

By Setaram

New parts and options for DSC, calorimeters and Sievert's instruments

Alexys

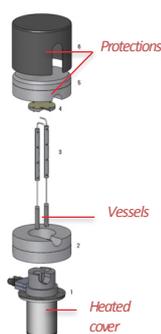
Graphite crucible

A new 16 ml graphite crucible is available for ALEXSYS. The crucible inner diameter is 13 mm and inner height is 124 mm. It is provided with an adapted lid.

C80

Vessel for vapors dosing

A specific vessel that allows for connection with a vapors dosing system was designed for the C80. It can withstand pressures as high as 200 bar. The introduction tube of the vessel is heated up to 250 °C with a dedicated thermostated cover to avoid vapor condensation.



PCTPro

Available test gases

Additional test gases were included in the Hy-data software library. The PCTPro can now be operated with Ethane, Ethylene, Propane, Propylene, Butane, Iso-butane, Butene, and Isobutene.

BT2.15

Cryothermostats for BT2.15

When extremely low temperature calorimetry measurements are not necessary, BT2.15 can be equipped with a high performance chiller adapted to the user's temperature range. -10 to 195 °C, -30 to 165 °C and -50 to 115 °C are already available. More can be made available on request.

C600

The unique high temperature 3D Calvet calorimeter is now available as a standard instrument! It can operate up to 600 °C, with a vessel selection for the characterization of samples as large as 12.5 ml, or for pressures as high as 400 bar.

LABSYS EVO DTA/DSC

Ampoules for Cp rod

Sealable glass ampoules are available with the LABSYS evo 3D Cp rod. They are used for DSC measurements only, and their approximate volume is 125 μ l.

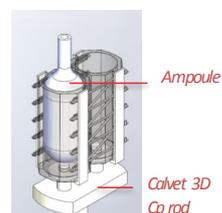
High pressure cell

High pressure vessels with 2 introduction tubes are available for high pressure operations under flow conditions up to 600 bar. They are made of Inconel 625 and their internal volume is 3.6 ml.



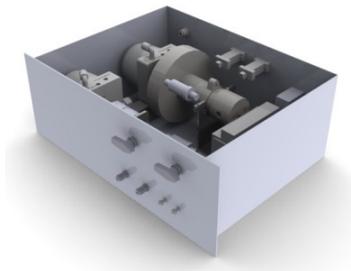
Percolation, High pressure

A percolation cell - or fixed bed reactor cell - is available to measure enthalpies of reaction between a gas and a catalyst under flow conditions, up to 100 bar and to 500 °C. Find out more by downloading TN702 from our application documents library at www.setaram.com.



Panel for gas flow under high pressure

A high pressure gas panel allowing one to flow a gas in a bitube cell, is now available. The maximum operating pressure is 100 bar and maximum temperature is 400 °C. It is based on a high pressure syringe pump, and two precision controlled backpressure regulators for the 0-7 and 0-100 bar ranges.



Coupling to a BET system

An option was developed to detach the SENSYS evo DSC sensor from its base and to connect it to additional instrumentation. As an example, this was used to couple a BET system to a DSC, and thus measure gas sorption enthalpies.

Operations under supercritical CO2 conditions

This new option is based on a high pressure cell connected to a high pressure syringe pump. The entire line, from the pump to the cell, was designed to be heated up to above 31 °C, i.e. above the CO2 critical temperature.

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