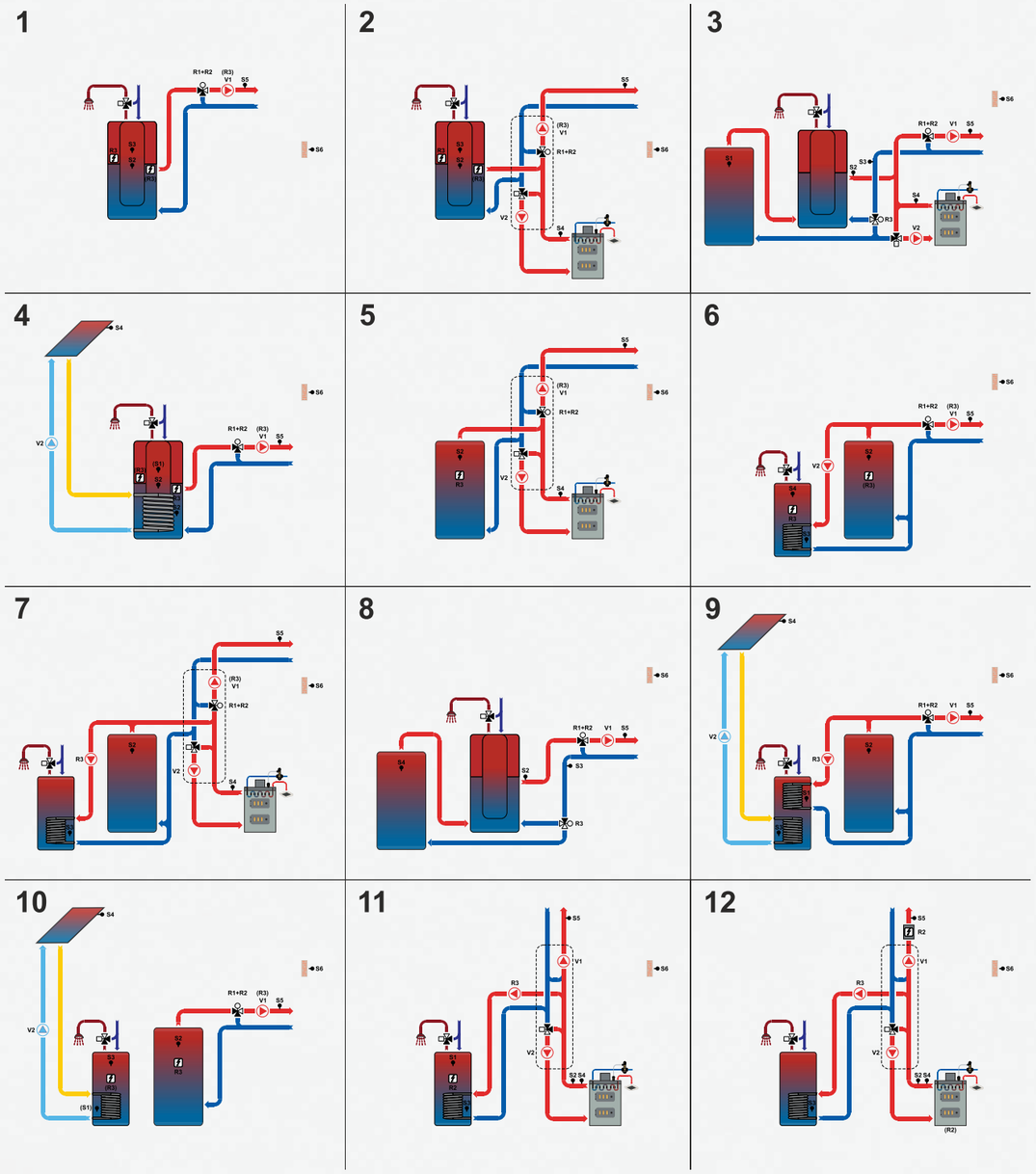
Hydraulic Variants



A solid-fuel boiler (fire) can be connected even to those variants where it is not depicted. In such a case, its circulation pump will not be controlled by the controller but will be switched either by the boiler or by a thermostat.

The dashed lines in Variants 2, 5, 7, 11 mark the load units that contain circulation pumps, a thermostatic mixing valve or also an actuated 3-way mixing valve that are being prepared for market launch as assembled insulated **CSE TSV Load Units.**

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Regulus

TRS6 K

Weather Compensation Controller

Heating control for houses
heated by a fire or a solid-fuel boiler

Energy-saving solutions
www.regulus.eu

WEATHER COMPENSATION CONTROLLERS

TRS6 K Weather Compensation Controller

TRS6 K Controller enables to control a heating circuit, DHW heating and automatic operation of solar thermal systems, solid-fuel boilers, auxiliary electric and gas-fired heat sources. It contains a pair of PWM outputs for control of high-efficiency pumps, 3 relay outputs and 6 inputs for temperature sensors. It can be connected to a CAN bus and utilized for example together with a °Caleon Room Unit.

