

FlexyConcept

Basic Concept

The basic operating modes of an automated system should be supported, depending on applications in such a way that the most effective process type is utilised. When using an automated laboratory reactor these functions are manual and automated recipe operation. This creates a free choice to automate individual processes.

During thermal analysis, experiments are normally already accurately defined and require only a final confirmation of parameters without the need for additional recipe writing.

When conducting reaction calorimetry, an automated laboratory reactor is required which fulfills all ALR needs including those for calorimetry.

SYSTAG is able to meet all these requirements. Continuous development, an option for remote support and excellent after sales service gives you the guarantee for long and trouble free operation of your investment.

Application Areas

Faster processes, shorter reaction times, higher economy, reproducible experiments...

All these demands can only be realised with a conceptionally well thought out system. The operator must be comfortable with the equipment whilst changing from one instrument to another without having to master new instruction manuals or evaluation methods. For this very reason, SYSTAG has developed the **FlexyConcept** on which all our more recent instruments for process development and process safety are based. These are for example:

- **FlexyALR**, automated single laboratory reactor
- **FlexyLab**, the successful parallel process development system
- **FlexyScaleUp**, the top of the range single laboratory reactor with 1.3 and 3 l capacity
- **FlexyTSC** for all thermo analyses using RADEX, SEDEX and SIKAREX
- **Calo 2310**, the *only* non-isothermal and combined heat flow and heat balance reaction calorimeter

Simple - Intuitive - Universally Usable

Integrated Operating Modes

- Manual
- Parameter controlled standard reaction processes
- Recipe controlled sequences
- Graphical/mathematical evaluations

Automatic Recordings

- Sequential progress list
- All set point and actual values
- Automatically generated lab report

Usable in conjunction with the following regulations

- GLP
- GMP
- Part 11 CFR21

Software Platform

- Windows XP
- Networking capability
- Remote operation

FlexyConcept

The Gateway to Chemical Process Development

A simple Software Platform for complete Chemical Process Development

- One platform suitable for complete process optimisation
- Extreme flexibility for optimum resource utilisation
- A single training programme for personnel ensures multi-tasking capabilities
- Optimisation - Safety Evaluations - Scale-up: One operating platform!

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FlexyConcept

Your Gateway to Process Development

Process
R & D

Process
Optimisation

Scale-Up
Stage

Reaction
Calorimetry

Thermal Safety
Evaluation

Pilot
Scale Stage



FlexyLab



FlexyALR



FlexyScaleUp



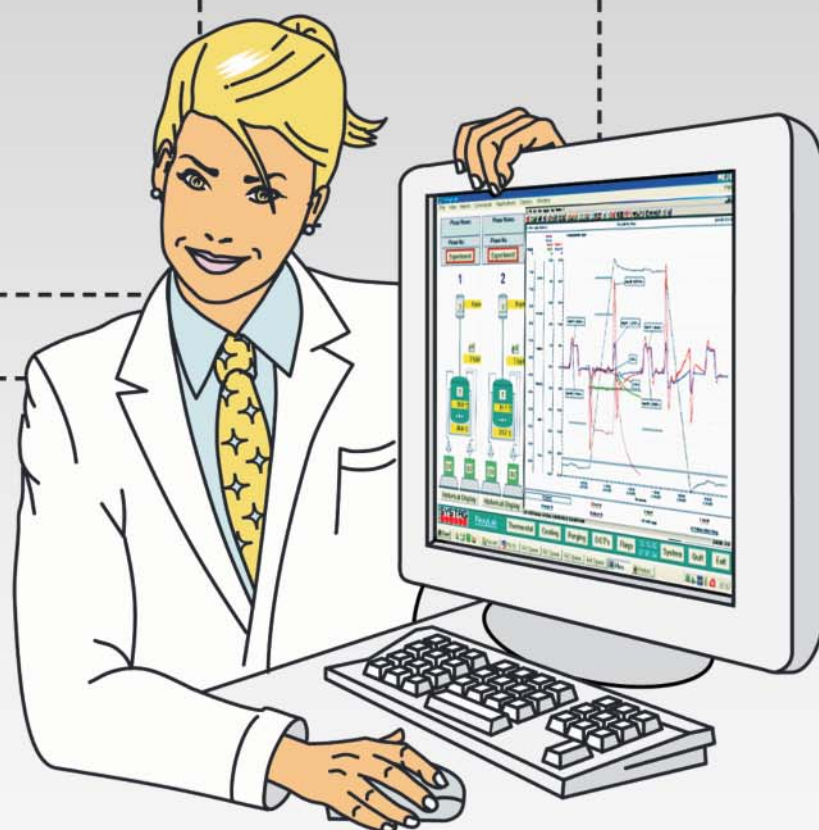
Calo 2310



FlexyTSC



Pilot Plant



Integrated Solutions

- * FlexyLab
- * FlexyScaleUp
- * FlexyALR
- * FlexyTSC
Radex - Sedex - Sikarex
- * Calorimeter
Calo 2310 eco, base, pro

Benefits of a single Software

- * minimum training effort
- * easily understood
- * flexibility even with limited resources
- * cost effective maintenance
- * reliable service provider
- * investment protection through conceptual continuity