

RSC-400AE

Rapid Screening Calorimeter



Dual Channel



Accurate



Safety



Intelligent



The RSC-400AE offers calorimetric data in a secure, controlled lab setting. It captures temperature and pressure data of the sample during heating and employs numerical analysis to derive key thermal parameters, including reaction onset temperature, exothermic temperature rise, specific heat release, and gas generation volume. Ideal for swiftly assessing chemical stability and identifying reaction risks.

Hangzhou Zeal Instruments Science & Technology Co., Ltd.

marketing@zeal-instruments.com www.zealinstruments.com

No. 260, 6th Street, Hangzhou, Zhejiang Province, China

Product Features

- Dual-channel design for enhanced efficiency and accuracy in testing.
Features large sample size and pressure data not available with DSC/DTA.
- Supports isothermal, scanning, and dual-gradient scanning modes.
- Equipped with professional data analysis software to obtain data such as the onset point of temperature/pressure changes, peak temperature/pressure, rate of temperature/pressure rise, and reaction heat.
- Features experiment status indication and overpressure/overtemperature alarm functions.
- Inert gas can be connected post-experiment to rapidly cool the furnace.
- The furnace cover features an automatic locking mechanism, which only allows opening when the internal pressure and temperature are within the safety range.
- Professional industrial design, sleek and elegant.

Application Fields



Fine Chemicals

Technical Specifications

Operating Environment	5°C – 40°C, <85% RH	Sample Cup Capacity	8 mL
Temperature Control Range	RT – 400 °C	Sample Cup Material	Stainless Steel, Titanium, Hastelloy (optional)
Heating Rate	0.5–10 °C/min	Interfaces	USB, RS232
Temperature Resolution	0.01 °C	Power Supply	AC 220 V, 50 Hz
Pressure Range	0–20 MPa	Power	800 W
Pressure Resolution	1 kPa	Dimensions	310 mm × 280 mm × 350 mm
Detection Sensitivity	1% DTBP in 6 mL toluene	Weight	15.5 kg

