



Unistat[®] 705w

Cooling a Buchi Glas Uster 3-litre metal reactor to $T_{\mbox{\scriptsize min}}$

Requirement

This study looks at the minimum achievable temperature of a Unistat 705w connected to a Buchi Glas Uster 3-litre un-insulated metal pressure reactor under "internal" control.

Method

The Unistat and reactor are connected using two 1-metre insulated metal hoses. The reactor is filled with 2.25 litre of "M90.055.03", a Huber supplied silicon based HTF.

Results

After 2 hours the cooling power asymptotes at an internal temperature of -65 $^{\circ}$ C with a corresponding process temperature of -63 $^{\circ}$ C.

Setup details

Unistat® 705w & Buchi Glas Uster reactor

Temperature range: Cooling Power:
Heating Power:
Hoses:
Reactor:
Reactor contents:

Reactor stirrer speed: 200 rpm Control: internal







Time in hh:mm:ss