

# PEM Series Power Generating Efficiency Characteristics Evaluation Instrument

## - For evaluation of characteristics of thermal power generating module -

This is an Instrument that finds thermoelectricity conversion factor  $\eta$  by finding power  $P$  that is generated when one-dimensional heat flow  $Q$  is passed through a heat generating module at a temperature difference of maximum 500°C.

### ●Application

Measurement of power generating efficiency of thermal power generating module

### ●Features

1. Employment of an infrared gold image furnace that excels in temperature controllability
2. Transmission heat flow is measured by a computer, allowing accurate measurement of heat power generated.
3. One-dimensional heat flow has been realized by arranging adiabatic heaters around the sample.

### ●Specifications

Measured value	Power generating conversion efficiency
Method	One-dimensional heat flow method
Sample size	20 to 30 mm x 5 mm square to 10 mm thick
Heating surface temperature	Maximum 800°C
Maximum temperature difference	500 °C
Pressure applied to contact surface	180 kgf
Measurement atmosphere	Vacuum or inert gas

