

# Thermal Response Test Equipment Data

Country: Germany

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## General TRT data

Type: Heat Pulse	No TRTs: 4	Size, weight: 108*36*25 cm, 30 kg
Aim: commercial		Pump: -
Powered by: Electricity, (400 V or 230 V)		Heater: electric, 16 or 32 A
Built on/in: portable box, container		HP/Cooler: -
		Temperature measurements: faser optics, $\Delta x=0.5$ m, $\Delta T=0.1$ °C -> full temperature-, thermal conductivity- and borehole resistance-depth profiles
		Flow rate measurements: -
		Voltage stabilization: compensated
		Electricity measurement: Yes
		GPS: No
		Remote Control: Yes
		Remote Data Collection: Yes
	Logger: Laptop or SD-Card	

## TRT Experience

Years of operation: since 2002

Number of performed measurements: ~ 40

Typical borehole depths: 10 – 700 m

Applications: BHE, energy piles

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

Typical fluid type:

Typical groundwater temperature: 10-20 °C

Geographical area: Europe

Analysis Method: Numerical / Line-, Cylinder source of heating and relaxation