TACOHEAT SMART

SYSTEM PUMP GROUPS

BENEFITS

- **Compact:** All necessary valves, accessories and components are fitted
- **Simple:** Suction and pressure sides can be shut off for straightforward installation and maintenance
- **Efficient:** Demand-based control of the system flow rates and temperatures via the integrated Piko Control controller
- **Flexible:** Can be used with any heat generator

System pump group DN 40 with thermostatic mixing valve, high efficiency pumps and TacoTherm Dual Piko Control controller

DESCRIPTION

The pre-assembled and insulated system pump group is designed to supply decentralised heat interface units via delta-t flow and return control for optimum output actuation. The optionally integrated thermal mixing valve ensures a constant flow temperature.

INSTALLATION POSITION

The system pump group must be fitted vertically so that correct ventilation can be ensured.

OPERATING PRINCIPLE

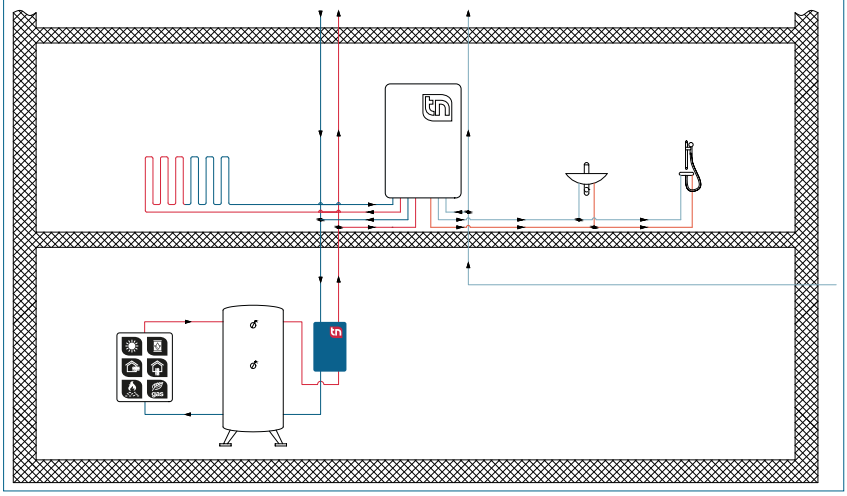
The integral thermal mixing valve regulates the required flow temperature to the selected set value in connection with the flow sensor and the integrated Piko Control controller.
The mixer has an internal bypass which ensures circulation of the return.

It reduces the high flow temperature from the heat generator down to the required level, which also results in an increase in the flow rate, as required for the connected decentralised heat interface units.
The Piko Control system increases the efficiency of the connected apartment transfer stations. The innovative integration of a weather-compensated control system with variable differential pressure and temperature control reduces energy consumption and effectively reduces airflow noise.

BUILDING CATEGORIES

- Apartment buildings
- Single-family houses and estates
- Multi-family houses

SYSTEM/SCHEMATIC DIAGRAM



TENDER DOCUMENTATION

See www.taconova.com

SPECIFICATION

General

- Max. operating temperature $T_{0\,max}$: 80 °C
- Static pressure $P_{0\,max}$: 10 bar
- k_{VS}-value of pump group:
  - TacoHeat Direct k_{VS}: 20
  - TacoHeat Mix k_{VS}: 11
- Thread: G 1½" (to DIN 2999/ ISO 7 and ISO 228)
- Recommended application area: In combination with decentralised heat interface units from Taconova

Material

- Base plate: galvanised sheet steel
- Back panel and cover: stylish EPP insulation
- Flow:
  - Ball valve: hot-pressed brass nickel-plated
  - Circulation pump: cast iron
  - Three-way mixer: brass
- Return:
  - Ball valve: hot-pressed brass nickel-plated
  - Non-return valve: plastic
- Gaskets/seals: EPDM, fiber gasket

Electrical connection information

- Rated voltage: AC 230 V
- Permissible voltage deviation: +10%
- Rated frequency: 50/60 Hz
- Maximum power consumption:
  - TacoHeat Smart: 390W
  - TacoHeat Smart Twin: 590W
- Protection rating: **IP10D**

Heating circulation pump

- Wilo Para Maxo 25-180-10 F42
- EEI ≤ 0.20

Thermal mixing valve

- Setting range 45 – 65 °C

SPECIFICATION (CONTINUED)

Flow media

- Water mixtures with standard corrosion and frost protection additives up to 30 %
- Heating water (VDI 2035; SWKI BT 102-01; ÖNORM H 5195–1)

