

Thermal Response Test Equipment Data

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Country: Japan

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GENERAL TRT DATA

Type: <i>Heat injection</i>	No TRTs: 1	Size, weight: 750 mm+600 mm+750 mm
Aim: <i>Research</i>		Pump: <i>Flow rate 0 ~40 L/min</i>
Powered by: <i>Electricity</i>		Heater: <i>0~6.0 kW(200V)</i>
Built on/in: <i>portable</i>		HP/Cooler: <i>Nothing</i>
<p style="text-align: center;">Principle outline</p>		Temperature measurements: <i>- Pt-100 sensor (Proof read in $\pm 0.01\%$)</i>
		Flow rate measurements: <i>- Flowmeter (Aichi Dokei)</i>
		Voltage stabilization: <i>No</i>
		Supply Power Monitoring: <i>No</i>
		GPS: <i>No</i>
		Remote Control of Operation: <i>No</i>
		Remote Data Collection: <i>No</i>
		Logger: <i>Hioki</i>

TRT EXPERIENCE

Years of operation: 2004

Number of performed measurements: 7 *Research*

Typical borehole depths: 80 ~ 100 m

Applications: *BHE*

Typical collector type: *1U, type of filling: Silica sand*

Typical fluid type: *Water or Antifreeze liquid*

Typical groundwater temperature: 10~20°C

Geographical area: *Hokkaido, Kyushu*

Analysis Method: *Numerical, Line source, Honor plot*