

Thermal Response Test Equipment Data

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Country: South Korea

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GENERAL TRT DATA

Type: <i>Heat injection</i>	No TRTs: <i>10</i>	Size, weight: <i>Data Unit 460+600+280mm, 20 kg</i> <i>Heater and Pump: 450+650+570mm 30 kg</i>
Aim: <i>Research/development/commercial(few)</i>		Pump: <i>Grundfos , UPS 25-80</i> <i>capacity (Maximum: 9m3/h, level head: 6m)</i>
Powered by: <i>Electricity</i>		Heater: <i>type and capacity (range)</i>
Built on/in: <i>portable</i>		HP/Cooler: <i>type and capacity (range)</i>
<p>Principle outline</p>		Temperature measurements: - <i>PT 100 Measurement, type, accuracy ±0.2</i>
		Flow rate measurements: - <i>Maximum 50L/min, ±2% FS</i>
		Voltage stabilization: <i>Yes, UPS</i>
		Supply Power Monitoring: <i>Yes, accuracy</i>
		GPS: <i>No</i>
		Remote Control of Operation: <i>Yes</i>
		Remote Data Collection: <i>Yes</i>
		Logger: <i>10 channel 16bit A/D(Graphtec GL500a)</i>

TRT EXPERIENCE

Years of operation: *4*

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

Typical borehole depths: *up to 200*

Applications: *BHE*

Typical collector type: *1U, 2U, type of filling is bentonite +silica sand mixture*

Typical fluid type: *water*

Typical groundwater temperature: *14 - 17*

Geographical area: *Measurement region*

Analysis Method: *Line source/ multi-layer model with Optical fiber sensing.*