

Instruction Manual

REGOMAT  
**THERMOSTATIC PUMP STATION**  
- for boilers and fireplaces



EN  
v. 1.1

**Regulus**

# 1 Introduction

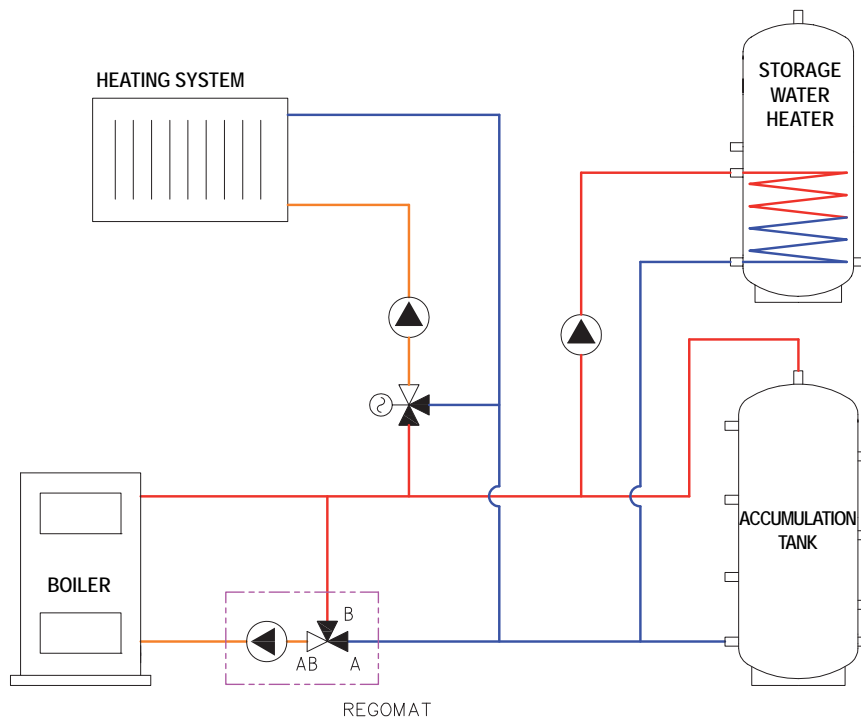
REGOMAT Thermostatic Pump Station makes boiler installation quicker as it contains all important components needed for boiler protection. It is designed to be installed directly on a boiler incoming pipe or on a wall.

This pump station is intended for solid-fuel boilers and fireplaces.

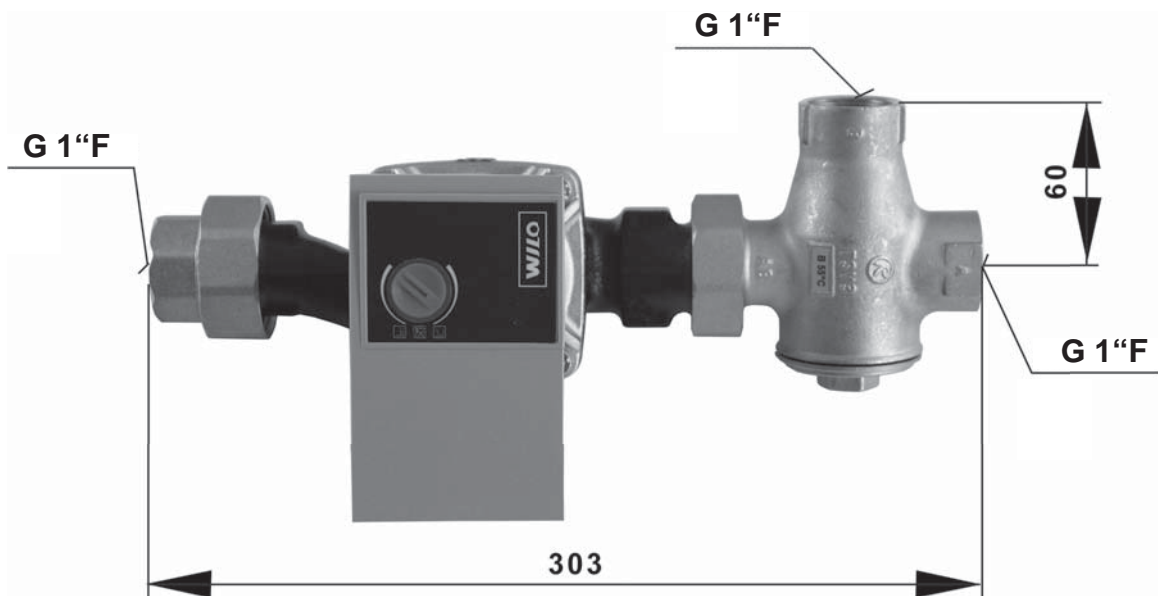
# 2 Description

Regomat keeps the return temperature to a boiler (fireplace) at or above the valve opening temperature, which prevents low-temperature corrosion and boiler fouling. This prevents condensation and boiler tarring. The boiler then works with higher efficiency and its service life is extended.

