check valves and thermometer in the return
+ a ***safety group*** with safety valve and pressure gauge
+ a ***fill and drain cock*** and ***connection possibility*** of an expansion tank
+ a ***flow measuring and regulating device*** with shutoff and fill and drain cock
+ a ***wall mounting device***
+ an ***insulation***

# Stations

## REGUSOL SH-130 DN 20

| | |
|---|---|
| Pump length | 130 mm |
| Connection solar circuit | G ¾ ET with Eurocone |
| Connection storage cylinder circuit | G ¾ ET with Eurocone |

| Item no. | Version |
|---|---|
| 1360033 | with Grundfos UPM3 Solar 15-75 PWM |

## REGUSOL SH-130 DN 25

| | |
|---|---|
| Pump length | 130 mm |
| Connection solar circuit | G 1 ET for Regusol compression fittings |
| Connection storage cylinder circuit | G 1 ET for Regusol compression fittings |

| Item no. | Version |
|---|---|
| 1360063 | with Grundfos UPM3 W3 Solar 25-75 PWM |

## REGUSOL SH-180 DN 25

| | |
|---|---|
| Pump length | 180 mm |
| Connection solar circuit | G 1 ET for Regusol compression fittings |
| Connection storage cylinder circuit | G 1 ET for Regusol compression fittings |

| Item no. | Version |
|---|---|
| 1368064 | with Grundfos UPM3 W3 Solar 25-75 PWM |

## REGUSOL SH-180 DN 32

| | |
|---|---|
| Pump length | 180 mm |
| Connection solar circuit | G 2 ET, flat sealing |
| Connection storage cylinder circuit | G 2 ET, flat sealing |

| Item no. | Version |
|---|---|
| 1368251 | with Wilo Stratos PARA 30/1-9 |

# Regusol LH

## WITH THESE STATIONS YOU CONNECT A SOLAR CIRCUIT.

The **Regusol LH** stations with vent pot enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off. A vent pot enables the degassing of the heat transfer medium in the supply pipe.

## THE STATIONS CONSIST OF:

+ a ***high-efficiency pump***
+ ***ball valves*** with integrated check valves and thermometer in the return
+ a ***safety group*** with safety valve and pressure gauge
+ a ***fill and drain cock*** and ***connection possibility*** of an expansion tank
+ a ***flow measuring and regulating device*** with shutoff and fill and drain cock
+ a ***wall mounting device***
+ an ***insulation***
+ a ***vent pot***

# Stations with vent pot

## REGUSOL LH-130 DN 20

| | |
|---|---|
| Pump length | 130 mm |
| Connection solar circuit | G ¾ ET with Eurocone |
| Connection storage cylinder circuit | G ¾ ET with Eurocone |

| Item no. | Version |
|---|---|
| 1360573 | with Grundfos UPM3 Solar 15-75 PWM |

## REGUSOL LH-130 DN 25

| | |
|---|---|
| Pump length | 130 mm |
| Connection solar circuit | G 1 ET for Regusol compression fittings |
| Connection storage cylinder circuit | G 1 ET for Regusol compression fittings |

| Item no. | Version |
|---|---|
| 1360556 | with Grundfos UPM3 W3 Solar 25-75 PWM |
| 1360557 | with Wilo PARA ST 25-130/7-50/iPWM |
| 1360558 | with Wilo PARA ST 25-130/8-75/iPWM |

## REGUSOL LH-180 DN 25

| | |
|---|---|
| Pump length | 180 mm |
| Connection solar circuit | G 1 ET for Regusol compression fittings |
| Connection storage cylinder circuit | G 1 ET for Regusol compression fittings |

| Item no. | Version |
|---|---|
| 1360850 | without pump |
| 1360851 | with Wilo PARA ST 25-180/7-50/iPWM |
| 1360852 | with Wilo PARA ST 25-180/8-75/iPWM |
| 1360853 | with Grundfos UPM3 W3 Solar 25-75 PWM |
| 1360854 | with Wilo PARA ST 25-180/7-50/iPWM |

# Regusol ELH

## WITH THESE STATIONS YOU CONNECT A SOLAR CIRCUIT.

The **Regusol ELH** stations with vent pot enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off. A vent pot enables the degassing of the heat transfer medium in the supply pipe. The integrated electronic controller takes over the control and monitoring of the solar thermal system.

## THE STATIONS CONSIST OF:

+ a ***high-efficiency pump***
+ ***ball valves*** with integrated check valves and thermometer in the return
+ a ***safety group*** with safety valve and pressure gauge
+ a ***fill and drain cock*** and ***connection possibility*** of an expansion tank
+ a ***flow measuring and regulating device*** with shutoff and fill and drain cock
+ a ***wall mounting device***
+ an ***insulation***
+ a ***vent pot***
+ an ***electronic controller***

# Stations with electronic controller

## REGUSOL LH-130 DN 20

with **Regtronic RC** electronic controller

| | |
|---|---|
| Pump length | **130 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1366597 | with Grundfos UPM3 Solar 15-75 PWM |

## REGUSOL ELH-130-RC-P DN 25

with **Regtronic RC-P** electronic controller

| | |
|---|---|
| Pump length | **130 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1360394 | with Wilo PARA ST 25-130/7-50/iPWM |

## REGUSOL ELH-180-RC DN 25

with **Regtronic RC** electronic controller

| | |
|---|---|
| Pump length | **180 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1360862 | with Wilo PARA ST 25-180/7-50/iPWM |
| 1360864 | with Wilo PARA ST 25-180/8-75/iPWM |

# Regusol X

## WITH THESE STATIONS YOU CONNECT A SOLAR CIRCUIT.

The **Regusol X** stations with heat exchanger enable a controlled transfer of thermal energy from a solar circuit (primary circuit) to a storage cylinder circuit (secondary circuit). The stations enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off. The integrated electronic controller takes over the control and monitoring of the solar thermal system.