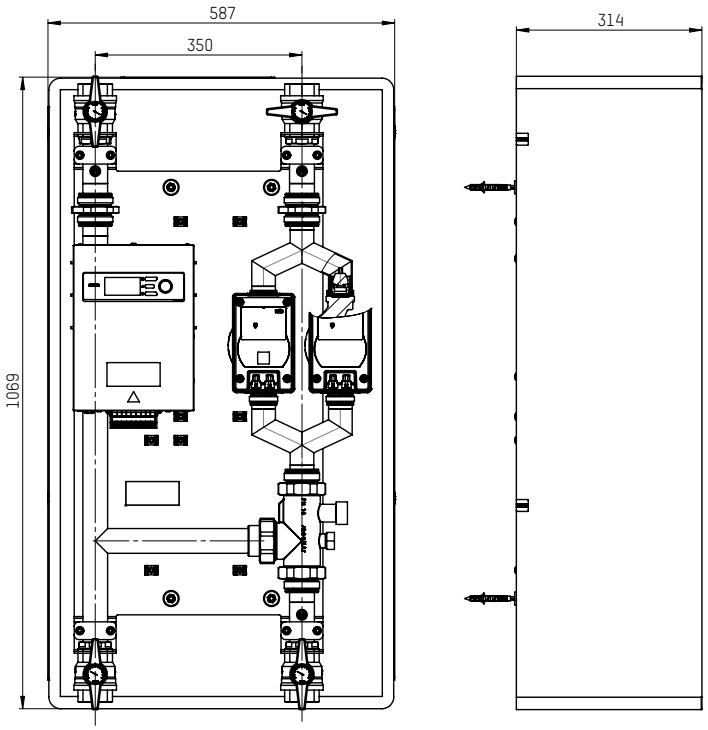
TYPE OVERVIEW

TacoHeat Smart | System pump group

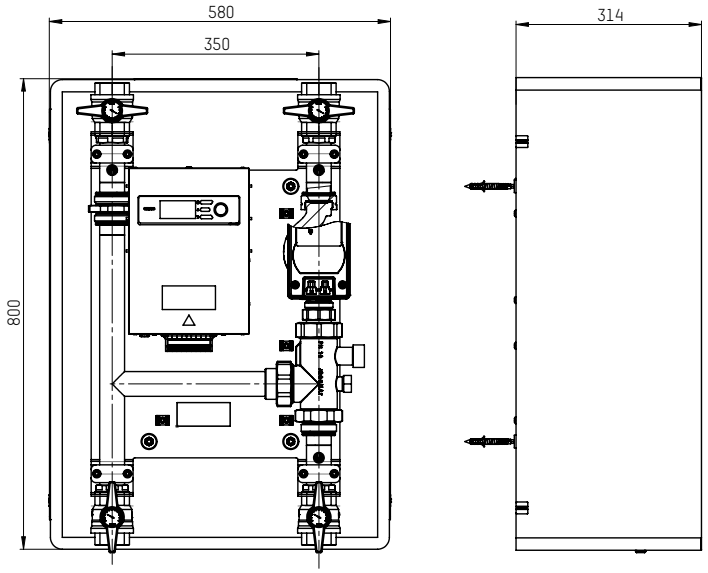
Part no.	Designation	Version	Equipment level
277.3300.000	TacoHeat Smart Direct	Unmixed	Piko Control controller, high efficiency pump
277.3400.000	TacoHeat Smart Direct Twin	Unmixed	Piko Control controller, two high efficiency pumps
277.3301.000	TacoHeat Smart Mix	Mixed	Thermal mixing valve, Piko Control controller, high efficiency pump
277.3401.000	TacoHeat Smart Mix Twin	Mixed	Thermal mixing valve, Piko Control controller, two high efficiency pumps

