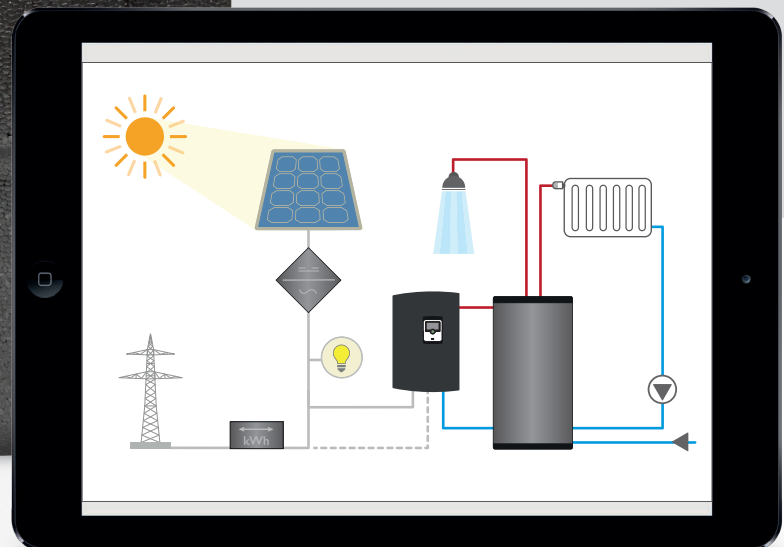




PV heating

RESOL®
CONTROL TECHNOLOGY



FlowSol® E

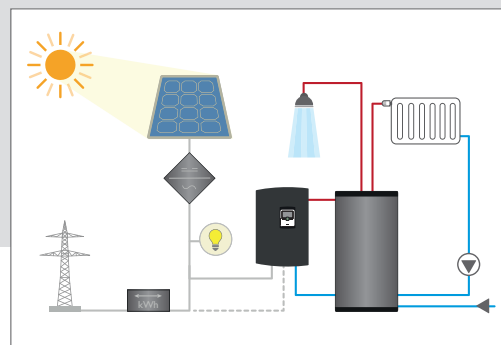
For converting excess current into thermal energy

The RESOL FlowSol® E has been especially designed for using excess power produced by PV systems. The sensor module reliably detects excess current and the integrated controller redirects it to a stepless variable electric heater for heating a water store.

Thus, excess power can be stored as regenerative heat, self consumption can be increased while decreasing conventional heating costs.



EXAMPLE



FlowSol® E electrothermal station

- 1 Power unit
- 2 Sensor module *DeltaTherm® E* sensor

- Integrated high-efficiency pump and *DeltaTherm® E* controller
- Integrated electric heater of up to 3 kW, stepless variable and grid compliant, up to 12 kW with external loads
- Can be easily fitted to all heating systems
- Reliable household power priority
- External backup heating demand (optional)
- Internal backup heating with mains current (optional)
- 0-10 V power control
- Inverter power limitation
- Smart remote access

TECHNICAL DATA

Circulating pump:

Wilo PARA 15/7.0-PWM2

(power consumption of the pump: 3 ... 45 W)

Power supply: 220–240 V~ (50–60 Hz)

Cable cross section required: 2.5 mm²

Heater: 0.8 kW/0.8 kW/1.4 kW

Nominal power/current: 0 ... 3 kW (13 A)

Safety valve: 3 bar

Connections: Rp 3/4" IT

Maximum temperature: 95 °C

Maximum pressure: 3 bar

Medium: heating water

Dimensions: approx. 605 x 400 x 240 mm (with insulation)
distance centre/wall: 76 mm

Weight: 14 kg

Material:

fittings: brass

seals: EPDM

insulation: EPP foam

TECHNICAL DATA CONTROLLER – *DeltaTherm® E*

Inputs: 4 Pt1000 temperature sensors, 2 digital switching inputs

Outputs: 3 semiconductor relays, 1 potential-free extra-low voltage relay, 1 PWM output

Switching capacity: 1 (1) A 240 V~ (semiconductor relay)
1 (1) A 30 V= (potential-free relay)

Total switching capacity: 3 A 240 V~

Power supply: 100–240 V~ (50–60 Hz)

Supply connection: type X attachment

Standby: 0.89 W

Mode of operation: type 1.B.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL VBus®, MicroSD card slot

VBus® current supply: 60 mA

Housing: plastic, PC-ABS and PMMA

Indication/Display: full graphic display, operating control LED (Lightwheel®) and background illumination

Operation: 2 push buttons and 1 adjustment dial (Lightwheel®)

Ingress protection: IP 20/EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Degree of pollution: 2

| Article no. | Article | Price bracket |
|-------------|--|---------------|
| 112 199 33 | FlowSol® E – <i>DeltaTherm® E</i> – Electrothermal station (heating water) » incl. <i>DeltaTherm® E</i> controller, power unit and measuring unit | A |
| 290 030 90 | Spare fuses FlowSol® E – bag with fuses 3 x T16A, 3 x F5A, 3 x T2A | C |