Code: 16821

Technical Data

VOLTAGE	230 V
CONSUMPTION	0.5-2.5 W
IP RATING	IP 40
PROTECTION CLASS by EN61140 ED.2	II
OPERATING TEMPERATURE	0 to 40 °C
FUSE	T 2A / 250 V slow-blow
CLASS OF CONTROLLER	VI
CONTRIBUTION TO SEASONAL SPACE HEATING ENERGY EFFICIENCY	5 %

Main Features

- depiction of graphics and texts on a backlit display
- simple viewing of the current measurement values
- statistics and system monitoring by means of statistical graphics
- extensive setting menus with explanations
- menu block can be activated to prevent unintentional setting changes
- resetting to previously selected values or factory settings

Equipped with

3 mechanical output relays
2 outputs, 0-10V or PWM
6 inputs for temperature sensors
5 Pt1000 temperature sensors (1 outdoor, 4 sheath mounted)
CAN bus

Control Options

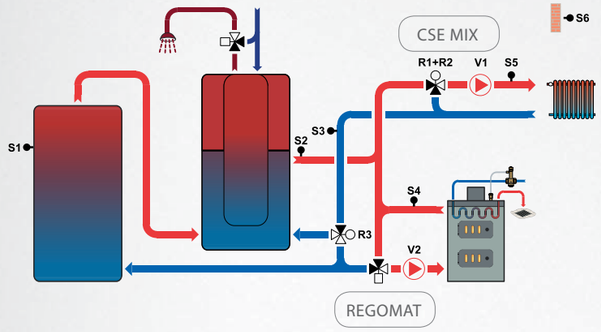
Variant	Solid-fuel boiler (fire)	Solat thermal system	DHW heating	After-heating	Heat exchange	Return preheating	Heating circuit
2	✓		✓	✓			✓
7, 11, 12	✓		✓		✓		✓
5	✓			✓			✓
3	✓					✓	✓
4, 10		✓	✓	✓			✓
9		✓	✓		✓		✓
1			✓	✓			✓
6			✓	✓	✓		✓
8			✓			✓	✓
13,14							✓

Accessories

Room sensor - *Code 16167*
RC21 Room Unit - *Code 9788*
RC Caleon Room Unit - *Code 17150*

Application Examples

A system with a solid-fuel boiler, combination thermal store (DUO/HSK), a mixed heating circuit and return preheating from another thermal store (variant 3).

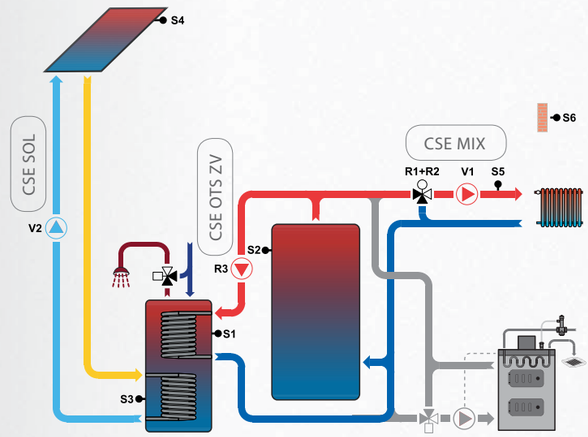


Connections:

S1	Thermal store temperature for preheating
S2	Temperature in combination thermal store bottom part
S3	Heating circuit return temperature
S4	Solid-fuel boiler flow
S5	Heating circuit temperature
S6	Outdoor temperature
V1	PWM signal for heating circuit circulation pump
V2	PWM signal for solid-fuel boiler circulation pump
R1	Heating circuit mixing valve - opening
R2	Heating circuit mixing valve - closing
R3	Return preheating valve

CSE MIX (G or W PWM) – insulated pump station with a circulation pump and a heating circuit mixing valve.
REGOMAT E (G or W PWM) - insulated load unit with a circulation pump and a solid-fuel boiler thermostatic valve.

A solar thermal system for DHW heating, a thermal store with heat transfer to a hot water storage tank, a mixed heating circuit (variant 9).



Connections:

S1	Temperature in HW storage tank – upper part, heat transfer
S2	Temperature in thermal store
S3	Temperature in HW storage tank – lower part, solar heat
S4	Temperature in solar collectors
S5	Heating circuit temperature
S6	Outdoor temperature
V1	PWM signal for heating circuit circulation pump
V2	PWM signal for solar thermal system circulation pump
R1	Heating circuit mixing valve - opening
R2	Heating circuit mixing valve - closing
R3	Heat transfer circulation pump

CSE MIX (G or W PWM) – insulated pump station with a circulation pump and a heating circuit mixing valve.
CSE OTS ZV (G or W) – insulated pump station with a circulation pump, non-return valve and two ball valves.
CSE SOL – insulated solar pump station.