

Thermal Response Test Equipment Data

Country: Germany

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General TRT data

Type: Heat injection	No TRTs: 3	Size, weight: 0.7 x 0.8 x 0.6 m
Aim: commercial / development		Pump: type, capacity (range)
Powered by: Electricity (380 V, 16/32 A, 50 Hz)		Heater: electric < 13.5 kW
Built on/in: portable		HP/Cooler: none
<u>Principle outline</u>		Temperature measurements: Pt100 (inside, ambient) Temperature profile measurement Fiber optics
		Flow rate measurements: - magnetic-inductive flow meter
		Voltage stabilization: No
		Electricity measurement: Yes
		GPS: Yes
		Remote Control: Yes
		Remote Data Collection: Yes
		Logger: Easy log and others

TRT Experience

Years of operation: 5 years

Number of performed measurements: ~ 200 (50 tests per year)

Typical borehole depths: 20m to 300m

Applications: BHE, energy piles, heat pipe BHE's, etc.

Typical collector type: 1U, 2U, 3U, coaxial pipe, heat pipes, etc.

Typical fluid type: water, water-glycol

Typical groundwater temperature: 8-12 °C

Geographical area: Germany, Switzerland, Austria, Spain and rest of Europe, South America

Analysis Method: Line source / cylinder source / depth discrete / numerical / online evaluation