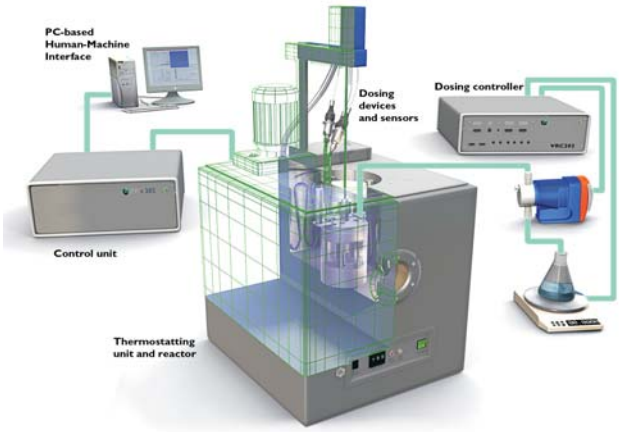
The CPA202 True Heat Flow Reaction Calorimeter
State-of-the-Art for:

Development - Optimization - Safety



The Comparison

Criteria	ChemiSens CPA202	Conventional Heat Flow Calorimetry
Measuring principle	True heat flow. On-line true power signal.	Heat flow values by interpretation. True power values only at calibration points.
Calibration	No calibration. Factory calibrated, once and for all.	Calibration before, during and after experiment.
Time efficiency	Maximum throughput. Up to 4 times faster than conventional calorimetry.	Tedious and labor consuming operation with frequent calibrations.
Reactor volume	Small reactor volume, 10 - 180 ml, variable during experiment.	0.5 to 2 L. Large sample volume required. Cost, risk, waste problem.
Reactor pressure, temperature and material	Vacuum to 100 bar. -50 °C to 200 °C. Glass / SS316, HC276, Tantalum.	Limited variety.
Thermal modes	Isothermal, isoperibolic, adiabatic, temperature scanning, constant heat flow, low power, set new temperature.	Isothermal, isoperibolic, adiabatic.
Reflux operation	Pre-calibrated condenser.	Experiment specific calibration required.
Software	ChemiCall with Profind™	Varying.
Accessories	Versatility through vast range of modular accessories. Dosing of powders, pastes, liquids, gases. Stirrer type options, torque transducer, magnetic stirrer drive. Most probes, pH, IR, FTIR, Raman, etc.	Frequently conventional glassware design.
Installation	Small footprint, 60 x 40 cm, "plug and play" with pre-installed and pre-calibrated software.	Big, requires surrounding fume hood.

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