Case Study
JULABO FP51-SL

Performance of JULABO FP51-SL with a 35 liter Reactor

Objective

The objective of the test was to determine the lowest temperature achievable in a double jacketed 35 liter glass reactor (QVF), using a JULABO FP51-SL.

Test Conditions

JULABO unit	FP51-SL (400 V / 3 ph / 50 Hz)
Application	35 liter double jacketed glass reactor
Ambient temperature	21 °C
Bath fluid	Ethanol
Fluid in the reactor	Ethanol
Specific Settings	External Temperature control via Pt100 sensor Remote Control of the FP51-SL via PC and EasyTemp Professional

Test Results

	TEMPERATURE RANGE	TIME
Cool-down-time	+20 °C ... -10 °C	1 h 09 Min.
Cool-down-time	+20 °C ... -20 °C	1 h 50 Min.
Cool-down-time	+20 °C ... -30 °C	3 h 10 Min.
Cool-down-time	+20 °C ... -38.6 °C	9 h 30 Min.

The lowest temperature reached inside the reactor was -38.62 °C

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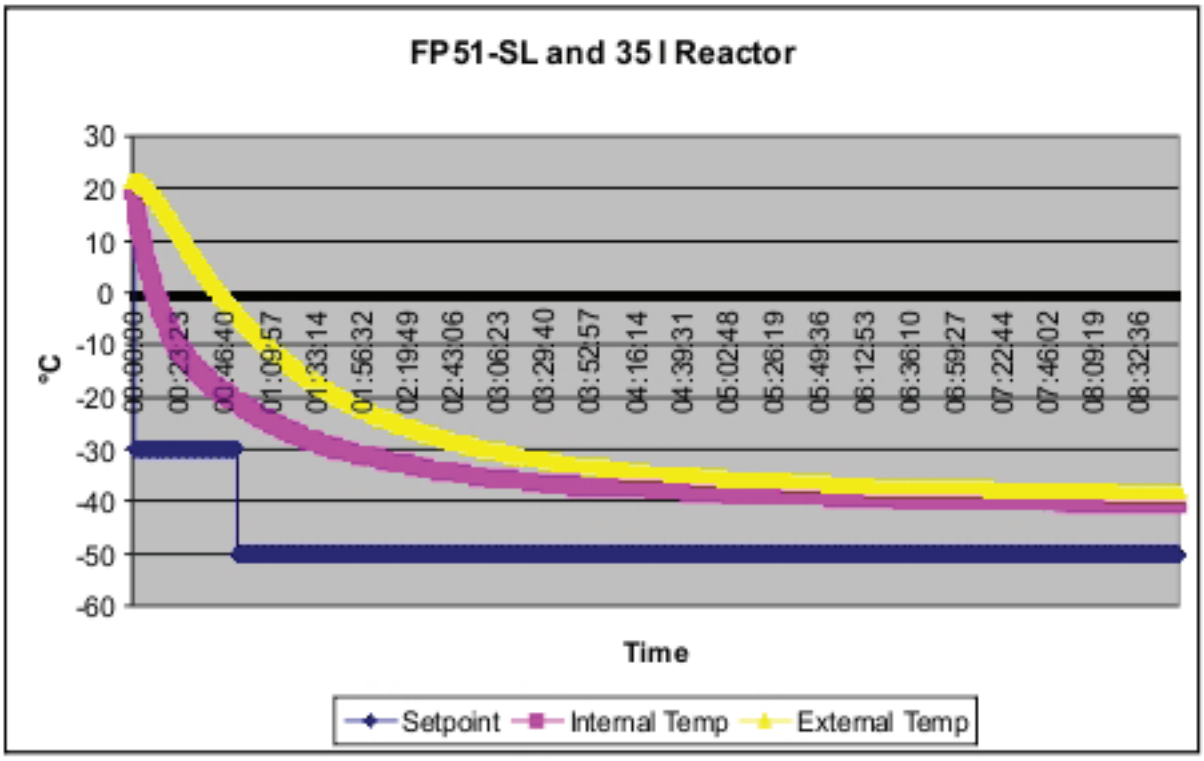

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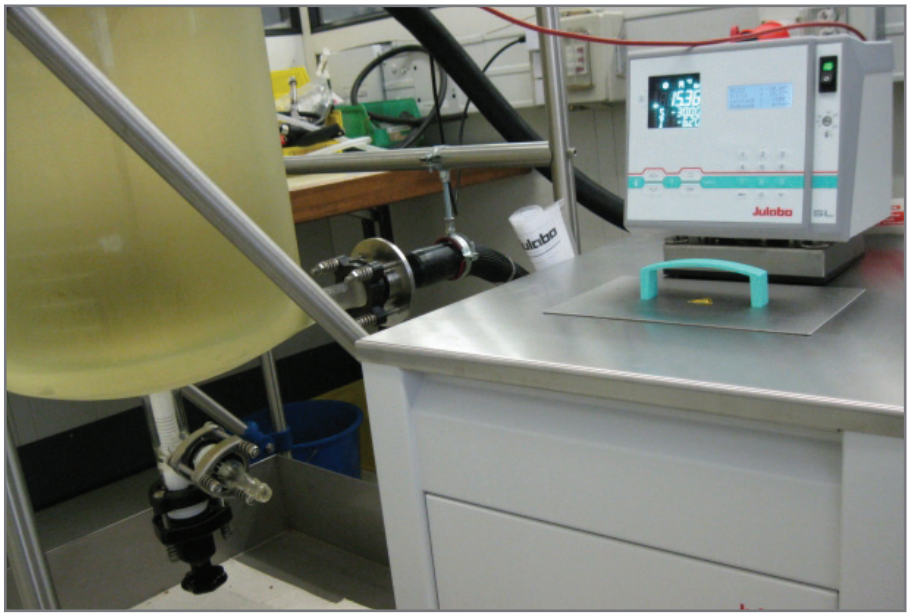

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