MASSZEICHNUNG

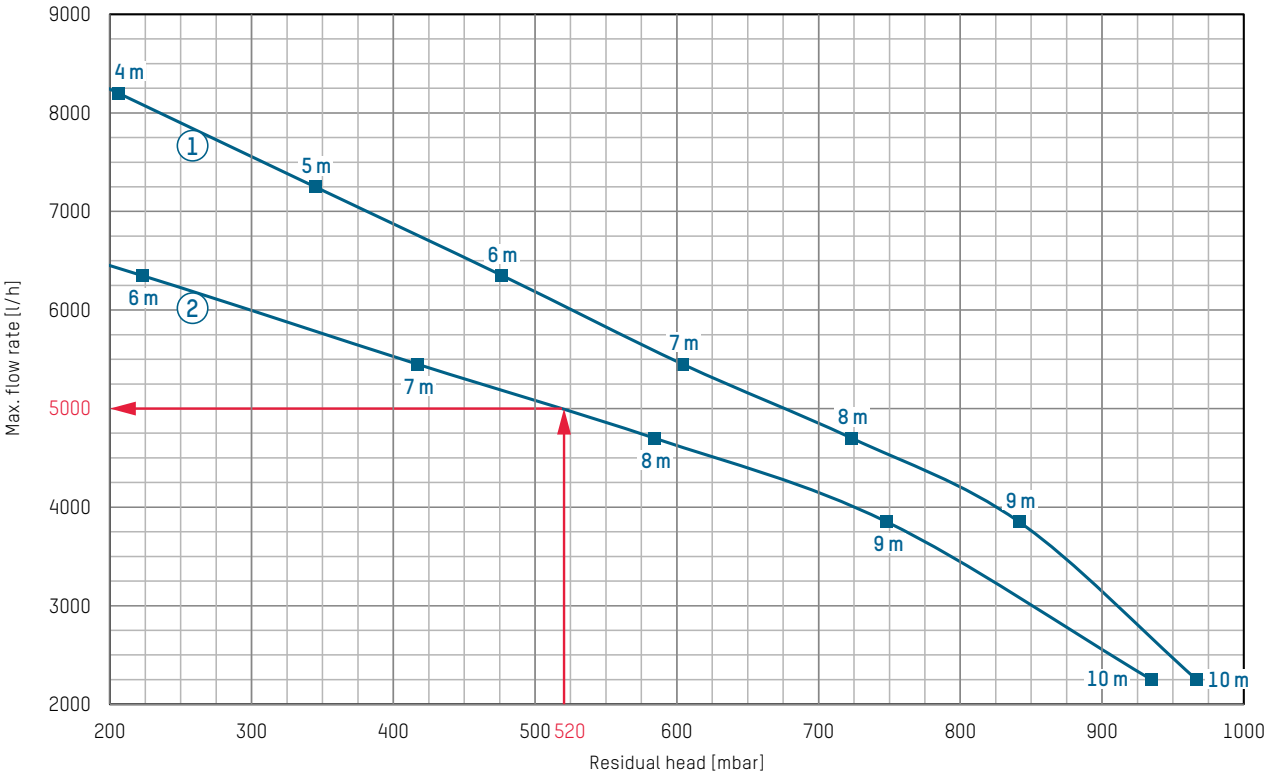
Dimensional drawing TacoHeat Smart TWIN

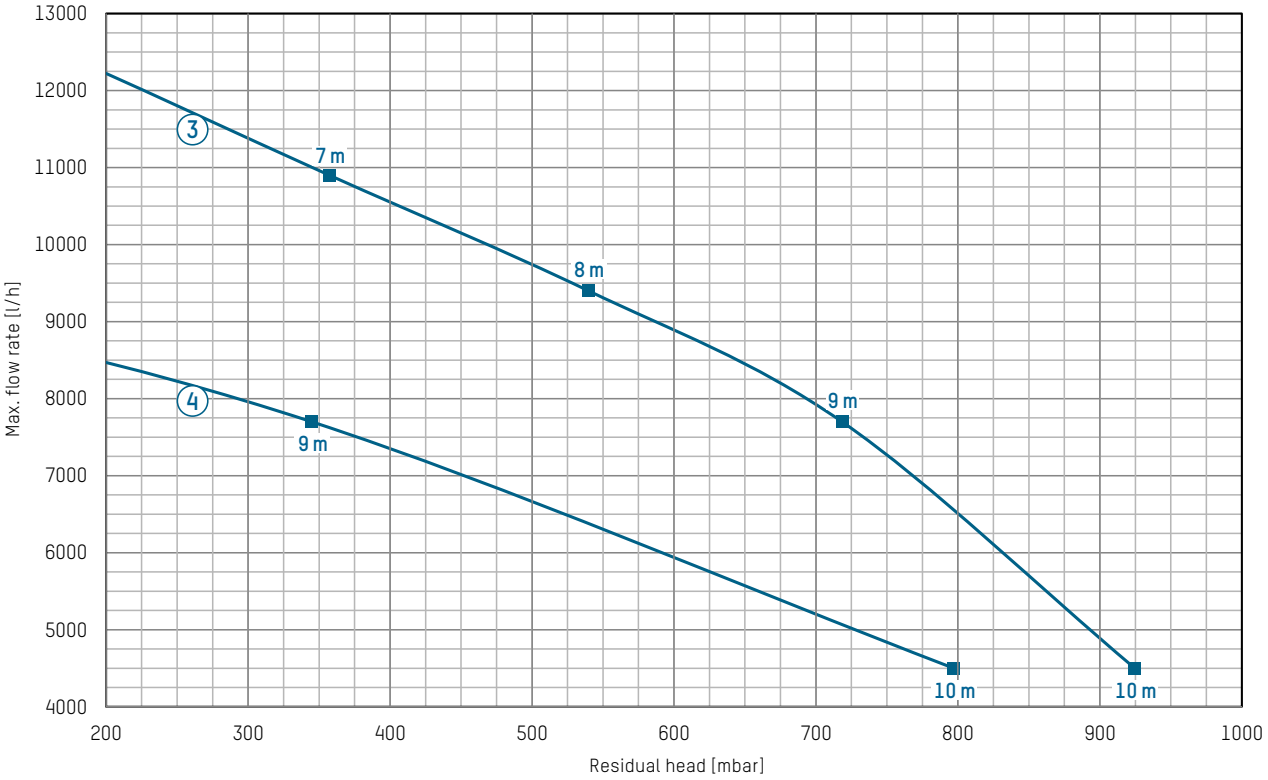


Dimensional drawing TacoHeat SMART



PRESSURE DROP CHARTS





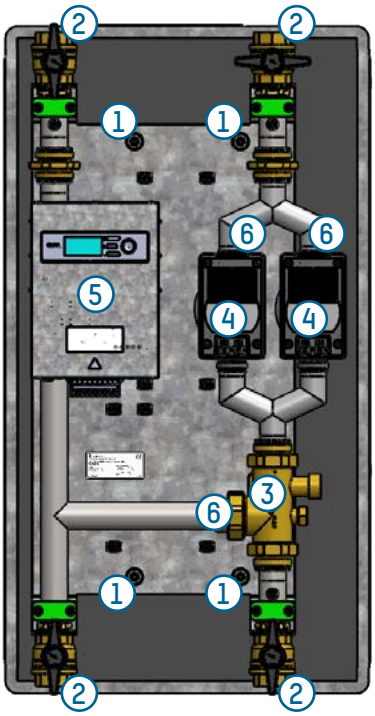
Key

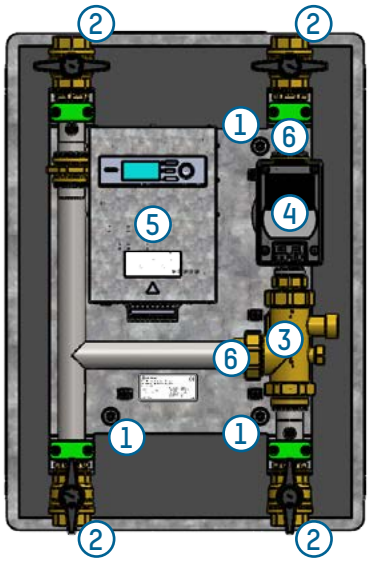
1 TacoHeat Smart Direct
2 TacoHeat Smart Mix
3 TacoHeat Smart Direct Twin
4 TacoHeat Smart Mix Twin
x m: Pump head setting

Reading example

1 Known required pump head: 520 mbar
2 Max. possible flow rate: 5000 l/h
3 Setting for the required pump head: approx. 7.6 m

COMPONENTS





1 Wall mounting

2 Socket ball valve
- 1½" fem. thread DN40 with round thermometer bezel (right for flow, left for return)
- Thermometer Ø: 20 mm
- Indicator range: 0 – 100 °C

3 Thermal mixing valve
- Setting range 45 – 65 °C

4 High efficiency pump
- Wilo Para Maxo 25-180-F42 L=180

5 System pump group controller TacoTherm Dual Piko Control
- Modbus-capable in connection with decentralised heat interface units from Taconova

6 Non-return valve
- DN 20

Insulation and installation accessories
- 4x fasteners
- Installation instructions
- Powder coated and internally isolated metal cover
- Insulated back panel

CONTACT AND FURTHER INFORMATION TACONOVA.COM

Taconova Group AG | Neunbrunnenstrasse 40 | CH-8050 Zürich | T +41 44 735 55 55 | F +41 44 735 55 02 | group@taconova.com
Taconova UK Limited | AMP Technology Centre | Brunel Way | Rotherham | S60 5WG | T +44 114 231 3700 | adminuk@taconova.com

Subject to modification. 01/2026