## THE PRIMARY CIRCUIT OF THE STATIONS CONSISTS OF:

+ a ***high-efficiency pump***
+ ***ball valves*** with integrated check valves and thermometers in the supply and return
+ a ***safety group*** with safety valve and pressure gauge
+ a ***fill and drain cock*** and ***connection possibility*** of an expansion tank
+ ***connections for flushing, filling and draining***
+ an ***electronic volume flow sensor***

## THE SECONDARY CIRCUIT OF THE STATIONS CONSISTS OF:

+ a ***high-efficiency pump***
+ ***ball valves*** with integrated thermometers in the supply and return
+ a ***check valve***
+ a ***safety valve***
+ a ***vent valve*** and a ***connection for filling, flushing and draining***

## THE STATIONS ARE ADDITIONALLY EQUIPPED WITH:

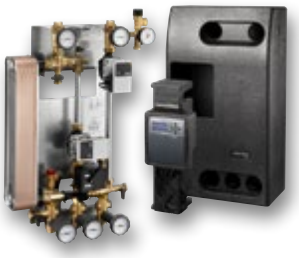
+ a ***plate heat exchanger***
+ a ***wall mounting device***
+ an ***insulation***
+ an ***electronic controller***

# Stations with heat exchanger

## REGUSOL X-UNO DN 25
## WITH ONE STORAGE CYLINDER CIRCUIT CONNECTION

| | |
|---|---|
| Pump length | **130 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1361060 | with Wilo PARA ST 15-130/7-50/iPWM2-6 (collector circuit)<br>and Wilo PARA 15-130/7-50/iPWM2-6 (storage cylinder circuit) |



## REGUSOL X-DUO DN 25
## WITH TWO STORAGE CYLINDER CIRCUIT CONNECTIONS

| | |
|---|---|
| Pump length | **130 mm** |
| Connection solar circuit | **G 1 ET for Regusol compression fittings** |
| Connection storage cylinder circuit | **G 1 ET for Regusol compression fittings** |

| Item no. | Version |
|---|---|
| 1361050 | with Wilo PARA ST 15-130/7-50/iPWM2-6 (collector circuit)<br>and Wilo PARA 15-130/7-50/iPWM2-6 (storage cylinder circuit) |

# Modular accessories
## Clever combination

**Regusol FSA**
fill and flush device

**Regusol**
refill pump

**HydroControl STR**
double regulating valve

**Regusol X**
supplementary set

**Hydrocor HP**
buffer storage cylinder

**Regumaq X-25**
fresh water station

**Regumaq X-45**
fresh water station

**Regumaq X-80**
fresh water station

**Regtronic RC**
solar controller

**Regtronic RC-P**
solar controller

**Regtronic RM**
multifunction controller

# Regtronic
## Electronic Controllers

### MAKE SYSTEMS PARTICULARLY EFFICIENT AND ECONOMICAL

Our **Regtronic** controllers make your **Regusol** station ***particularly efficient,*** as they optimally control the circulation pump – depending on the temperature difference between the collector and the storage cylinder. By coordinating different heat generators – such as solar thermal energy with gas boilers or a solid fuel boiler – the **Regtronic** controllers ensure ***particularly economical operation*** of the system.

In addition, the **Regtronic** controllers enable the ***control, merging and monitoring*** of various functions from the areas of energy generation, distribution and transfer to an intelligent building system.

**REGTRONIC RC**
Item no. 1369549

***Simple solar controller*** for controlling a solar plant

**REGTRONIC RC-P**
Item no. 1369551

***Flexible solar controller*** for complex solar systems, hot potable water preparation and additional functions

**REGTRONIC RM**
Item no. 1369555

***Multifunction controller*** for the control of weather-compensated mixed / unmixed heating circuits as well as solar plants

9999620 | 378_EN_2023_02
Subject to technical changes.

Room climate

Hydronics

Stations,
Storage cylinders

Potable water

Oil

Smart Home,
Smart Building

Oventrop is the partner for efficient heating, cooling and clean potable water. The modular systems and services offer pioneering solutions which all HVAC experts use to work with – easily and flexibly – from planning to installation, from industry to trade. As a family business, Oventrop accompanies all its partners over many years – competently and personally.

oventrop
Wir regeln das. Seit 1851.

**Oventrop GmbH & Co. KG** · Paul-Oventrop-Str. 1 · 59939 Olsberg, Germany
Tel. +49 2962 820 · Fax +49 2962 82400 · mail@oventrop.com · www.oventrop.com