

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: <i>1</i>	Size, weight: <i>1030 mm+1643 mm+1103 mm, 100 kg</i>
Aim: <i>Research</i>		Pump: <i>Flow rate 0 ~40 L/min</i>
Powered by: <i>Electricity</i>		Heater: <i>4.2 kW(AC200V), 1.05(AC100V)</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>- Electromagnetic flowmeter</i>
		Voltage stabilization: <i>Yes</i>
		Supply Power Monitoring: <i>Yes</i>
		GPS: <i>No</i>
		Remote Control of Operation: <i>No</i>
		Remote Data Collection: <i>No</i>
	Logger: <i>Yokogawa DX1000</i>	

TRT EXPERIENCE

Years of operation: *2008*

Number of performed measurements: *3 Research*

Typical borehole depths: *10 ~ 100 m*

Applications: *BHE*

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

Typical fluid type: *Water or Antifreeze liquid*

Typical groundwater temperature: *10 ~ 20 °C*

Geographical area: *Hokkaido, Kanto area(Near Tokyo)*

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