# 3 Schematic hydraulic diagram for Regomat Thermostatic Pump Station



# 4 Installation dimensions of Regomat Thermostatic Pump Station



## 5 Regomat components:

- » heating system pump
- » TSV3B thermostatic mixing valve
- » pump connection fittings

## 6 Function description and balancing of TSV3B valve



**TSV B thermostatic mixing valve** is fitted with an integrated thermostatic insert that will close the „A” inlet (from a heating system), if the return water to the boiler („AB” outlet) is colder than nominal. As soon as the nominal temperature is reached, the thermostat starts opening the „A” inlet slowly and mixing the cold return water with the hot water from the „B” inlet (boiler outlet) with the aim to reach the nominal return temperature („AB” outlet). At the same time, it closes the „B” inlet, limiting so the hot water flow coming from the by-pass till its complete tight closure. Thanks to this, no balancing valve is needed.

The Thermostatic mixing valve is made of brass, sealing of the element and body plug are made of EPDM, sealing of closing plug is made of NBR.

## 7 Pumps: Wilo Star ST 25/7 - 180mm 9h, G6/4”

### Wilo Yonos Para 25/1-6 RKC, 180mm, G6/4”

### Grundfos ALPHA2L 25-40, 180mm, G6/4”

#### Design

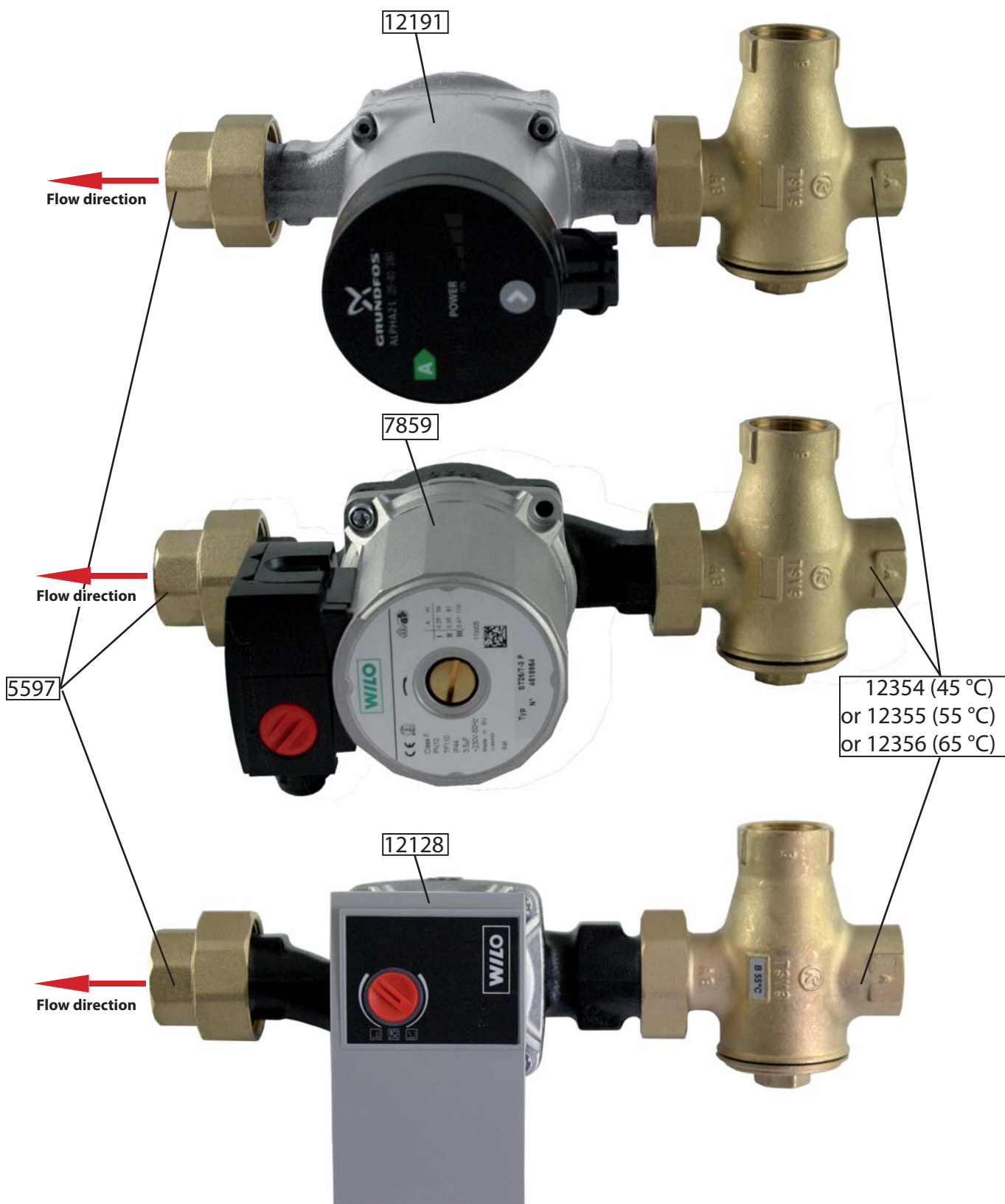
Wet-running circulation pumps with threaded connections. Selectable speed for performance adjustment.

#### Application

All hot-water heating systems, industrial circulation systems, cold water circulation systems and A/C units.



# Regomat components



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**REGULUS spol. s r.o.**  
Do Koutů 1897/3  
143 00 Praha 4  
CZECH REPUBLIC

<http://www.regulus.eu>  
E-mail: [sales@regulus.cz](mailto:sales@regulus.cz)