

Thermal Response Test Equipment Data

Country: Germany

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General TRT data

Type: Heat injection	No TRTs: 1	Size, weight: 3.5 x 1.8 x 1.8 m
Aim: Research, development, commercial		Pump: type, capacity (range)
Powered by: Electricity, threephase current (400V/220V), 16A 50Hz		Heater: electric <12kW (controlled)
Built on/in: Trailer		HP/Cooler: none
		Temperature measurements: <ul style="list-style-type: none"> - Pt100 (inside, ground level surface, ambient and more) - Pt1000 100m length – temperature profile measurement - Nimo-T datalogger – temperature profile measurement
		Flow rate measurements: - magnetic flow meter in each circle
		Voltage stabilization: No
		Electricity measurement: Yes
Remote Data Collection: Yes		GPS: No
Logger: PC - Linux		Remote Control: Yes

TRT Experience

Years of operation: 9 years

Number of performed measurements: >100 (20-30 tests per year)

Typical borehole depths: 20m to 300m

Applications: BHE, energy piles (only measurement)

Typical collector type: 1U, 2U, coaxial pipe

Typical fluid type: water, water/glycol

Typical groundwater temperature: 10-13°C

Geographical area: Germany, Austria, Switzerland, Italy, Great Britain

Analysis Method: Numerical / Line source / online evaluation