

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: <i>W600 x D460 x H280mm, 20 kg and W310 x D650 x H570mm, 25 kg</i>
Aim: <i>Commercial</i>		Pump: <i>Flow rate 0 ~30 L/min</i>
Powered by: <i>Electricity</i>		Heater: <i>1.0 kW, 2.0kW, 2.0kW(AC200V)</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 ±0.1degC)</i>
		Flow rate measurements: <i>- Electromagnetic flowmeter (Keyence)</i>
		Voltage stabilization: <i>No</i>
		Supply Power Monitoring: <i>Yes</i>
		GPS: <i>No</i>
		Remote Control of Operation: <i>Yes</i>
		Remote Data Collection: <i>Yes</i>
		Logger: <i>M-system Co., Ltd. R1M series</i>

TRT EXPERIENCE

Years of operation: *8 years*

Number of performed measurements: *50 Commercial*

Typical borehole depths: *6 ~ 100 m*

Applications: *BHE, energy piles (Steel piles, PHC piles), SLINKEY*

Typical collector type: *1U, 2U, type of filling: Sand, Silica sand, Water*

Typical fluid type: *Water or Antifreeze liquid:*

Typical groundwater temperature: *14 ~ 19 deg C*

Geographical area: *Tohoku and Kanto area(Near Tokyo)*

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