



Unistat[®] Tango[®] Nuevo

Heating and Cooling ramp, 1-litre Glas-Keller reactor

Requirement

This case study looks at how well the Tango Nuevo controls the process temperature inside a 1-litre reactor.

Method

Using two large diametre (M24x1,5 DN12) insulated metal hoses, the reactor was connected to the Unistat Tango Nuevo. The reactor was filled with 0.75-litre of "M90.055.03", a Huber supplied silicon based HTF.

Results

Efficient thermal transfer made possible by the low flow resistance of the wide bore tubing coupled with the highly efficient thermal transfer capabilities of the Unistat Tango Technology results in a rapid ramping rate and extremely stable control.

Setup details

Unistat® Tango® Nuevo & Glas Keller reactor

process

Temperature range: -45...250 °C Cooling power: Heating power: Hoses: HTF: Reactor:

Reactor content:

Stirrer speed:

Control:

0.7 kW @ 250...0 °C 0.4 kW @ -20 °C 1.5 kW/3 kW 2x1 m; M24x1.5 (#9325) DW-Therm (#6479) 1-litre vacuum insulated jacketed glass pressure reactor 1.5 litre M90.055.03 (#6259)



