

# Thermal Response Test Equipment Data

Country: **Germany**

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## General TRT data

Type: <i>Heat injection</i>	No TRTs: <i>1</i>	Size, weight: <i>--</i>
Aim: <i>Research/development/commercial</i>	Pump: <i>Movitec 1,5 kW HD-centrifugal pump</i>	
Powered by: <i>Electricity, 400V, 16A (32A), 50Hz</i>	Heater: <i>3,6,9 kW</i>	
Built on/in: <i>Trailer</i>	HP/Cooler: <i>--</i>	
<u>Principle outline</u>	Temperature measurements: <i>in-, out-, ambient temperature, PT 100</i>	
	Flow rate measurements: <i>- MID Endress+Hauser</i>	
	Voltage stabilization: <i>Yes</i>	
	Electricity measurement: <i>Yes</i>	
	GPS: <i>Yes</i>	
	Remote Control: <i>No</i>	
	Remote Data Collection: <i>No</i>	
	Logger: <i>Memograph M Endress+Hauser</i>	

## TRT Experience

Years of operation: *1*

Number of performed measurements: *10 years Research/development/commercial*

Typical borehole depths: *20m to 200m*

Applications: *BHE*

Typical collector type: *1U, 2U, 3U, coaxial pipe*

Typical fluid type: *water, water/glycol*

Typical groundwater temperature: *9 – 12°C*

Geographical area: *Germany, Netherlands*

Analysis Method: *Numerical / Line source / continuous temperature depth profiling*